

English Version

# INIS Thesaurus

Vienna, November 2018



**IAEA**

International Atomic Energy Agency

# **INIS THESAURUS**

English

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## FOREWORD

This issue of the INIS Thesaurus includes all updates up to the end of November 2018. It contains a total of 31 309 descriptors, of which 22 445 are valid descriptors and 8864 are forbidden terms.

The INIS Thesaurus contains the controlled terminology for indexing all information within the wider subject scopes of the International Nuclear Information System (INIS). The International Nuclear Information System (INIS) hosts one of the world's largest collections of published information on the peaceful uses of nuclear science and technology. It offers online access to a unique collection of non-conventional literature. INIS is operated by the IAEA in collaboration with over 150 members. The terminology is intended for use in subject descriptions for input or retrieval of information in INIS, as well as in other suitable systems.

The terminology in this thesaurus has its origin in the 1969 edition of the EURATOM Thesaurus. The structure subsequently given to that terminology was the result of a systematic study performed by subject specialists at the INIS Secretariat and several Member States. Further expansion of the Thesaurus terminology was done in cooperation with the Energy Technology Data Exchange (ETDE), to incorporate wider vocabulary on all forms of energy.

ETDE was a multilateral information exchange agreement which existed from 1987 to June 2014 under the auspices of the International Energy Agency (IEA). ETDE's mandate was to exchange a wide scope of energy science and technology information among its partners, building its primary database, the ETDE World Energy Base (ETDEWEB).

The INIS Thesaurus is the result of continued editing performed as an international collaborative effort by a team of experts, with the support and cooperation of the Office of Scientific and Technical Information, U.S. Department of Energy.

Any suggestions for improvements to the present document are welcome. Comments should be sent to INIS at the following address:

### **INIS**

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## PREFACE

“A thesaurus is a terminological control device used in translating from the natural language of documents, indexers or users into a more constrained ‘system language’ (document language, information language)”. It is also “a controlled and dynamic vocabulary of semantically and generically related terms which covers a specific domain of knowledge”. The INIS Thesaurus fits this definition adopted by UNESCO.<sup>1</sup>

The domain of knowledge covered by the INIS Thesaurus includes physics (in particular, plasma physics, atomic and molecular physics, and especially nuclear and high-energy physics), chemistry, materials science, earth sciences, radiation biology, radioisotope effects and kinetics, applied life sciences, radiology and nuclear medicine, isotope and radiation source technology, radiation protection, radiation applications, engineering, instrumentation, fossil fuels, synthetic fuels, renewable energy sources, advanced energy systems, fission and fusion reactor technology, safeguards and inspection, waste management, environmental aspects of the production and consumption of energy from nuclear and non-nuclear sources, energy efficiency and energy conservation, economics and sociology of energy production and use, energy policy, and nuclear law.

The terms in the INIS Thesaurus are listed alphabetically. For each alphabetical entry, a “word block”, containing the terms associated with this particular entry, is displayed. In the word block, terms that have a hierarchical relationship to the entry are identified by the symbols **BT** for *Broader Term*, and **NT** for *Narrower Term*; terms with an affinitive relationship are identified by **RT**, for *Related Term*; terms with a preferential relationship are identified by **USE** or **SEE**, and **UF** for *Used For*, and **SF** for *Seen For*. In case of multiple **USE** relationships for a forbidden term, **all** listed descriptors should be used to index or search a given concept. In case of multiple **SEE** relationships, **one or more** of the listed descriptors should be considered for indexing or searching this concept.

A non-descriptor may refer to a descriptor that has *Narrower Terms*. Users of the INIS Thesaurus should always refer to the word block of that descriptor, to ensure that the most specific term is chosen. For all terms, only one level of *Broader Terms* is shown. If terms have additional levels of broader terms, e.g. **BT2**, **BT3**, etc., this is indicated by an asterisk, e.g. **\*BT1**. Up to ten levels of *Narrower Terms* are shown for all terms. If terms have additional levels of narrower terms, such as **NT11**, **NT12**, etc., this is indicated by an asterisk, e.g. **\*NT10**.

The dates printed after each descriptor indicate when the term was introduced for use in the INIS database or in ETDEWEB. If only one date is given, the descriptor was introduced in both databases at the same time. If the descriptor is **not** followed by a date, it already existed in the Thesaurus **before 30 June 1975**.

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<sup>1</sup> SC/WS/555: Guidelines for the Establishment and Development of Monolingual Thesauri: United Nations Educational, Scientific and Cultural Organization, Paris, September 1973.



When searching for entries in the alphabetic listing, users should take note of the following Unicode collation algorithm (sort order):

	space
!	exclamation mark
"	quotation mark
#	number sign
\$	dollar sign
%	percent sign
&	ampersand
'	apostrophe
(	left parenthesis
)	right parenthesis
*	asterisk
+	plus sign
,	comma
-	hyphen-minus
.	period
/	solidus
	Arabic numerals 0-9
	Roman alphabet A-Z

Numbers, which include single and multiple digits, are sorted by the initial digit first, e.g. the isotopes BORON 10 and BORON 19 appear before BORON 7 and BORON 9. In the same way, RUTHENIUM 100 appears before RUTHENIUM 88.

All terms, in which the first character is a number, appear before the letter A.

Additions and changes to the vocabulary of controlled terminology in the current Thesaurus are summarized in monthly updates. They are available from the INIS website ([www.iaea.org/inis](http://www.iaea.org/inis)). These updates include the first-level broader and narrower terms, related terms, scope notes for the new descriptors, and the descriptor(s) to be used for each new forbidden term.

# DICTIONARY

## ILL HIGH FLUX REACTOR

- 2018-08-16  
*Institut Laue-Langevin, Grenoble, France.*  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 training reactors

### 1,1-diethoxyethane

USE acetal

### 1,2,3-propanetriol

USE glycerol

### 1,2,3-trihydroxybenzene

USE pyrogallol

### 1,2,4,5-tetramethylbenzene

USE durene

### 1,2-dihydroxyanthraquinone

USE alizarin

### 1,2-dihydroxybenzene

USE pyrocatechol

### 1,2-dimethoxyethane

USE dme

### 1,2-diphenylethane

USE bibenzyl

### 1,2-diphenylethylene

USE stilbene

### 1,2-ethanedial

USE glyoxal

### 1,2-ethanediol

USE glycols

### 1,2-ethanedithiol

USE dithiols

### 1,3,5-triamino-2,4,6-trinitrobenzene

INIS: 2000-04-12; ETDE: 1975-08-19  
 USE tatb

### 1,3,5-trimethylbenzene

USE mesitylene

### 1,3,7-trimethylxanthine

USE caffeine

### 1,3-diazines

USE pyrimidines

### 1,3-dihydroxybenzene

USE resorcinol

### 1,3-dimethylxanthine

USE theophylline

### 1,4-diaminobutane

USE putrescine

### 1,4-diazines

USE pyrazines

### 1,4-dihydroxyanthraquinone

USE quinizarin

### 1,4-dioxane

USE dioxane

### 1,5-diaminopentane

USE cadaverine

### 1/v law

INIS: 1975-09-26; ETDE: 1975-10-28  
 USE reciprocal v law

### 1-dimensional calculations

USE one-dimensional calculations

### 1-NITROSO-2-NAPHTHOL

UF alpha-nitroso-beta-naphthol

UF anbn

\*BT1 naphthols

\*BT1 nitroso compounds

BT1 reagents

### 1-propanol

USE propanols

### 2,2-dimethylpropane

USE 2-2-dimethylpropane

### 2,2-dithiobisethylamine

INIS: 1984-05-24; ETDE: 2002-06-06  
 USE cystamine

### 2,3,4,7-dibenzoanthracene

INIS: 2000-04-12; ETDE: 1985-09-23  
 USE pentacene

### 2,4-pentanedione

USE acetylacetone

### 2,5-diaminovaleric acid

USE ornithine

### 2-2-DIMETHYLPROPANE

UF 2,2-dimethylpropane

UF dimethylpropane (2,2-)

UF neopentane

\*BT1 alkanes

### 2-3-PENTANEDIONE

UF acetyl propionyl

UF methyl ethyl diketone

UF pentanedione (2,3)

\*BT1 ketones

### 2-chloro-1,3-butadiene

USE neoprene

### 2-dimensional calculations

USE two-dimensional calculations

### 2-furalaldehyde

USE furfural

### 2-mercaptopropionylglycine

INIS: 1981-12-23; ETDE: 1982-02-09  
 USE mpg

### 2-methylbutadiene

USE isoprene

### 2-METHYLBUTANE

INIS: 1983-09-06; ETDE: 1979-09-26

UF isopentane

UF methylbutane (2-)

\*BT1 alkanes

### 2-METHYLPROPANE

UF isobutane

UF methylpropane (2-)

\*BT1 alkanes

### 2-METHYLPROPANOL

UF isobutyl alcohol

UF methylpropanol (2-)

\*BT1 alcohols

### 2-METHYLPROPENE

UF isobutylene

UF methylpropene (2-)

\*BT1 alkenes

### 2-methylquinoline

USE quinaldine

### 2-nitroimidazole

INIS: 2000-04-12; ETDE: 1981-01-27  
 USE misonidazole

### 2-propanol

USE propanols

### 2-pyridinecarboxylic acid

USE picolinic acid

### 2-pyrrolidinecarboxylic acid

USE proline

### 2X DEVICES

\*BT1 magnetic mirrors

### 3,4-dihydroxyphenylalanine

USE dopa

### 3,7-dimethylxanthine

USE theobromine

### 3-dimensional calculations

USE three-dimensional calculations

### 3-METHYLCHOLANTHRENE

INIS: 1982-02-09; ETDE: 1979-07-18

\*BT1 polycyclic aromatic hydrocarbons

RT combustion products

### 3j-symbols

USE clebsch-gordan coefficients

### 4-dimensional calculations

USE four-dimensional calculations

### 5-amino-2,3-dihydro-1,4-phthalazine-dione

INIS: 2000-04-12; ETDE: 1982-01-21  
 USE luminol

### 5-methyl uracil

ETDE: 2002-06-06  
 USE thymine

### 5-methyluracil

2000-04-12  
 USE thymine

### 5U PELLETRON ACCELERATOR

INIS: 1980-02-26; ETDE: 1980-03-29  
 \*BT1 pelletron accelerators

### 6-aminopurine

USE adenines

### 6-carboxyuracil

USE orotic acid

### 6-furfurylaminopurine

USE kinetin

**6j-symbols**

USE racah coefficients

**710 reactor**

2000-04-12

(Prior to May 1993, this was a valid ETDE descriptor.)

SEE enriched uranium reactors  
SEE fast reactors  
SEE gas cooled reactors  
SEE mobile reactors  
SEE propulsion reactors

**8-hydroxyquinoline**

1980-07-24

USE oxine

**8-hydroxyxanthine**

USE uric acid

**8-quinolinol**

INIS: 2000-04-12; ETDE: 1985-08-22

USE oxine

**9j-symbols**

USE wigner coefficients

**a-1 reactor (bohunice)**

USE bohunice a-1 reactor

**a-1 reactor (calder hall)**

USE calder hall a-1 reactor

**a-15 compounds**

INIS: 2000-04-12; ETDE: 1979-05-02

USE beta-w structures

**a-2 reactor (bohunice)**

USE bohunice a-2 reactor

**a-2 reactor (calder hall)**

USE calder hall a-2 reactor

**a 285 steel**

INIS: 2000-04-12; ETDE: 1978-12-20

USE steel-astm-a285

**A-BOMB SURVIVORS**

\*BT1 human populations  
RT delayed radiation effects  
RT epidemiology  
RT hiroshima  
RT little boy  
RT nagasaki

**A CENTERS**

1982-08-27

\*BT1 color centers

**A CODES**

BT1 computer codes

**a resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**A0-980 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-25

(Prior to December 1987 this concept was indexed by DELTA-966 RESONANCES.)

UF delta-966 resonances

\*BT1 scalar mesons

**a1-1070 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE a1-1260 mesons

**A1-1260 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by A1-1070 RESONANCES; from then until July 1995 it was indexed by A1-1270 MESONS.)

UF a1-1070 resonances

UF a1-1270 mesons

\*BT1 axial vector mesons

**a1-1270 mesons**

INIS: 1995-08-07; ETDE: 1988-01-29

(From December 1987 until July 1995 this was a valid term.)

USE a1-1260 mesons

**a2-1310 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE a2-1320 mesons

**A2-1320 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29

(Prior to December 1987 this concept was indexed by A2-1310 RESONANCES.)

UF a2-1310 resonances

\*BT1 tensor mesons

**a2h-1320 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**a2l-1280 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**a3 resonances**

2000-04-12

USE pi2-1670 mesons

**a4-1960 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE a4-2040 mesons

**A4-2040 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by A4-1960 RESONANCES.)

UF a4-1960 resonances

\*BT1 tensor mesons

**A6-2450 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 tensor mesons

**AABO CYCLOTRON**

UF turku cyclotron

\*BT1 isochronous cyclotrons

**aaec**

INIS: 1996-01-30; ETDE: 1978-04-28

Australian Atomic Energy Commission. The AAEC was abolished on 27 April 1987 and replaced by ANSTO.

(Until January 1996 this was a valid descriptor.)

USE ansto

**aaf**

INIS: 2000-04-12; ETDE: 1985-09-23

USE acetylaminofluorenes

**AAPS**

INIS: 2000-04-12; ETDE: 1979-05-02

UF advanced automotive propulsion systems

RT automotive industry

RT electric-powered vehicles

RT gas turbine engines

RT internal combustion engines

RT stirling engines

**AARR REACTOR**

2000-04-12

ANL, Argonne, Illinois, USA.

UF argonne tank research and test reactor-aarr

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**ABACC**

1999-06-22

Agencia Brasileiro-Argentina de Contabilidade e Controle de Materiais Nucleares.

UF agencia brasil-argentina contabil controle mater nuclear

UF argentina-brasil agencia contabil controle mater nuclear

UF brasil-argentina agencia contabil controle mater nuclear

UF nuclear mater, agencia brasil-argentina contabil controle

BT1 international organizations

RT safeguards

**ABANDONED SHAFTS**

INIS: 1991-12-18; ETDE: 1977-12-22

UF disused mineshafts

\*BT1 mine shafts

RT coal mines

RT mines

**ABANDONED SITES**

INIS: 1980-12-01; ETDE: 1978-10-23

RT brownfield sites

RT land reclamation

RT remedial action

**ABANDONED WELLS**

INIS: 1992-03-05; ETDE: 1977-08-24

An oil or gas well that has been abandoned because its yield has fallen below that necessary for profitable production.

BT1 wells

RT natural gas wells

RT oil wells

**abashian-booth-crowe effect**

INIS: 1977-09-15; ETDE: 1977-11-09

USE abc effect

**ABC EFFECT**

INIS: 1977-09-15; ETDE: 1977-11-10

UF abashian-booth-crowe effect

RT interactions

RT missing-mass spectra

RT pions

**ABDOMEN**

1999-04-06

BT1 body

RT diaphragm

RT gastrointestinal tract

RT liver

RT peritoneum

RT spleen

**ABELIAN ANYONS**

2013-08-26

\*BT1 anyons

**aberdeen maryland reactor**

1999-03-05

USE aprf reactor

**aberration yield**

USE mutation frequency

**ABFST EQUATION***Amati-Bertocchi-Fabini-Strangellini-Tonin Equation.*

BT1 equations

RT multiperipheral model

RT regge poles

RT scattering amplitudes

**abies**

INIS: 2000-04-12; ETDE: 1985-12-11

USE firs

**ABIOGENIC GAS**

INIS: 2000-04-12; ETDE: 1982-05-12

*Methane deposits at great depths within the earth due to nonbiogenic processes.*

\*BT1 natural gas

**ABLATION***For the medical concept use SURGERY or RADIOTHERAPY.*

RT erosion

RT heat transfer

RT reentry

RT refractories

RT sublimation heat

**abmr method**

2002-11-14

USE atomic beams

USE magnetic resonance

**abnormalities (chromosomal)**

USE chromosomal aberrations

**abnormalities (developmental)**

USE malformations

**ABORTION**

RT pregnancy

RT reproductive disorders

**abragam model**

USE abragam-pound theory

**ABRAGAM-POUND THEORY**

UF abragam model

RT angular correlation

RT angular distribution

**ABRASION**

RT abrasives

RT erosion

RT wear

**ABRASIVES**

(From April 1975 till March 1997 PUMICE was a valid ETDE descriptor.)

SF pumice

RT abrasion

**ABRIKOSOV THEORY**

RT magnetic properties

RT superconductivity

RT superconductors

RT vortex theory

**abs (alkyl benzenesulfonates)**

ETDE: 2005-01-28

(Prior to January 2005 ABS was a valid descriptor.)

USE alkyl benzenesulfonates

**ABSCESSSES**

BT1 pathological changes

**ABSCISIC ACID**

INIS: 2000-04-12; ETDE: 1985-05-07

*A plant hormone that promotes abscission and plant dormancy.*

\*BT1 monocarboxylic acids

BT1 plant growth regulators

RT auxins

RT hormones

**ABSCOPAL RADIATION EFFECTS**

\*BT1 biological radiation effects

RT local irradiation

RT partial body irradiation

RT radiotoxins

**ABSOLUTE COUNTING**

BT1 counting techniques

RT calibration

**ABSOLUTE INSTABILITIES***A class of plasma instabilities growing exponentially with time at any point in space; opposite to CONVECTIVE INSTABILITIES.*

\*BT1 plasma instability

RT briggs criterion

RT convective instabilities

**absolute liability**

INIS: 1990-12-15; ETDE: 2002-06-06

(Prior to December 1990, this was a valid descriptor.)

USE liabilities

**absolute zero temperature**

1992-09-30

(Prior to February 1992 this was a valid ETDE descriptor.)

USE temperature zero k

**ABSORBED DOSE RANGE**

2012-05-30

BT1 radiation dose ranges

NT1 giga gy range

NT1 gy range

NT2 gy range 01-10

NT2 gy range 10-100

NT2 gy range 100-1000

NT1 kilo gy range

NT1 mega gy range

NT1 micro gy range

NT2 micro gy range 01-10

NT2 micro gy range 10-100

NT2 micro gy range 100-1000

NT1 milli gy range

NT2 milli gy range 01-10

NT2 milli gy range 10-100

NT2 milli gy range 100-1000

NT1 nano gy range

RT absorbed radiation doses

**absorbed doses**

SEE absorbed radiation doses

**absorbed fraction (internal irradiation)**

USE internal irradiation

USE spatial dose distributions

**ABSORBED RADIATION DOSES**

2012-05-30

SF absorbed doses

\*BT1 radiation doses

RT absorbed dose range

**ABSORBENTS**

2006-02-06

RT absorption

RT sorptive properties

**ABSORBER PELLETS**

2003-10-21

BT1 neutron absorbers

BT1 pellets

**absorbers (solar)**

INIS: 2000-04-12; ETDE: 1977-10-19

USE solar absorbers

**ABSORPTION**

1999-03-19

UF stopping (particle absorption)

BT1 sorption

NT1 energy absorption

NT1 intestinal absorption

NT1 k absorption

NT1 polar-cap absorption

NT1 resonance absorption

NT1 root absorption

NT1 self-absorption

NT1 skin absorption

RT absorbents

RT absorption refrigeration cycle

RT absorption spectra

RT absorption spectroscopy

RT absorptivity

RT assimilation

RT half-thickness

RT heterogeneous effects

RT point kernels

RT radiations

RT range

RT self-shielding

RT shielding

RT sinks

RT slowing-down

RT stopping power

RT transmission

**absorption (intestinal)**

USE intestinal absorption

**absorption (leaves)**

INIS: 1980-12-01; ETDE: 1981-01-09

USE foliar uptake

**absorption (root)**

INIS: 1980-12-01; ETDE: 1981-01-09

USE root absorption

**absorption (skin)**

USE skin absorption

**ABSORPTION HEAT**

UF heat of absorption

\*BT1 enthalpy

\*BT1 heat

RT wetting heat

**absorption model**

2000-04-12

USE linear absorption models

**absorption models (linear)**

INIS: 1976-02-11; ETDE: 2002-06-06

USE linear absorption models

**ABSORPTION REFRIGERATION CYCLE**

INIS: 1992-04-16; ETDE: 1978-05-03

BT1 thermodynamic cycles

RT absorption

RT air conditioners

RT cooling systems

RT refrigerating machinery

RT refrigeration

RT refrigerators

**ABSORPTION SPECTRA**

UF spectra (absorption)

BT1 spectra

RT absorption

RT absorption spectroscopy

RT optical depth curve

RT spectroscopic curve of growth

**ABSORPTION SPECTROSCOPY**

- UF atomic absorption spectroscopy
- UF colorimetry
- SF spectrochemistry
- BT1 spectroscopy
- RT absorption
- RT absorption spectra
- RT double resonance methods
- RT extreme ultraviolet spectra
- RT infrared spectra
- RT laser spectroscopy
- RT photoacoustic spectrometers
- RT structural chemical analysis
- RT ultraviolet spectra

**ABSORPTIVITY**

- INIS: 1998-10-23; ETDE: 1975-09-30
- Ratio of energy absorbed to energy incident upon a surface.
- BT1 physical properties
- BT1 surface properties
- RT absorption
- RT optical properties
- RT spectral reflectance

**absorptivity (optical)**

- 2000-03-24
- SEE opacity

**ABSTRACTS**

Use only for items about abstracts, not for items which are abstracts or collections of abstracts.

- NT1 leading abstract
- RT document types

**abu dhabi**

- INIS: 1992-05-07; ETDE: 1976-08-05
- USE united arab emirates

**ABUNDANCE**

- 1992-03-09
- SF concentration
- SF concentration (analytical)
- SF concentration dependence
- NT1 element abundance
- RT chemical composition
- RT concentration ratio
- RT isotope ratio
- RT ore composition

**abundance (chemical)**

- ETDE: 2002-06-06
- USE chemical composition

**abundance (element)**

- ETDE: 2002-06-06
- USE element abundance

**abundance (isotopic)**

- ETDE: 2002-06-06
- USE isotope ratio

**abundance (mineral)**

- ETDE: 2002-06-06
- USE ore composition

**AC AMPLIFIERS**

- \*BT1 amplifiers

**AC LOSSES**

- 1982-11-29
- \*BT1 energy losses
- RT superconductivity

**AC SYSTEMS**

- INIS: 1991-12-17; ETDE: 1976-05-17
- UF alternating current systems
- \*BT1 power systems
- NT1 ehv ac systems
- NT1 hvac systems
- NT1 uhv ac systems

**ac to dc converters**

- 2006-05-12
- USE rectifiers

**ACCELERATION**

- UF deceleration
- NT1 plasma acceleration
- RT accelerators
- RT gravimetry
- RT velocity
- RT wakefield accelerators

**ACCELERATOR BREEDERS**

- INIS: 1978-07-03; ETDE: 1978-01-23
- Accelerators used in the production of fissionable materials.
- RT accelerator-driven transmutation
- RT accelerators
- RT breeder reactors
- RT breeding
- RT fissionable materials
- RT nuclear fuels

**accelerator-driven subcritical**

- reactors**
- 2016-07-11
- USE accelerator-driven subcritical systems

**ACCELERATOR-DRIVEN SUBCRITICAL SYSTEMS**

- 2016-07-11
- UF accelerator-driven subcritical reactors
- UF adsr
- \*BT1 subcritical assemblies
- NT1 accelerator-driven transmutation facilities
- NT1 brahmma facility
- NT1 myrrha facility
- NT1 venus reactor
- NT1 yalina facility
- RT accelerators

**accelerator driven transmutation**

- 2016-07-11
- (Prior to July 2016 this was a valid descriptor.)
- USE accelerator-driven transmutation

**ACCELERATOR-DRIVEN TRANSMUTATION**

- 2016-07-11
- (Prior to July 2016 this term was spelled ACCELERATOR DRIVEN TRANSMUTATION.)
- UF accelerator driven transmutation
- UF accelerator driven transmutation technologies
- UF adtt
- BT1 transmutation
- RT accelerator breeders
- RT accelerator-driven transmutation facilities
- RT accelerators
- RT radioactive waste processing

**ACCELERATOR-DRIVEN TRANSMUTATION FACILITIES**

- 2016-07-11
- \*BT1 accelerator-driven subcritical systems
- RT accelerator-driven transmutation

**accelerator driven transmutation technologies**

- 2000-03-14
- USE accelerator-driven transmutation

**ACCELERATOR EXPERIMENTAL FACILITIES**

- 2018-06-11
- Facilities designed for accelerator-based experiments. For complexes consisting of accelerators such as linacs, synchrotrons and other associated facilities use ACCELERATOR COMPLEXES. (Prior to June 2018 ACCELERATOR FACILITIES was used for this concept.)
- UF accelerator facilities
- UF j-parc hadron experimental facility
- UF j-parc materials and life science experimental facility
- UF j-parc mlf
- UF j-parc neutrino experimental facility
- UF j-parc tef
- UF j-parc transmutation experimental facility
- NT1 beam dumps
- NT1 target chambers
- RT accelerators
- RT advanced light source
- RT advanced photon source
- RT reaction product transport systems

**accelerator facilities**

- 1995-05-10
- USE accelerator experimental facilities

**ACCELERATOR NEUTRON SOURCE FACILITIES**

- 2016-06-09
- BT1 neutron source facilities
- NT1 ipns-i synchrotron
- NT1 iren facility
- NT1 spallation neutron source facilities
- NT2 china spallation neutron source
- NT2 european spallation source
- NT2 isis spallation neutron source
- NT2 kipt neutron source facility
- NT2 oak ridge spallation neutron source
- NT2 swiss spallation neutron source

**accelerator pulsed fast assembly**

- 1993-11-03
- USE apfa-3 reactor

**ACCELERATORS**

- NT1 coherent accelerators
- NT1 collective accelerators
- NT2 electron-ring accelerators
- NT2 ionization front accelerators
- NT2 plasma betatrons
- NT1 cyclic accelerators
- NT2 betatrons
- NT2 bevalac
- NT2 cyclotrons
- NT3 cracow u-120 cyclotron
- NT3 isochronous cyclotrons
- NT4 aabo cyclotron
- NT4 alice cyclotron
- NT4 brookhaven cyclotron
- NT4 cracow aic-144 cyclotron
- NT4 crnl superconducting cyclotron
- NT4 cyclone cyclotron
- NT4 debrecen cyclotron
- NT4 eindhoven cyclotron
- NT4 ganil cyclotron
- NT4 grenoble cyclotron
- NT4 haizy cyclotron
- NT4 hirfl cyclotron
- NT4 inr cyclotron
- NT4 ipcr cyclotron
- NT4 iu cyclotron
- NT4 jinr cyclotrons
- NT5 jinr dc-110 cyclotron
- NT5 jinr u-400 cyclotron
- NT5 jinr u-400m cyclotron
- NT4 julic cyclotron

- NT4** karlsruhe cyclotron  
**NT4** kazakhstan cyclotron  
**NT4** kiev cyclotron  
**NT4** kvi cyclotron  
**NT4** milan superconducting cyclotron  
**NT4** msu cyclotrons  
**NT4** munich compact cyclotron  
**NT4** munich suse cyclotron  
**NT4** nac cyclotron  
**NT4** nirs cyclotron  
**NT4** nrl cyclotron  
**NT4** orn1 isochronous cyclotron  
**NT4** orsay cyclotron  
**NT4** oslo cyclotron  
**NT4** princeton cyclotron  
**NT4** rcnp cyclotron  
**NT4** sara cyclotron  
**NT4** sin cyclotron  
**NT4** texas a and m cyclotron  
**NT4** texas superconducting cyclotron  
**NT4** tohoku cyclotron  
**NT4** tokyo ins cyclotron  
**NT4** triumf cyclotron  
**NT4** uclrl cyclotrons  
**NT5** lbl 88-inch cyclotron  
**NT4** warsaw cyclotron  
**NT3** microtrons  
**NT4** racetrack microtrons  
**NT3** nbi cyclotron  
**NT3** separated orbit cyclotrons  
**NT3** superconducting cyclotrons  
**NT4** milan superconducting cyclotron  
**NT4** texas superconducting cyclotron  
**NT3** variable energy cyclotrons  
**NT4** calcutta cyclotron  
**NT4** chandigarh cyclotron  
**NT2** fair accelerator complex  
**NT2** nica collider  
**NT2** synchrocyclotrons  
**NT3** berkeley synchrocyclotron  
**NT3** cern synchrocyclotron  
**NT3** harvard synchrocyclotron  
**NT3** harwell synchrocyclotron  
**NT3** iko synchrocyclotron  
**NT3** jinr phasotron  
**NT3** leningrad synchrocyclotron  
**NT3** mcgill synchrocyclotron  
**NT3** orsay synchrocyclotron  
**NT3** uppsala synchrocyclotron  
**NT2** synchrotrons  
**NT3** bevatron  
**NT3** bonn synchrotron  
**NT3** brookhaven ags  
**NT3** cambridge electron accelerator  
**NT3** cern lhc  
**NT3** cern ps synchrotron  
**NT3** cern sps synchrotron  
**NT3** cornell 10-gev synchrotron  
**NT3** cosmotron  
**NT3** cosy storage ring  
**NT3** desy  
**NT3** erivan synchrotron  
**NT3** escar storage ring  
**NT3** fermilab accelerator  
**NT3** fermilab tevatron  
**NT3** fian synchrotron  
**NT3** frascati synchrotron  
**NT3** himac accelerator  
**NT3** itep synchrotron  
**NT3** j-parc synchrotrons  
**NT3** jefferson lab meic  
**NT3** jinr nuclotron  
**NT3** kek synchrotron  
**NT3** lampf ii synchrotron  
**NT3** lep storage rings  
**NT3** lusy  
**NT3** mura synchrotron  
**NT3** nimrod  
**NT3** nina  
**NT3** pakhra synchrotron  
**NT3** princeton synchrotron  
**NT3** saturne  
**NT3** saturne ii  
**NT3** serpukhov synchrotron  
**NT3** serpukhov tevatron  
**NT3** sesame storage ring  
**NT3** sis synchrotron  
**NT3** superconducting super collider  
**NT3** tokyo synchrotron  
**NT3** tomsk synchrotron  
**NT3** zgs  
**NT1** electrostatic accelerators  
**NT2** cockcroft-walton accelerators  
**NT2** dynamitrons  
**NT2** pelletron accelerators  
**NT3** 5u pelletron accelerator  
**NT2** tandem electrostatic accelerators  
**NT3** antares tandem accelerator  
**NT3** crnl mp tandem accelerator  
**NT3** jaeri tandem accelerator  
**NT3** orsay tandem accelerator  
**NT3** vivitron tandem accelerator  
**NT2** van de graaff accelerators  
**NT3** crnl mp tandem accelerator  
**NT3** jaeri tandem accelerator  
**NT3** orsay tandem accelerator  
**NT3** vivitron tandem accelerator  
**NT1** heavy ion accelerators  
**NT2** brookhaven rhic  
**NT2** calcutta cyclotron  
**NT2** cracow u-120 cyclotron  
**NT2** crnl superconducting cyclotron  
**NT2** cyclone cyclotron  
**NT2** ganil cyclotron  
**NT2** hhirf accelerator  
**NT2** hilacs  
**NT3** atlas superconducting linac  
**NT3** superhilac  
**NT2** himac accelerator  
**NT2** hirfl cyclotron  
**NT2** ipcr cyclotron  
**NT2** jinr dc-110 cyclotron  
**NT2** jinr u-400 cyclotron  
**NT2** jinr u-400m cyclotron  
**NT2** kvi cyclotron  
**NT2** milan superconducting cyclotron  
**NT2** munich suse cyclotron  
**NT2** nac cyclotron  
**NT2** nica collider  
**NT2** numatron accelerator  
**NT2** rcnp cyclotron  
**NT2** rilac  
**NT2** sis synchrotron  
**NT2** texas superconducting cyclotron  
**NT2** tohoku cyclotron  
**NT2** tokyo ins cyclotron  
**NT2** unilac  
**NT2** vicksi accelerator  
**NT2** warsaw cyclotron  
**NT1** linac-ring accelerators  
**NT2** brookhaven erhic  
**NT2** cern lhec  
**NT1** linear accelerators  
**NT2** anu superconducting linac  
**NT2** beat wave accelerators  
**NT2** beijing electron-positron collider  
**NT2** beijing proton linac  
**NT2** brookhaven 200-mev linac  
**NT2** cebaf accelerator  
**NT2** cern linac  
**NT2** elsas linacs  
**NT2** fair accelerator complex  
**NT2** fmit linac  
**NT2** frascati linac  
**NT2** hilacs  
**NT3** atlas superconducting linac  
**NT3** superhilac  
**NT2** j-parc linac  
**NT2** jaeri linac  
**NT2** kek linac  
**NT2** kharkov linac  
**NT2** lampf linac  
**NT2** linear colliders  
**NT3** compact linear collider  
**NT3** international linear collider  
**NT3** stanford linear collider  
**NT3** tesla linear collider  
**NT2** lnln advanced test accelerator  
**NT2** lue-200 accelerator  
**NT2** mea linac  
**NT2** mit bates linac  
**NT2** nrl linac  
**NT2** orela  
**NT2** orsay linac  
**NT2** quadrupole linacs  
**NT2** rilac  
**NT2** saclay linac  
**NT2** stanford 1.2-gev linac  
**NT2** stanford 20-gev linac  
**NT2** swierk linac  
**NT2** unilac  
**NT2** wakefield accelerators  
**NT1** meson factories  
**NT2** lampf ii synchrotron  
**NT2** lampf linac  
**NT2** pigmi facilities  
**NT1** particle beam fusion accelerator  
**NT1** railgun accelerators  
**RT** acceleration  
**RT** accelerator breeders  
**RT** accelerator-driven subcritical systems  
**RT** accelerator-driven transmutation  
**RT** accelerator experimental facilities  
**RT** beam dumps  
**RT** beam dynamics  
**RT** beam separators  
**RT** elsas accelerator complex  
**RT** impact fusion drivers  
**RT** isotope production  
**RT** particle boosters  
**RT** storage rings  
**RT** target chambers  
**RT** vacuum systems  
**ACCELEROMETERS**  
**BT1** measuring instruments  
**RT** velocimeters  
**acceptance (beam)**  
**USE** beam acceptance  
**access denial systems**  
**INIS:** 1986-07-09; **ETDE:** 1984-08-20  
**USE** entry control systems  
**ACCIDENT INSURANCE**  
**INIS:** 1976-12-08; **ETDE:** 1990-10-03  
**BT1** insurance  
**RT** accidents  
**ACCIDENT MANAGEMENT**  
**2008-12-23**  
**Coordinate with descriptors for the type of accident and actions taken to manage it.**  
**BT1** management  
**RT** accidents  
**RT** emergency plans  
**RT** first aid  
**RT** liabilities  
**RT** safety  
**RT** victims compensation  
**RT** workmens compensation  
**ACCIDENT-TOLERANT NUCLEAR FUELS**  
**2016-03-10**  
**\*BT1** nuclear fuels

RT cladding  
 RT reactor accidents  
 RT reactor safety

**accidental intake**

USE accidents  
 USE single intake

**accidental irradiation**

USE irradiation  
 USE radiation accidents

**ACCIDENTS**

1997-06-17

UF accidental intake  
 UF aircraft accidents  
 UF emergencies  
 UF incidents  
 UF marine vehicle accidents  
 SF disasters

NT1 beyond-design-basis accidents

NT2 lohrrs

NT2 severe accidents

NT3 meltdown

NT4 melt-through

NT3 reactor core disruption

NT1 blowouts

NT1 chemical spills

NT1 design-basis accidents

NT1 gas spills

NT1 hazardous materials spills

NT1 hypothetical accidents

NT1 industrial accidents

NT1 motor vehicle accidents

NT1 oil spills

NT1 radiation accidents

NT1 reactor accidents

NT2 atws

NT2 excursions

NT2 fuel degradation

NT2 fuel handling accidents

NT2 loss of coolant

NT3 ibloca

NT3 sbloca

NT2 loss of core cooling

NT2 loss of flow

NT2 meltdown

NT3 melt-through

NT2 multiple steam generator tube rupture

NT2 power-cooling-mismatch accidents

NT2 reactivity-initiated accidents

NT3 rod drop accidents

NT3 rod ejection accidents

NT2 reactor core disruption

NT2 station blackout

NT2 steam generator tube rupture

NT2 steam line break accidents

NT2 total loss of feedwater

NT2 transient overpower accidents

NT2 uncontrolled boron dilution

RT accident insurance

RT accident management

RT aerial monitoring

RT environment

RT evacuation

RT explosions

RT failures

RT fallout

RT fires

RT first aid

RT fission products

RT hazards

RT human factors

RT human factors engineering

RT industrial medicine

RT injuries

RT liabilities

RT mine rescue

RT nuclear damage

RT outages  
 RT population relocation  
 RT preventive medicine  
 RT public anxiety  
 RT radiation protection  
 RT radioactive clouds  
 RT reactor safety  
 RT safety  
 RT single intake  
 RT site selection  
 RT victims compensation  
 RT workmens compensation

**acclimation**

INIS: 1990-12-05; ETDE: 1975-10-28  
 (Prior to December 1990, this was a valid descriptor.)

USE biological adaptation

**accountability**

INIS: 2000-04-12; ETDE: 1983-03-23  
 (Prior to April 1992 this was a valid ETDE descriptor.)

SEE liabilities

SEE nuclear materials management

SEE personnel management

**accountability (legal)**

INIS: 2000-04-12; ETDE: 1992-04-01  
 (Prior to April 1992 ACCOUNTABILITY was used for this concept in ETDE.)

USE liabilities

**accountability (nuclear materials)**

INIS: 2000-04-12; ETDE: 1992-04-01  
 (Prior to April 1992 ACCOUNTABILITY was used for this concept in ETDE.)

USE nuclear materials management

**accountability (personnel)**

INIS: 2000-04-12; ETDE: 1992-04-01  
 (Prior to April 1992 ACCOUNTABILITY was used for this concept in ETDE.)

USE personnel management

**ACCOUNTING**

1999-01-20

UF bookkeeping

NT1 energy accounting

RT afudc

RT amortization

RT audits

RT cwip

RT debt collection

RT inventories

RT invoices

RT losses

RT management

RT material balance

RT material unaccounted for

RT nuclear materials management

RT procurement

RT safeguards

RT us gao

**accretion (planet-system)**

USE planet-system accretion

**accretion (stars)**

USE star accretion

**ACCRETION DISKS**

INIS: 1982-04-13; ETDE: 1982-05-07

*Disks of matter which sometimes surround certain celestial objects, e.g. neutron stars.*

UF disks (accretion)

RT black holes

RT cosmic x-ray sources

RT eruptive variable stars

RT neutron stars

RT star accretion

RT symbiotic stars

**accumulation**

USE buildup

**accumulation (radioecological)**

USE radioecological concentration

**accumulators**

2000-04-12

(Prior to February 1997 this was a valid ETDE descriptor.)

USE tanks

**accumulators (electric batteries)**

INIS: 2000-04-12; ETDE: 1997-02-21

USE electric batteries

**ACCURACY**

UF precision

RT calibration

RT calibration standards

RT data covariances

RT errors

RT inspection

RT reliability

RT resolution

RT sensitivity

RT signal-to-noise ratio

RT specificity

RT tolerance

**ACENAPHTHENE**

\*BT1 polycyclic aromatic hydrocarbons

RT naphthalene

**aces (quarks)**

1975-08-11

USE quarks

**ACETABULARIA**

\*BT1 chlorophycota

**ACETAL**

UF 1,1-diethoxyethane

\*BT1 acetals

RT acetaldehyde

**ACETALDEHYDE**

UF acetic aldehyde

UF ethanal

UF ethylaldehyde

\*BT1 aldehydes

RT acetal

RT chloral

**ACETALS**

\*BT1 ethers

NT1 acetal

RT polyacetals

**ACETAMIDE**

1996-10-23

\*BT1 amides

RT acetic acid

**ACETATES**

BT1 carboxylic acid salts

RT acetic acid esters

**ACETIC ACID**

\*BT1 monocarboxylic acids

RT acetamide

RT acetolysis

RT acetonitrile

**ACETIC ACID ESTERS**

1996-10-23

(Prior to March 1997 isopentyl acetate was a valid ETDE descriptor.)

UF amyl acetate

UF isoamyl acetate

UF isopentyl acetate



\*BT1 carboxylic acid esters  
**NT1** methyl acetate  
**NT1** polyvinyl acetate  
**NT1** vinyl acetate  
*RT* acetates

**acetic aldehyde**  
 USE acetaldehyde

**ACETOACETATES**  
 BT1 carboxylic acid salts

**ACETOACETIC ACID**  
*UF* ketobutyric acid-beta  
 \*BT1 keto acids

**ACETOACETIC ACID ESTERS**  
 \*BT1 carboxylic acid esters

**ACETOLYSIS**  
 \*BT1 solvolysis  
*RT* acetic acid

**ACETONE**  
*UF* dimethyl ketone  
*UF* oxopropane  
*UF* propanone  
 \*BT1 ketones

**ACETONITRILE**  
 1981-07-06  
 \*BT1 nitriles  
*RT* acetic acid

**acetophenetidin**  
*INIS: 2000-04-12; ETDE: 1981-04-20*  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE analgesics  
 USE antipyretics

**ACETOPHENONE**  
*UF* acetylbenzene  
*UF* methyl phenyl ketone  
 \*BT1 aromatics  
 \*BT1 ketones

**acetyl propionyl**  
 USE 2-3-pentanedione

**ACETYL RADICALS**  
 \*BT1 acyl radicals

**ACETYLACETONE**  
*UF* 2,4-pentanedione  
 BT1 chelating agents  
 \*BT1 ketones  
 BT1 reagents

**ACETYLAMINOFLUORENES**  
*INIS: 2000-04-12; ETDE: 1985-09-23*  
*UF* aaf  
*RT* carcinogens  
*RT* polycyclic aromatic amines

**ACETYLATION**  
 \*BT1 acylation

**acetylbenzene**  
 USE acetophenone

**ACETYLCHOLINE**  
 \*BT1 esters  
 \*BT1 neuroregulators  
 \*BT1 parasymphomimetics  
 \*BT1 quaternary ammonium compounds  
*RT* choline  
*RT* cholinesterase

**ACETYLENE**  
*UF* ethine  
*UF* ethyne  
 \*BT1 alkynes  
*RT* polyacetylenes

**acetylenes**  
 USE alkynes

**acetylpropionic acid-beta**  
 USE levulinic acid

**ACETYLSALICYLIC ACID**  
*INIS: 1976-02-05; ETDE: 1976-03-12*  
*UF* aspirin  
 \*BT1 analgesics  
 \*BT1 antipyretics  
 \*BT1 hydroxy acids

**achiral**  
*INIS: 2000-04-12; ETDE: 1976-02-23*  
 USE racemates

**ACHOLEPLASMA LAIDLAWII B**  
 \*BT1 mycoplasma

**ACHONDRITES**  
 \*BT1 stone meteorites

**ACHROMATIC LESIONS**  
*RT* chromatin

**ACID ANHYDRASES**  
*INIS: 1986-12-03; ETDE: 1981-01-12*  
*Code number 3.6.*  
 \*BT1 hydrolases  
**NT1** gtp-ases  
**NT1** phosphohydrolases  
**NT2** atp-ase

**ACID CARBONATES**  
*INIS: 1985-11-18; ETDE: 1977-07-23*  
 (Prior to December 1985 BICARBONATES was used for this concept.)  
*UF* bicarbonates  
*RT* acid neutralizing capacity  
*RT* carbonates  
*RT* inorganic acids

**acid chrome dyes**  
 1996-10-22  
 (Until October 1996 this was a valid descriptor.)  
 USE azo dyes  
 USE naphthols  
 USE sulfonic acids

**ACID ELECTROLYTE FUEL CELLS**  
 1992-05-20  
 \*BT1 fuel cells

**acid halides**  
 2000-04-12  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE carboxylic acids  
 USE halides

**ACID HYDROLYSIS**  
*INIS: 1997-06-17; ETDE: 1976-05-13*  
 \*BT1 hydrolysis  
*RT* alkaline hydrolysis  
*RT* enzymatic hydrolysis

**ACID MINE DRAINAGE**  
*INIS: 1992-03-12; ETDE: 1976-01-07*  
*RT* coal mining  
*RT* land pollution  
*RT* liquid wastes  
*RT* mine draining  
*RT* mining  
*RT* spoil banks  
*RT* waste water  
*RT* water pollution

**ACID NEUTRALIZING CAPACITY**  
*INIS: 1992-04-16; ETDE: 1984-08-06*  
*The total quantity of base in natural waters, usually in equilibrium with carbonate or*

*bicarbonate, as determined by titration with strong acid.*  
*UF* alkalinity  
 \*BT1 water chemistry  
*RT* acid carbonates  
*RT* acid rain  
*RT* bases  
*RT* buffers  
*RT* carbonates  
*RT* geochemistry  
*RT* limnology  
*RT* organic matter  
*RT* ph value  
*RT* soils  
*RT* titration

**ACID PHOSPHATASE**  
*Code number 3.1.3.2.*  
 \*BT1 phosphatases

**acid phosphates**  
*INIS: 2000-04-12; ETDE: 1977-07-23*  
 (Prior to February 1997 this was a valid ETDE descriptor.)  
 USE phosphates

**ACID PROTEINASES**  
*INIS: 1986-12-03; ETDE: 1981-01-12*  
*Code number 3.4.23.*  
 \*BT1 peptidase hydrolases  
**NT1** pepsin

**ACID RAIN**  
*INIS: 1991-08-02; ETDE: 1976-03-22*  
 \*BT1 rain  
*RT* acid neutralizing capacity  
*RT* air pollution  
*RT* climatic change  
*RT* interception  
*RT* throughfall  
*RT* us napap

**acid silicates**  
*INIS: 2000-04-12; ETDE: 1977-07-23*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE silicates

**ACID SOILS**  
 2013-11-27  
 BT1 soils  
*RT* acidification  
*RT* ph value

**ACID SULFATES**  
*INIS: 2000-04-12; ETDE: 1978-03-03*  
*UF* bisulfates  
 \*BT1 sulfates  
*RT* inorganic acids  
*RT* sulfuric acid

**ACID SULFITES**  
*INIS: 2000-04-12; ETDE: 1982-01-07*  
 \*BT1 sulfites  
*RT* inorganic acids  
*RT* sulfuric acid

**ACIDIFICATION**  
*INIS: 1983-03-14; ETDE: 1977-12-22*  
*The act or process of acidifying.*  
*RT* acid soils  
*RT* chemical reactions  
*RT* inorganic acids  
*RT* organic acids

**acidity**  
 USE ph value

**ACIDIZATION**  
*INIS: 1999-01-20; ETDE: 1976-03-11*  
*Treatment of a reservoir formation with acid to assist the flow of crude oil or gas by*

*improving the permeability of the reservoir rock.*

- RT enhanced recovery  
RT natural gas deposits  
RT petroleum deposits  
RT well stimulation

### acids (inorganic)

- USE inorganic acids

### acids (organic)

- USE organic acids

### aco (anneau de collisions d'orsay)

ETDE: 2005-01-28

(Prior to January 2005 ACO was a valid descriptor.)

- USE orsay storage rings

### ACOUSTIC AGGLOMERATORS

INIS: 2000-04-12; ETDE: 1981-08-21

- \*BT1 pollution control equipment  
RT aerosols  
RT dusts  
RT hot gas cleanup  
RT sound waves

### ACOUSTIC DETECTION

INIS: 1983-06-30; ETDE: 1979-09-06

*Charged particle detection technique based on sonic signal produced by charged particles traversing fluid media.*

- BT1 acoustic measurements  
\*BT1 charged particle detection  
RT acoustic monitoring  
RT dumand project  
RT sound waves

### acoustic electron spin resonance

- USE acoustic esr

### ACOUSTIC EMISSION TESTING

- \*BT1 acoustic testing

### ACOUSTIC ESR

- UF acoustic electron spin resonance  
UF aepr  
UF aesr  
UF paramagnetic resonance (electron acoustic)  
SF electron-spin echo  
\*BT1 electron spin resonance  
RT attenuation  
RT phonons  
RT resonance scattering  
RT sound waves

### ACOUSTIC HEATING

- \*BT1 magnetic-pumping heating

### ACOUSTIC INSULATION

1995-07-03

- UF insulation (acoustic)  
UF soundproofing  
RT acoustic measurements  
RT acoustic monitoring  
RT acoustics

### ACOUSTIC MEASUREMENTS

1995-07-03

*Measurements of properties, quantities, or conditions by means of acoustical, i.e. mechanical waves.*

- UF sonic measurements  
NT1 acoustic detection  
RT acoustic insulation  
RT acoustic monitoring  
RT acoustic testing  
RT noise dosimeters  
RT seismic surveys  
RT seismographs  
RT sonic logging

- RT sonic probes  
RT sound waves  
RT ultrasonic testing

### ACOUSTIC MICROSCOPY

INIS: 1993-04-07; ETDE: 1984-07-10

- UF scanning acoustic microscopy  
BT1 microscopy  
RT acoustic testing  
RT mechanical properties

### ACOUSTIC MONITORING

1995-07-03

- UF microseismic monitoring  
BT1 monitoring  
RT acoustic detection  
RT acoustic insulation  
RT acoustic measurements  
RT in core instruments  
RT reactor instrumentation  
RT reactor monitoring systems  
RT sonic logging  
RT sound waves

### ACOUSTIC NMR

- UF acoustic nuclear magnetic resonance  
UF anmr  
UF nuclear acoustic resonance  
UF paramagnetic resonance (nuclear acoustic)

- \*BT1 nuclear magnetic resonance  
RT attenuation  
RT phonons  
RT resonance scattering  
RT sound waves

### acoustic nuclear magnetic resonance

1993-11-03

- USE acoustic nmr

### ACOUSTIC RADAR

INIS: 1993-05-06; ETDE: 1980-03-29

*Use of sound waves with RADAR techniques for remote probing of the lower atmosphere.*

- \*BT1 radar  
RT meteorology  
RT remote sensing  
RT sound waves

### acoustic spark chambers

- USE sonic spark chambers

### ACOUSTIC TESTING

- \*BT1 nondestructive testing  
NT1 acoustic emission testing  
NT1 ultrasonic testing  
RT acoustic measurements  
RT acoustic microscopy

### ACOUSTICS

INIS: 1999-01-20; ETDE: 1976-01-23

- NT1 magnetoacoustics  
RT acoustic insulation  
RT photoacoustic effect  
RT sound waves  
RT speech synthesizers

### ACPR REACTOR

*Sandia National Laboratories, Albuquerque, New Mexico, USA. Shut down in 1977.*

- UF acrr reactor  
UF annular core pulse reactor  
UF annular core research reactor  
\*BT1 enriched uranium reactors  
\*BT1 hydride moderated reactors  
\*BT1 mixed spectrum reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors  
\*BT1 solid homogeneous reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

### acquired immunodeficiency syndrome

INIS: 2000-04-12; ETDE: 1986-03-04

USE aids

### acquired immunodeficiency virus

INIS: 1993-11-03; ETDE: 2002-06-06

USE aids virus

### acquisition (data)

- USE data acquisition

### acraldehyde

- USE acrolein

### ACRIDINE ORANGE

- \*BT1 acridines  
\*BT1 amines  
BT1 dyes

### ACRIDINES

- UF acridones  
\*BT1 azaarenes  
\*BT1 pyridines  
NT1 acridine orange  
NT1 flavines  
NT2 acriflavine  
NT2 proflavine

### acridones

2000-04-12

(Prior to April 1994, this was a valid ETDE descriptor.)

- USE acridines  
USE ketones

### ACRIFLAVINE

- UF euflavine  
UF tryptaflavine  
\*BT1 flavines  
RT proflavine

### ACROCENTRIC CHROMOSOMES

ETDE: 1975-09-11

- BT1 chromosomes  
RT chromosomal aberrations  
RT karyotype

### acroleic acid

- USE acrylic acid

### ACROLEIN

- UF acraldehyde  
UF acrylic aldehyde  
UF propenal  
\*BT1 aldehydes  
RT vinyl monomers

### ACROMEGALY

- \*BT1 endocrine diseases  
RT pituitary gland  
RT sth

### acrr reactor

INIS: 2000-04-12; ETDE: 1979-10-23

USE acpr reactor

### ACRYLAMIDE

- \*BT1 amides  
RT acrylic acid  
RT vinyl monomers

### ACRYLATES

- BT1 carboxylic acid salts  
RT acrylic acid esters  
RT vinyl monomers

### ACRYLIC ACID

- UF acroleic acid  
UF ethylenecarboxylic acid  
\*BT1 monocarboxylic acids  
RT acrylamide  
RT acrylonitrile

*RT* vinyl monomers

### ACRYLIC ACID ESTERS

\*BT1 carboxylic acid esters

*RT* acrylates

*RT* vinyl monomers

### acrylic aldehyde

USE acrolein

### acrylic polymers

USE polyacrylates

### ACRYLONITRILE

*UF* vinyl cyanide

\*BT1 nitriles

*RT* acrylic acid

*RT* organic polymers

*RT* vinyl monomers

### ACT DEVICES

*INIS: 1985-12-11; ETDE: 1985-08-08*

*Advanced Concept Torus.*

\*BT1 tokamak devices

### actf

*INIS: 2000-04-12; ETDE: 1981-03-17*

USE advanced components test facility

### ACTH

*UF* adrenocorticotrophic hormone

\*BT1 pituitary hormones

*RT* adrenal glands

*RT* corticosteroids

*RT* glucocorticoids

### ACTIN

\*BT1 proteins

*RT* muscles

*RT* tropomyosin

### ACTINIDE ALLOYS

BT1 alloys

NT1 americium alloys

NT1 berkelium alloys

NT1 californium alloys

NT1 curium alloys

NT2 curium additions

NT1 einsteinium alloys

NT1 neptunium alloys

NT2 neptunium additions

NT1 plutonium alloys

NT2 plutonium base alloys

NT1 protactinium alloys

NT1 thorium alloys

NT2 magnesium alloy-hk31a

NT2 thorium additions

NT2 thorium base alloys

NT1 uranium alloys

NT2 uranium base alloys

NT3 alloy-u90nb7zr3

*RT* rare earth alloys

### ACTINIDE BURNER REACTORS

*INIS: 1980-07-24; ETDE: 1979-03-28*

*Reactors which convert radioactive waste actinides to useful or less harmful elements by fission reactions.*

\*BT1 fast reactors

*RT* radioactive waste disposal

### ACTINIDE COMPLEXES

*1996-07-18*

BT1 complexes

NT1 actinium complexes

NT1 americium complexes

NT1 berkelium complexes

NT1 californium complexes

NT1 curium complexes

NT1 einsteinium complexes

NT1 fermium complexes

NT1 lawrencium complexes

NT1 mendelevium complexes

NT1 neptunium complexes

NT2 neptunyl complexes

NT1 nobelium complexes

NT1 plutonium complexes

NT2 plutonyl complexes

NT1 protactinium complexes

NT1 thorium complexes

NT1 uranium complexes

NT2 uranyl complexes

### ACTINIDE COMPOUNDS

NT1 actinium compounds

NT2 actinium halides

NT3 actinium bromides

NT3 actinium chlorides

NT3 actinium fluorides

NT2 actinium hydrides

NT2 actinium hydroxides

NT2 actinium oxides

NT2 actinium sulfates

NT1 americium compounds

NT2 americium arsenides

NT2 americium carbides

NT2 americium carbonates

NT2 americium halides

NT3 americium bromides

NT3 americium chlorides

NT3 americium fluorides

NT3 americium iodides

NT2 americium hydrides

NT2 americium hydroxides

NT2 americium nitrates

NT2 americium nitrides

NT2 americium oxides

NT2 americium perchlorates

NT2 americium phosphates

NT2 americium phosphides

NT2 americium selenides

NT2 americium silicates

NT2 americium silicides

NT2 americium sulfates

NT2 americium sulfides

NT2 americium tellurides

NT1 berkelium compounds

NT2 berkelium arsenides

NT2 berkelium halides

NT3 berkelium bromides

NT3 berkelium chlorides

NT3 berkelium fluorides

NT2 berkelium hydrides

NT2 berkelium nitrates

NT2 berkelium nitrides

NT2 berkelium oxides

NT2 berkelium phosphates

NT2 berkelium phosphides

NT2 berkelium selenides

NT2 berkelium sulfates

NT2 berkelium sulfides

NT2 berkelium tellurides

NT1 californium compounds

NT2 californium arsenides

NT2 californium halides

NT3 californium bromides

NT3 californium chlorides

NT3 californium fluorides

NT3 californium iodides

NT2 californium nitrates

NT2 californium nitrides

NT2 californium oxides

NT2 californium selenides

NT2 californium sulfides

NT2 californium tellurides

NT1 curium compounds

NT2 curium arsenides

NT2 curium carbonates

NT2 curium halides

NT3 curium bromides

NT3 curium chlorides

NT3 curium fluorides

NT3 curium iodides

NT2 curium hydrides

NT2 curium hydroxides

NT2 curium nitrates

NT2 curium nitrides

NT2 curium oxides

NT2 curium phosphides

NT2 curium selenides

NT2 curium silicates

NT2 curium sulfides

NT2 curium tellurides

NT1 einsteinium compounds

NT2 einsteinium halides

NT3 einsteinium bromides

NT3 einsteinium chlorides

NT3 einsteinium fluorides

NT3 einsteinium iodides

NT2 einsteinium nitrates

NT2 einsteinium oxides

NT1 fermium compounds

NT2 fermium halides

NT3 fermium bromides

NT3 fermium chlorides

NT3 fermium iodides

NT2 fermium oxides

NT1 lawrencium compounds

NT1 mendelevium compounds

NT2 mendelevium oxides

NT1 neptunium compounds

NT2 neptunium arsenides

NT2 neptunium borides

NT2 neptunium carbides

NT2 neptunium carbonates

NT2 neptunium halides

NT3 neptunium bromides

NT3 neptunium chlorides

NT3 neptunium fluorides

NT3 neptunium iodides

NT2 neptunium hydrides

NT2 neptunium hydroxides

NT2 neptunium nitrates

NT2 neptunium nitrides

NT2 neptunium oxides

NT2 neptunium perchlorates

NT2 neptunium phosphates

NT2 neptunium phosphides

NT2 neptunium selenides

NT2 neptunium sulfates

NT2 neptunium sulfides

NT2 neptunium tellurides

NT2 neptunyl compounds

NT1 nobelium compounds

NT2 nobelium oxides

NT1 plutonium compounds

NT2 plutonium arsenides

NT2 plutonium borides

NT2 plutonium carbides

NT2 plutonium carbonates

NT2 plutonium halides

NT3 plutonium bromides

NT3 plutonium chlorides

NT3 plutonium fluorides

NT3 plutonium iodides

NT2 plutonium hydrides

NT2 plutonium hydroxides

NT2 plutonium nitrates

NT2 plutonium nitrides

NT2 plutonium oxides

NT3 plutonium dioxide

NT2 plutonium perchlorates

NT2 plutonium peroxide

NT2 plutonium phosphates

NT2 plutonium phosphides

NT2 plutonium selenides

NT2 plutonium silicates

NT2 plutonium sulfates

NT2 plutonium sulfides

NT2 plutonium tellurides

NT2 plutonyl compounds  
 NT1 protactinium compounds  
 NT2 protactinium carbides  
 NT2 protactinium halides  
   NT3 protactinium bromides  
   NT3 protactinium chlorides  
   NT3 protactinium fluorides  
   NT3 protactinium iodides  
 NT2 protactinium hydrides  
 NT2 protactinium hydroxides  
 NT2 protactinium nitrates  
 NT2 protactinium oxides  
 NT2 protactinium phosphates  
 NT2 protactinium sulfates  
 NT1 thorium compounds  
 NT2 thorium arsenides  
 NT2 thorium borides  
 NT2 thorium carbides  
 NT2 thorium carbonates  
 NT2 thorium halides  
   NT3 thorium bromides  
   NT3 thorium chlorides  
   NT3 thorium fluorides  
   NT3 thorium iodides  
 NT2 thorium hydrides  
 NT2 thorium hydroxides  
 NT2 thorium nitrates  
 NT2 thorium nitrides  
 NT2 thorium oxides  
   NT3 thorotrast  
 NT2 thorium perchlorates  
 NT2 thorium phosphates  
 NT2 thorium phosphides  
 NT2 thorium selenides  
 NT2 thorium silicates  
 NT2 thorium silicides  
 NT2 thorium sulfates  
 NT2 thorium sulfides  
 NT2 thorium tellurides  
 NT2 thorium tungstates  
 NT1 uranium compounds  
 NT2 uranates  
   NT3 ammonium uranates  
   NT4 adu  
   NT3 bismuth uranates  
   NT3 cesium uranates  
   NT3 lithium uranates  
   NT3 potassium uranates  
   NT3 rubidium uranates  
   NT3 sodium uranates  
   NT3 strontium uranates  
   NT3 thallium uranates  
 NT2 uranium arsenides  
 NT2 uranium borides  
 NT2 uranium borohydrides  
 NT2 uranium carbides  
 NT2 uranium carbonates  
 NT2 uranium halides  
   NT3 uranium bromides  
   NT3 uranium chlorides  
   NT3 uranium fluorides  
   NT4 uranium hexafluoride  
   NT4 uranium pentafluoride  
   NT4 uranium tetrafluoride  
   NT3 uranium iodides  
 NT2 uranium hydrides  
 NT2 uranium hydroxides  
 NT2 uranium nitrates  
 NT2 uranium nitrides  
 NT2 uranium oxides  
   NT3 uranium dioxide  
   NT3 uranium oxides u3o8  
   NT3 uranium trioxide  
 NT2 uranium perchlorates  
 NT2 uranium peroxide  
 NT2 uranium phosphates  
 NT2 uranium phosphides  
 NT2 uranium selenides  
 NT2 uranium silicates

NT2 uranium silicides  
 NT2 uranium sulfates  
 NT2 uranium sulfides  
 NT2 uranium tellurides  
 NT2 uranium tungstates  
 NT2 uranium vanadates  
 NT2 uranyl compounds  
   NT3 auc  
   NT3 uranyl carbonates  
   NT3 uranyl halides  
   NT4 uranyl chlorides  
   NT4 uranyl fluorides  
   NT3 uranyl nitrates  
   NT4 unh  
   NT3 uranyl perchlorates  
   NT3 uranyl phosphates  
   NT3 uranyl silicates  
   NT3 uranyl sulfates  
   NT3 uranyl tungstates

### actinide isotopes

INIS: 2000-04-12; ETDE: 1976-05-17

(Prior to March 1997 this was a valid ETDE descriptor.)

USE actinide nuclei

### ACTINIDE NUCLEI

1996-01-11

UF actinide isotopes

\*BT1 heavy nuclei

NT1 actinium 206  
 NT1 actinium 207  
 NT1 actinium 208  
 NT1 actinium 209  
 NT1 actinium 210  
 NT1 actinium 211  
 NT1 actinium 212  
 NT1 actinium 213  
 NT1 actinium 214  
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 NT1 actinium 236  
 NT1 americium 231  
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 NT1 americium 235  
 NT1 americium 236  
 NT1 americium 237  
 NT1 americium 238  
 NT1 americium 239  
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 NT1 americium 243  
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 NT1 americium 249

NT1 berkelium 235  
 NT1 berkelium 236  
 NT1 berkelium 237  
 NT1 berkelium 238  
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 NT1 berkelium 249  
 NT1 berkelium 250  
 NT1 berkelium 251  
 NT1 berkelium 252  
 NT1 berkelium 253  
 NT1 berkelium 254  
 NT1 californium 236  
 NT1 californium 237  
 NT1 californium 238  
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 NT1 curium 232  
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**NT1** einsteinium 257  
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**NT1** fermium 241  
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**NT1** lawrencium 251  
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**NT1** protactinium 212  
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**NT1** uranium 241  
**NT1** uranium 242

## ACTINIDES

\*BT1 metals  
**NT1** actinium  
**NT1** americium  
**NT1** berkelium  
**NT1** californium  
**NT1** curium  
**NT1** einsteinium  
**NT1** fermium  
**NT1** lawrencium  
**NT1** mendelevium  
**NT1** neptunium  
   **NT2** neptunium-alpha  
   **NT2** neptunium-gamma  
**NT1** nobelium  
**NT1** plutonium  
   **NT2** plutonium-alpha  
   **NT2** plutonium-beta  
   **NT2** plutonium-delta  
   **NT2** plutonium-epsilon  
   **NT2** plutonium-gamma  
**NT1** protactinium  
**NT1** thorium  
   **NT2** thorium-alpha  
   **NT2** thorium-beta  
**NT1** uranium  
   **NT2** depleted uranium  
   **NT2** enriched uranium  
     **NT3** highly enriched uranium  
     **NT3** moderately enriched uranium  
     **NT3** slightly enriched uranium  
   **NT2** natural uranium  
   **NT2** uranium-alpha  
   **NT2** uranium-beta  
   **NT2** uranium-gamma

*RT* transplutonium elements  
*RT* transuranium elements

**ACTINIUM**

\*BT1 actinides

**ACTINIUM 206**

2007-09-25

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 207**

*INIS: 1994-12-22; ETDE: 1995-01-03*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 208**

*INIS: 1994-12-22; ETDE: 1995-01-03*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 209**

*INIS: 1986-05-12; ETDE: 1986-07-03*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 210**

*INIS: 1986-05-12; ETDE: 1989-06-23*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 211**

*INIS: 1986-05-12; ETDE: 1986-07-03*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 212**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 213**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 214**

*INIS: 1986-05-12; ETDE: 1986-07-03*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ACTINIUM 215**

1982-06-09

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**ACTINIUM 216**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 217**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 218**

*INIS: 1977-03-01; ETDE: 1976-12-15*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 219**

*INIS: 1985-06-07; ETDE: 1985-05-31*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 220**

*INIS: 1976-07-06; ETDE: 1976-05-17*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 221**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 222**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ACTINIUM 223**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 224**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 225**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 226**

\*BT1 actinide nuclei

\*BT1 actinium isotopes

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 227**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 years living radioisotopes

**ACTINIUM 227 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
 BT1 targets

**ACTINIUM 228**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 229**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 230**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 231**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 232**

1978-01-16

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 233**

*INIS: 1983-09-05; ETDE: 1983-01-21*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 234**

*INIS: 1986-01-21; ETDE: 1986-02-21*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ACTINIUM 235**

2007-09-25

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**ACTINIUM 236**

2007-09-25

\*BT1 actinide nuclei

- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei

**actinium a**

USE polonium 215

**actinium additions**

2000-04-12

(Prior to August 1993 this was a valid ETDE descriptor.)

- USE actinium compounds
- USE alloys

**actinium b**

USE lead 211

**ACTINIUM BROMIDES**

INIS: 1996-06-26; ETDE: 1975-10-28

(From June 1996 to September 2007

ACTINIUM COMPOUNDS + BROMIDES was used for this concept.)

- \*BT1 actinium halides
- \*BT1 bromides

**actinium c**

USE bismuth 211

**actinium c/**

1983-02-03

USE polonium 211

**actinium c//**

USE thallium 207

**ACTINIUM CHLORIDES**

INIS: 1996-06-26; ETDE: 1975-10-28

(From June 1996 to February 2008

ACTINIUM COMPOUNDS + CHLORIDES was used for this concept)

- \*BT1 actinium halides
- \*BT1 chlorides

**ACTINIUM COMPLEXES**

\*BT1 actinide complexes

**ACTINIUM COMPOUNDS**

1996-11-13

UF actinium additions

BT1 actinide compounds

NT1 actinium halides

NT2 actinium bromides

NT2 actinium chlorides

NT2 actinium fluorides

NT1 actinium hydrides

NT1 actinium hydroxides

NT1 actinium oxides

NT1 actinium sulfates

**actinium d**

USE lead 207

**ACTINIUM FLUORIDES**

INIS: 1996-06-26; ETDE: 1975-10-28

(From June 1996 to February 2008

ACTINIUM COMPOUNDS + FLUORIDES was used for this concept.)

- \*BT1 actinium halides
- \*BT1 fluorides

**ACTINIUM HALIDES**

2008-02-07

\*BT1 actinium compounds

\*BT1 halides

NT1 actinium bromides

NT1 actinium chlorides

NT1 actinium fluorides

**ACTINIUM HYDRIDES**

1997-01-28

(From November 1996 to November 2007

ACTINIUM COMPOUNDS + HYDRIDES was used for this concept.)

- \*BT1 actinium compounds
- \*BT1 hydrides

**ACTINIUM HYDROXIDES**

INIS: 1997-01-28; ETDE: 1977-11-10

(From November 1996 to November 2007

ACTINIUM COMPOUNDS + HYDROXIDES was used for this concept.)

- \*BT1 actinium compounds
- \*BT1 hydroxides

**ACTINIUM IONS**

\*BT1 ions

**ACTINIUM ISOTOPES**

1999-07-16

BT1 isotopes

NT1 actinium 206

NT1 actinium 207

NT1 actinium 208

NT1 actinium 209

NT1 actinium 210

NT1 actinium 211

NT1 actinium 212

NT1 actinium 213

NT1 actinium 214

NT1 actinium 215

NT1 actinium 216

NT1 actinium 217

NT1 actinium 218

NT1 actinium 219

NT1 actinium 220

NT1 actinium 221

NT1 actinium 222

NT1 actinium 223

NT1 actinium 224

NT1 actinium 225

NT1 actinium 226

NT1 actinium 227

NT1 actinium 228

NT1 actinium 229

NT1 actinium 230

NT1 actinium 231

NT1 actinium 232

NT1 actinium 233

NT1 actinium 234

NT1 actinium 235

NT1 actinium 236

**actinium k**

USE francium 223

**ACTINIUM OXIDES**

1997-01-28

(From November 1996 to November 2007

ACTINIUM COMPOUNDS + OXIDES was used for this concept.)

- \*BT1 actinium compounds
- \*BT1 oxides

**ACTINIUM SULFATES**

1996-06-26

(From June 1996 to November 2007

ACTINIUM COMPOUNDS + SULFATES was used for this concept.)

- \*BT1 actinium compounds
- \*BT1 sulfates

**actinium x**

USE radium 223

**ACTINOMYCES**

1997-06-19

\*BT1 bacteria

NT1 frankia

RT nocardia

**ACTINOMYCIN**

\*BT1 antibiotics

\*BT1 antimetabolic drugs

\*BT1 antineoplastic drugs

**ACTION INTEGRAL**

INIS: 1986-07-09; ETDE: 1986-04-11

An integral associated with the trajectory of a system in configuration space, equal to the sum of the integrals of the generalized momenta of the system over their canonically conjugate coordinates.

BT1 integrals

RT field theories

RT mechanics

**ACTIVATED CARBON**

BT1 adsorbents

\*BT1 carbon

RT adsorption

RT charcoal

**ACTIVATED SLUDGE PROCESS**

INIS: 1994-09-29; ETDE: 1976-03-11

\*BT1 waste processing

RT petroleum refineries

RT sewage

**activation (chemical)**

USE chemical activation

**activation (radio)**

USE radioactivation

**ACTIVATION ANALYSIS**

1999-05-04

(Before the introduction of the specific narrower terms in November 1978, all types of activation analysis were indexed to the above descriptor.)

UF analysis (activation)

UF radiochemical activation analysis

\*BT1 nondestructive analysis

NT1 charged-particle activation analysis

NT1 neutron activation analysis

NT1 photon activation analysis

RT crime detection

RT impurities

RT neutron activation analyzers

RT nuclear reaction analysis

RT qualitative chemical analysis

RT quantitative chemical analysis

RT radioactivation

RT stoichiometry

**ACTIVATION DETECTORS**

\*BT1 neutron detectors

RT fission foil detectors

RT moderating detectors

RT radiator counters

RT threshold detectors

**ACTIVATION ENERGY**

UF activation heat

UF reactivity (chemical)

BT1 energy

RT arrhenius equation

RT chemical activation

RT chemical reaction kinetics

RT excitation

RT reaction kinetics

**activation heat**

USE activation energy

**activity (optical)**

INIS: 1977-06-13; ETDE: 2002-06-06

USE optical activity

**activity coefficient**

USE reaction kinetics

USE thermodynamic activity



**ACTIVITY LEVELS**

1985-12-11

*May be used in any field.*

(Prior to 1986 RADIOACTIVITY was used for this concept if appropriate.)

- RT activity meters
- RT enzyme activity
- RT maximum permissible activity
- RT radioactivity
- RT solar activity

**ACTIVITY METERS**

- \*BT1 meters
- RT activity levels
- RT counting techniques

**activity transport**

INIS: 1976-05-07; ETDE: 1976-08-24

*In reactor systems.*

- USE radioactivity transport

**ACTUATORS**

1975-08-22

*Mechanism to activate process control equipment, e.g., valves.*

- RT control equipment
- RT servomechanisms
- RT solenoids

**ACUPUNCTURE**

2003-06-05

- BT1 medicine

**ACUTE EXPOSURE**

INIS: 1985-12-10; ETDE: 1978-06-14

*For acute exposure to radiation, use ACUTE IRRADIATION.*

- NT1 acute irradiation
- RT biological effects
- RT dose-response relationships
- RT environmental exposure
- RT toxicity

**ACUTE IRRADIATION**

- BT1 acute exposure
- BT1 irradiation
- RT latency period
- RT radiation syndrome

**ACYL RADICALS**

1996-07-16

(Prior to August 1996 BUTYRYL

RADICALS was a valid ETDE descriptor.)

- UF butyryl radicals
- BT1 radicals
- NT1 acetyl radicals
- NT1 formyl radicals

**ACYLATION**

- BT1 chemical reactions
- NT1 acetylation
- NT1 benzoylation

**ADA**

INIS: 2000-04-12; ETDE: 1985-12-11

- BT1 programming languages

**adamantane**

(Prior to February 1997 this was a valid ETDE descriptor.)

- USE cycloalkanes

**adamellite**

INIS: 1984-11-30; ETDE: 1984-06-29

- USE quartz monzonite

**adapted swimming pool reactor****austria**

1993-11-03

- USE astra reactor

**adaptive intrusion data systems**

INIS: 2000-04-12; ETDE: 1982-09-10

- SEE intrusion detection systems

**ADAPTIVE SYSTEMS**

2004-05-28

*Systems that have the ability to learn, change their state, or otherwise react to stimuli or changes in their environment.*

- UF self-learning systems
- \*BT1 computerized control systems
- RT algorithms

**added mass effect**

INIS: 1976-03-17; ETDE: 1976-08-24

- USE hydrodynamic mass effect

**ADDITIVES**

- SF chemicals
- NT1 deflocculating agents
- NT1 demulsifiers
- NT1 emulsifiers
- NT2 detergents
- NT3 pluronics
- NT1 food additives
- NT1 fuel additives
- RT catalysts
- RT preservatives
- RT solutes
- RT xenobiotics

**ADDUCTS***Chemical compounds with weak bonds, e.g. occlusive or Van der Waals bonds.*

- NT1 dna adducts
- RT chemical bonds
- RT clathrates
- RT complexes

**ADENINES**

- UF 6-aminopurine
- \*BT1 amines
- \*BT1 antimetabolites
- \*BT1 purines
- NT1 kinetin
- RT adenosine
- RT adenylic acid
- RT adp
- RT amp
- RT atp
- RT vitamin b group

**adenocarcinomas**

- USE carcinomas

**ADENOMAS**

- \*BT1 carcinomas
- RT glands

**ADENOSINE**

- \*BT1 nucleosides
- RT adenines
- RT atp

**adenosine diphosphate**

- USE adp

**adenosine monophosphate**

- USE amp

**adenosine triphosphatase**

- USE atp-ase

**adenosine triphosphate**

- USE atp

**ADENOVIRUS**

- \*BT1 oncogenic viruses

**ADENYLIC ACID**

1983-02-03

- \*BT1 nucleotides
- RT adenines

**adgezator**

- USE electron-ring accelerators

**ADHESION**

- RT adhesives
- RT agglomeration
- RT bonding
- RT coalescence
- RT surface properties

**ADHESIVES**

- RT adhesion
- RT binders

**ADIABATIC APPROXIMATION**

- \*BT1 approximations
- RT born-oppenheimer approximation
- RT diabatic approximation
- RT quantum mechanics
- RT scattering

**ADIABATIC COMPRESSION HEATING**

- \*BT1 plasma heating

**ADIABATIC DEMAGNETIZATION**

- UF demagnetization (adiabatic)
- UF magnetic cooling
- BT1 demagnetization
- RT cryogenics
- RT magnetism

**ADIABATIC INVARIANCE**

- RT invariance principles
- RT quantum mechanics

**ADIABATIC PROCESSES**

- UF processes (adiabatic)
- NT1 adiabatic surface ionization
- RT isentropic processes
- RT isothermal processes
- RT thermodynamics

**adiabatic reformer processes**

INIS: 2000-04-12; ETDE: 1981-03-17

- USE autothermal reformer processes

**ADIABATIC SURFACE IONIZATION**

ETDE: 1978-03-08

- UF asi
- BT1 adiabatic processes
- \*BT1 surface ionization

**adiabatic toroidal compressors**

- USE atc devices

**ADIP PROCESS**

2000-04-12

*Process for the substantial removal of hydrogen sulfide and the partial removal of incidental COS, carbon dioxide, and mercaptans.*

- \*BT1 desulfurization

**ADIPIC ACID**

- \*BT1 dicarboxylic acids

**ADIPOSE TISSUE**

- \*BT1 connective tissue
- RT fat cells
- RT fats
- RT leptin

**ADIRONDACK MOUNTAINS**

INIS: 1992-06-30; ETDE: 1983-10-11

- \*BT1 appalachian mountains
- RT new york

**ADITYA TOKAMAK**

1991-02-11

- \*BT1 tokamak devices

**ADJOINT DIFFERENCE METHOD**

- BT1 calculation methods

RT neutron transport theory  
 RT one-dimensional calculations  
 RT three-dimensional calculations  
 RT two-dimensional calculations

**ADJOINT FLUX**

\*BT1 neutron flux  
 RT neutron importance function  
 RT perturbation theory

**adjustments**

INIS: 2000-04-12; ETDE: 1979-12-10  
 (Prior to February 1997, this was a valid ETDE descriptor.)  
 SEE administrative procedures

**adl process**

INIS: 2000-04-12; ETDE: 1978-03-09  
 Arthur D. Little coal liquefaction process in which some hydrogen is added by the donor solvent and carbon is removed as coke. Process takes place at 80-100 psi and is similar to certain established petroleum refinery processes.  
 (Prior to July 1993, this was a valid ETDE descriptor.)  
 USE coal liquefaction

**administration**

USE management

**ADMINISTRATIVE PROCEDURES**

INIS: 1996-02-12; ETDE: 1979-12-10  
 (Adjustments, decisions and orders, disbursements, interventions, investigations, and notices have been valid descriptors.)

UF interventions  
 SF adjustments  
 SF decisions and orders  
 SF disbursements  
 SF investigations  
 SF notices  
 NT1 alternative work schedules  
 NT1 appeals  
 NT1 exceptions  
 NT1 license applications  
 NT1 licensing procedures  
 NT1 notification procedures  
 NT1 orders  
 NT1 prohibition orders  
 NT1 proposed remedial orders  
 NT1 sanctions  
 RT agreements  
 RT compliance  
 RT debt collection  
 RT enforcement  
 RT hearings  
 RT implementation  
 RT laws  
 RT leasing  
 RT legal aspects  
 RT regulations  
 RT reporting requirements  
 RT time delay  
 RT violations

**ADOBE**

INIS: 2000-04-12; ETDE: 1979-02-27  
 \*BT1 building materials  
 RT bricks  
 RT clays

**ADOLESCENTS**

1999-01-20  
 Not limited to man, but referring to the stage between puberty and maturity.  
 BT1 age groups  
 RT adults  
 RT children  
 RT education  
 RT juveniles

RT life cycle  
 RT man

**ADONE**

BT1 storage rings

**ADP**

UF adenosine diphosphate  
 \*BT1 nucleotides  
 RT adenines

**ADRENAL GLANDS**

UF cortex (adrenal)  
 \*BT1 endocrine glands  
 RT acth  
 RT adrenal hormones  
 RT adrenalectomy  
 RT androgens

**ADRENAL HORMONES**

BT1 hormones  
 NT1 adrenaline  
 NT1 corticosteroids  
 NT2 glucocorticoids  
 NT3 corticosterone  
 NT3 cortisone  
 NT3 dexamethasone  
 NT3 hydrocortisone  
 NT3 prednisolone  
 NT3 prednisone  
 NT2 mineralocorticoids  
 NT3 aldosterone  
 NT1 noradrenaline  
 RT adrenal glands  
 RT adrenalectomy  
 RT androgens  
 RT steroid hormones

**ADRENALECTOMY**

\*BT1 surgery  
 RT adrenal glands  
 RT adrenal hormones  
 RT response modifying factors

**ADRENALINE**

UF epinephrine  
 \*BT1 adrenal hormones  
 \*BT1 cardiotonics  
 \*BT1 neuroregulators  
 \*BT1 sympathomimetics

**adrenergics**

INIS: 2000-04-12; ETDE: 1981-05-18  
 USE sympathomimetics

**adrenergics-blocking agents**

INIS: 2000-04-12; ETDE: 1981-04-20  
 USE sympatholytics

**adrenocorticotropic hormone**

USE acth

**adriamycin**

INIS: 1980-11-07; ETDE: 1980-04-14  
 USE doxorubicin

**ADRIATIC SEA**

INIS: 1992-05-08; ETDE: 1975-10-01  
 \*BT1 mediterranean sea  
 RT albania  
 RT italy

**ADSORBENTS**

NT1 activated carbon  
 NT1 bioadsorbents  
 NT1 charcoal  
 NT1 molecular sieves  
 NT1 silica gel  
 RT adsorption  
 RT chemisorption  
 RT diatomaceous earth  
 RT sorbent injection processes

RT sorbent recovery systems  
 RT sorptive properties

**ADSORPTION**

BT1 sorption  
 RT activated carbon  
 RT adsorbents  
 RT adsorption heat  
 RT adsorption isotherms  
 RT bioadsorbents  
 RT chemisorption  
 RT deposition  
 RT desorption  
 RT gettering  
 RT hygroscopicity  
 RT impregnation  
 RT molecular sieves  
 RT separation processes  
 RT silica gel  
 RT sorptive properties  
 RT surface properties  
 RT surfaces  
 RT van der waals forces

**ADSORPTION HEAT**

UF heat of adsorption  
 \*BT1 enthalpy  
 RT adsorption

**ADSORPTION ISOTHERMS**

BT1 isotherms  
 RT adsorption

**adsorptive properties**

1992-02-23  
 USE sorptive properties

**adsr**

2016-07-11  
 USE accelerator-driven subcritical systems

**adtt**

2000-03-07  
 USE accelerator-driven transmutation

**ADU**

ETDE: 1976-01-07  
 UF ammonium diuranate  
 \*BT1 ammonium uranates

**ADULTS**

1999-01-20  
 BT1 age groups  
 NT1 aged adults  
 NT2 elderly people  
 RT adolescents  
 RT life cycle  
 RT man  
 RT men  
 RT metamorphosis  
 RT populations  
 RT reference man  
 RT reproduction  
 RT women

**ADVANCE MINING**

INIS: 2000-04-12; ETDE: 1983-03-23  
 \*BT1 underground mining  
 RT coal mining

**advanced automotive propulsion systems**

INIS: 2000-04-12; ETDE: 1979-05-02  
 USE aaps

**ADVANCED COMPONENTS TEST FACILITY**

INIS: 2000-04-12; ETDE: 1981-03-17  
 The DOE solar thermal test facility operated by Georgia Tech.  
 UF actf  
 BT1 test facilities

- RT central receivers
- RT tower focus collectors
- RT tower focus power plants

### **advanced gas cooled graphite moderated reactor**

1993-11-03

- USE agr type reactors

### **ADVANCED LIGHT SOURCE**

INIS: 1992-08-17; ETDE: 1992-06-11

Lawrence Berkeley Laboratory, California, USA.

- UF als storage ring

BT1 storage rings

\*BT1 synchrotron radiation sources

RT accelerator experimental facilities

RT light sources

RT x-ray sources

### **ADVANCED PHOTON SOURCE**

INIS: 1992-08-17; ETDE: 1992-06-11

Argonne National Laboratory, Illinois, USA.

- UF aps storage ring

BT1 storage rings

\*BT1 synchrotron radiation sources

RT accelerator experimental facilities

RT light sources

RT x-ray sources

### **advanced reactivity measurement facility-1**

1993-11-03

- USE armf-1 reactor

### **advanced test accelerator**

INIS: 2000-04-12; ETDE: 1988-01-21

SEE lnl advanced test accelerator

### **advanced test idaho reactor**

2000-04-12

- USE atr reactor

### **advanced test reactor critical facility**

1993-11-03

- USE atrc reactor

### **advanced thermal reactor fugen**

2000-04-12

- USE jatr reactor

### **advanced toroidal facility torsatron**

INIS: 1993-11-03; ETDE: 2002-06-06

- USE atf torsatron

### **ADVECTION**

INIS: 1976-02-24; ETDE: 1976-04-19

The horizontal mass transport of a fluid as a result of current or pressure conditions.

BT1 mass transfer

RT convection

RT diffusion

RT fluid flow

RT osmosis

RT water currents

RT wind

### **ADVENTITIOUS BUD TECHNIQUE**

RT mutants

RT mutations

RT plant breeding

RT vegetative propagation

### **adversaries**

INIS: 2000-04-03; ETDE: 1976-07-07

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE interest groups

SEE intervenors

### **ADVERTISING**

INIS: 1993-03-23; ETDE: 1979-03-27

RT communications

RT consumer products

RT marketing

RT product labeling

RT public relations

### **ADVISORY COMMITTEES**

INIS: 1996-08-05; ETDE: 1979-11-23

UF energy research advisory board

RT decision making

RT planning

### **aec-nim**

ETDE: 2002-06-06

- USE nuclear instrument modules

### **aecb canada**

INIS: 1977-03-14; ETDE: 2002-06-06

- USE canadian aecb

### **aecI**

1977-09-06

(Prior to July 1985, this was a valid ETDE descriptor.)

- USE atomic energy of canada ltd

### **aecI radiochemical slowpoke reactor**

INIS: 1979-12-20; ETDE: 1980-01-24

- USE slowpoke-ottawa reactor

### **aedes**

- USE mosquitoes

### **AEG-PR-10 REACTOR**

KWU, Karlstein, Bayern, Federal Republic of Germany. Shut down since 1976.

Decommissioned since 1978.

UF aeg pruefreaktor pr-10

UF grosswelzheim pr-10 reactor

UF pr-10 aeg pruefreaktor

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 thermal reactors

### **aeg pruefreaktor pr-10**

- USE aeg-pr-10 reactor

### **AEGEAN SEA**

INIS: 1992-08-10; ETDE: 1977-06-02

\*BT1 mediterranean sea

### **aepR**

- USE acoustic esr

### **AERATION**

INIS: 1980-09-12; ETDE: 1976-09-14

RT air

RT bubbles

RT deaerators

RT gases

RT mixing

### **AERE**

UF atomic energy research establishment

\*BT1 ukaea

### **AERIAL MONITORING**

1999-01-20

For monitoring FROM the air, e.g. by airplanes or balloons; not for monitoring OF the air.

UF aerial surveying (radiation monitoring)

UF aircraft surveys

BT1 monitoring

RT accidents

RT aerial prospecting

RT aerial surveying

RT aerosols

RT air

- RT aircraft
- RT fallout
- RT geophysical surveys
- RT magnetic surveys
- RT radiation monitoring
- RT radioactive clouds
- RT remote sensing

### **AERIAL PROSPECTING**

BT1 prospecting

RT aerial monitoring

RT aerial surveying

RT exploration

RT magnetic surveys

RT radiometric surveys

RT remote sensing

RT seasat satellites

### **AERIAL SURVEYING**

INIS: 1985-12-10; ETDE: 1977-07-23

For surveying from the air, e.g. by aircraft.

RT aerial monitoring

RT aerial prospecting

RT aircraft

RT landsat satellites

RT magnetic surveys

RT remote sensing

### **aerial surveying (radiation monitoring)**

INIS: 1993-11-03; ETDE: 2002-06-06

- USE aerial monitoring

### **AEROBACTER**

\*BT1 bacteria

RT coliforms

RT intestines

RT soils

### **AEROBIC CONDITIONS**

INIS: 1983-02-04; ETDE: 1975-11-28

RT aerobic digestion

RT biodegradation

RT decomposition

RT oxygen enhancement ratio

### **AEROBIC DIGESTION**

INIS: 1997-06-19; ETDE: 1975-10-28

BT1 bioconversion

BT1 digestion

RT aerobic conditions

RT batch culture

RT continuous culture

RT microorganisms

RT semibatch culture

RT waste processing

### **AERODYNAMIC HEATING**

INIS: 1994-09-08; ETDE: 1982-02-11

The heating of a body produced by the passage of air or other gases over its surface.

BT1 heating

RT aerodynamics

RT fluid flow

RT fluid mechanics

### **AERODYNAMICS**

\*BT1 fluid mechanics

RT aerodynamic heating

RT aircraft

RT airfoils

RT compressible flow

RT gas flow

RT mach number

RT parachutes

RT particle resuspension

RT reentry

RT subsonic flow

RT supersonic flow

RT transonic flow

RT wind tunnels

**AEROJET-GENERAL NUCLEONICS REACTORS**

1994-08-12

- UF agn reactor series
- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 solid homogeneous reactors
- \*BT1 thermal reactors
- \*BT1 training reactors
- NT1 agn 201 costanza

**AEROMONAS**

INIS: 1993-07-12; ETDE: 1979-07-18

- \*BT1 bacteria

**AEROSOL GENERATORS**

- UF generators (aerosol)
- RT aerosols
- RT nozzles

**AEROSOL MONITORING**

- \*BT1 air pollution monitoring
- RT aerosols
- RT air pollution monitors
- RT air samplers
- RT cascade impactors
- RT condensation particle counters
- RT radiation monitoring
- RT radioactive aerosols
- RT smoke detectors

**AEROSOL WASTES**

- BT1 wastes
- NT1 fly ash
- RT aerosols
- RT air pollution
- RT waste disposal

**AEROSOLS**

(From April 1987 till February 1997 ARCTIC HAZE was also a valid ETDE descriptor.)

- UF fumes
- SF inhalable particles
- \*BT1 sols
- NT1 radioactive aerosols
- NT1 smokes
- NT2 tobacco smokes
- RT acoustic agglomerators
- RT aerial monitoring
- RT aerosol generators
- RT aerosol monitoring
- RT aerosol wastes
- RT air
- RT air pollution
- RT air pollution monitoring
- RT atomization
- RT condensation nuclei
- RT condensation particle counters
- RT diffusion chambers
- RT droplets
- RT dusts
- RT fallout
- RT filters
- RT flow visualization
- RT inhalation
- RT particle resuspension
- RT particle size
- RT particles
- RT particulates
- RT radioactive clouds
- RT respirators
- RT sedimentation
- RT smoke detectors
- RT total suspended particulates
- RT ventilation

**AEROSPACE INDUSTRY**

INIS: 1992-03-12; ETDE: 1977-07-23

- BT1 industry
- RT aircraft
- RT space vehicles

**aerospace system test reactor**

2000-04-12

- USE astr reactor

**aerowindows**

INIS: 2000-04-12; ETDE: 1984-08-20

- USE air curtains

**aeschynite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

- USE oxide minerals
- USE thorium minerals

**aesr**

- USE acoustic esr

**AESTHETICS**

INIS: 1983-06-30; ETDE: 1978-03-03

- UF esthetics
- RT architecture
- RT environmental engineering
- RT environmental impacts
- RT human factors
- RT land reclamation
- RT landscaping
- RT ornamental plants
- RT pollution
- RT public opinion
- RT public relations
- RT recreational areas
- RT social impact
- RT socio-economic factors
- RT sociology
- RT urban areas
- RT water reclamation

**aestivation**

INIS: 2000-04-12; ETDE: 1978-12-20

*The state of torpidity or dormancy induced by heat and dryness of summer.*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE hibernation

**aet (aminoethylthiopseudourea)**

ETDE: 2005-02-01

(Prior to January 2005 AET was a valid descriptor.)

- USE beta-aminoethyl isothiourea

**afars and issas**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to June 1994, this was a valid ETDE descriptor.)

- USE djibouti

**AFFINITY**

- UF electron affinity
- RT chemical properties
- RT chemical reactions
- RT electronegativity
- RT free energy

**affirmative action**

INIS: 2000-04-12; ETDE: 1980-09-22

*Positive action undertaken to overcome under representation of women and minority groups in employment and in post-secondary student bodies, as compared with the composition of the area population.*

(Prior to December 1991 this was a valid ETDE descriptor.)

- USE us affirmative action program

**affri reactor**

2000-04-12

- USE afri reactor

**AFGHAN ORGANIZATIONS**

2004-03-31

- BT1 national organizations

**AFGHANISTAN**

- BT1 asia
- BT1 developing countries

**aflatoxin**

2000-04-12

(Prior to October 1990 this was a valid ETDE descriptor.)

- USE aflatoxins

**AFLATOXINS**

INIS: 1983-02-03; ETDE: 1984-01-27

- UF aflatoxin
- \*BT1 mycotoxins
- RT aspergillus
- RT toxicity

**afm**

INIS: 2000-04-12; ETDE: 1999-09-09

- USE atomic force microscopy

**afm storage**

INIS: 1980-04-02; ETDE: 1979-05-09

- USE away-from-reactor storage

**AFRICA**

1997-01-06

- NT1 algeria
- NT1 angola
- NT1 benin
- NT1 botswana
- NT1 burkina faso
- NT1 burundi
- NT1 cameroon
- NT1 central african republic
- NT1 chad
- NT1 congo peoples republic
- NT2 brazzaville
- NT1 cote d'ivoire
- NT1 democratic republic of the congo
- NT2 kinshasa
- NT1 djibouti
- NT1 egyptian arab republic
- NT1 eritrea
- NT1 ethiopia
- NT1 gabon
- NT1 gambia
- NT1 ghana
- NT1 guinea
- NT1 kenya
- NT1 lesotho
- NT1 liberia
- NT1 libyan arab jamahiriya
- NT1 madagascar
- NT2 malagasy republic
- NT1 malawi
- NT1 mali
- NT1 mauritania
- NT1 morocco
- NT1 mozambique
- NT1 namibia
- NT1 niger
- NT1 nigeria
- NT1 republic of seychelles
- NT1 rwanda
- NT1 senegal
- NT1 sierra leone
- NT1 somalia
- NT1 south africa
- NT2 transvaal
- NT1 sudan
- NT1 swaziland
- NT1 togo
- NT1 tunisia
- NT1 uganda
- NT1 united republic of tanzania

- NT1 zambia  
 NT1 zimbabwe  
 NT2 southern rhodesia  
 RT arab countries

**AFRRI REACTOR**

1989-10-24

Armed Forces Radiobiology Research  
 Institute, Bethesda, Maryland, USA.

- UF affri reactor  
 UF defense atomic support agency triga-  
 mk-f  
 UF triga-f-dasa reactor  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**AFSR REACTOR**

ANL/INEEL, Idaho, USA.

- UF argonne fast source reactor  
 UF fast source reactor aec  
 \*BT1 air cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 fast reactors  
 \*BT1 research reactors

**AFTER-HEAT**

Heat derived from residual radioactivity after  
 a reactor has been shut down.

- SF decay heat  
 RT after-heat removal  
 RT away-from-reactor storage  
 RT fuel cooling time  
 RT reactor shutdown  
 RT residual power  
 RT spent fuel storage

**AFTER-HEAT REMOVAL**

- UF decay heat removal  
 UF pahr  
 UF removal (after-heat)  
 UF residual-heat removal  
 UF rhr  
 BT1 removal  
 RT after-heat  
 RT lohrr  
 RT rhr systems

**AFTERBURNERS**

INIS: 2000-04-12; ETDE: 1975-11-11

Air pollution control devices for recombustion  
 of gaseous effluents, using a flame, spark  
 ignition, or some other system to ignite the  
 gases.

- UF automobile exhaust reactors  
 UF vapor incinerators  
 \*BT1 pollution control equipment  
 RT air pollution control  
 RT automobiles  
 RT combustion  
 RT exhaust gases  
 RT exhaust systems

**AFTERGLOW**

- RT electric discharges  
 RT phosphorescence

**AFTERLOADING**

INIS: 1976-08-17; ETDE: 1976-11-01

Method in radiotherapy whereby empty  
 applicators are first positioned and the  
 radiation source inserted automatically after  
 the personnel has withdrawn.

- \*BT1 radiotherapy  
 RT internal irradiation  
 RT irradiation procedures  
 RT radiation source implants

**AFTERSHOCKS**

INIS: 2000-04-12; ETDE: 1978-06-14

Earthquakes which follow a larger earthquake  
 and originate at or near the focus of the larger  
 earthquake.

- RT earthquakes  
 RT foreshocks  
 RT microearthquakes

**AFUDC**

INIS: 2000-04-12; ETDE: 1978-11-14

- UF allowance for funds used during  
 construction  
 RT accounting  
 RT construction  
 RT cwip  
 RT public utilities  
 RT regulations

**AGAR**

- \*BT1 colloids  
 \*BT1 polysaccharides

**AGATA REACTOR**

Institute of Nuclear Research, Swierk, Poland.

- UF swierk agata reactor  
 \*BT1 beryllium moderated reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 zero power reactors

**AGE DEPENDENCE**

- RT growth  
 RT life span  
 RT menopause  
 RT ripening

**AGE ESTIMATION**

- UF dating  
 UF geochronology  
 NT1 isotope dating  
 RT archaeology  
 RT cultural objects  
 RT fission tracks  
 RT geologic ages  
 RT paleontology

**AGE GROUPS**

1999-01-20

- NT1 adolescents  
 NT1 adults  
 NT2 aged adults  
 NT3 elderly people  
 NT1 children  
 NT2 infants  
 RT embryos  
 RT fetuses  
 RT juveniles  
 RT larvae  
 RT life cycle  
 RT man  
 RT neonates  
 RT populations  
 RT pupae

**AGE HARDENING**

- BT1 hardening  
 RT aging  
 RT precipitation hardening

**aged**

INIS: 2000-04-12; ETDE: 1978-02-14

- USE elderly people

**AGED ADULTS**

INIS: 1999-01-20; ETDE: 1983-03-07

- \*BT1 adults  
 NT1 elderly people  
 RT life cycle  
 RT man

**agedoite**

- USE asparagine

**agencia brasil-argentina contabil  
controlre mater nuclear**

INIS: 1999-06-22; ETDE: 2002-06-06

- USE abacc

**agesta-r3 reactor**

- USE agesta reactor

**AGESTA REACTOR**

Agesta, Stockholm, Sweden.

- UF agesta-r3 reactor  
 UF r-3/adam reactor  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 \*BT1 power reactors  
 \*BT1 process heat reactors  
 \*BT1 thermal reactors

**AGGLOMERATING ASH PROCESS**

1992-10-16

Process utilizing self-agglomerating fluidized-  
 bed coal burner for producing synthesis gas  
 by steam gasification of coal.

- UF agglomerating burner gasification  
 process  
 \*BT1 coal gasification

**agglomerating burner gasification  
process**

INIS: 2000-04-12; ETDE: 1976-09-14

- USE agglomerating ash process

**AGGLOMERATION**

1985-12-10

- UF aggregation  
 RT adhesion  
 RT briquetting  
 RT caking  
 RT coalescence  
 RT compacting  
 RT crystallization  
 RT deflocculating agents  
 RT granulation  
 RT particle size  
 RT pelletizing  
 RT precipitation  
 RT sintering

**agglutination**

- USE antigen-antibody reactions

**AGGLUTININS**

1999-01-21

- BT1 antibodies  
 NT1 hemagglutinins  
 NT2 concanavalin a  
 NT2 phytohemagglutinin

**aggregation**

INIS: 1985-12-10; ETDE: 1978-04-27

- USE agglomeration

**AGING**

For biological aging use LIFE CYCLE or  
 LIFE SPAN.

- NT1 quench aging  
 NT1 strain aging  
 RT age hardening  
 RT heat treatments  
 RT weathering

**agip nucleare**

1996-07-16

(Until July 1996 this was a valid descriptor.)

- USE italian organizations

**AGN 201 COSTANZA**

2018-08-20

Department of nuclear engineering,  
University of Palermo, Italy.

\*BT1 aerjet-general nucleonics reactors

**agn reactor series**

INIS: 1980-04-02; ETDE: 1980-05-06

USE aerjet-general nucleonics reactors

**agr reactor (windscale)**

USE wagr reactor

**AGR TYPE REACTORS**UF advanced gas cooled graphite  
moderated reactor

\*BT1 enriched uranium reactors

\*BT1 gcr type reactors

NT1 connah quay-b reactor

NT1 dungeness-b reactor

NT1 hartlepool reactor

NT1 heysham-a reactor

NT1 heysham-b reactor

NT1 hinkley point-b reactor

NT1 hunterston-b reactor

NT1 torness reactor

NT1 wagr reactor

RT carbon dioxide cooled reactors

RT power reactors

**AGREEMENTS**

UF conventions

NT1 indemnification agreements

NT1 international agreements

NT2 atomic energy agreements

NT2 bilateral agreements

NT2 iaea agreements

NT2 multilateral agreements

NT3 bcoclmcm

NT3 bcolons

NT3 bcstpc

NT3 canare

NT3 cenna

NT3 cppnm

NT3 cscnd

NT3 international convention on  
nuclear safety

NT3 kyoto protocol

NT3 lcpmpdpw

NT3 paris agreement

NT3 pcotpl

NT3 rio declaration

NT3 solas convention

NT3 unfccc

NT3 vcoclnd

RT administrative procedures

RT contracts

RT cooperation

RT delivery

RT implementation

RT laws

RT leasing

RT negotiation

RT recommendations

RT regulations

RT third-party use

**agricultural cooperatives**

INIS: 2000-04-12; ETDE: 1993-07-09

USE agriculture

USE cooperatives

**agricultural information system**

USE agris

**agricultural residues**

INIS: 1991-12-11; ETDE: 1980-06-06

USE agricultural wastes

**AGRICULTURAL WASTES**

INIS: 1991-12-11; ETDE: 1975-10-01

UF agricultural residues

UF corn stover

UF stover

\*BT1 organic wastes

NT1 bagasse

NT1 manures

RT agriculture

RT biological wastes

RT straw

**AGRICULTURE**

UF agricultural cooperatives

NT1 horticulture

RT agricultural wastes

RT agris

RT animal breeding

RT biomass plantations

RT crops

RT cultivation

RT cultivation techniques

RT domestic animals

RT drought resistance

RT ecosystems

RT fao

RT farms

RT fertilizer industry

RT fertilizers

RT food

RT gardening

RT grain disinfestation

RT greenhouses

RT harvesting

RT hydroponic culture

RT irrigation

RT pest control

RT pesticides

RT plants

RT short rotation cultivation

RT silviculture

RT soil chemistry

RT soil conservation

RT soils

RT sterile insect release

RT sterile male technique

**agrini event**

INIS: 2000-04-12; ETDE: 1986-01-14

(Prior to September 1994, this was a valid  
ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**AGRIS**

UF agricultural information system

BT1 information systems

RT agriculture

RT fao

**aguirre-1 reactor**

1990-12-05

(Prior to December 1990, this was a valid  
descriptor.)

USE north coast-1 reactor

**AGUIRRE REACTOR**

INIS: 2000-04-12; ETDE: 1976-08-04

Puerto Rico Nuclear Center, Jobos Bay,  
Puerto Rico, USA. Relocated and renamed  
NORTH COAST-1 REACTOR.

\*BT1 pwr type reactors

RT north coast-1 reactor

**AHARONOV-BOHM EFFECT**

INIS: 1991-09-25; ETDE: 1991-12-05

RT electromagnetic fields

RT gauge invariance

RT magnetic flux

RT phase shift

RT quantum mechanics

**ahfr reactor**

2000-04-12

USE cp-6 reactor

**AHUACHAPAN GEOTHERMAL  
FIELD**

INIS: 1992-06-04; ETDE: 1977-01-28

BT1 geothermal fields

RT el salvador

**ai aqueous carbonate process**

INIS: 2000-04-12; ETDE: 1977-05-07

Process utilizing aqueous sodium carbonate  
solution to sorb sulfur dioxide from power  
plant flue gas. Unique design features use of a  
spray dryer as an sulfur dioxide scrubber  
producing a product suitable for regeneration  
and complete reduction of the sodium salts in  
a molten pool.(Prior to March 1994, this was a valid ETDE  
descriptor.)

USE desulfurization

**AI-L-77 REACTOR**Atomics International/Rockwell International,  
Canoga Park, California, USA. Shut down in  
1974.

UF atomics international l-77 reactor

UF l-77 atomics international reactor

\*BT1 aqueous homogeneous reactors

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**aic-144 cyclotron**

INIS: 1982-07-22; ETDE: 1982-08-11

USE cracow aic-144 cyclotron

**AIDS**

INIS: 1986-08-26; ETDE: 1986-03-04

Acquired Immuno-Deficiency Syndrome.

UF acquired immunodeficiency syndrome

\*BT1 immune system diseases

\*BT1 viral diseases

RT aids virus

RT epidemiology

RT immunity

RT leukocytes

RT pathogenesis

**AIDS VIRUS**

INIS: 1986-05-23; ETDE: 1986-11-14

Virus responsible for Acquired Immuno-  
Deficiency Syndrome.

UF acquired immunodeficiency virus

UF hiv

UF htly iii virus

UF human immune deficiency virus

UF lav virus

\*BT1 viruses

RT aids

RT immune reactions

RT immunity

**AIPFR REACTOR**Atomics International Div., Rockwell  
International, Canoga Park, California, USA.UF atomics international prototype fast  
reactor

\*BT1 fbr type reactors

\*BT1 power reactors

\*BT1 test reactors

**AIR**

\*BT1 gases

NT1 compressed air

NT1 surface air

RT aeration  
 RT aerial monitoring  
 RT aerosols  
 RT air conditioning  
 RT air curtains  
 RT air flow  
 RT air infiltration  
 RT aircraft  
 RT breath  
 RT carbon dioxide fixation  
 RT earth atmosphere  
 RT environmental materials  
 RT fallout  
 RT fuel-air ratio  
 RT inhalation  
 RT nitrogen fixation  
 RT radioactive clouds  
 RT respiration  
 RT respirators  
 RT respiratory system  
 RT troposphere  
 RT ventilation  
 RT wind

**AIR-BIOSPHERE INTERACTIONS**

INIS: 1992-03-18; ETDE: 1987-02-13

RT air-water interactions  
 RT environmental transport  
 RT mass transfer  
 RT mineral cycling

**AIR CLEANING**

UF air purification  
 BT1 cleaning  
 RT air cleaning systems  
 RT air conditioning  
 RT air filters  
 RT building technology suite  
 RT electrostatic precipitators  
 RT pollution control equipment  
 RT scrubbers  
 RT ventilation

**AIR CLEANING SYSTEMS**

INIS: 1992-01-15; ETDE: 1975-08-19

BT1 engineered safety systems  
 RT air cleaning  
 RT air conditioning  
 RT air filters  
 RT electrostatic precipitators  
 RT off-gas systems  
 RT pollution control equipment  
 RT scrubbers  
 RT ventilation  
 RT ventilation systems

**AIR CONDITIONERS**

1993-07-29

NT1 solar air conditioners  
 NT2 solar-assisted heat pumps  
 RT absorption refrigeration cycle  
 RT air conditioning  
 RT appliances  
 RT coefficient of performance  
 RT electric appliances  
 RT humidity recovery  
 RT refrigerating machinery  
 RT space hvac systems  
 RT vapor compression refrigeration cycle

**AIR CONDITIONING**

UF space cooling  
 NT1 geothermal air conditioning  
 NT1 solar air conditioning  
 RT air  
 RT air cleaning  
 RT air cleaning systems  
 RT air conditioners  
 RT air source heat pumps  
 RT annual cycle energy system  
 RT automotive accessories

RT building technology suite  
 RT ceiling fans  
 RT cooling  
 RT cooling load  
 RT degree days  
 RT environmental engineering  
 RT ground source heat pumps  
 RT heating  
 RT heating load  
 RT humidity control  
 RT radiative cooling  
 RT refrigerating machinery  
 RT temperature control  
 RT thermal insulation  
 RT ventilation  
 RT ventilation systems  
 RT water source heat pumps  
 RT working conditions

**AIR COOLED REACTORS**

\*BT1 gas cooled reactors  
 NT1 afsr reactor  
 NT1 bepo reactor  
 NT1 bgr reactor  
 NT1 br-1 reactor  
 NT1 g-1 reactor  
 NT1 gleep reactor  
 NT1 harmonie reactor  
 NT1 hpr reactor  
 NT1 kalpakkam pfr reactor  
 NT1 masurca reactor  
 NT1 sneak reactor  
 NT1 stf reactor  
 NT1 tory-2a reactor  
 NT1 tory-2c reactor  
 NT1 treat reactor  
 NT1 windscale production reactors  
 NT1 x-10 reactor  
 NT1 xma-1 reactor  
 NT1 zed-2 reactor

**AIR CURTAINS**

INIS: 1992-08-24; ETDE: 1979-05-02

Compressed gas flow across openings to serve as thermal barriers.

UF aerowindows  
 RT air  
 RT air infiltration  
 RT buildings  
 RT curtains  
 RT doors  
 RT gas flow

**AIR CUSHION VEHICLES**

INIS: 2000-04-12; ETDE: 1977-08-09

UF ground-effect machines  
 UF hovercraft  
 UF surface-effect machines  
 BT1 vehicles

**AIR FILTERS**

BT1 filters  
 \*BT1 pollution control equipment  
 RT air cleaning  
 RT air cleaning systems  
 RT air pollution monitors  
 RT scrubbers

**AIR FLOW**

INIS: 1991-09-18; ETDE: 1981-01-09

\*BT1 gas flow  
 RT air  
 RT air infiltration  
 RT atmospheric circulation  
 RT ventilation  
 RT ventilation systems

**air-fuel ratio**

INIS: 1992-07-20; ETDE: 1976-07-07

USE fuel-air ratio

**AIR HEATERS**

1999-01-22

(Until January 1999 this concept was indexed in INIS by AIR and HEATERS.)

UF air preheaters  
 BT1 heaters  
 NT1 solar air heaters  
 RT heat  
 RT heating

**AIR INFILTRATION**

INIS: 1997-06-19; ETDE: 1979-02-23

Air flow into an enclosed space, e.g. a building.

SF caulking  
 RT air  
 RT air curtains  
 RT air flow  
 RT airtightness  
 RT buildings  
 RT energy conservation  
 RT gas flow  
 RT weatherstripping

**AIR POLLUTION**

For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.

UF thermal pollution (air)  
 BT1 pollution  
 NT1 indoor air pollution  
 RT acid rain  
 RT aerosol wastes  
 RT aerosols  
 RT air pollution abatement  
 RT air pollution control  
 RT air pollution monitoring  
 RT air quality  
 RT aitken nuclei  
 RT atmospheric chemistry  
 RT clean air acts  
 RT environmental exposure  
 RT exhaust systems  
 RT fly ash  
 RT greenhouse gases  
 RT long-range transport  
 RT mobile pollutant sources  
 RT particle resuspension  
 RT particulates  
 RT plumes  
 RT point pollutant sources  
 RT scrubbers  
 RT smog  
 RT soot  
 RT stationary pollutant sources  
 RT temperature inversions  
 RT total suspended particulates  
 RT washout

**AIR POLLUTION ABATEMENT**

INIS: 1991-08-07; ETDE: 1976-06-07

The prevention of formation of pollutants at the source.

SF prevention of significant deterioration  
 SF psd  
 BT1 pollution abatement  
 RT air pollution  
 RT air pollution control  
 RT carbon neutrality  
 RT desulfurization  
 RT low-emission vehicles  
 RT oxyfuel combustion process  
 RT particulates  
 RT redd  
 RT staged combustion



**AIR POLLUTION CONTROL**

INIS: 1991-08-07; ETDE: 1977-03-04

The removal or management of pollutants after they are formed by a source.

SF hitachi zosen process

\*BT1 pollution control

NT1 carbon sequestration

RT afterburners

RT air pollution

RT air pollution abatement

RT baghouses

RT carbon neutrality

RT catalytic combustors

RT catalytic converters

RT electrostatic precipitators

RT exhaust recirculation systems

RT pollution control equipment

RT scrubbers

RT selective catalytic reduction

**AIR POLLUTION MONITORING**

INIS: 1991-08-08; ETDE: 1985-03-12

BT1 monitoring

NT1 aerosol monitoring

RT aerosols

RT air pollution

RT air pollution monitors

RT particulates

**AIR POLLUTION MONITORS**

INIS: 1991-09-18; ETDE: 1976-07-07

UF monitors (air pollution)

\*BT1 monitors

NT1 condensation particle counters

RT aerosol monitoring

RT air filters

RT air pollution monitoring

RT air samplers

RT cascade impactors

RT electrostatic precipitators

**air preheaters**

1999-01-22

USE air heaters

**air purification**

USE air cleaning

**AIR QUALITY**

INIS: 1991-08-07; ETDE: 1976-01-07

BT1 environmental quality

RT air pollution

RT clean air acts

**AIR SAMPLERS**

\*BT1 samplers

RT aerosol monitoring

RT air pollution monitors

RT cascade impactors

RT radiation monitors

**AIR SOURCE HEAT PUMPS**

INIS: 2000-04-12; ETDE: 1979-07-24

BT1 heat pumps

RT air conditioning

RT space heating

**AIR TRANSPORT**

INIS: 1976-12-08; ETDE: 1978-03-08

BT1 transport

NT1 supersonic transport

RT aircraft

**air wall ionization chambers**

USE bragg gray chambers

**AIR-WATER INTERACTIONS**

INIS: 1983-10-14; ETDE: 1980-08-12

RT air-biosphere interactions

RT carbon cycle

RT environmental transport

RT surface waters

RT troposphere

RT water waves

**airborne particles**

INIS: 1991-08-14; ETDE: 1981-09-08

(Prior to September 1981, this concept in ETDE was indexed to AEROSOLS and PARTICLES.)

USE particulates

**airborne particulates**

1991-08-14

(Prior to September 1981, this concept in ETDE was indexed to AEROSOLS and PARTICLES.)

USE particulates

**AIRCRAFT**

(AIRCRAFT COMPONENTS was a valid ETDE descriptor from August 1976 till February 1997; AIRSHIPS was a valid ETDE descriptor from January 1980 until March 1996.)

UF aircraft components

UF airships

UF dirigibles

UF lighter-than-air craft

NT1 balloons

NT1 helicopters

NT1 kites

NT1 space shuttles

RT aerial monitoring

RT aerial surveying

RT aerodynamics

RT aerospace industry

RT air

RT air transport

RT airfoils

RT airports

RT flight testing

RT navigation

RT navigational instruments

RT propulsion systems

RT supersonic transport

**aircraft accidents**

USE accidents

**aircraft components**

INIS: 2000-04-12; ETDE: 1976-08-24

Use a descriptor referring to the component and the descriptor below.

(Prior to February 1997 this was a valid ETDE descriptor.)

USE aircraft

**aircraft fuels**

2000-04-12

SEE gasoline

SEE jet engine fuels

**AIRCRAFT PROPULSION****REACTORS**

\*BT1 propulsion reactors

NT1 xma-1 reactor

**aircraft shield test reactor**

2000-04-12

USE astr reactor

**aircraft surveys**

INIS: 2000-04-12; ETDE: 1993-07-29

USE aerial monitoring

**AIRFOILS**

INIS: 1992-08-13; ETDE: 1975-08-19

RT aerodynamics

RT aircraft

**AIRGLOW**

UF dayglow

UF nightglow

RT aurorae

RT earth atmosphere

RT night sky

RT noctiluculent clouds

**AIROX PROCESS**

INIS: 1980-07-24; ETDE: 1979-09-26

This method uses simple chemical oxidation and reduction reactions to simultaneously deacid and pulverize spent fuel, release the volatile fission products, and restore the fuel to the proper form for refabrication and recycle. This method is highly proliferation resistant.

UF atomics international reduction oxidation dry reprocessing

\*BT1 reprocessing

**AIRPORTS**

INIS: 1992-03-11; ETDE: 1975-11-11

RT aircraft

RT transportation systems

**airships**

INIS: 2000-04-12; ETDE: 1980-01-15

Propelled and steerable vehicles, dependent on gases for flotation.

(Prior to March 1996, this was a valid ETDE descriptor.)

USE aircraft

**AIRTIGHTNESS**

INIS: 1993-02-16; ETDE: 1979-02-23

RT air infiltration

RT buildings

RT leaks

RT space heating

RT ventilation

**AIRY FUNCTIONS**

BT1 functions

RT differential equations

**AITKEN NUCLEI**

INIS: 2000-04-12; ETDE: 1981-01-30

Microscopic particles in the atmosphere associated with atmospheric electrical phenomena.

RT air pollution

RT atmospheric precipitations

RT condensation nuclei

**ajman**

INIS: 1992-05-07; ETDE: 1976-08-05

USE united arab emirates

**akm muehleberg reactor**

USE muehleberg reactor

**akm reactor**

USE muehleberg reactor

**AKR-1 REACTOR**

2003-09-16

Technical Univ., Dresden, Federal Republic of Germany.

\*BT1 enriched uranium reactors

\*BT1 organic moderated reactors

\*BT1 solid homogeneous reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 zero power reactors

**akw1 rheinsberg reactor**

INIS: 1984-06-21; ETDE: 2002-06-06

USE rheinsberg akw1 reactor

**ALABAMA**

1997-06-19

\*BT1 usa

RT chattahoochee river

RT chattanooga formation

RT tennessee river  
 RT tennessee valley region  
 RT us gulf coast

**ALAMOSITE**

2000-04-12

\*BT1 silicate minerals  
 RT lead silicates

**ALANINE-ALPHA**

UF aminopropionic acid-alpha

\*BT1 alanines

NT1 alanine-l

**ALANINE-BETA**

UF aminopropionic acid-beta

\*BT1 alanines

RT pantothenic acid

**ALANINE-L**

UF l-alanine

UF l-alanine-alpha

\*BT1 alanine-alpha

**ALANINES**

\*BT1 amino acids

NT1 alanine-alpha

NT2 alanine-l

NT1 alanine-beta

**alap**

INIS: 2000-04-12; ETDE: 1979-11-23

As low as practicable.

SEE radiation protection

**ALARA**

INIS: 1981-02-27; ETDE: 1981-03-13

All exposures shall be kept As Low As

Reasonably Achievable, economic and social factors being taken into account.

UF as low as reasonably achievable

RT icrp

RT optimization

RT radiation doses

RT radiation hazards

RT radiation protection

RT risk assessment

RT safety

RT shielding

RT working conditions

**alarm dosimeters**

USE radiation monitors

**ALARM SYSTEMS**

1999-01-25

UF audible alarm

UF warning systems

NT1 intrusion detection systems

NT1 motion detection systems

RT building technology suite

RT fire detectors

RT radiation monitoring

RT radiation monitors

RT reactor components

RT safety engineering

RT smoke detectors

**ALASKA**

UF alaska river

\*BT1 usa

RT alaskan north slope

RT aleutian islands

RT amchitka island area

RT chukchi sea

RT prudhoe bay

RT yukon river

**ALASKA GAS PIPELINE**

INIS: 2000-04-12; ETDE: 1976-11-17

BT1 pipelines

RT natural gas

**ALASKA OIL PIPELINE**

INIS: 1992-06-04; ETDE: 1976-11-17

UF transalaska pipeline

BT1 pipelines

RT alaskan north slope

RT permafrost

RT petroleum

**ALASKA POWER****ADMINISTRATION**

INIS: 1993-02-19; ETDE: 1980-03-29

UF apa

\*BT1 us doe

RT electric power

**alaska river**

INIS: 2000-04-12; ETDE: 1981-05-18

USE alaska

USE rivers

**ALASKAN NORTH SLOPE**

INIS: 1992-06-04; ETDE: 1979-12-10

RT alaska

RT alaska oil pipeline

RT permafrost

**alaskites**

INIS: 1984-11-30; ETDE: 1984-12-27

USE aplites

**ALBANIA**

BT1 developing countries

\*BT1 eastern europe

RT adriatic sea

RT alps

RT centrally planned economies

**ALBANIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**ALBEDO**

RT illuminance

RT neutron transport theory

RT radiative forcing

RT reflection

**ALBEDO-NEUTRON DOSEMETERS**

\*BT1 dosimeters

RT backscattering

RT neutron dosimetry

RT personnel monitoring

**ALBERTA**

\*BT1 canada

RT athabasca deposit

RT athabasca lake

RT cold lake deposit

RT peace river

RT peace river deposit

RT wabasca deposit

**alberta university slowpoke reactor**

INIS: 1993-11-03; ETDE: 2002-06-06

USE slowpoke-alberta reactor

**albite**

INIS: 1984-04-04; ETDE: 1976-11-29

A sodium aluminum silicate mineral; feldspar used as glaze in ceramics.

(Prior to February 1997, this was a valid ETDE descriptor.)

USE feldspars

**albumen**

USE albumins

**ALBUMINS**

UF albumen

UF hsa

UF human serum albumin

UF risa

\*BT1 proteins

NT1 luciferin

RT albuminuria

RT polyamides

**ALBUMINURIA**

RT albumins

**ALCATOR DEVICE**

UF massachusetts institute of technology alcator

\*BT1 tokamak devices

**ALCOHOL DEHYDROGENASE**

INIS: 1993-04-08; ETDE: 1986-04-11

\*BT1 hemiacetal dehydrogenases

**ALCOHOL FUEL CELLS**

1992-05-20

\*BT1 fuel cells

NT1 direct ethanol fuel cells

NT1 direct methanol fuel cells

**ALCOHOL FUELS**

INIS: 1992-05-21; ETDE: 1978-11-14

For pure alcohols, alcohol-water mixtures, or alcohol with additives; for alcohol-gasoline mixtures use GASOHOL.

\*BT1 liquid fuels

\*BT1 synthetic fuels

NT1 ethanol fuels

NT1 methanol fuels

RT alcohols

RT automotive fuels

RT gasohol

**alcoholates**

USE alkoxides

**ALCOHOLS**

1996-10-23

UF alkylates

UF amino alcohols

UF batyl alcohol

UF geraniol

UF methyl-fuel

UF octadecyl glyceryl ether-alpha

\*BT1 hydroxy compounds

NT1 2-methylpropanol

NT1 benzhydrol

NT1 benzyl alcohol

NT1 butanols

NT1 choline

NT1 cyclohexanol

NT1 decanols

NT1 enols

NT1 erythritol

NT1 ethanol

NT2 bioethanol

NT3 cellulosic ethanol

NT1 glycerol

NT1 glycols

NT2 butanediols

NT2 cellosolves

NT2 egta

NT2 ethylene glycols

NT3 polyethylene glycols

NT4 carbowax

NT4 pluronics

NT2 pinacol

NT1 hexanols

NT1 methanol

NT1 metronidazole

NT1 misonidazole

NT1 octanols

NT1 pentanols

NT1 propanols

NT1 pva

RT alcohol fuels

RT alkoxides

RT gasohol

**ALDEHYDE-LYASES**

INIS: 2000-04-12; ETDE: 1981-01-12

Code number 4.1.2.

\*BT1 carbon-carbon lyases

**ALDEHYDES**

UF aldehydo acids

BT1 organic compounds

NT1 acetaldehyde

NT1 acrolein

NT1 aldosterone

NT1 arabinose

NT1 benzaldehyde

NT1 chloral

NT1 deoxyribose

NT1 formaldehyde

NT1 furfural

NT1 galactose

NT1 galacturonic acid

NT1 glucose

NT1 glucuronic acid

NT1 glyoxal

NT1 glyoxylic acid

NT1 mannose

NT1 pyridoxal

NT1 ribose

NT1 xylose

RT hydrazones

RT imines

RT lyases

RT oximes

RT semicarbazones

**aldehydo acids**

USE aldehydes

USE carboxylic acids

**ALDER-WINTER THEORY**

2000-04-12

RT angular distribution

**aldermaston reactor merlin**

2000-04-12

USE merlin reactor

**aldolase**

INIS: 2000-04-12; ETDE: 1981-01-30

Use ALDOLASES for this concept.

(From January 1981 to October 1990, this was a valid ETDE descriptor.)

USE aldolases

**ALDOLASES**

(From January 1981 to October 1990 this was an invalid ETDE descriptor and material was indexed to ALDOLASE.)

UF aldolase

\*BT1 carbon-carbon lyases

**ALDOSTERONE**

\*BT1 aldehydes

\*BT1 mineralocorticoids

RT tubules

**ALDRIN**

INIS: 1976-05-07; ETDE: 1976-08-04

\*BT1 chlorinated aromatic hydrocarbons

\*BT1 insecticides

**ALEUTIAN ISLANDS**

BT1 islands

NT1 amchitka island area

RT alaska

RT bering sea

RT nuclear explosions

RT pacific ocean

**ALFALFA**

\*BT1 leguminosae

**ALFVEN WAVES**

BT1 hydromagnetic waves

RT plasma waves

**ALGAE**

1997-06-19

BT1 plants

NT1 chlorophycota

NT2 acetabularia

NT2 chlamydomonas

NT2 chlorella

NT2 nitella

NT2 scenedesmus

NT1 chromophycota

NT2 diatoms

NT2 fucus

NT2 laminaria

NT1 lichens

NT1 rhodophycota

NT2 porphyra

NT1 ulva

NT1 unicellular algae

NT2 chlamydomonas

NT2 chlorella

NT2 euglena

NT2 scenedesmus

RT algicides

RT aquatic organisms

RT biological fouling

RT eutrophication

RT phycobilisomes

RT phytoplankton

**ALGEBRA**

BT1 mathematics

RT graded lie groups

RT quantum groups

**ALGEBRAIC CURRENTS**

UF currents (algebraic)

BT1 currents

NT1 axial-vector currents

NT1 charged currents

NT2 weak charged currents

NT1 neutral currents

NT2 weak neutral currents

NT1 second-class currents

NT1 vector currents

RT current algebra

RT current commutators

RT current divergences

**ALGEBRAIC FIELD THEORY**

INIS: 1977-11-21; ETDE: 1978-03-08

UF haag-araki field theory

\*BT1 axiomatic field theory

**ALGERIA**

BT1 africa

BT1 arab countries

BT1 developing countries

RT oapec

RT opec

**ALGERIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**ALGICIDES**

2013-08-26

BT1 pesticides

RT algae

**ALGINATES**

RT laminaria

**ALGINIC ACID**

\*BT1 colloids

\*BT1 polysaccharides

RT carboxylic acids

**ALGOL**

BT1 programming languages

**ALGORITHMS**

1999-01-25

BT1 mathematical logic

NT1 genetic algorithms

RT adaptive systems

RT calculation methods

RT cluster analysis

RT computer codes

RT data-flow processing

RT functions

RT mathematical evolution

RT mathematical solutions

RT mathematics

RT parallel processing

RT vector processing

**ali**

INIS: 1985-04-23; ETDE: 2002-06-06

USE annual limit of intake

**ALICE**

\*BT1 magnetic mirrors

**ALICE CYCLOTRON**

UF orsay alice cyclotron

\*BT1 isochronous cyclotrons

**ALICE DETECTOR**

2015-10-27

UF alice experiment

\*BT1 radiation detectors

RT cern

RT cern lhc

**alice experiment**

2015-10-27

USE alice detector

**ALIGNED COUPLING SCHEME**

UF stretch model

RT coupling

RT deformed nuclei

RT particle-hole model

RT projection operators

RT shell models

RT slater method

**ALIGNMENT**

Not for the concept covered by the descriptor

NUCLEAR ALIGNMENT.

RT beam optics

RT positioning

**ALIZARIN**

UF 1,2-dihydroxyanthraquinone

UF anthraquinonic acid

\*BT1 anthraquinones

BT1 dyes

\*BT1 hydroxy compounds

BT1 reagents

**alkali gabbros**

INIS: 2000-04-12; ETDE: 1980-08-12

(Prior to September 1994, this was a valid ETDE descriptor.)

USE plutonic rocks

**ALKALI METAL COMPLEXES**

1996-07-18

(Prior to March 1997 FRANCIUM COMPLEXES was a valid ETDE descriptor.)

BT1 complexes

NT1 cesium complexes

NT1 francium complexes

NT1 lithium complexes

NT1 potassium complexes

NT1 rubidium complexes

NT1 sodium complexes

**ALKALI METAL COMPOUNDS**

NT1 cesium compounds

NT2 cesium carbides

NT2 cesium carbonates  
 NT2 cesium halides  
   NT3 cesium bromides  
   NT3 cesium chlorides  
   NT3 cesium fluorides  
   NT3 cesium iodides  
 NT2 cesium hydrides  
 NT2 cesium hydroxides  
 NT2 cesium nitrates  
 NT2 cesium nitrides  
 NT2 cesium oxides  
 NT2 cesium perchlorates  
 NT2 cesium phosphates  
 NT2 cesium selenides  
 NT2 cesium silicates  
 NT2 cesium silicides  
 NT2 cesium sulfates  
 NT2 cesium sulfides  
 NT2 cesium tellurides  
 NT2 cesium tungstates  
 NT2 cesium uranates  
 NT1 francium compounds  
   NT2 francium halides  
   NT3 francium chlorides  
 NT1 lithium compounds  
   NT2 lithium arsenides  
   NT2 lithium borides  
   NT2 lithium carbides  
   NT2 lithium carbonates  
   NT2 lithium halides  
     NT3 lithium bromides  
     NT3 lithium chlorides  
     NT3 lithium fluorides  
     NT3 lithium iodides  
   NT2 lithium hydrides  
     NT3 lithium deuterides  
     NT3 lithium tritides  
   NT2 lithium hydroxides  
   NT2 lithium nitrates  
   NT2 lithium nitrides  
   NT2 lithium oxides  
   NT2 lithium perchlorates  
   NT2 lithium phosphates  
   NT2 lithium phosphides  
   NT2 lithium selenides  
   NT2 lithium silicates  
   NT2 lithium silicides  
   NT2 lithium sulfates  
   NT2 lithium sulfides  
   NT2 lithium tellurides  
   NT2 lithium titanates  
   NT2 lithium tungstates  
   NT2 lithium uranates  
 NT1 potassium compounds  
   NT2 potassium borides  
   NT2 potassium bromides  
   NT2 potassium carbides  
   NT2 potassium carbonates  
   NT2 potassium chlorides  
   NT2 potassium fluorides  
   NT2 potassium halides  
     NT3 potassium bromides  
     NT3 potassium chlorides  
     NT3 potassium fluorides  
     NT3 potassium iodides  
   NT2 potassium hydrides  
   NT2 potassium hydroxides  
   NT2 potassium iodides  
   NT2 potassium nitrates  
   NT2 potassium nitrides  
   NT2 potassium oxides  
   NT2 potassium perchlorates  
   NT2 potassium phosphates  
   NT2 potassium phosphides  
   NT2 potassium selenides  
   NT2 potassium silicates  
   NT2 potassium silicides  
   NT2 potassium sulfates  
   NT2 potassium sulfides

NT2 potassium tellurides  
 NT2 potassium tungstates  
 NT2 potassium uranates  
 NT2 potassium vanadates  
 NT2 rochelle salt  
 NT1 rubidium compounds  
   NT2 rubidium carbides  
   NT2 rubidium carbonates  
   NT2 rubidium halides  
     NT3 rubidium bromides  
     NT3 rubidium chlorides  
     NT3 rubidium fluorides  
     NT3 rubidium iodides  
   NT2 rubidium hydrides  
   NT2 rubidium hydroxides  
   NT2 rubidium nitrates  
   NT2 rubidium oxides  
   NT2 rubidium perchlorates  
   NT2 rubidium phosphates  
   NT2 rubidium selenides  
   NT2 rubidium silicates  
   NT2 rubidium silicides  
   NT2 rubidium sulfates  
   NT2 rubidium sulfides  
   NT2 rubidium tellurides  
   NT2 rubidium tungstates  
   NT2 rubidium uranates  
 NT1 sodium compounds  
   NT2 borax  
   NT2 rochelle salt  
   NT2 sodium borides  
   NT2 sodium carbides  
   NT2 sodium carbonates  
   NT2 sodium halides  
     NT3 sodium bromides  
     NT3 sodium chlorides  
     NT3 sodium fluorides  
     NT3 sodium iodides  
   NT2 sodium hydrides  
   NT2 sodium hydroxides  
   NT2 sodium nitrates  
   NT2 sodium nitrides  
   NT2 sodium oxides  
     NT3 sodium tungsten bronze  
   NT2 sodium perchlorates  
   NT2 sodium phosphates  
   NT2 sodium phosphides  
   NT2 sodium selenides  
   NT2 sodium silicates  
   NT2 sodium silicides  
   NT2 sodium sulfates  
   NT2 sodium sulfides  
   NT2 sodium tellurides  
   NT2 sodium tungstates  
   NT2 sodium uranates  
   NT2 tiron

### alkali metal isotopes

*INIS: 2000-04-12; ETDE: 1976-10-13*

*Use the descriptor below or one(s) for the specific alkali metal isotopes.*

*(Prior to February 1997, this was a valid ETDE descriptor.)*

USE isotopes

### ALKALI METALS

\*BT1 metals  
 NT1 cesium  
 NT1 francium  
 NT1 lithium  
 NT1 potassium  
 NT1 rubidium  
 NT1 sodium

### ALKALINE EARTH ISOTOPES

*INIS: 1999-02-01; ETDE: 1997-03-31*

BT1 isotopes  
 NT1 barium isotopes  
   NT2 barium 114  
   NT2 barium 115

NT2 barium 116  
 NT2 barium 117  
 NT2 barium 118  
 NT2 barium 119  
 NT2 barium 120  
 NT2 barium 121  
 NT2 barium 122  
 NT2 barium 123  
 NT2 barium 124  
 NT2 barium 125  
 NT2 barium 126  
 NT2 barium 127  
 NT2 barium 128  
 NT2 barium 129  
 NT2 barium 130  
 NT2 barium 131  
 NT2 barium 132  
 NT2 barium 133  
 NT2 barium 134  
 NT2 barium 135  
 NT2 barium 136  
 NT2 barium 137  
 NT2 barium 138  
 NT2 barium 139  
 NT2 barium 140  
 NT2 barium 141  
 NT2 barium 142  
 NT2 barium 143  
 NT2 barium 144  
 NT2 barium 145  
 NT2 barium 146  
 NT2 barium 147  
 NT2 barium 148  
 NT2 barium 149  
 NT2 barium 150  
 NT2 barium 151  
 NT2 barium 152  
 NT2 barium 153  
 NT1 beryllium isotopes  
   NT2 beryllium 10  
   NT2 beryllium 11  
   NT2 beryllium 12  
   NT2 beryllium 13  
   NT2 beryllium 14  
   NT2 beryllium 15  
   NT2 beryllium 16  
   NT2 beryllium 5  
   NT2 beryllium 6  
   NT2 beryllium 7  
   NT2 beryllium 8  
   NT2 beryllium 9  
 NT1 calcium isotopes  
   NT2 calcium 34  
   NT2 calcium 35  
   NT2 calcium 36  
   NT2 calcium 37  
   NT2 calcium 38  
   NT2 calcium 39  
   NT2 calcium 40  
   NT2 calcium 41  
   NT2 calcium 42  
   NT2 calcium 43  
   NT2 calcium 44  
   NT2 calcium 45  
   NT2 calcium 46  
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   NT2 calcium 50  
   NT2 calcium 51  
   NT2 calcium 52  
   NT2 calcium 53  
   NT2 calcium 54  
   NT2 calcium 55  
   NT2 calcium 56  
   NT2 calcium 57  
   NT2 calcium 58  
   NT2 calcium 60  
 NT1 magnesium isotopes

NT2 magnesium 19  
 NT2 magnesium 20  
 NT2 magnesium 21  
 NT2 magnesium 22  
 NT2 magnesium 23  
 NT2 magnesium 24  
 NT2 magnesium 25  
 NT2 magnesium 26  
 NT2 magnesium 27  
 NT2 magnesium 28  
 NT2 magnesium 29  
 NT2 magnesium 30  
 NT2 magnesium 31  
 NT2 magnesium 32  
 NT2 magnesium 33  
 NT2 magnesium 34  
 NT2 magnesium 35  
 NT2 magnesium 36  
 NT2 magnesium 37  
 NT2 magnesium 38  
 NT2 magnesium 39  
 NT2 magnesium 40  
 NT1 radium isotopes  
 NT2 radium 201  
 NT2 radium 202  
 NT2 radium 203  
 NT2 radium 204  
 NT2 radium 205  
 NT2 radium 206  
 NT2 radium 207  
 NT2 radium 208  
 NT2 radium 209  
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 NT2 radium 211  
 NT2 radium 212  
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 NT2 radium 228  
 NT2 radium 229  
 NT2 radium 230  
 NT2 radium 231  
 NT2 radium 232  
 NT2 radium 233  
 NT2 radium 234  
 NT1 strontium isotopes  
 NT2 strontium 100  
 NT2 strontium 101  
 NT2 strontium 102  
 NT2 strontium 103  
 NT2 strontium 104  
 NT2 strontium 105  
 NT2 strontium 73  
 NT2 strontium 74  
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NT2 strontium 88  
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 NT2 strontium 92  
 NT2 strontium 93  
 NT2 strontium 94  
 NT2 strontium 95  
 NT2 strontium 96  
 NT2 strontium 97  
 NT2 strontium 98  
 NT2 strontium 99

#### ALKALINE EARTH METAL COMPLEXES

BT1 complexes  
 NT1 barium complexes  
 NT1 beryllium complexes  
 NT1 calcium complexes  
 NT1 magnesium complexes  
 NT1 radium complexes  
 NT1 strontium complexes

#### ALKALINE EARTH METAL COMPOUNDS

NT1 barium compounds  
 NT2 barium borides  
 NT2 barium carbides  
 NT2 barium carbonates  
 NT2 barium halides  
 NT3 barium bromides  
 NT3 barium chlorides  
 NT3 barium fluorides  
 NT3 barium iodides  
 NT2 barium hydrides  
 NT2 barium hydroxides  
 NT2 barium nitrates  
 NT2 barium nitrides  
 NT2 barium oxides  
 NT2 barium perchlorates  
 NT2 barium phosphates  
 NT2 barium silicates  
 NT2 barium sulfates  
 NT2 barium sulfides  
 NT2 barium tungstates  
 NT1 beryllium compounds  
 NT2 beryllium borides  
 NT2 beryllium carbides  
 NT2 beryllium carbonates  
 NT2 beryllium halides  
 NT3 beryllium bromides  
 NT3 beryllium chlorides  
 NT3 beryllium fluorides  
 NT3 beryllium iodides  
 NT2 beryllium hydrides  
 NT2 beryllium hydroxides  
 NT2 beryllium nitrates  
 NT2 beryllium nitrides  
 NT2 beryllium oxides  
 NT2 beryllium phosphates  
 NT2 beryllium phosphides  
 NT2 beryllium selenides  
 NT2 beryllium silicates  
 NT2 beryllium sulfates  
 NT2 beryllium sulfides  
 NT2 beryllium tellurides  
 NT1 calcium compounds  
 NT2 calcium borides  
 NT2 calcium carbides  
 NT2 calcium carbonates  
 NT2 calcium halides  
 NT3 calcium bromides  
 NT3 calcium chlorides  
 NT3 calcium fluorides  
 NT3 calcium iodides  
 NT2 calcium hydrides  
 NT2 calcium hydroxides  
 NT2 calcium nitrates  
 NT2 calcium nitrides

NT2 calcium oxides  
 NT2 calcium perchlorates  
 NT2 calcium phosphates  
 NT2 calcium silicates  
 NT2 calcium silicides  
 NT2 calcium sulfates  
 NT2 calcium sulfides  
 NT2 calcium tungstates  
 NT1 magnesium compounds  
 NT2 grignard reagents  
 NT2 magnesium arsenides  
 NT2 magnesium borides  
 NT2 magnesium carbides  
 NT2 magnesium carbonates  
 NT2 magnesium halides  
 NT3 magnesium bromides  
 NT3 magnesium chlorides  
 NT3 magnesium fluorides  
 NT3 magnesium iodides  
 NT2 magnesium hydrides  
 NT2 magnesium hydroxides  
 NT2 magnesium nitrates  
 NT2 magnesium nitrides  
 NT2 magnesium oxides  
 NT2 magnesium perchlorates  
 NT2 magnesium phosphates  
 NT2 magnesium silicates  
 NT2 magnesium silicides  
 NT2 magnesium sulfates  
 NT2 magnesium sulfides  
 NT2 magnesium tellurides  
 NT1 radium compounds  
 NT2 radium carbonates  
 NT2 radium halides  
 NT3 radium bromides  
 NT3 radium chlorides  
 NT3 radium fluorides  
 NT2 radium nitrates  
 NT2 radium nitrides  
 NT2 radium oxides  
 NT2 radium silicates  
 NT2 radium sulfates  
 NT1 strontium compounds  
 NT2 strontium borides  
 NT2 strontium carbides  
 NT2 strontium carbonates  
 NT2 strontium halides  
 NT3 strontium bromides  
 NT3 strontium chlorides  
 NT3 strontium fluorides  
 NT3 strontium iodides  
 NT2 strontium hydrides  
 NT2 strontium hydroxides  
 NT2 strontium nitrates  
 NT2 strontium oxides  
 NT2 strontium perchlorates  
 NT2 strontium phosphates  
 NT2 strontium silicates  
 NT2 strontium sulfates  
 NT2 strontium sulfides  
 NT2 strontium titanates  
 NT2 strontium tungstates  
 NT2 strontium uranates

#### ALKALINE EARTH METALS

\*BT1 metals  
 NT1 barium  
 NT1 beryllium  
 NT1 calcium  
 NT1 magnesium  
 NT1 radium  
 NT1 strontium

#### ALKALINE ELECTROLYTE FUEL CELLS

INIS: 1992-05-20; ETDE: 1989-04-12

\*BT1 fuel cells

**alkaline flooding**

INIS: 2000-04-12; ETDE: 1981-07-06

USE caustic flooding

**ALKALINE HYDROLYSIS**

INIS: 1999-03-10; ETDE: 1980-01-15

\*BT1 hydrolysis

RT acid hydrolysis

RT enzymatic hydrolysis

**ALKALINE PHOSPHATASE**

Code number 3.1.3.1.

\*BT1 phosphatases

**alkalinity**

INIS: 2000-04-12; ETDE: 1984-08-06

USE acid neutralizing capacity

**alkalis (hydroxides)**

INIS: 2000-04-12; ETDE: 1979-06-06

USE hydroxides

**ALKALIZED ALUMINA PROCESS**

INIS: 2000-04-12; ETDE: 1977-12-22

SOX is adsorbed on alkalized alumina, the spent adsorbent regenerated at 1200 degrees F with producer gas.

\*BT1 desulfurization

RT waste processing

**ALKALOIDS**

1996-07-18

(CODEINONE, CINCHONINE, and HYOSCYAMINE have been valid ETDE descriptors.)

UF cinchonine

UF codeinone

UF hyoscyamine

BT1 organic compounds

NT1 atropine

NT1 cocaine

NT1 codeine

NT1 colchicine

NT1 ephedrine

NT1 ergotamine

NT1 eserine

NT1 lysergic acid

NT1 morphine

NT2 thebaine

NT1 nicotine

NT1 oncovin

NT1 pilocarpine

NT1 quinine

NT1 reserpine

NT1 strychnine

NT1 vinblastine

RT medicinal plants

RT plants

**ALKANES**

UF paraffins

\*BT1 hydrocarbons

NT1 2-2-dimethylpropane

NT1 2-methylbutane

NT1 2-methylpropane

NT1 butane

NT1 cycloalkanes

NT2 cyclohexane

NT2 decalin

NT1 decane

NT1 dodecane

NT1 ethane

NT1 heptane

NT1 hexadecane

NT1 hexane

NT1 methane

NT1 octane

NT1 paraffin

NT1 pentane

NT1 propane

NT1 squalane

**alkanoic acids**

USE carboxylic acids

**alkazid process**

2000-04-12

Process for the selective absorption of hydrogen sulfide and for the simultaneous removal of hydrogen sulfide and carbon dioxide at atmospheric or higher pressures.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**ALKENES**

UF olefins

\*BT1 hydrocarbons

NT1 2-methylpropene

NT1 butenes

NT1 cycloalkenes

NT2 cyclopentadiene

NT2 norbornadiene

NT2 quadricyclene

NT1 ethylene

NT1 heptenes

NT1 hexenes

NT1 octenes

NT1 pentenes

NT1 propylene

RT polyenes

**alkenoic acids**

USE carboxylic acids

**alkines**

USE alkynes

**ALKOXIDES**

INIS: 1982-02-10; ETDE: 1981-08-04

A group of compounds in which a hydrogen atom of an alcohol or phenol hydroxide group is replaced by a metal.

UF alcoholates

RT alcohols

RT phenols

**ALKOXY RADICALS**

BT1 radicals

NT1 butoxy radicals

NT1 ethoxy radicals

NT1 methoxy radicals

**ALKYL BENZENESULFONATES**

ETDE: 2005-01-28

(Prior to January 2005 ABS was used for this concept.)

UF abs (alkyl benzenesulfonates)

\*BT1 sulfonic acid esters

**ALKYL RADICALS**

1996-07-18

(Prior to March 1997 NONYL RADICALS was a valid ETDE descriptor.)

UF nonyl radicals

BT1 radicals

NT1 allyl radicals

NT1 butyl radicals

NT1 dodecyl radicals

NT1 ethyl radicals

NT1 heptyl radicals

NT1 hexyl radicals

NT1 isobutyl radicals

NT1 isopropyl radicals

NT1 methyl radicals

NT1 octyl radicals

NT1 pentyl radicals

NT1 propargyl radicals

NT1 propyl radicals

NT1 vinyl radicals

RT alkylation

**ALKYLATED AROMATICS**

INIS: 1993-02-18; ETDE: 1984-07-20

Aromatic compounds which have one or more alkyl side chains, including isomers and mixtures.

UF alkylbenzenes

\*BT1 aromatics

NT1 cumene

NT1 cymene

NT1 durene

NT1 mesitylene

NT1 methylnaphthalenes

NT1 styrene

NT1 toluene

NT1 xylenes

NT2 xylene-para

**alkylates**

USE alcohols

**ALKYLATING AGENTS**

1999-01-25

UF mannomustine

UF tem (triethylenemelamine)

UF tretamine

UF triethylenemelamine

NT1 endoxan

NT1 myleran

NT1 nitrogen mustard

RT alkylation

RT antimetabolites

RT antimitotic drugs

RT antineoplastic drugs

RT chemosterilants

**ALKYLATION**

BT1 chemical reactions

RT alkyl radicals

RT alkylating agents

**alkylbenzenes**

2017-04-21

USE alkylated aromatics

**alkylmagnesium compounds**

USE grignard reagents

**ALKYNES**

UF acetylenes

UF alkines

\*BT1 hydrocarbons

NT1 acetylene

NT1 cycloalkynes

NT1 propyne

**ALLANITE**

1996-11-13

(Prior to March 1997 ORTHITE was a valid ETDE descriptor.)

UF orthite

\*BT1 silicate minerals

\*BT1 thorium minerals

RT thorium silicates

**ALLANTOIN**

\*BT1 imidazoles

\*BT1 organic oxygen compounds

RT urea

**ALLEGHENY RIVER**

\*BT1 rivers

RT new york

RT pennsylvania

**ALLENE**

UF propadiene

\*BT1 dienes

**ALLENS CREEK-1 REACTOR**

Houston Lighting and Power Co., Wallis, Texas, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors

**ALLENS CREEK-2 REACTOR**

Houston Lighting and Power Co., Wallis, Texas, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors

**ALLERGY**

BT1 pathological changes  
RT anaphylaxis  
RT antihistaminics  
RT eczema  
RT histamine  
RT immune system diseases  
RT immunity

**ALLIGATORS**

INIS: 2000-04-12; ETDE: 1977-03-04

\*BT1 reptiles

**ALLIUM CEPA**

\*BT1 onions

**ALLIUM SATIVUM**

1992-09-09

\*BT1 liliopsida  
RT bulbs  
RT garlic

**ALLOCATIONS**

1985-12-10

UF assignments  
UF curtailments  
UF rationing  
RT availability  
RT budgets  
RT distribution  
RT economic policy  
RT emissions trading  
RT energy policy  
RT entitlements program  
RT management  
RT planning  
RT shortages

**ALLOTROPY**

See also descriptors for specific allotropic forms, e.g., HELIUM I, IRON-ALPHA, and URANIUM-BETA.

RT crystal structure  
RT phase diagrams  
RT phase transformations

**allowance for funds used during construction**

INIS: 2000-04-12; ETDE: 1978-11-14

USE afude

**ALLOXAN**

\*BT1 organic oxygen compounds  
\*BT1 pyrimidines

**alloy-0kh12n13m**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

SEE chromium alloys  
SEE iron base alloys

**alloy-1915**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE aluminium base alloys

**alloy-214x**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE aluminium base alloys

**alloy-50kh4n6g12f2v**

INIS: 2000-04-12; ETDE: 1979-06-21

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium alloys

**alloy-600 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 600

**alloy-601 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE alloy-ni61cr23fe14

**alloy-60t**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE titanium base alloys

**alloy-617 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 617

**alloy-625 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 625

**alloy-671 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 671

**alloy-690 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 690

**alloy-706 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 706

**alloy-713-lc**

2000-03-24

(Prior to July 1981 this was a valid term, and older information is so indexed.)

USE inconel 713lc

**alloy-713lc (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 713lc

**alloy-79nm**

INIS: 1996-11-13; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE nickel base alloys

**alloy 800**

INIS: 2000-04-12; ETDE: 1978-09-11

USE incoloy 800

**alloy 800h**

INIS: 2000-04-12; ETDE: 1982-02-23

USE incoloy 800h

**alloy-800h (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE incoloy 800h

**alloy-802 (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE incoloy 802

**alloy-82 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 82

**alloy-825 (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE incoloy 825

**alloy-901 (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE incoloy 901

**ALLOY-A-286**

1993-10-03

\*BT1 steel-ni26cr15ti2mova1b

**ALLOY-AL95CU4**

1983-11-07

\*BT1 aluminium base alloys  
\*BT1 copper alloys  
\*BT1 iron additions  
\*BT1 magnesium additions  
\*BT1 manganese additions  
\*BT1 silicon additions  
NT1 duralumin

**ALLOY-B-1900**

2000-04-12

\*BT1 aluminium alloys  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 tantalum alloys  
\*BT1 titanium alloys

**alloy-b-66**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**alloy-b-88**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**ALLOY-BI50PB25CD12SN12**

1983-11-07

\*BT1 bismuth base alloys  
\*BT1 cadmium alloys  
\*BT1 lead alloys  
\*BT1 tin alloys  
NT1 wood metal

**ALLOY-C-103**

2000-04-12

\*BT1 hafnium alloys  
\*BT1 niobium base alloys  
\*BT1 tantalum alloys  
\*BT1 titanium alloys  
\*BT1 tungsten alloys  
\*BT1 yttrium alloys  
\*BT1 zirconium alloys

**alloy-c-129y**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**alloy-cb-1**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**alloy-cb-752**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys



**alloy-ck-20**

1983-11-07

USE steel-cr25ni20

**ALLOY-CO36CR22NI22W15FE3**

1983-11-07

\*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 haynes alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 lanthanum additions  
 \*BT1 nickel alloys  
 \*BT1 tungsten alloys  
 NT1 haynes 188 alloy

**ALLOY-CO43CR20FE18NI13W3**

INIS: 1983-11-07; ETDE: 1984-01-27

\*BT1 carbon additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt base alloys  
 \*BT1 iron alloys  
 \*BT1 manganese alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel alloys  
 \*BT1 tungsten alloys  
 NT1 havar

**ALLOY-CO50FE50**

1983-11-07

\*BT1 cobalt base alloys  
 \*BT1 iron base alloys  
 NT1 permendur

**alloy-co52cr17fe15mo3si3**

1983-11-07

USE cobalt base alloys

**ALLOY-CO52FE35V10**

INIS: 1997-01-28; ETDE: 1983-11-23

\*BT1 cobalt base alloys  
 \*BT1 iron alloys  
 \*BT1 vanadium alloys

**alloy-co52fe35v13**

INIS: 1996-07-16; ETDE: 1983-11-23

(Until July 1996 this was a valid descriptor.)

USE cobalt base alloys  
 USE iron alloys  
 USE vanadium alloys

**ALLOY-CO54CR20W15NI10**

1983-11-07

\*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 haynes alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 nickel alloys  
 \*BT1 stellite  
 \*BT1 tungsten alloys  
 NT1 alloy-hs-25  
 NT1 haynes 25 alloy

**ALLOY-CO60CR30W4**

INIS: 1996-11-13; ETDE: 1983-11-22

(From 1974 till March 1997 HAYNES STELLITE 6B was a valid ETDE descriptor.)

UF haynes stellite 6b  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 haynes alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 nickel alloys  
 \*BT1 stellite  
 \*BT1 tungsten alloys  
 NT1 stellite 6

**alloy-co62cr28mo6ni3**

INIS: 1997-01-28; ETDE: 1983-11-19

(Prior to September 1996 this was a valid ETDE descriptor.)

USE haynes alloys  
 USE stellite

**alloy-co64cr29w4**

INIS: 1996-07-17; ETDE: 1983-11-23

(Prior to August 1996 this was a valid ETDE descriptor. From October 1978 till August 1996 STELLITE 156 was also a valid ETDE descriptor.)

USE chromium alloys  
 USE stellite  
 USE tungsten alloys

**alloy-co66cr26w6**

INIS: 1997-01-28; ETDE: 1984-07-10

(Until October 1996 this was a valid descriptor.)

USE chromium alloys  
 USE stellite  
 USE tungsten alloys

**ALLOY-CU52NI47**

1983-11-07

\*BT1 copper base alloys  
 \*BT1 nickel alloys  
 NT1 constantan

**ALLOY-CU70NI30**

INIS: 1992-03-09; ETDE: 1994-08-10

\*BT1 copper base alloys

**ALLOY-CU90NI10**

INIS: 1992-03-09; ETDE: 1994-08-10

\*BT1 copper base alloys

**alloy-d-43**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**ALLOY-D-9**

INIS: 1993-10-03; ETDE: 1984-08-06

\*BT1 chromium-nickel steels

**ALLOY-D-979**

2000-04-12

\*BT1 aluminium alloys  
 \*BT1 chromium alloys  
 \*BT1 heat resisting alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel alloys  
 \*BT1 titanium alloys  
 \*BT1 tungsten alloys

**alloy-dh-245**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**alloy-ehi 183**

ETDE: 1979-05-29

USE steel-cr17ni13mo3ti

**alloy-ehi 397**

ETDE: 1979-05-29

USE steel-cr17ni13mo3ti

**alloy-ehi 432**

ETDE: 1979-05-29

USE steel-cr17ni13mo3ti

**alloy-ehi 437b**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ni77cr20ti2

**alloy-ehi 702**

INIS: 2000-03-24; ETDE: 1979-05-29

SEE alloy-ni77cr20ti2  
 SEE steel-ni36cr12ti3al-1

**alloy-ehi 826**

1996-11-27

(Prior to February 1989 this was a valid ETDE descriptor; from then till March 1997 ALLOY-NI68CR15W6AL3MO3FE2 was used for this concept in ETDE.)

USE nickel base alloys

**alloy-ehi 868**

INIS: 1996-11-13; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 ALLOY-NI60CR25W15 was used for this concept.)

USE chromium alloys  
 USE nickel base alloys  
 USE tungsten alloys

**alloy-ehp-199**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 ALLOY-NI56CR21W10MO5FE4AL2 was used for this concept.)

USE nickel base alloys

**alloy-ehp-496**

INIS: 2000-04-12; ETDE: 1979-05-29

USE iron alloys  
 USE molybdenum alloys  
 USE nickel base alloys  
 USE vanadium alloys

**alloy-ehp-567**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 ALLOY-NI65MO16CR15W4 was used for this concept.)

USE chromium alloys  
 USE molybdenum alloys  
 USE nickel base alloys  
 USE tungsten alloys

**alloy-fe31cr21co20ni20mo3w2**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

USE iron base alloys

**alloy-fe36ni33cr26**

INIS: 1997-01-28; ETDE: 1983-11-22

(Until October 1996 this was a valid descriptor.)

USE iron base alloys

**ALLOY-FE40NI35CR22**

INIS: 1997-01-28; ETDE: 1983-11-22

\*BT1 chromium alloys  
 \*BT1 iron base alloys  
 \*BT1 manganese additions  
 \*BT1 nickel alloys  
 \*BT1 silicon additions

**ALLOY-FE44NI33CR21**

1983-11-07

\*BT1 aluminium additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 incoloy alloys  
 \*BT1 iron base alloys  
 \*BT1 nickel alloys  
 \*BT1 titanium additions  
 NT1 incoloy 800h

**ALLOY-FE46NI33CR21**

*INIS: 1996-07-23; ETDE: 1983-11-22*  
(From December 1978 till March 1997  
SANICRO 30 was a valid ETDE descriptor.)

*UF sanicro 30*

- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 incoloy alloys
- \*BT1 iron base alloys
- \*BT1 nickel alloys
- \*BT1 titanium additions
- NT1** incoloy 800
- NT1** incoloy 802

**alloy-fe48cr24ni24**

*INIS: 1997-01-28; ETDE: 1983-11-19*  
(Until October 1996 this was a valid  
descriptor.)

- USE chromium alloys
- USE iron base alloys
- USE nickel alloys
- USE niobium alloys

**ALLOY-FE53NI29CO18**

*1983-11-07*

- \*BT1 cobalt alloys
- \*BT1 iron base alloys
- \*BT1 manganese additions
- \*BT1 nickel alloys
- NT1** kovar

**alloy-fs-85**

*2000-04-12*  
(Prior to 1989 this was a valid ETDE  
descriptor.)

- USE niobium base alloys

**alloy-ge**

*2000-04-12*  
(Prior to 1989 this was a valid ETDE  
descriptor.)

- USE copper alloys
- USE silver alloys

**alloy-gmr-235**

*2000-04-12*  
(Prior to 1989 this was a valid ETDE  
descriptor.)

- USE nickel base alloys

**alloy-hd-556**

*INIS: 1997-01-28; ETDE: 1979-08-09*  
(Until October 1996 this was a valid  
descriptor.)

- USE iron base alloys

**alloy-hd-8077**

*INIS: 2000-04-12; ETDE: 1979-08-09*  
USE nickel base alloys

**ALLOY-HK-40**

*INIS: 1993-10-03; ETDE: 1979-08-09*  
\*BT1 steel-cr25ni20

**alloy-hs-21**

*1996-09-12*  
(Until July 1996 this was a valid descriptor.)  
USE haynes alloys  
USE stellite

**ALLOY-HS-25**

*1993-10-03*  
\*BT1 alloy-co54cr20w15ni10

**ALLOY-HS-31**

*2000-04-12*  
*UF alloy-x-40*  
*UF x 40 (alloy)*  
\*BT1 carbon additions  
\*BT1 iron alloys

- \*BT1 manganese additions
- \*BT1 nickel alloys
- \*BT1 silicon additions
- \*BT1 stellite

**alloy-hs-6**

*INIS: 2000-04-12; ETDE: 1979-01-30*  
USE stellite 6

**ALLOY-HT-9**

*INIS: 1993-10-03; ETDE: 1978-02-15*  
\*BT1 steel-cr12mov

**ALLOY-IN-100**

*1993-10-03*  
\*BT1 alloy-ni60co15cr10al6ti5mo3

**ALLOY-IN-102**

*2000-04-12*  
\*BT1 aluminium additions  
\*BT1 boron additions  
\*BT1 carbon additions  
\*BT1 chromium alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 niobium alloys  
\*BT1 titanium additions  
\*BT1 tungsten alloys  
\*BT1 zirconium additions

**alloy-in-519**

*INIS: 1997-01-28; ETDE: 1979-08-09*  
(Until October 1996 this was a valid  
descriptor.)

- USE chromium alloys
- USE iron base alloys
- USE nickel alloys
- USE niobium alloys

**alloy-in-643**

*INIS: 1996-07-17; ETDE: 1979-10-23*  
(Until July 1996 this was a valid descriptor.)  
USE inconel alloys

**ALLOY-IN-738**

*INIS: 1993-10-03; ETDE: 1980-03-29*  
\*BT1 alloy-ni61cr16co9al3ti3w3

**ALLOY-IN-853**

*2000-04-12*  
*UF inconel ma 753*  
\*BT1 aluminium alloys  
\*BT1 nickel base alloys  
\*BT1 titanium alloys  
\*BT1 yttrium oxides

**ALLOY-IN-939**

*INIS: 1993-10-03; ETDE: 1982-02-11*  
\*BT1 alloy-ni46cr23co19ti5al4

**alloy-kh20n80**

*1983-11-07*  
(Prior to March 1989 this was a valid ETDE  
descriptor.)  
USE alloy-ni80cr20

**alloy-kh20n80t**

*2000-04-12*  
(Prior to 1989 this was a valid ETDE  
descriptor.)  
USE nickel base alloys

**ALLOY-KHN50MBVYU**

*INIS: 2000-04-12; ETDE: 1979-06-21*  
\*BT1 aluminium alloys  
\*BT1 chromium alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 niobium alloys  
\*BT1 tungsten alloys

**alloy-khn56vmtyu**

*INIS: 1996-11-13; ETDE: 2002-06-06*  
USE nickel base alloys

**alloy-khn60b**

*INIS: 2000-04-12; ETDE: 1979-05-29*  
(Prior to March 1989 this was a valid ETDE  
descriptor; from then till March 1997  
ALLOY-NI60CR25W15 was used for this  
concept.)  
USE chromium alloys  
USE nickel base alloys  
USE tungsten alloys

**alloy-khn60v**

*INIS: 1996-11-13; ETDE: 1979-05-29*  
(Prior to November 1983 ALLOY-EHI 868  
was used for this concept in ETDE; from  
November 1983 till March 1997 ALLOY-  
NI60CR25W15 was used.)  
USE chromium alloys  
USE nickel base alloys  
USE tungsten alloys

**alloy-khn60vt**

*INIS: 1996-11-13; ETDE: 2002-06-06*  
USE nickel base alloys

**alloy-khn67vmtyu**

*INIS: 1996-11-13; ETDE: 1979-05-29*  
(Prior to March 1989 this was a valid ETDE  
descriptor; from then till March 1997  
ALLOY-NI67CR19MO5W5TI3 was used for  
this concept in ETDE.)  
USE nickel base alloys

**alloy-khn77tyu**

*INIS: 2000-04-12; ETDE: 1979-05-29*  
USE nickel base alloys

**alloy-khn77tyur**

USE alloy-ni77cr20ti2

**alloy-khn78t**

*1983-11-07*  
USE alloy-ni78cr21

**alloy-l-605**

*2000-04-12*  
(Prior to 1989 this was a valid ETDE  
descriptor.)  
USE cobalt base alloys

**alloy-m-252**

*2000-04-12*  
(Prior to 1989 this was a valid ETDE  
descriptor.)  
USE nickel base alloys

**ALLOY-M-813**

*INIS: 2000-04-12; ETDE: 1977-07-23*  
\*BT1 aluminium alloys  
\*BT1 chromium-nickel-molybdenum steels  
\*BT1 titanium alloys

**alloy-ma-754**

*INIS: 2000-04-12; ETDE: 1979-08-09*  
USE nickel base alloys

**alloy-ma-956**

*INIS: 2000-04-12; ETDE: 1979-08-09*  
USE iron base alloys

**ALLOY-MAR-M246**

*2000-04-12*  
\*BT1 aluminium alloys  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 tantalum alloys  
\*BT1 titanium alloys

\*BT1 tungsten alloys

### alloy-mm-0011

INIS: 2000-04-12; ETDE: 1978-12-20

USE nickel base alloys

### ALLOY-MN-21

INIS: 2000-04-12; ETDE: 1978-12-20

UF mn-21

\*BT1 aluminium alloys  
\*BT1 chromium alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 niobium alloys  
\*BT1 tungsten alloys

### ALLOY-MO-RE-1

INIS: 2000-04-12; ETDE: 1979-08-09

UF mo-re 1

\*BT1 chromium alloys  
\*BT1 iron alloys  
\*BT1 manganese alloys  
\*BT1 nickel alloys  
\*BT1 silicon alloys  
\*BT1 tungsten alloys

### ALLOY-MO-RE-2

INIS: 2000-04-12; ETDE: 1979-10-23

UF mo-re 2

\*BT1 chromium base alloys  
\*BT1 nickel base alloys  
\*BT1 tungsten base alloys

### ALLOY-MO99

1983-11-07

UF alloy-vm-1

UF tzm

\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 molybdenum base alloys  
\*BT1 titanium additions  
\*BT1 zirconium additions  
NT1 alloy-tzm  
NT1 alloy-zm-2a

### ALLOY-MO99B

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-tsm6

\*BT1 boron additions  
\*BT1 molybdenum base alloys  
\*BT1 zirconium additions

### ALLOY-MP35N

INIS: 2000-04-12; ETDE: 1979-01-30

UF mp35n

\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel alloys

### ALLOY-N-10M

2000-04-12

\*BT1 carbon additions  
\*BT1 heat resisting alloys  
\*BT1 molybdenum alloys  
\*BT1 niobium base alloys  
\*BT1 tantalum additions  
\*BT1 titanium additions  
\*BT1 zirconium additions

### alloy-n-155

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE iron base alloys

### ALLOY-N-9M

2000-04-12

\*BT1 carbon additions  
\*BT1 heat resisting alloys  
\*BT1 molybdenum alloys  
\*BT1 niobium base alloys

\*BT1 zirconium additions

### ALLOY-N28T3

INIS: 2000-04-12; ETDE: 1979-05-29

\*BT1 carbon additions  
\*BT1 manganese additions  
\*BT1 nickel alloys  
\*BT1 silicon additions  
\*BT1 titanium alloys

### alloy-n55m20v25

2000-04-12

USE molybdenum alloys  
USE nickel base alloys  
USE tungsten alloys

### alloy-n65m20v15

2000-04-12

USE molybdenum alloys  
USE nickel base alloys  
USE tungsten alloys

### ALLOY-NI41FE40CR16NB3

1983-11-07

\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 inconel alloys  
\*BT1 iron alloys  
\*BT1 niobium alloys  
\*BT1 titanium alloys  
NT1 inconel 706

### alloy-ni42fe36cr12mo6ti3

1983-11-07

USE incoloy alloys  
USE nickel base alloys

### ALLOY-NI43FE30CR22MO3

INIS: 1983-11-07; ETDE: 1984-01-27

\*BT1 aluminium additions  
\*BT1 chromium alloys  
\*BT1 copper alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 incoloy alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 titanium additions  
NT1 incoloy 825

### ALLOY-NI43FE33CR16MO3

1983-11-07

UF pe-16

\*BT1 aluminium alloys  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 cobalt additions  
\*BT1 copper additions  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 nimonic  
\*BT1 titanium alloys  
\*BT1 zirconium additions  
NT1 nimonic pe16

### alloy-ni45cr23fe19co3mo3w3

INIS: 1983-11-07; ETDE: 1984-01-27

USE nickel base alloys

### ALLOY-NI45FE34CR20

1983-11-07

UF steel-kh20n45b

\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 iron alloys  
\*BT1 nickel base alloys  
\*BT1 niobium additions

### ALLOY-NI46CR23CO19TI5AL4

1983-11-16

\*BT1 aluminium alloys  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 inconel alloys  
\*BT1 iron additions  
\*BT1 niobium additions  
\*BT1 tantalum alloys  
\*BT1 titanium alloys  
\*BT1 zirconium additions  
NT1 alloy-in-939

### alloy-ni47cr25co12w9fe3

INIS: 1996-07-17; ETDE: 1983-11-19

(Until July 1996 this was a valid descriptor.)

USE inconel alloys

### alloy-ni48co28cr15al3mo3ti2

INIS: 1996-07-17; ETDE: 1983-11-22

(Until July 1996 this was a valid descriptor.)

USE inconel alloys

### alloy-ni48cr22fe18mo9

INIS: 1996-07-17; ETDE: 1983-11-22

(Until July 1996 this was a valid descriptor.)

USE nimonic

### ALLOY-NI49CR22FE18MO9

1983-11-07

\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 corrosion resistant alloys  
\*BT1 hastelloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 tungsten additions  
NT1 hastelloy x

### ALLOY-NI50CO20CR15AL5MO5

INIS: 1983-11-07; ETDE: 1984-01-27

\*BT1 aluminium alloys  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 nimonic  
\*BT1 titanium alloys  
NT1 nimonic 105

### ALLOY-NI50CR22FE18MO9

1983-11-07

\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 hastelloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 tungsten additions  
NT1 hastelloy xr

### ALLOY-NI50MO32CR15SI3

INIS: 1996-11-13; ETDE: 1983-11-23

(From October 1978 till March 1997 TRIBALLOY 700 was a valid ETDE descriptor.)

UF triballoy 700

\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 silicon alloys

**ALLOY-NI51CR48**

1983-11-07

- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 inconel alloys
- \*BT1 titanium additions
- NT1 inconel 671

**ALLOY-NI53CO19CR15MO5AL4TI3**

1983-11-07

- \*BT1 aluminium alloys
- \*BT1 boron additions
- \*BT1 corrosion resistant alloys
- \*BT1 udimet alloys
- NT1 udimet 700

**ALLOY-NI53CR19FE19NB5MO3**

1983-11-07

- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 inconel alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 niobium alloys
- \*BT1 titanium additions
- NT1 inconel 718

**ALLOY-NI54CR22CO13MO9**

1983-11-07

- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 inconel alloys
- \*BT1 molybdenum alloys
- NT1 inconel 617

**ALLOY-NI54MO17CR16FE6W4**

1983-11-07

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 hastelloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 tungsten alloys
- \*BT1 vanadium additions
- NT1 hastelloy c

**ALLOY-NI55CO17CR15MO5AL4TI4**

1983-11-07

- \*BT1 aluminium alloys
- \*BT1 boron additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 titanium alloys
- \*BT1 zirconium additions
- NT1 astroloy

**ALLOY-NI55CR19CO11MO10TI3**

1983-11-07

- \*BT1 aluminium alloys
- \*BT1 boron additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 titanium alloys
- NT1 rene 41

**alloy-ni56cr21w10mo5fe4al2**

INIS: 1997-01-28; ETDE: 1983-11-19  
(Until October 1996 this was a valid descriptor.)

USE nickel base alloys

**alloy-ni58cr14co8al4mo4nb4w4**

1983-11-07

USE nickel base alloys

**ALLOY-NI58CR20CO14MO4TI3**

1983-11-08

- \*BT1 aluminium alloys
- \*BT1 boron additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 titanium alloys
- \*BT1 zirconium additions
- NT1 waspaloy

**ALLOY-NI59CR20CO17TI2**

INIS: 1996-11-13; ETDE: 1983-11-22  
(From June 1977 till March 1997 NIMONIC 90 was a valid ETDE descriptor.)

UF nimonic 90

- \*BT1 aluminium alloys
- \*BT1 boron additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 nimonic
- \*BT1 titanium alloys
- \*BT1 zirconium additions

**ALLOY-NI59CR30FE9**

1983-11-07

- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 inconel alloys
- \*BT1 iron alloys
- \*BT1 titanium additions
- NT1 inconel 690

**ALLOY-NI60CO15CR10AL6TI5MO3**

1983-11-07

- \*BT1 aluminium alloys
- \*BT1 boron additions
- \*BT1 carbon additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 copper additions
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 inconel alloys
- \*BT1 iron additions
- \*BT1 molybdenum alloys
- \*BT1 titanium alloys
- \*BT1 vanadium additions
- \*BT1 zirconium additions
- NT1 alloy-in-100

**alloy-ni60cr14co10ti5mo4w4al3**

1983-11-07

USE nickel base alloys

**alloy-ni60cr25w15**

INIS: 1997-01-28; ETDE: 1983-11-19  
(Until October 1996 this was a valid descriptor.)

- USE chromium alloys
- USE nickel base alloys
- USE tungsten alloys

**ALLOY-NI60FE24CR16**

1983-11-07

- UF chromel c
- UF tophet c
- \*BT1 chromel
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- NT1 nichrome

**ALLOY-NI61CR16CO9AL3TI3W3**

1983-11-07

- \*BT1 aluminium alloys
- \*BT1 boron additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 inconel alloys
- \*BT1 molybdenum alloys
- \*BT1 niobium additions
- \*BT1 tantalum alloys
- \*BT1 titanium alloys
- \*BT1 tungsten alloys
- \*BT1 zirconium additions
- NT1 alloy-in-738

**ALLOY-NI61CR22MO9NB4FE3**

1983-11-07

- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 inconel alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 niobium alloys
- \*BT1 titanium additions
- NT1 inconel 625

**ALLOY-NI61CR23FE14**

INIS: 1985-01-17; ETDE: 1989-03-17

UF alloy-601 (inconel)

UF inconel 601

- \*BT1 chromium alloys
- \*BT1 inconel alloys
- \*BT1 iron alloys

**ALLOY-NI62CR16MO15FE3**

1983-11-07

- \*BT1 aluminium additions
- \*BT1 boron additions
- \*BT1 chromium alloys
- \*BT1 cobalt additions
- \*BT1 corrosion resistant alloys
- \*BT1 hastelloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 tungsten additions
- \*BT1 vanadium additions
- NT1 hastelloy s

**ALLOY-NI65CR25MO10**

1983-11-07

- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 molybdenum alloys
- \*BT1 nimonic
- NT1 nimonic 86

**alloy-ni65mo16cr15w4**

INIS: 2000-04-12; ETDE: 1983-11-19  
(Prior to March 1997 this was a valid ETDE descriptor.)

- USE chromium alloys
- USE molybdenum alloys
- USE nickel base alloys
- USE tungsten alloys

**ALLOY-NI65MO28FE5**

1983-11-07

- \*BT1 chromium additions
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 hastelloys
- \*BT1 vanadium additions
- NT1 hastelloy b

**ALLOY-NI66CU32**

1983-11-07

- UF monel r-405
- \*BT1 copper alloys
- \*BT1 iron alloys
- \*BT1 manganese additions
- \*BT1 monel
- NT1 monel 400

**alloy-ni67cr19mo5w5ti3**

INIS: 1997-01-28; ETDE: 1984-01-27

(Until October 1996 this was a valid descriptor.)

- USE nickel base alloys

**alloy-ni68cr15w6al3mo3fe2**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

- USE nickel base alloys

**ALLOY-NI70MO17CR7FE5**

1983-11-07

- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 hastelloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 titanium additions
- NT1 hastelloy n
- NT1 inor-8
- RT inconel alloys

**ALLOY-NI73CR15FE7TI3**

1983-11-07

- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 inconel alloys
- \*BT1 iron alloys
- \*BT1 niobium additions
- \*BT1 titanium alloys
- NT1 inconel x750

**ALLOY-NI73CR20MN3NB3**

1983-11-07

- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 inconel alloys
- \*BT1 iron additions
- \*BT1 manganese alloys
- \*BT1 niobium alloys
- \*BT1 titanium additions
- NT1 inconel 82

**ALLOY-NI74CR13AL6MO4**

1983-11-07

- \*BT1 aluminium alloys
- \*BT1 boron additions
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 inconel alloys
- \*BT1 molybdenum alloys
- \*BT1 niobium alloys
- \*BT1 titanium additions
- \*BT1 zirconium additions
- NT1 inconel 713c

**ALLOY-NI75CR12AL6MO5**

1983-11-07

- \*BT1 aluminium alloys
- \*BT1 boron additions
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 inconel alloys
- \*BT1 molybdenum alloys
- \*BT1 niobium alloys
- \*BT1 titanium additions
- \*BT1 zirconium additions
- NT1 inconel 713c

**ALLOY-NI76CR15FE8**

1983-11-07

- UF sanicro 70
- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 inconel alloys
- \*BT1 iron alloys
- \*BT1 nimonic
- \*BT1 titanium additions
- NT1 inconel 600

**ALLOY-NI76CR20TI2**

1983-11-07

- \*BT1 aluminium alloys
- \*BT1 boron additions
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 nimonic
- \*BT1 titanium alloys
- \*BT1 zirconium additions
- NT1 nimonic 80a

**ALLOY-NI77CR20TI2**

1983-11-07

- UF alloy-ehi 437b
- UF alloy-khn77tyur
- SF alloy-ehi 702
- \*BT1 aluminium additions
- \*BT1 boron additions
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 nickel base alloys
- \*BT1 titanium alloys

**alloy-ni78cr16al4**

INIS: 1997-01-28; ETDE: 1983-11-22

(Until October 1996 this was a valid descriptor.)

- USE aluminium alloys
- USE chromium alloys
- USE inconel alloys

**ALLOY-NI78CR21**

1983-11-07

- UF alloy-khn78t
- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 iron alloys
- \*BT1 manganese additions
- \*BT1 nickel base alloys
- \*BT1 silicon additions
- \*BT1 titanium additions

**ALLOY-NI79FE16MO4**

INIS: 1997-01-28; ETDE: 1983-11-22

- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys

**ALLOY-NI80CR20**

1983-11-07

- UF alloy-kh20n80

UF chromel a

UF nichrome v

UF tophet a

- \*BT1 aluminium additions
- \*BT1 chromel
- \*BT1 chromium alloys
- \*BT1 iron additions
- \*BT1 silicon additions

**alloy-ni80fe16mo4**

INIS: 1997-01-28; ETDE: 1983-11-22

(Until October 1996 this was a valid descriptor.)

- USE molybdenum alloys
- USE nickel base alloys
- USE permalloy

**ALLOY-NI94MN3AL2**

1983-11-07

- \*BT1 aluminium alloys
- \*BT1 manganese alloys
- \*BT1 nickel base alloys
- \*BT1 silicon additions
- NT1 aludel

**ALLOY-NT25A5**

INIS: 2000-04-12; ETDE: 1979-05-29

- \*BT1 aluminium alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium base alloys
- \*BT1 titanium alloys

**ALLOY NUCLEAR FUELS**

\*BT1 nuclear fuels

\*BT1 solid fuels

NT1 uranium-molybdenum fuels

**ALLOY-NX-188**

INIS: 2000-04-12; ETDE: 1978-12-20

UF nx-188

- \*BT1 aluminium alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys

**ALLOY-RA-333**

INIS: 1993-10-03; ETDE: 1979-08-09

UF ra 333

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 silicon alloys
- \*BT1 tungsten alloys

**ALLOY-S-590**

2000-04-12

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 heat resisting alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 niobium alloys
- \*BT1 tungsten alloys

**ALLOY-S-816**

2000-04-12

- \*BT1 carbon additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 manganese alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 niobium alloys
- \*BT1 silicon additions
- \*BT1 tantalum alloys
- \*BT1 tungsten alloys

**alloy su31**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**ALLOY SYSTEMS**

- NT1 binary alloy systems
- NT1 quaternary alloy systems
- NT1 ternary alloy systems
- RT alloys
- RT phase diagrams
- RT vegard law

**alloy-ta-10v**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

SEE tantalum base alloys

**ALLOY-TA90W8HF**

1983-11-07

- \*BT1 hafnium alloys
- \*BT1 tantalum base alloys
- \*BT1 tungsten alloys
- NT1 tantalum alloy-t111

**ALLOY-TI78CR11MO7AL3**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-vt15

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys

**ALLOY-TI88MO8AL3**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-vt22

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 iron additions
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys

**ALLOY-TI89AL6MO3**

1983-11-07

UF alloy-vt9

- \*BT1 aluminium alloys
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys
- \*BT1 zirconium alloys

**ALLOY-TI90AL6**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-vt20

- \*BT1 aluminium alloys
- \*BT1 molybdenum additions
- \*BT1 titanium base alloys
- \*BT1 vanadium additions
- \*BT1 zirconium alloys

**ALLOY-TI90AL6MO3**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-vt8

- \*BT1 aluminium alloys
- \*BT1 iron additions
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys

**ALLOY-TI90AL6V4**

1983-11-07

UF alloy-vt6

- \*BT1 aluminium alloys
- \*BT1 iron additions
- \*BT1 titanium base alloys
- \*BT1 vanadium alloys

**ALLOY-TI90MO7AL2**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-vt16

- \*BT1 aluminium alloys
- \*BT1 molybdenum alloys

\*BT1 titanium base alloys

**ALLOY-TI91AL4MO3**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-vt14

- \*BT1 aluminium alloys
- \*BT1 iron additions
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys
- \*BT1 vanadium alloys

**ALLOY-TI91AL5CR2**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-vt3-1

UF alloy-vtz-1

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 iron additions
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys

**ALLOY-TI99**

1983-11-07

UF alloy-vt1-0

- \*BT1 titanium base alloys

**alloy-ts5**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

SEE titanium base alloys

**alloy-tsm6**

INIS: 1983-11-07; ETDE: 1978-10-30

(Prior to 1989 this was a valid ETDE descriptor.)

USE alloy-mo99b

**alloy-tzc**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

SEE molybdenum base alloys

**ALLOY-TZM**

1993-10-03

- \*BT1 alloy-mo99

**ALLOY-U90NB7ZR3**

INIS: 1996-11-13; ETDE: 1983-11-22

(From 1974 till March 1997 MULBERRY ALLOY was a valid ETDE descriptor.)

UF mulberry alloy

- \*BT1 niobium alloys
- \*BT1 uranium base alloys
- \*BT1 zirconium alloys

**ALLOY-V-36**

2000-04-12

- \*BT1 carbon additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 manganese additions
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 niobium alloys
- \*BT1 silicon additions
- \*BT1 tantalum alloys
- \*BT1 tungsten alloys

**ALLOY-V87CR9FE3**

INIS: 1996-11-13; ETDE: 1983-11-23

(Until October 1996 this was a valid descriptor.)

UF vanstar 7

- \*BT1 chromium alloys
- \*BT1 iron alloys
- \*BT1 vanadium base alloys
- \*BT1 zirconium alloys

**alloy-vad23**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

SEE aluminium base alloys

**alloy-vm-1**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-mo99

**alloy-vn-3**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

SEE niobium base alloys

**alloy-vt1-0**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti99

**alloy-vt14**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti91al4mo3

**alloy-vt15**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti78cr11mo7al3

**alloy-vt16**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti90mo7al2

**alloy-vt20**

INIS: 1983-11-07; ETDE: 1978-10-19

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti90al6

**alloy-vt22**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti88mo8al3

**alloy-vt3-1**

INIS: 1983-11-07; ETDE: 1977-04-13

(Prior to March 1989 this was valid ETDE descriptor.)

USE alloy-ti91al5cr2

**alloy-vt30**

INIS: 2000-04-12; ETDE: 1985-10-25

(Prior to February 1995, this was a valid ETDE descriptor.)

USE titanium base alloys

**alloy-vt6**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti90al6v4

**alloy-vt8**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti90al6mo3

**alloy-vt9**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti89al6mo3

**alloy-vtz-1**

1977-11-21

(Prior to 1989 this was a valid ETDE descriptor.)

USE alloy-ti91al5cr2

**alloy-vus-6**

INIS: 2000-04-12; ETDE: 1979-05-29

USE niobium base alloys

**alloy-vzh98**

INIS: 1996-11-13; ETDE: 1979-05-29

(Prior to November 1983 ALLOY-EHI 868 was used for this concept in ETDE; from November 1983 till March 1997 ALLOY-NI60CR25W15 was used.)

USE chromium alloys

USE nickel base alloys

USE tungsten alloys

**alloy-waz-16**

INIS: 2000-04-12; ETDE: 1979-08-09

USE nickel base alloys

**alloy-x-40**

INIS: 2000-04-12; ETDE: 1979-12-17

USE alloy-hs-31

**alloy-x750 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-07

USE inconel x750

**ALLOY-YUNDK 25BA**

INIS: 2000-04-12; ETDE: 1979-06-21

\*BT1 aluminium alloys

\*BT1 cobalt alloys

\*BT1 copper alloys

\*BT1 iron alloys

\*BT1 nickel alloys

\*BT1 niobium additions

**ALLOY-ZM-2A**

1993-10-03

\*BT1 alloy-mo99

**ALLOY-ZR97NB3**

INIS: 1985-07-23; ETDE: 1989-03-18

\*BT1 heat resisting alloys

\*BT1 niobium alloys

\*BT1 zirconium base alloys

**ALLOY-ZR98SN-2**

1983-11-07

\*BT1 chromium additions

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 iron additions

\*BT1 nickel additions

\*BT1 tin alloys

\*BT1 zircaloy

NT1 zircaloy 2

**ALLOY-ZR98SN-4**

1983-11-07

\*BT1 chromium additions

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 iron additions

\*BT1 tin alloys

\*BT1 zircaloy

NT1 zircaloy 4

**alloying effects**

INIS: 1994-07-01; ETDE: 1978-02-14

USE metallurgical effects

**ALLOYS**

1996-01-24

UF actinium additions

UF astatine additions

UF berkelium additions

UF californium additions

UF einsteinium additions

UF radium additions

NT1 actinide alloys

NT2 americium alloys

NT2 berkelium alloys

NT2 californium alloys

NT2 curium alloys

NT3 curium additions

NT2 einsteinium alloys

NT2 neptunium alloys

NT3 neptunium additions

NT2 plutonium alloys

NT3 plutonium base alloys

NT2 protactinium alloys

NT2 thorium alloys

NT3 magnesium alloy-hk31a

NT3 thorium additions

NT3 thorium base alloys

NT2 uranium alloys

NT3 uranium base alloys

NT4 alloy-u90nb7zr3

NT1 aluminium alloys

NT2 alloy-b-1900

NT2 alloy-d-979

NT2 alloy-in-853

NT2 alloy-khn50mbvyu

NT2 alloy-m-813

NT2 alloy-mar-m246

NT2 alloy-mn-21

NT2 alloy-ni43fe33cr16mo3

NT3 nimonic pe16

NT2 alloy-ni46cr23co19ti5al4

NT3 alloy-in-939

NT2 alloy-ni50co20cr15al5mo5

NT3 nimonic 105

NT2 alloy-ni53co19cr15mo5al4ti3

NT3 udimet 700

NT2 alloy-ni55co17cr15mo5al4ti4

NT3 astroloy

NT2 alloy-ni55cr19co11mo10ti3

NT3 rene 41

NT2 alloy-ni58cr20co14mo4ti3

NT3 waspaloy

NT2 alloy-ni59cr20co17ti2

NT2 alloy-ni60co15cr10al6ti5mo3

NT3 alloy-in-100

NT2 alloy-ni61cr16co9al3ti3w3

NT3 alloy-in-738

NT2 alloy-ni74cr13al6mo4

NT3 inconel 713c

NT2 alloy-ni75cr12al6mo5

NT3 inconel 713lc

NT2 alloy-ni76cr20ti2

NT3 nimonic 80a

NT2 alloy-ni94mn3al2

NT3 alumel

NT2 alloy-nt25a5

NT2 alloy-nx-188

NT2 alloy-ti78cr11mo7al3

NT2 alloy-ti88mo8al3

NT2 alloy-ti89al6mo3

NT2 alloy-ti90al6

NT2 alloy-ti90al6mo3

NT2 alloy-ti90al6v4

NT2 alloy-ti90mo7al2

NT2 alloy-ti91al4mo3

NT2 alloy-ti91al5cr2

NT2 alloy-yundk 25ba

NT2 alnico alloys

NT2 aluminium additions

NT3 alloy-fe44ni33cr21

NT4 incoloy 800h

NT3 alloy-fe46ni33cr21

NT4 incoloy 800

NT4 incoloy 802

NT3 alloy-in-102

NT3 alloy-ni43fe30cr22mo3

NT4 incoloy 825

NT3 alloy-ni53cr19fe19nb5mo3

NT4 inconel 718

NT3 alloy-ni54cr22co13mo9

NT4 inconel 617

NT3 alloy-ni61cr22mo9nb4fe3

NT4 inconel 625

NT3 alloy-ni62cr16mo15fe3

NT4 hastelloy s

NT3 alloy-ni70mo17cr7fe5

NT4 hastelloy n

NT4 inor-8

NT3 alloy-ni73cr15fe7ti3

NT4 inconel x750

NT3 alloy-ni76cr15fe8

NT4 inconel 600

NT3 alloy-ni77cr20ti2

NT3 alloy-ni78cr21

NT3 alloy-ni80cr20

NT3 discaloy

NT3 incoloy 901

NT3 steel-cr13al

NT4 stainless steel-405

NT3 steel-cralnimo

NT3 steel-ni26cr15ti2moyalb

NT4 alloy-a-286

NT3 steel-ni36cr12ti3al-1

NT2 aluminium base alloys

NT3 alloy-al95cu4

NT4 duralumin

NT3 aludur

NT3 bondur

NT3 duranalium

NT3 heddur

NT3 lynite

NT3 magnalium

NT2 duranickel

NT2 ge 2541

NT2 heusler alloys

NT2 hoskins 875

NT2 kanthal

NT2 magnesium alloy-az31b

NT2 nimonic 115

NT2 rene-100

NT2 rene 80

NT2 rene 95

NT2 stainless steel-17-7ph

NT2 zamak

NT1 antimony alloys

NT2 antimony additions

NT2 antimony base alloys

NT2 terne-metal

NT1 arsenic alloys

NT2 arsenic additions

NT1 barium alloys

NT2 barium additions

NT2 barium base alloys

NT1 beryllium alloys

NT2 beryllium additions

NT2 beryllium base alloys

NT1 bismuth alloys

NT2 bismuth additions

NT2 bismuth base alloys

NT3 alloy-bi50pb25cd12sn12

NT4 wood metal

NT3 cerrobend alloys

NT3 lead-bismuth eutectic

NT3 lichtenberg alloy

NT3 newton-metal

NT2 rose-metal

NT1 boron alloys

NT2 boron additions

NT3 alloy-in-102

NT3 alloy-mo99b

NT3 alloy-ni43fe33cr16mo3

- NT4** nimonic pe16  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** alloy-ni77cr20ti2  
**NT3** incoloy 901  
**NT3** rene 80  
**NT3** steel-cr15ni15motib  
**NT3** steel-ni26cr15ti2moyalb  
**NT4** alloy-a-286  
**NT2** colmonoy  
**NT1** brazing alloys  
**NT1** cadmium alloys  
**NT2** alloy-bi50pb25cd12sn12  
**NT3** wood metal  
**NT2** cadmium additions  
**NT3** zamak  
**NT2** cadmium base alloys  
**NT2** cerrobend alloys  
**NT1** calcium alloys  
**NT2** calcium additions  
**NT2** calcium base alloys  
**NT1** carbon additions  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-hs-31  
**NT2** alloy-in-102  
**NT2** alloy-n-10m  
**NT2** alloy-n-9m  
**NT2** alloy-n28t3  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** ascology  
**NT2** astroloy  
**NT2** austenite  
**NT2** cast iron  
**NT2** discaloy  
**NT2** duriron  
**NT2** ferrite  
**NT2** martensite  
**NT2** rene 41  
**NT2** rene 95  
**NT2** steels  
**NT3** austenitic steels  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-l  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13
- NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-1  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT4** steel-cr19ni10  
**NT5** stainless steel-304  
**NT4** steel-cr19ni10-1  
**NT5** stainless steel-304i  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-1  
**NT5** stainless steel-308l  
**NT4** steel-cr21mn9ni6  
**NT5** stainless steel-21-6-9  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni26cr15ti2moyalb  
**NT5** alloy-a-286  
**NT3** carbon steels  
**NT4** steel-astm-a105  
**NT4** steel-astm-a106  
**NT4** steel-astm-a212  
**NT4** steel-astm-a285  
**NT4** steel-astm-a516  
**NT4** steel-astm-a533-b  
**NT4** steel-in-787  
**NT4** steel-sae-1045  
**NT3** croloy  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr5mo  
**NT3** ferritic steels  
**NT4** steel-cr12moniv  
**NT4** steel-cr13al  
**NT5** stainless steel-405  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr25  
**NT5** stainless steel-446  
**NT4** steel-cr9mo  
**NT4** steel-cr9monbv  
**NT3** high alloy steels  
**NT4** stainless steels  
**NT5** chromium-nickel steels  
**NT6** alloy-d-9  
**NT6** carpenter
- NT6** chromium-nickel-molybdenum steels  
**NT7** alloy-m-813  
**NT7** steel-cr11ni10mo2ti-1  
**NT7** steel-cr15ni15motib  
**NT7** steel-cr16ni13monbv  
**NT7** steel-cr16ni15mo3nb  
**NT7** steel-cr16ni16monb  
**NT7** steel-cr16ni8mo2  
**NT8** stainless steel-16-8-2  
**NT7** steel-cr16ni9mo2  
**NT7** steel-cr17ni12mo3  
**NT8** stainless steel-316  
**NT7** steel-cr17ni12mo3-l  
**NT8** stainless steel-316l  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr17ni12monb  
**NT7** steel-cr17ni13mo2ti  
**NT7** steel-cr17ni13mo3ti  
**NT7** steel-ni26cr15ti2moyalb  
**NT8** alloy-a-286  
**NT6** durco  
**NT6** enduro  
**NT6** stainless steel-17-7ph  
**NT6** stainless steel-303  
**NT6** stainless steel-329  
**NT6** stainless steel-ph-15-7-mo  
**NT6** steel-cr17ni13  
**NT6** steel-cr17ni7  
**NT7** stainless steel-301  
**NT6** steel-cr18ni10  
**NT7** stainless steel-18-10  
**NT6** steel-cr18ni10-1  
**NT6** steel-cr18ni10ti  
**NT7** stainless steel-321  
**NT6** steel-cr18ni11  
**NT7** steel-x6crni1811  
**NT6** steel-cr18ni11nb  
**NT7** stainless steel-347  
**NT6** steel-cr18ni11nbco  
**NT7** stainless steel-348  
**NT6** steel-cr18ni12  
**NT7** stainless steel-305  
**NT6** steel-cr18ni12ti  
**NT6** steel-cr18ni8  
**NT7** stainless steel-18-8  
**NT6** steel-cr18ni9  
**NT7** stainless steel-302  
**NT6** steel-cr18ni9ti  
**NT6** steel-cr19ni10  
**NT7** stainless steel-304  
**NT6** steel-cr19ni10-1  
**NT7** stainless steel-304l  
**NT6** steel-cr20ni11  
**NT7** stainless steel-308  
**NT6** steel-cr20ni11-1  
**NT7** stainless steel-308l  
**NT6** steel-cr23ni14  
**NT7** stainless steel-309  
**NT7** stainless steel-309s  
**NT6** steel-cr23ni18  
**NT6** steel-cr25ni20  
**NT7** alloy-hk-40  
**NT7** stainless steel-310  
**NT6** steel-ni25cr20  
**NT7** stainless steel-20-25  
**NT6** steel-ni36cr12ti3al-1  
**NT6** timken alloys  
**NT5** chromium steels  
**NT6** chromium-molybdenum steels  
**NT7** chromium-nickel-molybdenum steels  
**NT8** alloy-m-813  
**NT8** steel-cr11ni10mo2ti-1  
**NT8** steel-cr15ni15motib  
**NT8** steel-cr16ni13monbv  
**NT8** steel-cr16ni15mo3nb  
**NT8** steel-cr16ni16monb



- NT8** steel-cr16ni8mo2  
**NT9** stainless steel-16-8-2  
**NT8** steel-cr16ni9mo2  
**NT8** steel-cr17ni12mo3  
**NT9** stainless steel-316  
**NT8** steel-cr17ni12mo3-1  
**NT9** stainless steel-316l  
**NT9** stainless steel-zcnd17-13  
**NT8** steel-cr17ni12monb  
**NT8** steel-cr17ni13mo2ti  
**NT8** steel-cr17ni13mo3ti  
**NT8** steel-ni26cr15ti2movalb  
**NT9** alloy-a-286  
**NT6** magnet steel-ks  
**NT6** miduale  
**NT6** stainless steel-406  
**NT6** steel-cr10mo2  
**NT6** steel-cr12  
**NT7** stainless steel-403  
**NT6** steel-cr12moniv  
**NT6** steel-cr12mov  
**NT7** alloy-ht-9  
**NT6** steel-cr13  
**NT7** stainless steel-410  
**NT6** steel-cr13al  
**NT7** stainless steel-405  
**NT6** steel-cr16  
**NT7** stainless steel-430  
**NT6** steel-cr16ni  
**NT6** steel-cr17cu4ni4nb-1  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17mo  
**NT7** stainless steel-440  
**NT6** steel-cr17ni4mo3  
**NT6** steel-cr18  
**NT6** steel-cr25  
**NT7** stainless steel-446  
**NT6** steel-cr9mo  
**NT6** steel-cr9monbv  
**NT5** low carbon-high alloy steels  
**NT6** steel-cr11ni10mo2ti-1  
**NT6** steel-cr17cu4ni4nb-1  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17ni12mo3-1  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr18ni10-1  
**NT6** steel-cr19ni10-1  
**NT7** stainless steel-304l  
**NT6** steel-cr20ni11-1  
**NT7** stainless steel-308l  
**NT6** steel-ni36cr12ti3al-1  
**NT5** stainless steel-317  
**NT5** stainless steel-318  
**NT5** stainless steel-422  
**NT5** stainless steel-fv-548  
**NT5** stainless steel-jbk-75  
**NT5** stainless steel m-50  
**NT5** steel-cr21mn9ni6  
**NT6** stainless steel-21-6-9  
**NT5** sweetalloy  
**NT3** low alloy steels  
**NT4** steel-astm-a350  
**NT4** steel-astm-a387  
**NT4** steel-astm-a508  
**NT4** steel-astm-a533  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-cr5mo  
**NT4** steel-cralnimo  
**NT4** steel-crmo  
**NT4** steel-crmov  
**NT4** steel-crni  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mmmo  
**NT5** steel-astm-a302  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-mnnimov  
**NT4** steel-ni3cr  
**NT4** steel-ni3crmo  
**NT5** steel-astm-a543  
**NT4** steel-ni3crmov  
**NT4** steel-ni4crw  
**NT4** steel-nicr  
**NT4** steel-nicrmo  
**NT4** steel-nimocr  
**NT3** manganese steels  
**NT3** martensitic steels  
**NT4** maraging steels  
**NT4** steel-cr10mo2  
**NT4** steel-cr12  
**NT5** stainless steel-403  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr16ni  
**NT4** steel-cr17cu4ni4nb-1  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr18  
**NT3** nickel steels  
**NT4** sweetalloy  
**NT3** steel-astm-a572  
**NT1** cesium alloys  
**NT2** cesium additions  
**NT2** cesium base alloys  
**NT1** corrosion resistant alloys  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-mo99  
**NT3** alloy-tzm  
**NT3** alloy-zm-2a  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni45fe34cr20  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni50mo32cr15si3  
**NT2** alloy-ni51cr48  
**NT3** inconel 671  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni60fe24cr16  
**NT3** nichrome  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni65cr25mo10  
**NT3** nimonic 86  
**NT2** alloy-ni65mo28fe5  
**NT3** hastelloy b  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni76cr20ti2  
**NT3** nimonic 80a  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-ra-333  
**NT2** alloy-zr98sn-2  
**NT3** zircaloy 2  
**NT2** alloy-zr98sn-4  
**NT3** zircaloy 4  
**NT2** colmonoy  
**NT2** heusler alloys  
**NT2** incoloy 901  
**NT2** rene 80  
**NT2** rene 95  
**NT2** steel-cd-4mcu  
**NT2** steel-cr11ni10mo2ti-1  
**NT2** steel-cr12  
**NT3** stainless steel-403  
**NT2** steel-cr12moniv  
**NT2** steel-cr12mov  
**NT3** alloy-ht-9  
**NT2** steel-cr13  
**NT3** stainless steel-410  
**NT2** steel-cr13al  
**NT3** stainless steel-405  
**NT2** steel-cr15ni15motib  
**NT2** steel-cr16  
**NT3** stainless steel-430  
**NT2** steel-cr16ni  
**NT2** steel-cr16ni13monbv  
**NT2** steel-cr16ni15mo3nb  
**NT2** steel-cr16ni16monb  
**NT2** steel-cr16ni8mo2  
**NT3** stainless steel-16-8-2  
**NT2** steel-cr17cu4ni4nb-1  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17mo  
**NT3** stainless steel-440  
**NT2** steel-cr17ni12mo3  
**NT3** stainless steel-316  
**NT2** steel-cr17ni12mo3-1  
**NT3** stainless steel-316l  
**NT3** stainless steel-zcnd17-13  
**NT2** steel-cr17ni12monb  
**NT2** steel-cr17ni13  
**NT2** steel-cr17ni13mo2ti  
**NT2** steel-cr17ni13mo3ti  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr17ni7

- NT3** stainless steel-301  
**NT2** steel-cr18  
**NT2** steel-cr18ni10  
**NT3** stainless steel-18-10  
**NT2** steel-cr18ni10-1  
**NT2** steel-cr18ni10ti  
**NT3** stainless steel-321  
**NT2** steel-cr18ni11  
**NT3** steel-x6crmi1811  
**NT2** steel-cr18ni11nb  
**NT3** stainless steel-347  
**NT2** steel-cr18ni11nbco  
**NT3** stainless steel-348  
**NT2** steel-cr18ni12  
**NT3** stainless steel-305  
**NT2** steel-cr18ni12ti  
**NT2** steel-cr18ni8  
**NT3** stainless steel-18-8  
**NT2** steel-cr18ni9  
**NT3** stainless steel-302  
**NT2** steel-cr18ni9ti  
**NT2** steel-cr19ni10  
**NT3** stainless steel-304  
**NT2** steel-cr19ni10-1  
**NT3** stainless steel-304l  
**NT2** steel-cr20ni11  
**NT3** stainless steel-308  
**NT2** steel-cr20ni11-1  
**NT3** stainless steel-308l  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-cr23ni14  
**NT3** stainless steel-309  
**NT3** stainless steel-309s  
**NT2** steel-cr23ni18  
**NT2** steel-cr25  
**NT3** stainless steel-446  
**NT2** steel-cr25ni20  
**NT3** alloy-hk-40  
**NT3** stainless steel-310  
**NT2** steel-ni25cr20  
**NT3** stainless steel-20-25  
**NT2** steel-ni26cr15ti2movalb  
**NT3** alloy-a-286  
**NT2** steel-ni36cr12ti3al-1  
**NT2** tribaloy 800  
**NT1** dilute alloys  
**NT1** francium alloys  
**NT2** francium additions  
**NT1** gallium alloys  
**NT2** gallium additions  
**NT2** gallium base alloys  
**NT1** germanium alloys  
**NT2** germanium additions  
**NT2** germanium base alloys  
**NT1** heat resisting alloys  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-d-979  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-mo99  
**NT3** alloy-tzm  
**NT3** alloy-zm-2a  
**NT2** alloy-n-10m  
**NT2** alloy-n-9m  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni50mo32cr15si3  
**NT2** alloy-ni51cr48  
**NT3** inconel 671  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
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**NT2** alloy-ni70mo17cr7fe5  
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**NT2** steel-cr17ni13mo3ti  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr17ni7  
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**NT3** stainless steel-21-6-9  
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**NT1** germanium alloys  
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**NT2** germanium base alloys  
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**NT2** udimet alloys  
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**NT4** udimet 700  
**NT3** udimet 500  
**NT1** incoloy alloys  
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**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802

- NT2** alloy-ni43fe30cr22mo3  
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**NT2** incoloy 901  
**NT1** indium alloys  
**NT2** indium additions  
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**NT1** lead alloys  
**NT2** alloy-bi50pb25cd12sn12  
**NT3** wood metal  
**NT2** cerrobend alloys  
**NT2** lead additions  
**NT2** lead base alloys  
**NT3** terne-metal  
**NT2** lead-bismuth eutectic  
**NT2** lichtenberg alloy  
**NT2** newton-metal  
**NT2** ounce metal  
**NT2** rose-metal  
**NT1** lithium alloys  
**NT2** lithium additions  
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**NT2** duralumin  
**NT2** magnalium  
**NT2** magnesium additions  
**NT3** alloy-al95cu4  
**NT4** duralumin  
**NT3** bondur  
**NT3** zamak  
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**NT3** magnesium alloy-ek  
**NT3** magnesium alloy-ez  
**NT3** magnesium alloy-hk31a  
**NT3** magnesium alloy-zr  
**NT3** magnox  
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**NT2** steel-nicrmo  
**NT1** phosphorus additions  
**NT1** polonium alloys  
**NT1** potassium alloys  
**NT2** potassium base alloys  
**NT1** rare earth alloys  
**NT2** cerium alloys  
**NT3** cerium additions  
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**NT2** dysprosium alloys  
**NT3** dysprosium additions  
**NT3** dysprosium base alloys  
**NT2** erbium alloys  
**NT3** erbium additions  
**NT3** erbium base alloys  
**NT2** europium alloys  
**NT3** europium additions  
**NT3** europium base alloys  
**NT2** gadolinium alloys  
**NT3** gadolinium additions  
**NT3** gadolinium base alloys  
**NT2** holmium alloys  
**NT3** holmium additions  
**NT3** holmium base alloys  
**NT2** lanthanum alloys  
**NT3** lanthanum additions  
**NT4** alloy-co36cr22ni22w15fe3  
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**NT3** lanthanum base alloys  
**NT3** misch metal  
**NT2** lutetium alloys  
**NT3** lutetium additions  
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**NT2** magnesium alloy-ek  
**NT2** magnesium alloy-ez  
**NT2** neodymium alloys  
**NT3** neodymium additions  
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**NT2** praseodymium alloys  
**NT3** praseodymium base alloys  
**NT2** rare earth additions  
**NT3** cerium additions  
**NT3** dysprosium additions  
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**NT3** gadolinium additions  
**NT3** holmium additions  
**NT3** lanthanum additions  
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**NT3** promethium additions  
**NT3** samarium additions  
**NT3** terbium additions  
**NT3** thulium additions  
**NT3** ytterbium additions  
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**NT3** terbium additions  
**NT3** terbium base alloys  
**NT2** thulium alloys  
**NT3** thulium additions  
**NT3** thulium base alloys  
**NT2** ytterbium alloys  
**NT3** ytterbium base alloys  
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**NT2** rubidium additions  
**NT2** rubidium base alloys  
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**NT2** selenium additions  
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**NT2** colmonoy  
**NT2** duriron  
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**NT3** alloy-hs-31  
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**NT3** alloy-ni78cr21  
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**NT3** alloy-ni94mn3al2  
**NT4** aludel  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** aludur  
**NT3** ascology  
**NT3** bondur  
**NT3** discaloy  
**NT3** duranickel  
**NT3** miduale  
**NT3** ni-hard  
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**NT3** steel-cr16ni9mo2  
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**NT2** tribaloy 800  
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**NT1** strontium alloys  
**NT2** strontium additions  
**NT1** sulfur additions  
**NT2** ni-hard  
**NT1** tellurium alloys  
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**NT3** zircaloy 2  
**NT2** alloy-zr98sn-4  
**NT3** zircaloy 4  
**NT2** bronze  
**NT2** cerrobend alloys  
**NT2** lichtenberg alloy  
**NT2** newton-metal  
**NT2** ounce metal  
**NT2** rose-metal  
**NT2** terne-metal  
**NT2** tin additions  
**NT3** zamak  
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**NT1** transition element alloys  
**NT2** chromium alloys  
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**NT3** alloy-co43cr20fe18ni13w3  
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**NT4** haynes 25 alloy  
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**NT4** incoloy 800h  
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**NT3** alloy-mar-m246  
**NT3** alloy-mn-21  
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**NT3** alloy-mp35n  
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**NT4** incoloy 825  
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**NT4** nimonic pe16  
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**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
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**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
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**NT3** alloy-ni51cr48  
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**NT4** inconel 718  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni54mo17cr16fe6w4  
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**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni60co15cr10al6ti5mo3

- NT4** alloy-in-100  
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**NT4** nichrome  
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**NT4** alloy-in-738  
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**NT5** zircaloy 2  
**NT4** alloy-zr98sn-4  
**NT5** zircaloy 4  
**NT4** steel-crmo  
**NT4** steel-crni  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-ni3cr  
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**NT4** steel-nicrmo  
**NT4** steel-nimocr  
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**NT4** alloy-mo-re-2  
**NT3** chromium-nickel steels  
**NT4** alloy-d-9  
**NT4** carpenter  
**NT4** chromium-nickel-molybdenum steels  
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**NT5** steel-cr16ni15mo3nb  
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**NT6** stainless steel-316l  
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**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2moyalb
- NT6** alloy-a-286  
**NT4** durco  
**NT4** enduro  
**NT4** stainless steel-17-7ph  
**NT4** stainless steel-303  
**NT4** stainless steel-329  
**NT4** stainless steel-ph-15-7-mo  
**NT4** steel-cr17ni13  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-1  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbc  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT4** steel-cr19ni10  
**NT5** stainless steel-304  
**NT4** steel-cr19ni10-1  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-1  
**NT5** stainless steel-308l  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni36cr12ti3al-1  
**NT4** timken alloys  
**NT3** chromium steels  
**NT4** chromium-molybdenum steels  
**NT5** chromium-nickel-molybdenum steels  
**NT6** alloy-m-813  
**NT6** steel-cr11ni10mo2ti-1  
**NT6** steel-cr15ni15motib  
**NT6** steel-cr16ni13monbv  
**NT6** steel-cr16ni15mo3nb  
**NT6** steel-cr16ni16monb  
**NT6** steel-cr16ni8mo2  
**NT7** stainless steel-16-8-2  
**NT6** steel-cr16ni9mo2  
**NT6** steel-cr17ni12mo3  
**NT7** stainless steel-316  
**NT6** steel-cr17ni12mo3-1  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr17ni12monb  
**NT6** steel-cr17ni13mo2ti  
**NT6** steel-cr17ni13mo3ti  
**NT6** steel-ni26cr15ti2moyalb  
**NT7** alloy-a-286  
**NT4** magnet steel-ks  
**NT4** miduale  
**NT4** stainless steel-406  
**NT4** steel-cr10mo2  
**NT4** steel-cr12  
**NT5** stainless steel-403  
**NT4** steel-cr12moniv  
**NT4** steel-cr12mov
- NT5** alloy-ht-9  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr13al  
**NT5** stainless steel-405  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr16ni  
**NT4** steel-cr17cu4ni4nb-1  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr17ni4mo3  
**NT4** steel-cr18  
**NT4** steel-cr25  
**NT5** stainless steel-446  
**NT4** steel-cr9mo  
**NT4** steel-cr9monbv  
**NT3** colmonoy  
**NT3** discaloy  
**NT3** ge 2541  
**NT3** hoskins 875  
**NT3** illium  
**NT3** incoloy 901  
**NT3** kanthal  
**NT3** konel  
**NT3** magnesium alloy-zr  
**NT3** misco metal  
**NT3** ni-hard  
**NT3** ni-o-nel  
**NT3** microbraz 50  
**NT3** nimonic 115  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** sicromo 9m  
**NT3** steel-cd-4mcu  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr5mo  
**NT3** steel-cralnimo  
**NT3** steel-crmo  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-ni4crw  
**NT3** supertherm  
**NT3** sweetalloy  
**NT3** td-nickel chromium  
**NT3** tophet  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT3** vitalium  
**NT2** cobalt alloys  
**NT3** alloy-b-1900  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe53ni29co18  
**NT4** kovar  
**NT3** alloy-mar-m246  
**NT3** alloy-mp35n  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni54mo17cr16fe6w4

- NT4** hastelloy c  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni65mo28fe5  
**NT4** hastelloy b  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** alloy-yundk 25ba  
**NT3** alnico alloys  
**NT3** carboloy  
**NT3** cobalt additions  
**NT4** alloy-ni43fe33cr16mo3  
**NT5** nimonic pe16  
**NT4** alloy-ni62cr16mo15fe3  
**NT5** hastelloy s  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT3** cobalt base alloys  
**NT4** alloy-co43cr20fe18ni13w3  
**NT5** havar  
**NT4** alloy-co50fe50  
**NT5** permendur  
**NT4** alloy-co52fe35v10  
**NT4** haynes alloys  
**NT5** alloy-co36cr22ni22w15fe3  
**NT6** haynes 188 alloy  
**NT5** alloy-co54cr20w15ni10  
**NT6** alloy-hs-25  
**NT6** haynes 25 alloy  
**NT5** alloy-co60cr30w4  
**NT6** stellite 6  
**NT4** mar-m509 alloys  
**NT4** stellite  
**NT5** alloy-co54cr20w15ni10  
**NT6** alloy-hs-25  
**NT6** haynes 25 alloy  
**NT5** alloy-co60cr30w4  
**NT6** stellite 6  
**NT5** alloy-hs-31  
**NT4** tribaloy 400  
**NT4** tribaloy 800  
**NT3** cunico  
**NT3** hiperco  
**NT3** kanthal  
**NT3** konel  
**NT3** magnet steel-ks  
**NT3** nimonic 115  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** supertherm  
**NT3** timken alloys  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT3** vitallium  
**NT2** copper alloys  
**NT3** alloy-al95cu4  
**NT4** duralumin  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni66cu32  
**NT4** monel 400  
**NT3** alloy-yundk 25ba  
**NT3** bondur  
**NT3** copper additions  
**NT4** alloy-ni43fe33cr16mo3
- NT5** nimonic pe16  
**NT4** alloy-ni60co15cr10al6ti5mo3  
**NT5** alloy-in-100  
**NT4** duranickel  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-crmov  
**NT4** steel-crimi  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-ni3cr  
**NT4** steel-ni4crw  
**NT4** steel-nicr  
**NT4** steel-nicrmo  
**NT3** copper base alloys  
**NT4** alloy-cu52ni47  
**NT5** constantan  
**NT4** alloy-cu70ni30  
**NT4** alloy-cu90ni10  
**NT4** brass  
**NT5** brass-alpha  
**NT5** brass-beta  
**NT4** bronze  
**NT4** heusler alloys  
**NT4** manganin  
**NT4** muntz metal  
**NT4** nickeline alloy  
**NT4** ounce metal  
**NT4** tungsten bronze  
**NT3** cunico  
**NT3** heddur  
**NT3** illium  
**NT3** lynite  
**NT3** magnalium  
**NT3** ni-o-nel  
**NT3** steel-cd-4mcu  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-in-787  
**NT3** zamak  
**NT2** gold alloys  
**NT3** gold additions  
**NT3** gold base alloys  
**NT4** palau  
**NT2** hafnium alloys  
**NT3** alloy-c-103  
**NT3** alloy-ta90w8hf  
**NT4** tantalum alloy-t111  
**NT3** hafnium additions  
**NT4** astar 811c  
**NT3** hafnium base alloys  
**NT2** iron alloys  
**NT3** alloy-co36cr22ni22w15fe3  
**NT4** haynes 188 alloy  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co52fe35v10  
**NT3** alloy-co54cr20w15ni10  
**NT4** alloy-hs-25  
**NT4** haynes 25 alloy  
**NT3** alloy-co60cr30w4  
**NT4** stellite 6  
**NT3** alloy-hs-31  
**NT3** alloy-in-102  
**NT3** alloy-khn50mbvyu  
**NT3** alloy-mo-re-1  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni45fe34cr20  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr
- NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni60fe24cr16  
**NT4** nichrome  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni61cr23fe14  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni66cu32  
**NT4** monel 400  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-ni78cr21  
**NT3** alloy-ni79fe16mo4  
**NT3** alloy-ra-333  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** alloy-v87cr9fe3  
**NT3** alloy-yundk 25ba  
**NT3** austenite  
**NT3** colmonoy  
**NT3** ferrite  
**NT3** incoloy 901  
**NT3** iron additions  
**NT4** alloy-al95cu4  
**NT5** duralumin  
**NT4** alloy-ni46cr23co19ti5al4  
**NT5** alloy-in-939  
**NT4** alloy-ni60co15cr10al6ti5mo3  
**NT5** alloy-in-100  
**NT4** alloy-ni73cr20mn3nb3  
**NT5** inconel 82  
**NT4** alloy-ni80cr20  
**NT4** alloy-ti88mo8al3  
**NT4** alloy-ti90al6mo3  
**NT4** alloy-ti90al6v4  
**NT4** alloy-ti91al4mo3  
**NT4** alloy-ti91al5cr2  
**NT4** alloy-zr98sn-2  
**NT5** zircaloy 2  
**NT4** alloy-zr98sn-4  
**NT5** zircaloy 4  
**NT4** aludur  
**NT4** duranickel  
**NT4** rene 95  
**NT4** zamak  
**NT3** iron base alloys  
**NT4** alloy-co50fe50  
**NT5** permendur  
**NT4** alloy-fe40ni35cr22  
**NT4** alloy-fe44ni33cr21  
**NT5** incoloy 800h  
**NT4** alloy-fe46ni33cr21  
**NT5** incoloy 800  
**NT5** incoloy 802  
**NT4** alloy-fe53ni29co18  
**NT5** kovar  
**NT4** alnico alloys  
**NT4** ascology  
**NT4** cast iron  
**NT4** discaloy  
**NT4** duriron  
**NT4** ge 2541  
**NT4** hiperco  
**NT4** hoskins 875

- NT4** invar  
**NT4** kanthal  
**NT4** sicromo 9m  
**NT4** steel-cd-4mcu  
**NT4** steels  
**NT5** austenitic steels  
**NT6** steel-cr15ni15motib  
**NT6** steel-cr16ni13monbv  
**NT6** steel-cr16ni15mo3nb  
**NT6** steel-cr16ni16monb  
**NT6** steel-cr16ni8mo2  
**NT7** stainless steel-16-8-2  
**NT6** steel-cr17ni12mo3  
**NT7** stainless steel-316  
**NT6** steel-cr17ni12mo3-1  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr17ni12monb  
**NT6** steel-cr17ni13  
**NT6** steel-cr17ni13mo2ti  
**NT6** steel-cr17ni13mo3ti  
**NT6** steel-cr17ni7  
**NT7** stainless steel-301  
**NT6** steel-cr18ni10  
**NT7** stainless steel-18-10  
**NT6** steel-cr18ni10-1  
**NT6** steel-cr18ni10ti  
**NT7** stainless steel-321  
**NT6** steel-cr18ni11  
**NT7** steel-x6crni1811  
**NT6** steel-cr18ni11nb  
**NT7** stainless steel-347  
**NT6** steel-cr18ni11nbco  
**NT7** stainless steel-348  
**NT6** steel-cr18ni12  
**NT7** stainless steel-305  
**NT6** steel-cr18ni12ti  
**NT6** steel-cr18ni8  
**NT7** stainless steel-18-8  
**NT6** steel-cr18ni9  
**NT7** stainless steel-302  
**NT6** steel-cr18ni9ti  
**NT6** steel-cr19ni10  
**NT7** stainless steel-304  
**NT6** steel-cr19ni10-1  
**NT7** stainless steel-304l  
**NT6** steel-cr20ni11  
**NT7** stainless steel-308  
**NT6** steel-cr20ni11-1  
**NT7** stainless steel-308l  
**NT6** steel-cr21mn9ni6  
**NT7** stainless steel-21-6-9  
**NT6** steel-cr23ni14  
**NT7** stainless steel-309  
**NT7** stainless steel-309s  
**NT6** steel-cr23ni18  
**NT6** steel-cr25ni20  
**NT7** alloy-hk-40  
**NT7** stainless steel-310  
**NT6** steel-ni25cr20  
**NT7** stainless steel-20-25  
**NT6** steel-ni26cr15ti2movalb  
**NT7** alloy-a-286  
**NT5** carbon steels  
**NT6** steel-astm-a105  
**NT6** steel-astm-a106  
**NT6** steel-astm-a212  
**NT6** steel-astm-a285  
**NT6** steel-astm-a516  
**NT6** steel-astm-a533-b  
**NT6** steel-in-787  
**NT6** steel-sae-1045  
**NT5** croloy  
**NT6** steel-cr13  
**NT7** stainless steel-410  
**NT6** steel-cr16  
**NT7** stainless steel-430  
**NT6** steel-cr18ni10  
**NT7** stainless steel-18-10  
**NT6** steel-cr2mo  
**NT7** steel-astm-a542  
**NT6** steel-cr5mo  
**NT5** ferritic steels  
**NT6** steel-cr12moniv  
**NT6** steel-cr13al  
**NT7** stainless steel-405  
**NT6** steel-cr16  
**NT7** stainless steel-430  
**NT6** steel-cr25  
**NT7** stainless steel-446  
**NT6** steel-cr9mo  
**NT6** steel-cr9monbv  
**NT5** high alloy steels  
**NT6** stainless steels  
**NT7** chromium-nickel steels  
**NT8** alloy-d-9  
**NT8** carpenter  
**NT8** chromium-nickel-molybdenum steels  
**NT9** alloy-m-813  
**NT9** steel-cr11ni10mo2ti-1  
**NT9** steel-cr15ni15motib  
**NT9** steel-cr16ni13monbv  
**NT9** steel-cr16ni15mo3nb  
**NT9** steel-cr16ni16monb  
**NT9** steel-cr16ni8mo2  
**NT10** stainless steel-16-8-2  
**NT9** steel-cr16ni9mo2  
**NT9** steel-cr17ni12mo3  
**NT10** stainless steel-316  
**NT9** steel-cr17ni12mo3-1  
**NT10** stainless steel-316l  
**NT10** stainless steel-zcnd17-13  
**NT9** steel-cr17ni12monb  
**NT9** steel-cr17ni13mo2ti  
**NT9** steel-cr17ni13mo3ti  
**NT9** steel-ni26cr15ti2movalb  
**NT10** alloy-a-286  
**NT8** durco  
**NT8** enduro  
**NT8** stainless steel-17-7ph  
**NT8** stainless steel-303  
**NT8** stainless steel-329  
**NT8** stainless steel-ph-15-7-mo  
**NT8** steel-cr17ni13  
**NT8** steel-cr17ni7  
**NT9** stainless steel-301  
**NT8** steel-cr18ni10  
**NT9** stainless steel-18-10  
**NT8** steel-cr18ni10-1  
**NT8** steel-cr18ni10ti  
**NT9** stainless steel-321  
**NT8** steel-cr18ni11  
**NT9** steel-x6crni1811  
**NT8** steel-cr18ni11nb  
**NT9** stainless steel-347  
**NT8** steel-cr18ni11nbco  
**NT9** stainless steel-348  
**NT8** steel-cr18ni12  
**NT9** stainless steel-305  
**NT8** steel-cr18ni12ti  
**NT8** steel-cr18ni8  
**NT9** stainless steel-18-8  
**NT8** steel-cr18ni9  
**NT9** stainless steel-302  
**NT8** steel-cr18ni9ti  
**NT8** steel-cr19ni10  
**NT9** stainless steel-304  
**NT8** steel-cr19ni10-1  
**NT9** stainless steel-304l  
**NT8** steel-cr20ni11  
**NT9** stainless steel-308  
**NT8** steel-cr20ni11-1  
**NT9** stainless steel-308l  
**NT8** steel-cr23ni14  
**NT9** stainless steel-309  
**NT9** stainless steel-309s  
**NT8** steel-cr23ni18  
**NT8** steel-cr25ni20  
**NT9** alloy-hk-40  
**NT9** stainless steel-310  
**NT8** steel-ni25cr20  
**NT9** stainless steel-20-25  
**NT8** steel-ni36cr12ti3al-1  
**NT8** timken alloys  
**NT7** chromium steels  
**NT8** chromium-molybdenum steels  
**NT9** chromium-nickel-molybdenum steels  
**NT10** alloy-m-813  
**NT10** steel-cr11ni10mo2ti-1  
**NT10** steel-cr15ni15motib  
**NT10** steel-cr16ni13monbv  
**NT10** steel-cr16ni15mo3nb  
**NT10** steel-cr16ni16monb  
**\*NT10** steel-cr16ni8mo2  
**NT10** steel-cr16ni9mo2  
**\*NT10** steel-cr17ni12mo3  
**\*NT10** steel-cr17ni12mo3-1  
**NT10** steel-cr17ni12monb  
**NT10** steel-cr17ni13mo2ti  
**NT10** steel-cr17ni13mo3ti  
**\*NT10** steel-ni26cr15ti2movalb  
**NT8** magnet steel-ks  
**NT8** miduale  
**NT8** stainless steel-406  
**NT8** steel-cr10mo2  
**NT8** steel-cr12  
**NT9** stainless steel-403  
**NT8** steel-cr12moniv  
**NT8** steel-cr12mov  
**NT9** alloy-ht-9  
**NT8** steel-cr13  
**NT9** stainless steel-410  
**NT8** steel-cr13al  
**NT9** stainless steel-405  
**NT8** steel-cr16  
**NT9** stainless steel-430  
**NT8** steel-cr16ni  
**NT8** steel-cr17cu4ni4nb-1  
**NT9** stainless steel-17-4ph  
**NT8** steel-cr17mo  
**NT9** stainless steel-440  
**NT8** steel-cr17ni4mo3  
**NT8** steel-cr18  
**NT8** steel-cr25  
**NT9** stainless steel-446  
**NT8** steel-cr9mo  
**NT8** steel-cr9monbv  
**NT7** low carbon-high alloy steels  
**NT8** steel-cr11ni10mo2ti-1  
**NT8** steel-cr17cu4ni4nb-1  
**NT9** stainless steel-17-4ph  
**NT8** steel-cr17ni12mo3-1  
**NT9** stainless steel-316l  
**NT9** stainless steel-zcnd17-13  
**NT8** steel-cr18ni10-1  
**NT8** steel-cr19ni10-1  
**NT9** stainless steel-304l  
**NT8** steel-cr20ni11-1  
**NT9** stainless steel-308l  
**NT8** steel-ni36cr12ti3al-1  
**NT7** stainless steel-317  
**NT7** stainless steel-318  
**NT7** stainless steel-422  
**NT7** stainless steel-fv-548  
**NT7** stainless steel-jbk-75  
**NT7** stainless steel-m-50  
**NT7** steel-cr21mn9ni6  
**NT8** stainless steel-21-6-9

- NT7** sweetalloy  
**NT5** low alloy steels  
**NT6** steel-astm-a350  
**NT6** steel-astm-a387  
**NT6** steel-astm-a508  
**NT6** steel-astm-a533  
**NT6** steel-cr2mo  
**NT7** steel-astm-a542  
**NT6** steel-cr2moninb  
**NT6** steel-cr2mov  
**NT6** steel-cr2nimov  
**NT6** steel-cr5mo  
**NT6** steel-cralnimo  
**NT6** steel-crmo  
**NT6** steel-crmov  
**NT6** steel-crni  
**NT6** steel-mncumo  
**NT7** steel-astm-a537  
**NT6** steel-mnmo  
**NT7** steel-astm-a302  
**NT6** steel-mnnimo  
**NT7** steel-astm-a533-b  
**NT6** steel-mnnimov  
**NT6** steel-ni3cr  
**NT6** steel-ni3crmo  
**NT7** steel-astm-a543  
**NT6** steel-ni3crmov  
**NT6** steel-ni4crw  
**NT6** steel-nicr  
**NT6** steel-nicrmo  
**NT6** steel-nimocr  
**NT5** manganese steels  
**NT5** martensitic steels  
**NT6** maraging steels  
**NT6** steel-cr10mo2  
**NT6** steel-cr12  
**NT7** stainless steel-403  
**NT6** steel-cr12mov  
**NT7** alloy-ht-9  
**NT6** steel-cr13  
**NT7** stainless steel-410  
**NT6** steel-cr16ni  
**NT6** steel-cr17cu4ni4nb-1  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17mo  
**NT7** stainless steel-440  
**NT6** steel-cr18  
**NT5** nickel steels  
**NT6** sweetalloy  
**NT5** steel-astm-a572  
**NT3** konel  
**NT3** lynite  
**NT3** martensite  
**NT3** misco metal  
**NT3** ni-hard  
**NT3** orthonol  
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**NT3** rene 41  
**NT3** supertherm  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT2** manganese alloys  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-mo-re-1  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni94mn3al2  
**NT4** alumel  
**NT3** alloy-s-816  
**NT3** heusler alloys  
**NT3** manganese additions  
**NT4** alloy-al95cu4  
**NT5** duralumin  
**NT4** alloy-fe40ni35cr22  
**NT4** alloy-fe53ni29co18  
**NT5** kovar  
**NT4** alloy-hs-31  
**NT4** alloy-n28t3  
**NT4** alloy-ni66cu32  
**NT5** monel 400  
**NT4** alloy-ni78cr21  
**NT4** alloy-v-36  
**NT4** ascology  
**NT4** bondur  
**NT4** discaloy  
**NT4** duranickel  
**NT4** duriron  
**NT4** magnesium alloy-az31b  
**NT4** miduale  
**NT4** ni-hard  
**NT4** steel-cr16ni9mo2  
**NT3** manganese base alloys  
**NT3** manganese steels  
**NT3** manganin  
**NT3** stainless steel-zcnd17-13  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnmo  
**NT4** steel-astm-a302  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-mnnimov  
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**NT3** alloy-in-102  
**NT3** alloy-khn50mbvyu  
**NT3** alloy-mar-m246  
**NT3** alloy-mn-21  
**NT3** alloy-mp35n  
**NT3** alloy-n-10m  
**NT3** alloy-n-9m  
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**NT4** nimonic pe16  
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**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
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**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni65cr25mo10  
**NT4** nimonic 86  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni79fe16mo4  
**NT3** alloy-nx-188  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-ti78cr11mo7al3  
**NT3** alloy-ti88mo8al3  
**NT3** alloy-ti89al6mo3  
**NT3** alloy-ti90al6mo3  
**NT3** alloy-ti90mo7al2  
**NT3** alloy-ti91al4mo3  
**NT3** alloy-ti91al5cr2  
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**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2moyalb  
**NT6** alloy-a-286  
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**NT3** illium  
**NT3** incoloy 901  
**NT3** molybdenum additions  
**NT4** alloy-ti90al6  
**NT4** steel-cr12moniv  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-cr5mo  
**NT4** steel-cr9mo  
**NT4** steel-cralnimo  
**NT4** steel-crmo  
**NT4** steel-crmov  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mnmo  
**NT5** steel-astm-a302  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-mnnimov  
**NT4** steel-ni3crmo  
**NT5** steel-astm-a543  
**NT4** steel-ni3crmov  
**NT4** steel-nicrmo  
**NT4** steel-nimocr  
**NT3** molybdenum base alloys  
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**NT5** alloy-tzm  
**NT5** alloy-zm-2a  
**NT4** alloy-mo99b  
**NT3** ni-o-nel  
**NT3** nimonic 115  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** sicromo 9m  
**NT3** stainless steel m-50

- NT3** steel-cd-4mcu  
**NT3** steel-cr10mo2  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr9monbv  
**NT3** steel-in-787  
**NT3** timken alloys  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT3** udimet alloys  
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**NT4** udimet 500  
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**NT2** nickel alloys  
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**NT4** haynes 188 alloy  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co54cr20w15ni10  
**NT4** alloy-hs-25  
**NT4** haynes 25 alloy  
**NT3** alloy-co60cr30w4  
**NT4** stellite 6  
**NT3** alloy-cu52ni47  
**NT4** constantan  
**NT3** alloy-d-979  
**NT3** alloy-fe40ni35cr22  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe46ni33cr21  
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**NT3** alloy-fe53ni29co18  
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**NT3** alloy-n28t3  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** alloy-yundk 25ba  
**NT3** alnico alloys  
**NT3** ascology  
**NT3** chromium-nickel steels  
**NT4** alloy-d-9  
**NT4** carpenter  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
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**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2movalb  
**NT6** alloy-a-286  
**NT4** durco  
**NT4** enduro  
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**NT4** stainless steel-303  
**NT4** stainless steel-329  
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**NT4** steel-cr17ni13  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-1  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT4** steel-cr19ni10  
**NT5** stainless steel-304  
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**NT5** stainless steel-304l  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-1  
**NT5** stainless steel-308l  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni36cr12ti3al-1  
**NT4** timken alloys  
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**NT3** discaloy  
**NT3** invar  
**NT3** manganin  
**NT3** misco metal  
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**NT3** ni-o-nel  
**NT3** nickel additions  
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**NT4** ounce metal  
**NT4** steel-cr12moniv  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cralnimo  
**NT4** steel-crm0  
**NT4** steel-crmov  
**NT4** steel-crni  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-nimocr  
**NT3** nickel base alloys  
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**NT4** alloy-in-102  
**NT4** alloy-in-853  
**NT4** alloy-mar-m246  
**NT4** alloy-mn-21  
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**NT4** alloy-ni43fe30cr22mo3  
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**NT5** astrology  
**NT4** alloy-ni55cr19co11mo10ti3  
**NT5** rene 41  
**NT4** alloy-ni58cr20co14mo4ti3  
**NT5** waspaloy  
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**NT4** alloy-ni78cr21  
**NT4** alloy-ni79fe16mo4  
**NT4** alloy-ni94mn3al2  
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**NT4** alloy-nx-188  
**NT4** alloy-ra-333  
**NT4** chlorimet  
**NT4** chromel  
**NT5** alloy-ni60fe24cr16  
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**NT5** alloy-ni80cr20  
**NT4** colmonoy  
**NT4** duranickel  
**NT4** hastelloys  
**NT5** alloy-ni49cr22fe18mo9  
**NT6** hastelloy x  
**NT5** alloy-ni50cr22fe18mo9  
**NT6** hastelloy xr  
**NT5** alloy-ni54mo17cr16fe6w4  
**NT6** hastelloy c  
**NT5** alloy-ni62cr16mo15fe3  
**NT6** hastelloy s  
**NT5** alloy-ni65mo28fe5  
**NT6** hastelloy b  
**NT5** alloy-ni70mo17cr7fe5  
**NT6** hastelloy n  
**NT6** inor-8  
**NT4** illium  
**NT4** incoloy 901  
**NT4** inconel alloys  
**NT5** alloy-ni41fe40cr16nb3  
**NT6** inconel 706  
**NT5** alloy-ni46cr23co19ti5al4  
**NT6** alloy-in-939  
**NT5** alloy-ni51cr48  
**NT6** inconel 671  
**NT5** alloy-ni53cr19fe19nb5mo3  
**NT6** inconel 718  
**NT5** alloy-ni54cr22co13mo9  
**NT6** inconel 617  
**NT5** alloy-ni59cr30fe9  
**NT6** inconel 690  
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**NT6** alloy-in-100  
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**NT6** alloy-in-738  
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**NT5** alloy-ni61cr23fe14  
**NT5** alloy-ni73cr15fe7ti3  
**NT6** inconel x750  
**NT5** alloy-ni73cr20mn3nb3  
**NT6** inconel 82  
**NT5** alloy-ni74cr13al6mo4  
**NT6** inconel 713c  
**NT5** alloy-ni75cr12al6mo5  
**NT6** inconel 713lc  
**NT5** alloy-ni76cr15fe8  
**NT6** inconel 600  
**NT5** inconel 700  
**NT5** inconel 738  
**NT5** inconel 739  
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**NT4** monel  
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**NT6** monel 400  
**NT4** microbraz 50  
**NT4** nimonic  
**NT5** alloy-ni43fe33cr16mo3  
**NT6** nimonic pe16  
**NT5** alloy-ni50co20cr15al5mo5  
**NT6** nimonic 105  
**NT5** alloy-ni59cr20co17ti2  
**NT5** alloy-ni65cr25mo10  
**NT6** nimonic 86  
**NT5** alloy-ni76cr15fe8  
**NT6** inconel 600  
**NT5** alloy-ni76cr20ti2  
**NT6** nimonic 80a  
**NT5** nimonic 115  
**NT5** nimonic 115a



- NT4** rene-100  
**NT4** rene 80  
**NT4** rene 95  
**NT4** td-nickel chromium  
**NT4** tophet  
**NT4** udimet alloys  
**NT5** alloy-ni53co19cr15mo5al4ti3  
**NT6** udimet 700  
**NT5** udimet 500  
**NT3** nickel steels  
**NT4** sweetalloy  
**NT3** nickeline alloy  
**NT3** orthonol  
**NT3** permalloy  
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**NT3** steel-cd-4mcu  
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**NT4** stainless steel-17-4ph  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr2nimov  
**NT3** steel-in-787  
**NT3** steel-mnnimov  
**NT3** steel-ni3cr  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
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**NT4** inconel 713lc  
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**NT3** alloy-s-816  
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**NT3** alloy-v-36  
**NT3** alloy-zr97nb3  
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**NT5** alloy-in-939  
**NT4** alloy-ni61cr16co9al3ti3w3  
**NT5** alloy-in-738  
**NT4** alloy-ni73cr15fe7ti3  
**NT5** inconel x750  
**NT4** alloy-yundk 25ba  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr17cu4ni4nb-1  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr2moninb  
**NT4** steel-cr9monbv  
**NT3** niobium base alloys  
**NT4** alloy-c-103  
**NT4** alloy-n-10m  
**NT4** alloy-n-9m  
**NT4** alloy-nt25a5  
**NT3** rene 95  
**NT3** steel-in-787  
**NT2** platinum metal alloys  
**NT3** iridium alloys  
**NT4** iridium additions  
**NT4** iridium base alloys  
**NT3** osmium alloys  
**NT4** osmium additions  
**NT4** osmium base alloys  
**NT3** palladium alloys  
**NT4** palau  
**NT4** palladium base alloys  
**NT3** platinum alloys  
**NT4** platinum base alloys  
**NT3** rhodium alloys  
**NT4** rhodium additions  
**NT4** rhodium base alloys  
**NT3** ruthenium alloys  
**NT4** ruthenium additions  
**NT4** ruthenium base alloys  
**NT2** rhenium alloys  
**NT3** rhenium additions  
**NT3** rhenium base alloys  
**NT2** scandium alloys  
**NT3** scandium additions  
**NT3** scandium base alloys  
**NT2** silver alloys  
**NT3** silver additions  
**NT3** silver base alloys  
**NT2** tantalum alloys  
**NT3** alloy-b-1900  
**NT3** alloy-c-103  
**NT3** alloy-mar-m246  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** carboboy  
**NT3** tantalum additions  
**NT4** alloy-n-10m  
**NT3** tantalum base alloys  
**NT4** alloy-ta90w8hf  
**NT5** tantalum alloy-t111  
**NT4** astar 811c  
**NT4** tantalum alloy-t222  
**NT2** technetium alloys  
**NT3** technetium additions  
**NT3** technetium base alloys  
**NT2** titanium alloys  
**NT3** alloy-b-1900  
**NT3** alloy-c-103  
**NT3** alloy-d-979  
**NT3** alloy-in-853  
**NT3** alloy-m-813  
**NT3** alloy-mar-m246  
**NT3** alloy-n28t3  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-nt25a5  
**NT3** carboboy  
**NT3** discaloy  
**NT3** incoloy 901  
**NT3** konel  
**NT3** ni-o-nel  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** stainless steel-jbk-75  
**NT3** steel-cr11ni10mo2ti-1  
**NT3** steel-ni26cr15ti2movalb  
**NT4** alloy-a-286  
**NT3** steel-ni36cr12ti3al-1  
**NT3** titanium additions  
**NT4** alloy-fe44ni33cr21  
**NT5** incoloy 800h  
**NT4** alloy-fe46ni33cr21  
**NT5** incoloy 800  
**NT5** incoloy 802  
**NT4** alloy-in-102  
**NT4** alloy-mo99  
**NT5** alloy-tzm  
**NT5** alloy-zm-2a  
**NT4** alloy-n-10m  
**NT4** alloy-ni43fe30cr22mo3  
**NT5** incoloy 825  
**NT4** alloy-ni51cr48  
**NT5** inconel 671  
**NT4** alloy-ni53cr19fe19nb5mo3  
**NT5** inconel 718  
**NT4** alloy-ni59cr30fe9  
**NT5** inconel 690  
**NT4** alloy-ni61cr22mo9nb4fe3  
**NT5** inconel 625  
**NT4** alloy-ni70mo17cr7fe5  
**NT5** hastelloy n  
**NT5** inor-8  
**NT4** alloy-ni73cr20mn3nb3  
**NT5** inconel 82  
**NT4** alloy-ni74cr13al6mo4  
**NT5** inconel 713c  
**NT4** alloy-ni75cr12al6mo5  
**NT5** inconel 713lc  
**NT4** alloy-ni76cr15fe8  
**NT5** inconel 600  
**NT4** alloy-ni78cr21  
**NT4** duranickel  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni9ti  
**NT3** titanium base alloys  
**NT4** alloy-ti78cr11mo7al3  
**NT4** alloy-ti88mo8al3  
**NT4** alloy-ti89al6mo3  
**NT4** alloy-ti90al6  
**NT4** alloy-ti90al6mo3  
**NT4** alloy-ti90al6v4  
**NT4** alloy-ti90mo7al2  
**NT4** alloy-ti91al4mo3  
**NT4** alloy-ti91al5cr2  
**NT4** alloy-ti99  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT2** tungsten alloys  
**NT3** alloy-c-103  
**NT3** alloy-co36cr22ni22w15fe3  
**NT4** haynes 188 alloy  
**NT3** alloy-co43cr20fe18ni13w3

NT4 havar  
 NT3 alloy-co54cr20w15ni10  
 NT4 alloy-hs-25  
 NT4 haynes 25 alloy  
 NT3 alloy-co60cr30w4  
 NT4 stellite 6  
 NT3 alloy-d-979  
 NT3 alloy-in-102  
 NT3 alloy-khn50mbvyu  
 NT3 alloy-mar-m246  
 NT3 alloy-mn-21  
 NT3 alloy-mo-re-1  
 NT3 alloy-ni54mo17cr16fe6w4  
 NT4 hastelloy c  
 NT3 alloy-ni61cr16co9al3ti3w3  
 NT4 alloy-in-738  
 NT3 alloy-ra-333  
 NT3 alloy-s-590  
 NT3 alloy-s-816  
 NT3 alloy-ta90w8hf  
 NT4 tantalum alloy-t111  
 NT3 alloy-v-36  
 NT3 astar 811c  
 NT3 carboloy  
 NT3 magnet steel-ks  
 NT3 miduale  
 NT3 rene 80  
 NT3 rene 95  
 NT3 supertherm  
 NT3 tungsten additions  
 NT4 alloy-ni49cr22fe18mo9  
 NT5 hastelloy x  
 NT4 alloy-ni50cr22fe18mo9  
 NT5 hastelloy xr  
 NT4 alloy-ni62cr16mo15fe3  
 NT5 hastelloy s  
 NT4 steel-ni4crw  
 NT3 tungsten base alloys  
 NT4 alloy-mo-re-2  
 NT3 tungsten bronze  
 NT3 udimet 500  
 NT2 vanadium alloys  
 NT3 alloy-co52fe35v10  
 NT3 alloy-ti90al6v4  
 NT3 alloy-ti91al4mo3  
 NT3 vanadium additions  
 NT4 alloy-ni54mo17cr16fe6w4  
 NT5 hastelloy c  
 NT4 alloy-ni60co15cr10al6ti5mo3  
 NT5 alloy-in-100  
 NT4 alloy-ni62cr16mo15fe3  
 NT5 hastelloy s  
 NT4 alloy-ni65mo28fe5  
 NT5 hastelloy b  
 NT4 alloy-ti90al6  
 NT4 steel-cr12moniv  
 NT4 steel-cr12mov  
 NT5 alloy-ht-9  
 NT4 steel-cr16ni13monbv  
 NT4 steel-cr2mov  
 NT4 steel-cr2nimov  
 NT4 steel-cr9monbv  
 NT4 steel-crmov  
 NT4 steel-mnnimov  
 NT4 steel-ni26cr15ti2movalb  
 NT5 alloy-a-286  
 NT4 steel-ni3crmo  
 NT5 steel-astm-a543  
 NT4 steel-ni3crmov  
 NT3 vanadium base alloys  
 NT4 alloy-v87cr9fe3  
 NT2 yttrium alloys  
 NT3 alloy-c-103  
 NT3 ge 2541  
 NT3 yttrium base alloys  
 NT2 zirconium alloys  
 NT3 alloy-c-103  
 NT3 alloy-ti89al6mo3  
 NT3 alloy-ti90al6

NT3 alloy-u90nb7zr3  
 NT3 alloy-v87cr9fe3  
 NT3 zirconium additions  
 NT4 alloy-in-102  
 NT4 alloy-mo99  
 NT5 alloy-tzm  
 NT5 alloy-zm-2a  
 NT4 alloy-mo99b  
 NT4 alloy-n-10m  
 NT4 alloy-n-9m  
 NT4 alloy-ni43fe33cr16mo3  
 NT5 nimonic pe16  
 NT4 alloy-ni46cr23co19ti5al4  
 NT5 alloy-in-939  
 NT4 alloy-ni55co17cr15mo5al4ti4  
 NT5 astroloy  
 NT4 alloy-ni58cr20co14mo4ti3  
 NT5 waspaloy  
 NT4 alloy-ni59cr20co17ti2  
 NT4 alloy-ni60co15cr10al6ti5mo3  
 NT5 alloy-in-100  
 NT4 alloy-ni61cr16co9al3ti3w3  
 NT5 alloy-in-738  
 NT4 alloy-ni74cr13al6mo4  
 NT5 inconel 713c  
 NT4 alloy-ni75cr12al6mo5  
 NT5 inconel 713lc  
 NT4 alloy-ni76cr20ti2  
 NT5 nimonic 80a  
 NT4 magnesium alloy-ek  
 NT4 magnesium alloy-ez  
 NT4 magnesium alloy-hk31a  
 NT4 rene 80  
 NT4 rene 95  
 NT3 zirconium base alloys  
 NT4 alloy-zr97nb3  
 NT4 zircaloy  
 NT5 alloy-zr98sn-2  
 NT6 zircaloy 2  
 NT5 alloy-zr98sn-4  
 NT6 zircaloy 4  
 NT1 zinc alloys  
 NT2 brass  
 NT3 brass-alpha  
 NT3 brass-beta  
 NT2 lynite  
 NT2 magnesium alloy-az31b  
 NT2 magnesium alloy-ez  
 NT2 magnesium alloy-zr  
 NT2 muntz metal  
 NT2 ounce metal  
 NT2 zinc additions  
 NT3 nickeline alloy  
 NT2 zinc base alloys  
 NT3 zamak  
 RT alloy systems  
 RT binary mixtures  
 RT metallic glasses  
 RT metals  
 RT semimetals  
 RT solid solutions

### ALLUVIAL DEPOSITS

*Earth, sand, gravel, or other mineral materials transported by and laid down by flowing water.*

BT1 geologic deposits  
 RT clays  
 RT ground water  
 RT placers  
 RT sand  
 RT sediments  
 RT soils  
 RT surface waters

### ALLYL RADICALS

\*BT1 alkyl radicals

### alma-ata wwr-k reactor

INIS: 1984-06-21; ETDE: 1997-08-30  
 USE wwr-k-almaty reactor

### ALMARAZ-1 REACTOR

INIS: 1977-04-07; ETDE: 1977-06-02  
 Almaraz, Caceres, Spain.  
 \*BT1 pwr type reactors

### ALMARAZ-2 REACTOR

INIS: 1977-04-07; ETDE: 1977-06-02  
 Almaraz, Caceres, Spain.  
 \*BT1 pwr type reactors

### almaty wwr-k reactor

INIS: 1997-07-30; ETDE: 1997-08-30  
 USE wwr-k-almaty reactor

### almendro event

1994-10-13  
 A test made during operation toggle.  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

### ALNICO ALLOYS

\*BT1 aluminium alloys  
 \*BT1 cobalt alloys  
 \*BT1 iron base alloys  
 \*BT1 nickel alloys

### ALOE

\*BT1 liliopsida  
 \*BT1 medicinal plants

### ALOUETTE SATELLITES

BT1 satellites

### alpha autoradiography

2000-10-18  
 USE alpha particles  
 USE autoradiography

### ALPHA BEAMS

\*BT1 helium 4 beams  
 RT alpha particles

### ALPHA-BEARING WASTES

INIS: 1979-04-27; ETDE: 1979-05-25  
 UF transuranium wastes  
 UF tru wastes  
 \*BT1 radioactive wastes  
 RT low-level radioactive wastes  
 RT slagging pyrolysis process  
 RT wipp

### ALPHA DECAY

\*BT1 nuclear decay  
 RT alpha decay radioisotopes  
 RT alpha particles  
 RT delayed alpha particles  
 RT gamow barrier  
 RT geiger-nuttall law

### ALPHA DECAY RADIOISOTOPES

1997-06-05

\*BT1 radioisotopes  
 NT1 actinium 206  
 NT1 actinium 207  
 NT1 actinium 208  
 NT1 actinium 209  
 NT1 actinium 210  
 NT1 actinium 211  
 NT1 actinium 212  
 NT1 actinium 213  
 NT1 actinium 214  
 NT1 actinium 215  
 NT1 actinium 216  
 NT1 actinium 217  
 NT1 actinium 218  
 NT1 actinium 219

NT1	actinium 220	NT1	bohrium 265	NT1	europium 148
NT1	actinium 221	NT1	bohrium 266	NT1	fermium 243
NT1	actinium 222	NT1	bohrium 267	NT1	fermium 245
NT1	actinium 223	NT1	bohrium 271	NT1	fermium 246
NT1	actinium 224	NT1	bohrium 272	NT1	fermium 247
NT1	actinium 225	NT1	boron 9	NT1	fermium 248
NT1	actinium 226	NT1	californium 237	NT1	fermium 249
NT1	actinium 227	NT1	californium 239	NT1	fermium 250
NT1	americium 231	NT1	californium 240	NT1	fermium 251
NT1	americium 232	NT1	californium 241	NT1	fermium 252
NT1	americium 237	NT1	californium 242	NT1	fermium 253
NT1	americium 238	NT1	californium 243	NT1	fermium 254
NT1	americium 239	NT1	californium 244	NT1	fermium 255
NT1	americium 240	NT1	californium 245	NT1	fermium 256
NT1	americium 241	NT1	californium 246	NT1	fermium 257
NT1	americium 242	NT1	californium 247	NT1	flerovium 285
NT1	americium 243	NT1	californium 248	NT1	flerovium 286
NT1	astatine 191	NT1	californium 249	NT1	flerovium 287
NT1	astatine 192	NT1	californium 250	NT1	flerovium 288
NT1	astatine 193	NT1	californium 251	NT1	flerovium 289
NT1	astatine 194	NT1	californium 252	NT1	francium 199
NT1	astatine 196	NT1	californium 253	NT1	francium 200
NT1	astatine 197	NT1	californium 254	NT1	francium 201
NT1	astatine 198	NT1	copernicium 277	NT1	francium 202
NT1	astatine 199	NT1	copernicium 285	NT1	francium 203
NT1	astatine 200	NT1	curium 233	NT1	francium 204
NT1	astatine 201	NT1	curium 234	NT1	francium 205
NT1	astatine 202	NT1	curium 235	NT1	francium 206
NT1	astatine 203	NT1	curium 236	NT1	francium 207
NT1	astatine 204	NT1	curium 237	NT1	francium 208
NT1	astatine 205	NT1	curium 238	NT1	francium 209
NT1	astatine 206	NT1	curium 240	NT1	francium 210
NT1	astatine 207	NT1	curium 241	NT1	francium 211
NT1	astatine 208	NT1	curium 242	NT1	francium 212
NT1	astatine 209	NT1	curium 243	NT1	francium 213
NT1	astatine 210	NT1	curium 244	NT1	francium 214
NT1	astatine 211	NT1	curium 245	NT1	francium 215
NT1	astatine 212	NT1	curium 246	NT1	francium 216
NT1	astatine 213	NT1	curium 247	NT1	francium 217
NT1	astatine 214	NT1	curium 248	NT1	francium 218
NT1	astatine 215	NT1	curium 250	NT1	francium 219
NT1	astatine 216	NT1	darmstadtium 267	NT1	francium 220
NT1	astatine 217	NT1	darmstadtium 269	NT1	francium 221
NT1	astatine 218	NT1	darmstadtium 270	NT1	francium 222
NT1	astatine 219	NT1	darmstadtium 271	NT1	francium 223
NT1	astatine 220	NT1	darmstadtium 273	NT1	gadolinium 148
NT1	berkelium 235	NT1	darmstadtium 279	NT1	gadolinium 149
NT1	berkelium 243	NT1	dubnium 255	NT1	gadolinium 150
NT1	berkelium 244	NT1	dubnium 256	NT1	gadolinium 151
NT1	berkelium 245	NT1	dubnium 257	NT1	gadolinium 152
NT1	berkelium 247	NT1	dubnium 258	NT1	gold 171
NT1	berkelium 249	NT1	dubnium 260	NT1	gold 172
NT1	beryllium 8	NT1	dubnium 261	NT1	gold 173
NT1	bismuth 184	NT1	dubnium 262	NT1	gold 174
NT1	bismuth 185	NT1	dubnium 263	NT1	gold 175
NT1	bismuth 186	NT1	dysprosium 150	NT1	gold 176
NT1	bismuth 187	NT1	dysprosium 151	NT1	gold 177
NT1	bismuth 188	NT1	dysprosium 152	NT1	gold 178
NT1	bismuth 189	NT1	dysprosium 153	NT1	gold 179
NT1	bismuth 190	NT1	dysprosium 154	NT1	gold 181
NT1	bismuth 191	NT1	einsteinium 241	NT1	gold 183
NT1	bismuth 192	NT1	einsteinium 242	NT1	gold 184
NT1	bismuth 193	NT1	einsteinium 243	NT1	gold 185
NT1	bismuth 194	NT1	einsteinium 244	NT1	hafnium 156
NT1	bismuth 195	NT1	einsteinium 245	NT1	hafnium 157
NT1	bismuth 196	NT1	einsteinium 246	NT1	hafnium 158
NT1	bismuth 197	NT1	einsteinium 247	NT1	hafnium 159
NT1	bismuth 199	NT1	einsteinium 248	NT1	hafnium 160
NT1	bismuth 201	NT1	einsteinium 249	NT1	hafnium 161
NT1	bismuth 203	NT1	einsteinium 251	NT1	hafnium 162
NT1	bismuth 210	NT1	einsteinium 252	NT1	hafnium 174
NT1	bismuth 211	NT1	einsteinium 253	NT1	hassium 263
NT1	bismuth 212	NT1	einsteinium 254	NT1	hassium 264
NT1	bismuth 213	NT1	einsteinium 255	NT1	hassium 265
NT1	bismuth 214	NT1	erbium 152	NT1	hassium 266
NT1	bohrium 260	NT1	erbium 153	NT1	hassium 267
NT1	bohrium 261	NT1	erbium 154	NT1	hassium 269
NT1	bohrium 262	NT1	erbium 155	NT1	hassium 270
NT1	bohrium 264	NT1	europium 147	NT1	hassium 271

<b>NT1</b> hassium 275	<b>NT1</b> mercury 172	<b>NT1</b> platinum 190
<b>NT1</b> helium 5	<b>NT1</b> mercury 173	<b>NT1</b> plutonium 228
<b>NT1</b> holmium 151	<b>NT1</b> mercury 174	<b>NT1</b> plutonium 229
<b>NT1</b> holmium 152	<b>NT1</b> mercury 175	<b>NT1</b> plutonium 230
<b>NT1</b> holmium 153	<b>NT1</b> mercury 176	<b>NT1</b> plutonium 232
<b>NT1</b> holmium 154	<b>NT1</b> mercury 177	<b>NT1</b> plutonium 233
<b>NT1</b> holmium 155	<b>NT1</b> mercury 178	<b>NT1</b> plutonium 234
<b>NT1</b> iodine 108	<b>NT1</b> mercury 179	<b>NT1</b> plutonium 235
<b>NT1</b> iodine 111	<b>NT1</b> mercury 180	<b>NT1</b> plutonium 236
<b>NT1</b> iridium 164	<b>NT1</b> mercury 181	<b>NT1</b> plutonium 237
<b>NT1</b> iridium 165	<b>NT1</b> mercury 182	<b>NT1</b> plutonium 238
<b>NT1</b> iridium 166	<b>NT1</b> mercury 183	<b>NT1</b> plutonium 239
<b>NT1</b> iridium 167	<b>NT1</b> mercury 184	<b>NT1</b> plutonium 240
<b>NT1</b> iridium 168	<b>NT1</b> mercury 185	<b>NT1</b> plutonium 241
<b>NT1</b> iridium 169	<b>NT1</b> mercury 186	<b>NT1</b> plutonium 242
<b>NT1</b> iridium 170	<b>NT1</b> mercury 187	<b>NT1</b> plutonium 244
<b>NT1</b> iridium 171	<b>NT1</b> mercury 188	<b>NT1</b> polonium 186
<b>NT1</b> iridium 172	<b>NT1</b> moscovium 287	<b>NT1</b> polonium 187
<b>NT1</b> iridium 173	<b>NT1</b> moscovium 288	<b>NT1</b> polonium 188
<b>NT1</b> iridium 174	<b>NT1</b> neodymium 144	<b>NT1</b> polonium 189
<b>NT1</b> iridium 175	<b>NT1</b> neptunium 225	<b>NT1</b> polonium 190
<b>NT1</b> iridium 176	<b>NT1</b> neptunium 226	<b>NT1</b> polonium 191
<b>NT1</b> iridium 177	<b>NT1</b> neptunium 227	<b>NT1</b> polonium 192
<b>NT1</b> lawrencium 251	<b>NT1</b> neptunium 229	<b>NT1</b> polonium 193
<b>NT1</b> lawrencium 252	<b>NT1</b> neptunium 230	<b>NT1</b> polonium 194
<b>NT1</b> lawrencium 253	<b>NT1</b> neptunium 231	<b>NT1</b> polonium 195
<b>NT1</b> lawrencium 254	<b>NT1</b> neptunium 233	<b>NT1</b> polonium 196
<b>NT1</b> lawrencium 255	<b>NT1</b> neptunium 235	<b>NT1</b> polonium 197
<b>NT1</b> lawrencium 256	<b>NT1</b> neptunium 237	<b>NT1</b> polonium 198
<b>NT1</b> lawrencium 257	<b>NT1</b> nihonium 278	<b>NT1</b> polonium 199
<b>NT1</b> lawrencium 258	<b>NT1</b> nihonium 283	<b>NT1</b> polonium 200
<b>NT1</b> lawrencium 259	<b>NT1</b> nihonium 284	<b>NT1</b> polonium 201
<b>NT1</b> lawrencium 260	<b>NT1</b> nobelium 251	<b>NT1</b> polonium 202
<b>NT1</b> lawrencium 264	<b>NT1</b> nobelium 252	<b>NT1</b> polonium 203
<b>NT1</b> lawrencium 265	<b>NT1</b> nobelium 253	<b>NT1</b> polonium 204
<b>NT1</b> lawrencium 266	<b>NT1</b> nobelium 254	<b>NT1</b> polonium 205
<b>NT1</b> lead 178	<b>NT1</b> nobelium 255	<b>NT1</b> polonium 206
<b>NT1</b> lead 180	<b>NT1</b> nobelium 256	<b>NT1</b> polonium 207
<b>NT1</b> lead 181	<b>NT1</b> nobelium 257	<b>NT1</b> polonium 208
<b>NT1</b> lead 182	<b>NT1</b> nobelium 259	<b>NT1</b> polonium 209
<b>NT1</b> lead 183	<b>NT1</b> nobelium 260	<b>NT1</b> polonium 210
<b>NT1</b> lead 184	<b>NT1</b> oganesson 294	<b>NT1</b> polonium 211
<b>NT1</b> lead 185	<b>NT1</b> osmium 161	<b>NT1</b> polonium 212
<b>NT1</b> lead 186	<b>NT1</b> osmium 162	<b>NT1</b> polonium 213
<b>NT1</b> lead 187	<b>NT1</b> osmium 163	<b>NT1</b> polonium 214
<b>NT1</b> lead 188	<b>NT1</b> osmium 164	<b>NT1</b> polonium 215
<b>NT1</b> lead 189	<b>NT1</b> osmium 165	<b>NT1</b> polonium 216
<b>NT1</b> lead 190	<b>NT1</b> osmium 166	<b>NT1</b> polonium 217
<b>NT1</b> lead 191	<b>NT1</b> osmium 167	<b>NT1</b> polonium 218
<b>NT1</b> lead 192	<b>NT1</b> osmium 168	<b>NT1</b> promethium 145
<b>NT1</b> lead 210	<b>NT1</b> osmium 169	<b>NT1</b> protactinium 212
<b>NT1</b> lithium 5	<b>NT1</b> osmium 170	<b>NT1</b> protactinium 213
<b>NT1</b> livermorium 290	<b>NT1</b> osmium 171	<b>NT1</b> protactinium 214
<b>NT1</b> livermorium 291	<b>NT1</b> osmium 172	<b>NT1</b> protactinium 215
<b>NT1</b> livermorium 292	<b>NT1</b> osmium 173	<b>NT1</b> protactinium 216
<b>NT1</b> livermorium 293	<b>NT1</b> osmium 174	<b>NT1</b> protactinium 217
<b>NT1</b> lutetium 155	<b>NT1</b> osmium 186	<b>NT1</b> protactinium 218
<b>NT1</b> lutetium 156	<b>NT1</b> platinum 166	<b>NT1</b> protactinium 219
<b>NT1</b> lutetium 157	<b>NT1</b> platinum 167	<b>NT1</b> protactinium 220
<b>NT1</b> lutetium 158	<b>NT1</b> platinum 168	<b>NT1</b> protactinium 221
<b>NT1</b> lutetium 159	<b>NT1</b> platinum 169	<b>NT1</b> protactinium 222
<b>NT1</b> meitnerium 266	<b>NT1</b> platinum 170	<b>NT1</b> protactinium 223
<b>NT1</b> meitnerium 268	<b>NT1</b> platinum 171	<b>NT1</b> protactinium 224
<b>NT1</b> meitnerium 270	<b>NT1</b> platinum 172	<b>NT1</b> protactinium 225
<b>NT1</b> meitnerium 275	<b>NT1</b> platinum 173	<b>NT1</b> protactinium 226
<b>NT1</b> meitnerium 276	<b>NT1</b> platinum 174	<b>NT1</b> protactinium 227
<b>NT1</b> mendelevium 245	<b>NT1</b> platinum 175	<b>NT1</b> protactinium 228
<b>NT1</b> mendelevium 246	<b>NT1</b> platinum 176	<b>NT1</b> protactinium 229
<b>NT1</b> mendelevium 247	<b>NT1</b> platinum 177	<b>NT1</b> protactinium 230
<b>NT1</b> mendelevium 248	<b>NT1</b> platinum 178	<b>NT1</b> protactinium 231
<b>NT1</b> mendelevium 249	<b>NT1</b> platinum 179	<b>NT1</b> radium 201
<b>NT1</b> mendelevium 250	<b>NT1</b> platinum 180	<b>NT1</b> radium 202
<b>NT1</b> mendelevium 251	<b>NT1</b> platinum 181	<b>NT1</b> radium 203
<b>NT1</b> mendelevium 255	<b>NT1</b> platinum 182	<b>NT1</b> radium 204
<b>NT1</b> mendelevium 256	<b>NT1</b> platinum 183	<b>NT1</b> radium 205
<b>NT1</b> mendelevium 257	<b>NT1</b> platinum 184	<b>NT1</b> radium 206
<b>NT1</b> mendelevium 258	<b>NT1</b> platinum 185	<b>NT1</b> radium 207
<b>NT1</b> mendelevium 259	<b>NT1</b> platinum 186	<b>NT1</b> radium 208
<b>NT1</b> mercury 171	<b>NT1</b> platinum 188	<b>NT1</b> radium 209

**NT1** radium 210  
**NT1** radium 211  
**NT1** radium 212  
**NT1** radium 213  
**NT1** radium 214  
**NT1** radium 215  
**NT1** radium 216  
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**NT1** radium 223  
**NT1** radium 224  
**NT1** radium 226  
**NT1** radon 193  
**NT1** radon 194  
**NT1** radon 195  
**NT1** radon 197  
**NT1** radon 198  
**NT1** radon 199  
**NT1** radon 200  
**NT1** radon 201  
**NT1** radon 202  
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**NT1** radon 218  
**NT1** radon 219  
**NT1** radon 220  
**NT1** radon 221  
**NT1** radon 222  
**NT1** rhenium 160  
**NT1** rhenium 161  
**NT1** rhenium 162  
**NT1** rhenium 163  
**NT1** rhenium 164  
**NT1** rhenium 165  
**NT1** rhenium 166  
**NT1** rhenium 167  
**NT1** rhenium 168  
**NT1** rhenium 169  
**NT1** roentgenium 272  
**NT1** roentgenium 273  
**NT1** roentgenium 274  
**NT1** roentgenium 279  
**NT1** roentgenium 280  
**NT1** rutherfordium 253  
**NT1** rutherfordium 254  
**NT1** rutherfordium 255  
**NT1** rutherfordium 256  
**NT1** rutherfordium 257  
**NT1** rutherfordium 258  
**NT1** rutherfordium 259  
**NT1** rutherfordium 261  
**NT1** samarium 146  
**NT1** samarium 147  
**NT1** samarium 148  
**NT1** seaborgium 258  
**NT1** seaborgium 259  
**NT1** seaborgium 260  
**NT1** seaborgium 261  
**NT1** seaborgium 262  
**NT1** seaborgium 263  
**NT1** seaborgium 264  
**NT1** seaborgium 265

**NT1** seaborgium 266  
**NT1** seaborgium 268  
**NT1** seaborgium 270  
**NT1** seaborgium 271  
**NT1** seaborgium 272  
**NT1** tantalum 157  
**NT1** tantalum 158  
**NT1** tantalum 159  
**NT1** tantalum 160  
**NT1** tantalum 161  
**NT1** tantalum 163  
**NT1** tantalum 164  
**NT1** tellurium 105  
**NT1** tellurium 106  
**NT1** tellurium 107  
**NT1** tellurium 108  
**NT1** tellurium 109  
**NT1** tellurium 110  
**NT1** terbium 149  
**NT1** terbium 151  
**NT1** thallium 177  
**NT1** thallium 178  
**NT1** thallium 179  
**NT1** thallium 180  
**NT1** thallium 181  
**NT1** thallium 182  
**NT1** thallium 183  
**NT1** thallium 184  
**NT1** thallium 185  
**NT1** thallium 186  
**NT1** thallium 187  
**NT1** thorium 209  
**NT1** thorium 210  
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**NT1** thorium 229  
**NT1** thorium 230  
**NT1** thorium 232  
**NT1** thulium 153  
**NT1** thulium 154  
**NT1** thulium 155  
**NT1** thulium 156  
**NT1** thulium 157  
**NT1** tungsten 158  
**NT1** tungsten 159  
**NT1** tungsten 160  
**NT1** tungsten 161  
**NT1** tungsten 162  
**NT1** tungsten 163  
**NT1** tungsten 164  
**NT1** tungsten 165  
**NT1** tungsten 166  
**NT1** uranium 217  
**NT1** uranium 218  
**NT1** uranium 219  
**NT1** uranium 220  
**NT1** uranium 221  
**NT1** uranium 222  
**NT1** uranium 223  
**NT1** uranium 224  
**NT1** uranium 225  
**NT1** uranium 226  
**NT1** uranium 227

**NT1** uranium 228  
**NT1** uranium 229  
**NT1** uranium 230  
**NT1** uranium 231  
**NT1** uranium 232  
**NT1** uranium 233  
**NT1** uranium 234  
**NT1** uranium 235  
**NT1** uranium 236  
**NT1** uranium 238  
**NT1** xenon 109  
**NT1** xenon 110  
**NT1** xenon 111  
**NT1** xenon 112  
**NT1** ytterbium 154  
**NT1** ytterbium 155  
**NT1** ytterbium 156  
**NT1** ytterbium 157  
**NT1** ytterbium 158  
*RT* alpha decay

#### ALPHA DETECTION

*\*BT1* charged particle detection  
*RT* alpha dosimetry  
*RT* alpha spectrometers  
*RT* alpha spectroscopy

#### alpha device

1996-07-16

(Until July 1996 this was a valid descriptor.)

*USE* tlp devices

#### ALPHA DOSIMETRY

*BT1* dosimetry  
*RT* alpha detection

#### alpha-nitroso-beta-naphthol

*USE* 1-nitroso-2-naphthol

#### alpha particle model

*USE* cluster model

#### ALPHA PARTICLES

*Emitted by nuclei.*

*UF* alpha autoradiography  
*BT1* charged particles  
*\*BT1* ionizing radiations  
**NT1** cosmic alpha particles  
**NT1** delayed alpha particles  
**NT1** solar alpha particles  
*RT* alpha beams  
*RT* alpha decay  
*RT* alpha sources  
*RT* alpha spectra  
*RT* geiger-nuttall law  
*RT* helium ash  
*RT* helium ions

#### ALPHA REACTIONS

*UF* helium 4 reactions  
*\*BT1* charged-particle reactions

#### ALPHA SOURCES

*BT1* ion sources  
*\*BT1* particle sources  
*RT* alpha particles

#### ALPHA SPECTRA

*BT1* spectra  
*RT* alpha particles

#### ALPHA SPECTROMETERS

*\*BT1* spectrometers  
*RT* alpha detection

#### alpha spectrometry

*INIS: 1975-10-23; ETDE: 2002-06-07*

*USE* alpha spectroscopy

#### ALPHA SPECTROSCOPY

*UF* alpha spectrometry  
*BT1* spectroscopy

RT alpha detection

## ALPHA-TRANSFER REACTIONS

\*BT1 four-nucleon transfer reactions

## ALPS

BT1 mountains

RT albania

RT austria

RT croatia

RT federal republic of germany

RT france

RT italy

RT slovenia

RT switzerland

## ALRR REACTOR

Ames Laboratory, Iowa State Univ., Ames, Iowa, USA. Shut down in 1977.

UF ames laboratory research reactor

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

## als storage ring

INIS: 1992-08-17; ETDE: 1992-06-11

USE advanced light source

## ALTAMAHA RIVER

INIS: 2000-04-12; ETDE: 1980-12-08

\*BT1 rivers

RT georgia (u.s. state of)

RT hydroelectric power plants

## alternate fuels

INIS: 2000-04-12; ETDE: 1979-03-29

See specific fuel headings, e.g., gasoline, hydrogen fuels, etc.

SEE fuel substitution

SEE synthetic fuels

## ALTERNATING CURRENT

UF current (alternating)

\*BT1 electric currents

RT alternators

RT parametric instabilities

## alternating current systems

INIS: 1991-12-17; ETDE: 2002-06-07

USE ac systems

## ALTERNATIVE FUELS

2011-01-25

BT1 fuels

NT1 biofuels

NT2 biodiesel fuels

NT2 wood fuels

NT1 refuse derived fuels

NT1 solvent-refined coal

NT1 synthetic fuels

NT2 alcohol fuels

NT3 ethanol fuels

NT3 methanol fuels

NT2 hydrogen fuels

NT2 pyrolytic oils

NT2 synthetic petroleum

RT bioethanol

RT biomass

RT fuel substitution

## ALTERNATIVE WORK SCHEDULES

INIS: 2000-04-12; ETDE: 1984-05-08

UF compressed work week

UF flexitime

UF part-time work schedules

UF shift work

BT1 administrative procedures

RT personnel

RT working days

## ALTERNATORS

\*BT1 electric generators

RT alternating current

RT automotive accessories

## althein

USE asparagine

## ALTIMETERS

BT1 measuring instruments

## ALTITUDE

INIS: 1996-08-05; ETDE: 1993-08-10

(Until July 1996 this concept was indexed to LEVELS.)

RT height

RT levels

RT sun charts

## alto lazio-1 reactor

INIS: 1985-03-15; ETDE: 1985-04-09

USE montalto di castro-1 reactor

## alto lazio-2 reactor

INIS: 1985-03-15; ETDE: 1985-04-09

USE montalto di castro-2 reactor

## ALUDUR

2000-04-12

\*BT1 aluminium base alloys

\*BT1 iron additions

\*BT1 silicon additions

## ALUMEL

1993-10-03

\*BT1 alloy-ni94mn3al2

## ALUMINATES

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 aluminium compounds

BT1 oxygen compounds

RT aluminium oxides

## aluminia

INIS: 1975-09-01; ETDE: 1979-05-03

USE aluminium oxides

## ALUMINIUM

UF aluminium

\*BT1 metals

RT lime-soda sinter process

RT sintered aluminium powders

## ALUMINIUM 21

2007-09-25

\*BT1 aluminium isotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

## ALUMINIUM 22

INIS: 1977-06-13; ETDE: 1977-10-19

\*BT1 aluminium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

## ALUMINIUM 23

\*BT1 aluminium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

## ALUMINIUM 24

\*BT1 aluminium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

## ALUMINIUM 25

\*BT1 aluminium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

## ALUMINIUM 25 TARGET

INIS: 1979-04-27; ETDE: 1979-05-25

BT1 targets

## ALUMINIUM 26

\*BT1 aluminium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 years living radioisotopes

RT aluminium 26 beams

## ALUMINIUM 26 BEAMS

2014-04-25

\*BT1 radioactive ion beams

RT aluminium 26

## ALUMINIUM 26 TARGET

INIS: 1984-06-21; ETDE: 1982-11-08

BT1 targets

## ALUMINIUM 27

\*BT1 aluminium isotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 stable isotopes

RT aluminium 27 beams

## ALUMINIUM 27 BEAMS

INIS: 1977-01-25; ETDE: 1977-04-13

\*BT1 ion beams

RT aluminium 27

## ALUMINIUM 27 REACTIONS

INIS: 1978-08-30; ETDE: 1978-10-19

\*BT1 heavy ion reactions

## ALUMINIUM 27 TARGET

ETDE: 1976-07-09

BT1 targets

## ALUMINIUM 28

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

## ALUMINIUM 28 TARGET

INIS: 1979-04-27; ETDE: 1979-05-25

BT1 targets

## ALUMINIUM 29

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

## ALUMINIUM 30

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

## ALUMINIUM 31

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ALUMINIUM 32**

- \*BT1 aluminium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ALUMINIUM 33**

- \*BT1 aluminium isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

**ALUMINIUM 34**

*INIS: 1977-10-17; ETDE: 1977-08-09*

- \*BT1 aluminium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ALUMINIUM 35**

*INIS: 1979-09-18; ETDE: 1979-04-11*

- \*BT1 aluminium isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

**ALUMINIUM 36**

*INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 aluminium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei

**ALUMINIUM 37**

*INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 aluminium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

**ALUMINIUM 38**

*INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 aluminium isotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei

**ALUMINIUM 39**

*INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 aluminium isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

**ALUMINIUM 40**

*2005-01-19*

- \*BT1 aluminium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ALUMINIUM 41**

*2007-09-25*

- \*BT1 aluminium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ALUMINIUM 42**

*2007-09-25*

- \*BT1 aluminium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ALUMINIUM ADDITIONS**

*1996-11-13*

*Alloys containing not more than 1% Al are listed here.*

- \*BT1 aluminium alloys
- NT1 alloy-fe44ni33cr21

- NT2 incoloy 800h
- NT1 alloy-fe46ni33cr21
- NT2 incoloy 800
- NT2 incoloy 802
- NT1 alloy-in-102
- NT1 alloy-ni43fe30cr22mo3
- NT2 incoloy 825
- NT1 alloy-ni53cr19fe19nb5mo3
- NT2 inconel 718
- NT1 alloy-ni54cr22co13mo9
- NT2 inconel 617
- NT1 alloy-ni61cr22mo9nb4fe3
- NT2 inconel 625
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 alloy-ni70mo17cr7fe5
- NT2 hastelloy n
- NT2 inor-8
- NT1 alloy-ni73cr15fe7ti3
- NT2 inconel x750
- NT1 alloy-ni76cr15fe8
- NT2 inconel 600
- NT1 alloy-ni77cr20ti2
- NT1 alloy-ni78cr21
- NT1 alloy-ni80cr20
- NT1 discaloy
- NT1 incoloy 901
- NT1 steel-cr13al
- NT2 stainless steel-405
- NT1 steel-cranimo
- NT1 steel-ni26cr15ti2moyalb
- NT2 alloy-a-286
- NT1 steel-ni36cr12ti3al-1

**ALUMINIUM-AIR BATTERIES**

*INIS: 2000-04-12; ETDE: 1980-03-04*

- \*BT1 metal-gas batteries

**ALUMINIUM ALLOYS**

*1996-11-13*

*Alloys containing more than 1% Al.*

- UF alloy-ni78cr16al4
- UF inconel 702
- UF sichromal alloys
- BT1 alloys
- NT1 alloy-b-1900
- NT1 alloy-d-979
- NT1 alloy-in-853
- NT1 alloy-khn50mbvyu
- NT1 alloy-m-813
- NT1 alloy-mar-m246
- NT1 alloy-mn-21
- NT1 alloy-ni43fe33cr16mo3
- NT2 nimonic pe16
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni50co20cr15al5mo5
- NT2 nimonic 105
- NT1 alloy-ni53co19cr15mo5al4ti3
- NT2 udimet 700
- NT1 alloy-ni55co17cr15mo5al4ti4
- NT2 astroloy
- NT1 alloy-ni55cr19co11mo10ti3
- NT2 rene 41
- NT1 alloy-ni58cr20co14mo4ti3
- NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni74cr13al6mo4
- NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
- NT2 inconel 713c
- NT1 alloy-ni76cr20ti2
- NT2 nimonic 80a
- NT1 alloy-ni94mn3al2
- NT2 aludel
- NT1 alloy-nt25a5

- NT1 alloy-nx-188
- NT1 alloy-ti78cr11mo7al3
- NT1 alloy-ti88mo8al3
- NT1 alloy-ti89al6mo3
- NT1 alloy-ti90al6
- NT1 alloy-ti90al6mo3
- NT1 alloy-ti90al6v4
- NT1 alloy-ti90mo7al2
- NT1 alloy-ti91al4mo3
- NT1 alloy-ti91al5cr2
- NT1 alloy-yundk 25ba
- NT1 alnico alloys
- NT1 aluminium additions
- NT2 alloy-fe44ni33cr21
- NT3 incoloy 800h
- NT2 alloy-fe46ni33cr21
- NT3 incoloy 800
- NT3 incoloy 802
- NT2 alloy-in-102
- NT2 alloy-ni43fe30cr22mo3
- NT3 incoloy 825
- NT2 alloy-ni53cr19fe19nb5mo3
- NT3 inconel 718
- NT2 alloy-ni54cr22co13mo9
- NT3 inconel 617
- NT2 alloy-ni61cr22mo9nb4fe3
- NT3 inconel 625
- NT2 alloy-ni62cr16mo15fe3
- NT3 hastelloy s
- NT2 alloy-ni70mo17cr7fe5
- NT3 hastelloy n
- NT3 inor-8
- NT2 alloy-ni73cr15fe7ti3
- NT3 inconel x750
- NT2 alloy-ni76cr15fe8
- NT3 inconel 600
- NT2 alloy-ni77cr20ti2
- NT2 alloy-ni78cr21
- NT2 alloy-ni80cr20
- NT2 discaloy
- NT2 incoloy 901
- NT2 steel-cr13al
- NT3 stainless steel-405
- NT2 steel-cranimo
- NT2 steel-ni26cr15ti2moyalb
- NT3 alloy-a-286
- NT2 steel-ni36cr12ti3al-1
- NT1 aluminium base alloys
- NT2 alloy-al95cu4
- NT3 duralumin
- NT2 aludur
- NT2 bondur
- NT2 duranialum
- NT2 heddur
- NT2 lynite
- NT2 magnalium
- NT1 duranickel
- NT1 ge 2541
- NT1 heusler alloys
- NT1 hoskins 875
- NT1 kanthal
- NT1 magnesium alloy-az31b
- NT1 nimonic 115
- NT1 rene-100
- NT1 rene 80
- NT1 rene 95
- NT1 stainless steel-17-7ph
- NT1 zamak

**ALUMINIUM ARSENIDE SOLAR CELLS**

*INIS: 1992-05-28; ETDE: 1981-07-18*

- \*BT1 solar cells

**ALUMINIUM ARSENIDES**

- BT1 aluminium compounds
- \*BT1 arsenides

**ALUMINIUM BASE ALLOYS**

*UF alloy-1915*

*UF alloy-214x*  
*SF alloy-vad23*  
 \*BT1 aluminium alloys  
 NT1 alloy-al95cu4  
 NT2 duralumin  
 NT1 aludur  
 NT1 bondur  
 NT1 duranalium  
 NT1 heddur  
 NT1 lynite  
 NT1 magnalium

**ALUMINIUM BORIDES**

BT1 aluminium compounds  
 \*BT1 borides

**ALUMINIUM BROMIDES**

\*BT1 aluminium halides  
 \*BT1 bromides

**ALUMINIUM CARBIDES**

BT1 aluminium compounds  
 \*BT1 carbides

**ALUMINIUM CHLORIDES**

\*BT1 aluminium halides  
 \*BT1 chlorides

**ALUMINIUM COMPLEXES**

BT1 complexes

**ALUMINIUM COMPOUNDS**

NT1 aluminates  
 NT1 aluminium arsenides  
 NT1 aluminium borides  
 NT1 aluminium carbides  
 NT1 aluminium halides  
 NT2 aluminium bromides  
 NT2 aluminium chlorides  
 NT2 aluminium fluorides  
 NT2 aluminium iodides  
 NT1 aluminium hydrides  
 NT1 aluminium hydroxides  
 NT1 aluminium nitrates  
 NT1 aluminium nitrides  
 NT1 aluminium oxides  
 NT1 aluminium perchlorates  
 NT1 aluminium phosphates  
 NT1 aluminium phosphides  
 NT1 aluminium selenides  
 NT1 aluminium silicates  
 NT1 aluminium silicides  
 NT1 aluminium sulfates  
 NT1 aluminium sulfides  
 NT1 aluminium tellurides  
 NT1 aluminium tungstates  
 RT dawsonite

**ALUMINIUM FLUORIDES**

\*BT1 aluminium halides  
 \*BT1 fluorides

**ALUMINIUM HALIDES**

2012-07-19

BT1 aluminium compounds  
 \*BT1 halides  
 NT1 aluminium bromides  
 NT1 aluminium chlorides  
 NT1 aluminium fluorides  
 NT1 aluminium iodides

**ALUMINIUM HYDRIDES**

BT1 aluminium compounds  
 \*BT1 hydrides

**ALUMINIUM HYDROXIDES**

BT1 aluminium compounds  
 \*BT1 hydroxides  
 RT bauxite  
 RT gibbsite  
 RT nordstrandite

**ALUMINIUM IODIDES**

\*BT1 aluminium halides  
 \*BT1 iodides

**ALUMINIUM IONS**

\*BT1 ions

**ALUMINIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 aluminium 21  
 NT1 aluminium 22  
 NT1 aluminium 23  
 NT1 aluminium 24  
 NT1 aluminium 25  
 NT1 aluminium 26  
 NT1 aluminium 27  
 NT1 aluminium 28  
 NT1 aluminium 29  
 NT1 aluminium 30  
 NT1 aluminium 31  
 NT1 aluminium 32  
 NT1 aluminium 33  
 NT1 aluminium 34  
 NT1 aluminium 35  
 NT1 aluminium 36  
 NT1 aluminium 37  
 NT1 aluminium 38  
 NT1 aluminium 39  
 NT1 aluminium 40  
 NT1 aluminium 41  
 NT1 aluminium 42

**ALUMINIUM NITRATES**

BT1 aluminium compounds  
 \*BT1 nitrates

**ALUMINIUM NITRIDES**

BT1 aluminium compounds  
 \*BT1 nitrides

**ALUMINIUM ORES**

ETDE: 1975-09-11

BT1 ores  
 NT1 bauxite

**ALUMINIUM OXIDES**

*UF alumina*  
*UF sialon*  
*UF yttrium aluminium garnets*  
 BT1 aluminium compounds  
 \*BT1 oxides  
 RT aluminates  
 RT chrysoberyl  
 RT corundum  
 RT hollandite  
 RT integrated in-situ process  
 RT oxide minerals  
 RT spinels

**ALUMINIUM PERCHLORATES**

INIS: 1989-02-24; ETDE: 1989-03-20

BT1 aluminium compounds  
 \*BT1 perchlorates

**ALUMINIUM PHOSPHATES**

1996-06-26

BT1 aluminium compounds  
 \*BT1 phosphates  
 RT phosphate minerals  
 RT sabugalite

**ALUMINIUM PHOSPHIDES**

INIS: 1983-02-03; ETDE: 1980-02-11

BT1 aluminium compounds  
 \*BT1 phosphides

**ALUMINIUM SELENIDES**

INIS: 1991-09-16; ETDE: 1978-09-13

BT1 aluminium compounds  
 \*BT1 selenides

**ALUMINIUM SILICATES**

BT1 aluminium compounds  
 \*BT1 silicates  
 RT epidotes  
 RT kaolinite  
 RT orthoclase  
 RT petalite  
 RT pollucite  
 RT pyrophyllite  
 RT silicate minerals  
 RT smectite  
 RT tourmaline  
 RT vermiculite

**ALUMINIUM SILICIDES**

INIS: 1977-03-01; ETDE: 1975-10-28

BT1 aluminium compounds  
 \*BT1 silicides

**ALUMINIUM SULFATES**

BT1 aluminium compounds  
 \*BT1 sulfates  
 RT alunite  
 RT sulfate minerals

**ALUMINIUM SULFIDES**

BT1 aluminium compounds  
 \*BT1 sulfides

**ALUMINIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1975-09-11

BT1 aluminium compounds  
 \*BT1 tellurides

**ALUMINIUM TUNGSTATES**

INIS: 1979-09-18; ETDE: 1979-10-23

BT1 aluminium compounds  
 \*BT1 tungstates

**aluminon**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE hydroxy acids  
 USE triphenylmethane dyes

**aluminum**

INIS: 2000-04-12; ETDE: 1981-03-16

USE aluminium

**ALUNITE**

2000-04-12

*A mineral, rhombohedral, usually in white, gray or pink masses in hydrothermally altered feldspathic rock.*

\*BT1 sulfate minerals  
 RT aluminium sulfates

**alveoli (dental)**

USE jaw

**alveoli (pulmonary)**

USE lungs

**ALVITE**

2000-04-12

\*BT1 silicate minerals  
 RT zirconium silicates

**am-1 reactor**

USE aps reactor

**amalgams**

USE mercury alloys

**AMAZON RIVER**

INIS: 1982-06-09; ETDE: 1977-08-09

\*BT1 rivers  
 RT brazil  
 RT peru

**AMBER**

\*BT1 other organic compounds



**amberlite**

USE organic ion exchangers

**AMBIENT DOSE EQUIVALENTS**

2018-02-22

BT1 dose equivalents  
RT dosimetry  
RT personnel monitoring

**AMBIENT TEMPERATURE**

INIS: 1993-07-06; ETDE: 1976-03-22

The temperature of the environment.

UF atmospheric temperature  
UF environmental temperature  
UF global temperature  
UF temperature (ambient)  
UF temperature (atmospheric)  
UF temperature (global)  
RT climate models  
RT climatic change  
RT nuclear winter  
RT outdoors  
RT temperature control  
RT temperature dependence  
RT temperature distribution  
RT temperature gradients  
RT temperature measurement  
RT temperature range

**AMBIPLASMA**

Containing both matter and antimatter.

BT1 plasma  
RT antimatter  
RT matter

**AMBIPOLAR DIFFUSION**

BT1 diffusion  
RT electron drift  
RT ion drift  
RT plasma drift

**AMBROSIA LAKE**

\*BT1 lakes

**AMCHITKA ISLAND AREA**

\*BT1 aleutian islands  
RT alaska

**amdahl computers**

INIS: 2000-04-12; ETDE: 1977-09-19

(Prior to March 1997 this was a valid ETDE descriptor.)

USE computers

**ameba**

USE amoeba

**AMENDMENTS**

INIS: 1999-01-28; ETDE: 1979-12-10

RT laws  
RT legal aspects  
RT legislation  
RT regulations

**amenorrhea**

USE menstruation disorders

**american blacks**

INIS: 2000-04-12; ETDE: 1981-03-17

USE black americans

**american hispanics**

INIS: 2000-04-12; ETDE: 1982-01-21

USE hispanic americans

**AMERICAN INDIANS**

INIS: 1999-04-30; ETDE: 1977-11-29

(From January 1979 to March 1997 INDIAN RESERVATIONS was a valid ETDE descriptor.)

UF indians (american)  
SF indian reservations

\*BT1 indigenous peoples

\*BT1 minority groups

**american orientals**

INIS: 2000-04-12; ETDE: 1982-01-21

USE oriental americans

**AMERICAN SAMOA**

INIS: 1993-10-01; ETDE: 1979-09-26

BT1 islands  
\*BT1 usa  
RT pacific ocean

**AMERICIUM**

\*BT1 actinides  
\*BT1 transplutonium elements  
RT sesame process

**AMERICIUM 231**

2007-09-25

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 americium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**AMERICIUM 232**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 americium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**AMERICIUM 233**

2001-01-30

\*BT1 actinide nuclei  
\*BT1 americium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**AMERICIUM 234**

\*BT1 actinide nuclei  
\*BT1 americium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**AMERICIUM 235**

INIS: 1997-06-05; ETDE: 1997-02-10

\*BT1 actinide nuclei  
\*BT1 americium isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**AMERICIUM 236**

INIS: 1997-02-07; ETDE: 1977-11-09

\*BT1 actinide nuclei  
\*BT1 americium isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**AMERICIUM 237**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 americium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 spontaneous fission radioisotopes

**AMERICIUM 238**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 americium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 spontaneous fission radioisotopes

**AMERICIUM 239**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 americium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 spontaneous fission radioisotopes

**AMERICIUM 240**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 americium isotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 spontaneous fission radioisotopes

**AMERICIUM 241**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 americium isotopes  
\*BT1 odd-even nuclei  
\*BT1 spontaneous fission radioisotopes  
\*BT1 years living radioisotopes

**AMERICIUM 241 TARGET**

ETDE: 1976-07-09

BT1 targets

**AMERICIUM 242**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 americium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei  
\*BT1 spontaneous fission radioisotopes  
\*BT1 years living radioisotopes

**AMERICIUM 242 TARGET**

ETDE: 1976-07-09

BT1 targets

**AMERICIUM 243**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 americium isotopes  
\*BT1 odd-even nuclei  
\*BT1 spontaneous fission radioisotopes  
\*BT1 years living radioisotopes

**AMERICIUM 243 TARGET**

ETDE: 1976-07-09

BT1 targets

**AMERICIUM 244**

\*BT1 actinide nuclei  
\*BT1 americium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 spontaneous fission radioisotopes

**AMERICIUM 245**

\*BT1 actinide nuclei  
\*BT1 americium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 spontaneous fission radioisotopes

**AMERICIUM 246**

\*BT1 actinide nuclei  
\*BT1 americium isotopes  
\*BT1 beta-minus decay radioisotopes

- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 247**

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**AMERICIUM 248**

2007-09-25

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**AMERICIUM 249**

2007-09-25

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**americium additions**

1996-07-16

*Alloys containing not more than 1% Am.*

(Until July 1996 this was a valid descriptor.)

- SEE americium alloys
- SEE americium compounds

**AMERICIUM ALLOYS**

1996-07-16

*Alloys containing more than 1% Am.*

- UF americium base alloys*
- SF americium additions*
- \*BT1 actinide alloys

**AMERICIUM ARSENIDES***INIS: 1996-07-16; ETDE: 1976-12-16*

(From July 1996 to February 2008 AMERICIUM COMPOUNDS + ARSENIDES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 arsenides

**americium base alloys**

1996-07-16

(Until July 1996 this was a valid descriptor.)

- USE americium alloys

**AMERICIUM BROMIDES**

1997-01-28

(From October 1996 to September 2007

AMERICIUM COMPOUNDS + BROMIDES was used for this concept.)

- \*BT1 americium halides
- \*BT1 bromides

**AMERICIUM CARBIDES**

1996-07-16

(From July 1996 to November 2007

AMERICIUM COMPOUNDS + CARBIDES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 carbides

**AMERICIUM CARBONATES**

- \*BT1 americium compounds
- \*BT1 carbonates

**AMERICIUM CHLORIDES**

- \*BT1 americium halides
- \*BT1 chlorides

**AMERICIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**AMERICIUM COMPOUNDS**

1996-11-13

(Prior to August 1996 AMERICIUM

ADDITIONS was a valid ETDE descriptor.)

*SF americium additions*

- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 americium arsenides
- NT1 americium carbides
- NT1 americium carbonates
- NT1 americium halides
- NT2 americium bromides
- NT2 americium chlorides
- NT2 americium fluorides
- NT2 americium iodides
- NT1 americium hydrides
- NT1 americium hydroxides
- NT1 americium nitrates
- NT1 americium nitrides
- NT1 americium oxides
- NT1 americium perchlorates
- NT1 americium phosphates
- NT1 americium phosphides
- NT1 americium selenides
- NT1 americium silicates
- NT1 americium silicides
- NT1 americium sulfates
- NT1 americium sulfides
- NT1 americium tellurides

**AMERICIUM FLUORIDES**

- \*BT1 americium halides
- \*BT1 fluorides

**AMERICIUM HALIDES**

2008-02-07

- \*BT1 americium compounds
- \*BT1 halides
- NT1 americium bromides
- NT1 americium chlorides
- NT1 americium fluorides
- NT1 americium iodides

**AMERICIUM HYDRIDES**

1984-11-30

- \*BT1 americium compounds
- \*BT1 hydrides

**AMERICIUM HYDROXIDES**

- \*BT1 americium compounds
- \*BT1 hydroxides

**AMERICIUM IODIDES**

1997-01-28

(From October 1996 to February 2008

AMERICIUM COMPOUNDS + IODIDES was used for this concept.)

- \*BT1 americium halides
- \*BT1 iodides

**AMERICIUM IONS**

- \*BT1 ions

**AMERICIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 americium 231
- NT1 americium 232
- NT1 americium 233
- NT1 americium 234
- NT1 americium 235
- NT1 americium 236
- NT1 americium 237
- NT1 americium 238
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- NT1 americium 243
- NT1 americium 244
- NT1 americium 245

NT1 americium 246

NT1 americium 247

NT1 americium 248

NT1 americium 249

**AMERICIUM NITRATES**

- \*BT1 americium compounds
- \*BT1 nitrates

**AMERICIUM NITRIDES**

- \*BT1 americium compounds
- \*BT1 nitrides

**AMERICIUM OXIDES**

- \*BT1 americium compounds
- \*BT1 oxides

**AMERICIUM PERCHLORATES***INIS: 1978-09-28; ETDE: 1978-10-19*

- \*BT1 americium compounds
- \*BT1 perchlorates

**AMERICIUM PHOSPHATES***INIS: 1978-07-31; ETDE: 1978-09-11*

- \*BT1 americium compounds
- \*BT1 phosphates

**AMERICIUM PHOSPHIDES**

2000-04-12

(From January 1993 to November 2007

AMERICIUM COMPOUNDS + PHOSPHIDES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 phosphides

**AMERICIUM SELENIDES***INIS: 1996-07-16; ETDE: 1976-01-23*

(From July 1996 to November 2007

AMERICIUM COMPOUNDS + SELENIDES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 selenides

**AMERICIUM SILICATES***INIS: 1997-01-28; ETDE: 1984-09-05*

(From November 1996 to November 2007

AMERICIUM COMPOUNDS + SILICATES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 silicates

**AMERICIUM SILICIDES***INIS: 2000-04-12; ETDE: 1978-12-11*

(From March 1997 to November 2007

AMERICIUM COMPOUNDS + SILICIDES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 silicides

**AMERICIUM SULFATES**

2000-04-12

(From March 1997 to November 2007

AMERICIUM COMPOUNDS + SULFATES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 sulfates

**AMERICIUM SULFIDES**

1996-07-16

(From July 1996 to November 2007

AMERICIUM COMPOUNDS + SULFIDES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 sulfides

**AMERICIUM TELLURIDES***INIS: 1997-01-28; ETDE: 1976-01-23*

(From October 1996 to February 2008

AMERICIUM COMPOUNDS + TELLURIDES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 tellurides

**ames, iowa state university utr-10 reactor**

INIS: 1993-11-03; ETDE: 2002-06-07

USE iowa utr-10 reactor

**AMES LABORATORY**

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT iowa

**ames laboratory research reactor**

2000-04-12

USE alrr reactor

**ames test**

INIS: 2000-04-12; ETDE: 1978-11-14

USE mutagen screening

**ames wet oxidation process**

INIS: 2000-04-12; ETDE: 1980-09-04

This process, similar to the Ledgemont and Pittsburgh processes, uses alkaline leaching solution to improve the extraction of pyritic sulfur, remove some organic sulfur, and be less corrosive.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**amethopterin**

USE methotrexate

**AMEX PROCESS**

\*BT1 reprocessing

RT amines

RT solvent extraction

**AMIDASES**

INIS: 1986-12-03; ETDE: 1981-01-30

Code number 3.5.1.

\*BT1 non-peptide c-n hydrolases

NT1 arginase

NT1 urease

**AMIDES**

1996-10-23

UF hypaque

UF ioglycamic acid

\*BT1 organic nitrogen compounds

NT1 acetamide

NT1 acrylamide

NT1 asparagine

NT1 dimethylformamide

NT1 formamide

NT1 glutamine

NT1 hydroxyurea

NT1 lactams

NT2 pyrrolidones

NT3 pvp

NT1 metrizamide

NT1 nicotinamide

NT1 sulfenamides

NT1 sulfonamides

NT1 thionalide

NT1 urea

RT bph

RT cerebrosides

RT chloramines

RT diamex process

RT guanidines

RT polyamides

RT thioureas

**AMIDINASES**

INIS: 2000-04-12; ETDE: 1981-02-18

Code number 3.5.3.

\*BT1 non-peptide c-n hydrolases

**AMIDINES**

1996-07-08

(Prior to August 1996 STILBAMIDINE was a valid ETDE descriptor.)

UF iminoamides

UF stilbamidine

\*BT1 organic nitrogen compounds

**amidol**

1996-09-06

(Until July 1996 this was a valid descriptor.)

USE amines

USE developers

USE phenols

**AMINATION**

BT1 chemical reactions

RT deamination

**AMINE OXIDASES**

INIS: 1991-07-02; ETDE: 1981-01-12

Code numbers 1.4 and 1.5.

UF histaminase

\*BT1 oxidoreductases

**AMINES**

1996-10-23

UF amidol

UF amino alcohols

UF amino sugars

UF aminoglycides

UF aminopropiophenone-para

UF arsanilic acid

UF bromamines

UF butylamine

UF cephalins

UF congo red

UF cytriphos

UF ndpp

UF neocupferron

UF neutral red

UF papp

UF tna

UF toluylene red

UF trinonylamine

BT1 organic compounds

NT1 acridine orange

NT1 adenines

NT2 kinetin

NT1 aminopterin

NT1 amphetamines

NT2 benzedrine

NT1 aniline

NT1 benzidine

NT1 beta-aminoethyl isothioureia

NT1 bph

NT1 cadaverine

NT1 catecholamines

NT1 chlorambucil

NT1 chloramines

NT1 chlorpromazine

NT1 cupferron

NT1 cystamine

NT1 cystaphos

NT1 cysteamine

NT1 cytosine

NT1 deferoxamine

NT1 dopamine

NT1 ephedrine

NT1 flavines

NT2 acriflavine

NT2 proflavine

NT1 gammaphos

NT1 guanine

NT1 hexosamines

NT2 glucosamine

NT1 histamine

NT1 hydroxamic acids

NT2 benzohydroxamic acid

NT1 hydroxylamine

NT1 imipramine

NT1 luminol

NT1 melamine

NT1 methyl orange

NT1 methyl violet

NT1 methylamine

NT1 methylene blue

NT1 morpholines

NT1 mucopolysaccharides

NT2 chitin

NT2 chondroitin

NT2 heparin

NT2 hyaluronic acid

NT1 nitrogen mustard

NT1 nitrosamines

NT1 oximes

NT2 benzoinoxime

NT2 dimethylglyoxime

NT1 piperidines

NT2 dipyridamole

NT2 pethidine

NT2 triacetoneamine-n-oxyl

NT1 polycyclic aromatic amines

NT1 primene

NT1 putrescine

NT1 pyrrolidines

NT2 hydroxyproline

NT2 nicotine

NT2 proline

NT1 rhodamines

NT1 spermidine

NT1 spermine

NT1 sulfanilic acid

NT1 taurine

NT1 tda

NT1 teta

NT1 tetryl

NT1 thiamine

NT1 thionine

NT1 toluidines

NT1 tridodecylamine

NT1 trioctylamine

NT1 trypan blue

NT1 tryptamines

NT2 melatonin

NT2 serotonin

NT3 bufotenines

NT1 tyramine

NT1 urotropin

RT amex process

RT eurex process

RT piperazines

RT sialic acid

RT tramex process

**AMINO ACID SEQUENCE**

INIS: 1993-08-03; ETDE: 1984-01-27

(Until August 1993, this concept was indexed by PROTEIN STRUCTURE.)

UF protein sequencing

BT1 molecular structure

RT protein engineering

RT protein structure

RT proteins

RT structural chemical analysis

**AMINO ACIDS**

1996-10-23

For carboxylic acids only.

UF aminoadipic acid

UF aminosalicylic acid-para

UF cpda

UF cyclopentanediaminetetraacetic acid

UF hexamethylenediaminetetraacetic acid

UF hmdta

UF homocystine

\*BT1 carboxylic acids

NT1 alanines

NT2 alanine-alpha

**NT3** alanine-l  
**NT2** alanine-beta  
**NT1** aminobutyric acid  
**NT1** aminolevulinic acid  
**NT1** anthranilic acid  
**NT1** arginine  
**NT1** asparagine  
**NT1** aspartic acid  
**NT1** betaine  
**NT1** carnitine  
**NT1** cdta  
**NT1** citrulline  
**NT1** creatine  
**NT1** cysteine  
**NT1** cystine  
**NT1** dcta  
**NT1** diiodotyrosine  
**NT1** dopa  
**NT1** dtpa  
**NT1** eddha  
**NT1** edta  
**NT1** ethionine  
**NT1** folic acid  
**NT1** glutamic acid  
**NT2** pyridoxylidene-glutamate  
**NT1** glutamine  
**NT1** glycine  
**NT1** glycylglycine  
**NT1** hedta  
**NT1** heida  
**NT1** hippuric acid  
**NT1** histidine  
**NT1** homocysteine  
**NT1** hydroxyproline  
**NT1** hydroxytryptophan  
**NT1** kynurenine  
**NT1** leucine  
**NT1** lysine  
**NT1** methionine  
**NT1** methyl red  
**NT1** methyl tyrosine  
**NT1** mimosine  
**NT1** mpg  
**NT1** nta  
**NT1** ornithine  
**NT1** paba  
**NT1** pantothenic acid  
**NT1** penicillamine  
**NT1** phenylalanine  
**NT1** phosphocreatine  
**NT1** proline  
**NT1** sarcosine  
**NT1** serine  
**NT1** tetaha  
**NT1** threonine  
**NT1** thyronine  
**NT1** thyroxine  
**NT1** tryptophan  
**NT1** tyrosine  
**NT1** valine  
**RT** lactams  
**RT** protein structure  
**RT** proteins

**amino alcohols**

USE alcohols  
 USE amines

**amino sugars**

USE amines  
 USE saccharides

**aminoacetic acid**

USE glycine

**aminoadipic acid**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE amino acids

**aminobenzene**

USE aniline

**aminobenzenesulfonic acid-para**

USE sulfanilic acid

**aminobenzoic acid-ortho**

USE anthranilic acid

**aminobenzoic acid-para**

USE paba

**AMINO BUTYRIC ACID**

\*BT1 amino acids

\*BT1 neuroregulators

**aminoethanesulfonic acid**

USE taurine

**aminoethanethiol**

USE cysteamine

**aminoethylisothiuronium bromide**

1984-06-21

USE beta-aminoethyl isothiurea

**aminoethylthiopseudourea**

USE beta-aminoethyl isothiurea

**aminoglutaric acid-alpha**

USE glutamic acid

**aminoglycides**

USE amines

USE saccharides

**aminohypoxanthine**

USE guanine

**aminoisocaproic acid-alpha**

USE leucine

**aminoisovaleric acid-alpha**

USE valine

**AMINO LEVULINIC ACID**

\*BT1 amino acids

**AMINOPEPTIDASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code numbers 3.4.11.

\*BT1 peptide hydrolases

**aminophenylacetic acid-alpha**

USE phenylalanine

**aminopropionic acid-alpha**

USE alanine-alpha

**aminopropionic acid-beta**

USE alanine-beta

**aminopropiophenone-para**

1996-07-18

(Prior to March 1997 PAPP was used for this concept in ETDE.)

USE amines

USE ketones

**AMINOPTERIN**

\*BT1 amines

\*BT1 antimetabolites

\*BT1 antineoplastic drugs

\*BT1 pteridines

RT antimitotic drugs

**aminopyrine**

INIS: 1984-04-04; ETDE: 2002-06-07

USE antipyretics

USE pyrazolines

**aminosalicylic acid-para**

1996-10-23

(Prior to March 1997 PAS was used for this concept in ETDE.)

USE amino acids

**aminosuccinamic acid-alpha**

USE asparagine

**aminosuccinic acid**

USE aspartic acid

**aminotoluenes**

USE toluidines

**AMINOTRANSFERASES**

Code number 2.6.1.

UF transaminases

\*BT1 nitrogen transferases

**amipaque**

INIS: 1981-08-06; ETDE: 1981-09-22

USE metrizamide

**amisol process**

2000-04-12

Process for complete desulfurization of gases with low carbon dioxide contents.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**AMMETERS**

\*BT1 electric measuring instruments

**AMMINES**

BT1 complexes

RT ammonia

**AMMONIA**

\*BT1 nitrogen hydrides

RT amines

RT ammonolysis

RT phosam process

RT quaternary ammonium compounds

RT refrigerants

**AMMONIA-AMMONIUM****BISULFATE PROCESS**

INIS: 2000-04-12; ETDE: 1977-04-12

Regenerable process to remove sulfur dioxide from flue gas by absorption in an aqueous ammonium sulfite and bisulfite solution.

\*BT1 desulfurization

RT waste processing

**AMMONIA FUEL CELLS**

1992-05-20

\*BT1 fuel cells

**AMMONIUM CARBONATES**

INIS: 1978-11-24; ETDE: 1978-12-20

BT1 ammonium compounds

\*BT1 carbonates

NT1 auc

**AMMONIUM CHLORIDES**

INIS: 1978-04-21; ETDE: 1975-12-16

\*BT1 ammonium halides

\*BT1 chlorides

**AMMONIUM COMPLEXES**

INIS: 1981-12-23; ETDE: 1982-02-09

BT1 complexes

**AMMONIUM COMPOUNDS**

NT1 ammonium carbonates

NT2 auc

NT1 ammonium halides

NT2 ammonium chlorides

NT2 ammonium fluorides

NT1 ammonium hydroxides

NT1 ammonium nitrates

- NT1** ammonium perchlorates  
**NT1** ammonium phosphates  
**NT1** ammonium sulfates  
**NT1** ammonium thiocyanates  
**NT1** ammonium tungstates  
**NT1** ammonium uranates  
**NT2** adu  
**NT1** quaternary ammonium compounds  
**NT2** acetylcholine  
**NT2** betaine  
**NT2** choline  
**NT2** pyridinium compounds

**ammonium diuranate**

USE adu

**AMMONIUM FLUORIDES**

INIS: 1979-09-18; ETDE: 1979-10-23

- \*BT1 ammonium halides  
 \*BT1 fluorides

**AMMONIUM HALIDES**

INIS: 1984-01-18; ETDE: 1977-03-08

- BT1 ammonium compounds  
 \*BT1 halides  
**NT1** ammonium chlorides  
**NT1** ammonium fluorides

**AMMONIUM HYDROXIDES**

- BT1 ammonium compounds  
 \*BT1 hydroxides

**AMMONIUM NITRATES**

INIS: 1975-11-07; ETDE: 1975-12-16

- BT1 ammonium compounds  
 \*BT1 nitrates

**AMMONIUM PERCHLORATES**

INIS: 1989-04-20; ETDE: 1976-08-04

- BT1 ammonium compounds  
 \*BT1 perchlorates

**AMMONIUM PHOSPHATES**

INIS: 1981-02-27; ETDE: 1978-04-28

- BT1 ammonium compounds  
 \*BT1 phosphates

**AMMONIUM SULFATES**

INIS: 1977-03-01; ETDE: 1976-04-19

- BT1 ammonium compounds  
 \*BT1 sulfates

**AMMONIUM THIOCYANATES**

INIS: 1991-09-18; ETDE: 1982-09-10

- BT1 ammonium compounds  
 \*BT1 thiocyanates

**AMMONIUM TUNGSTATES**

INIS: 1978-07-17; ETDE: 1977-06-02

- BT1 ammonium compounds  
 \*BT1 tungstates

**AMMONIUM URANATES**

- BT1 ammonium compounds  
 \*BT1 uranates  
**NT1** adu

**ammonium uranyl carbonates**

INIS: 1999-03-19; ETDE: 1979-11-23

USE auc

**AMMONOLYSIS**

- \*BT1 solvolysis  
 RT ammonia

**AMMUNITION**

INIS: 1999-03-02; ETDE: 1976-04-19

- RT explosives  
 RT guns  
 RT military equipment  
 RT missiles  
 RT rockets  
 RT weapons

**amnion**

USE fetal membranes

**amnion cells**

USE embryonic cells

**AMNIOTIC FLUID**

INIS: 1975-10-23; ETDE: 1975-12-16

- \*BT1 body fluids  
 RT embryos  
 RT fetuses

**amobarbital**

1996-07-16

(Prior to August 1996 AMYTAL was used for this concept in ETDE.)

USE barbiturates

**amoco cba process**

INIS: 2000-04-12; ETDE: 1977-08-09

USE desulfurization

**amoco sulfur recovery process**

INIS: 2000-04-12; ETDE: 1976-01-23

A process for recovery of elemental sulfur from process streams containing hydrogen sulfide.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**AMOEBEA**

- UF *ameba*  
 \*BT1 sarcodina  
 RT phagocytosis

**AMOEBEA EFFECT**

ETDE: 1975-09-11

Unidirectional migration and penetration of the fuel kernel through the particle coating, caused by thermal stresses occurring in the course of irradiation.

- UF *migration (kernel)*  
 RT coated fuel particles  
 RT failures  
 RT physical radiation effects  
 RT reliability

**AMORPHOUS STATE**

- RT crystallization  
 RT metallic glasses

**AMORTIZATION**

INIS: 1993-07-28; ETDE: 1983-05-21

- RT accounting  
 RT cancellation  
 RT financing

**AMP**

- UF *adenosine monophosphate*  
 UF *camp*  
 UF *cyclic adenosine monophosphate*  
 \*BT1 nucleotides  
 RT adenines

**AMP BEAM CURRENTS**

From 1 to 1000 amp.

\*BT1 beam currents

**AMPEROMETRY**

\*BT1 titration

**AMPHETAMINES**

INIS: 1985-03-15; ETDE: 1981-04-20

(Prior to April 1981, this concept in ETDE was indexed to BENZEDRINE.)

- \*BT1 amines  
 \*BT1 analeptics  
 \*BT1 sympathomimetics  
**NT1** benzedrine

**AMPHIBIANS**

UF *tadpoles*

- BT1 aquatic organisms  
 \*BT1 vertebrates  
**NT1** frogs  
**NT1** salamanders  
**NT2** triturus  
**NT1** toads  
 RT aquatic ecosystems  
 RT larvae

**AMPHIBOLE**

A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition.

\*BT1 silicate minerals

**NT1** hornblende

**AMPHIBOLITES**

INIS: 2000-04-12; ETDE: 1980-08-12

\*BT1 metamorphic rocks

**AMPLIFICATION**

INIS: 1985-12-10; ETDE: 1981-08-04

- NT1** gain  
 RT amplifiers  
 RT amplitudes  
 RT fluidic devices

**AMPLIFIERS**

1999-07-05

- \*BT1 electronic equipment  
**NT1** ac amplifiers  
**NT1** dc amplifiers  
**NT1** dielectric amplifiers  
**NT1** high frequency amplifiers  
**NT1** lock-in amplifiers  
**NT1** magnetic amplifiers  
**NT1** microwave amplifiers  
**NT2** masers  
**NT1** operational amplifiers  
**NT1** parametric amplifiers  
**NT1** power amplifiers  
**NT1** preamplifiers  
**NT1** pulse amplifiers  
**NT1** transistor amplifiers  
 RT amplification  
 RT electronic circuits  
 RT gain

**AMPLITUDES**

- NT1** scattering amplitudes  
**NT1** transition amplitudes  
**NT2** decay amplitudes  
 RT amplification  
 RT dimensions  
 RT mechanical vibrations  
 RT oscillations  
 RT wave propagation

**amso**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE organic solvents

**amygdalic acid**

USE mandelic acid

**amyl acetate**

INIS: 1984-04-04; ETDE: 2002-06-07

USE acetic acid esters

**amyl alcohols**

USE pentanols

**amyl radicals**

USE pentyl radicals

**AMYLASE**

Code numbers 3.2.1.1, 3.2.1.2, and 3.2.1.3.

- UF *isoamylase*  
 \*BT1 o-glycosyl hydrolases  
 RT digestion

RT pancreas  
RT saliva

**amylum**

USE starch

**amytal**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE barbiturates

**ANABOLISM**

BT1 metabolism

RT androgens

RT biosynthesis

RT sth

**anaconda uranium mill**

INIS: 1996-07-16; ETDE: 1979-12-17

(Until July 1996 this was a valid descriptor.)

USE feed materials plants

**ANADROMOUS FISHES**

INIS: 1991-08-09; ETDE: 1983-03-07

Fishes that ascend fresh-water streams from the sea to spawn.

\*BT1 fishes

NT1 salmon

NT1 striped bass

RT fish passage facilities

RT ichthyoplankton

**ANAEROBIC CONDITIONS**

INIS: 1983-02-04; ETDE: 1975-11-28

RT anaerobic digestion

RT biodegradation

RT decomposition

RT dissolved gases

RT oxygen enhancement ratio

RT zymomonas mobilis

**ANAEROBIC DIGESTION**

INIS: 1997-06-19; ETDE: 1975-07-29

(From October 1978 to February 1997 CELL RECYCLE was a valid ETDE descriptor.)

SF cell recycle

SF microbial processes

BT1 bioconversion

BT1 digestion

NT1 biogas process

RT anaerobic conditions

RT batch culture

RT continuous culture

RT fermentation

RT mesophilic conditions

RT microorganisms

RT semibatch culture

RT sewage sludge

RT synthetic fuels

RT thermophilic conditions

RT waste processing

**analcime**

1984-04-04

A white or slightly colored zeolite mineral.

(Prior to March 1996 this was a valid ETDE descriptor.)

USE zeolites

**ANALEPTICS**

INIS: 1984-05-24; ETDE: 1981-04-20

UF central nervous system stimulants

UF cns stimulants

UF stimulants (central nervous system)

\*BT1 central nervous system agents

NT1 amphetamines

NT2 benzedrine

NT1 caffeine

RT psychotropic drugs

**ANALGESICS**

1996-07-08

UF acetophenetidin

UF phenacetin

\*BT1 central nervous system depressants

NT1 acetylsalicylic acid

NT1 antipyrine

NT1 codeine

NT1 opium

NT2 morphine

NT3 thebaine

NT1 pethidine

RT anesthetics

RT antipyretics

RT hypnotics and sedatives

RT narcotics

RT pain

**ANALOG COMPUTERS**

BT1 computers

**analog resonances (isobaric)**

USE isobaric analogs

USE resonance

**analog resonances (strangeness)**

USE strangeness analog resonances

**analog states**

USE isobaric analogs

**ANALOG SYSTEMS**

NT1 simulators

NT2 reactor simulators

NT2 solar simulators

RT analog-to-digital converters

RT biological models

RT computers

RT digital-to-analog converters

RT electronic circuits

RT electronic equipment

RT functional models

RT real time systems

**ANALOG-TO-DIGITAL****CONVERTERS**

UF converters (analog-digital)

\*BT1 electronic equipment

RT analog systems

RT digital systems

RT digitizers

**analysis (activation)**

USE activation analysis

**analysis (charged-particle activation)**

INIS: 1993-11-03; ETDE: 2002-06-07

USE charged-particle activation analysis

**analysis (fourier)**

USE fourier analysis

**analysis (gas)**

USE gas analysis

**analysis (load)**

INIS: 1999-04-22; ETDE: 2002-06-07

USE load analysis

**analysis (neutron activation)**

INIS: 1978-11-24; ETDE: 2002-06-07

USE neutron activation analysis

**analysis (normal-mode)**

USE normal-mode analysis

**analysis (nuclear reaction)**

INIS: 1986-01-21; ETDE: 2002-06-07

Chemical analysis based on detection and analysis of prompt nuclear reaction products.

USE nuclear reaction analysis

**analysis (photon activation)**

INIS: 1978-11-24; ETDE: 2002-06-07

USE photon activation analysis

**analysis (qualitative chemical)**

USE qualitative chemical analysis

**analysis (quantitative chemical)**

USE quantitative chemical analysis

**analysis (structural chemical)**

USE structural chemical analysis

**analysis (thermal)**

USE thermal analysis

**ANALYTIC FUNCTIONS**

BT1 functions

RT continued fractions

RT mathematical evolution

RT s matrix

**ANALYTICAL SOLUTION**

For the procedure only.

BT1 mathematical solutions

RT differential equations

RT galerkin-petrov method

**analyzers (pulse)**

USE pulse analyzers

**analyzing power**

USE polarization-asymmetry ratio

**anaphase**

USE mitosis

**ANAPHYLAXIS**

RT allergy

RT antigen-antibody reactions

RT biological shock

RT immunity

**ANASTREPHA**

INIS: 1999-02-19; ETDE: 1999-11-18

UF south american fruit fly

\*BT1 fruit flies

**ANATOMY**

BT1 biology

RT body

RT physiology

**anbn**

USE 1-nitroso-2-naphthol

**anchoring**

See also MOORINGS.

USE fastening

**ANCHORS**

INIS: 1999-03-02; ETDE: 1975-09-11

(Until March 1999 this concept was indexed by FASTENERS.)

RT fasteners

**andco-torrax slagging pyrolysis system**

INIS: 1999-09-20; ETDE: 1977-10-20

(Prior to April 1994, this was a valid ETDE descriptor.)

SEE slagging pyrolysis process

**andersonite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE carbonate minerals

USE uranium minerals

**ANDES**

UF cordillera de los andes

BT1 mountains

RT argentina  
 RT bolivia  
 RT chile  
 RT colombia  
 RT ecuador  
 RT peru  
 RT venezuela

**ANDESITES**

INIS: 2000-04-12; ETDE: 1975-10-28  
*Volcanic rocks composed essentially of andesine and one or more mafic constituents.*  
 \*BT1 volcanic rocks

**andradite**

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE garnets

**androgen antagonists**

INIS: 2000-04-12; ETDE: 1981-04-20  
 USE antiandrogens

**ANDROGENS**

1996-10-23  
 UF *dianabol*  
 \*BT1 androstanes  
 \*BT1 steroid hormones  
 NT1 androstenedione  
 NT1 androsterone  
 NT1 hydroxyandrostenone  
 NT1 testosterone  
 RT adrenal glands  
 RT adrenal hormones  
 RT anabolism  
 RT antiandrogens  
 RT castration  
 RT corticosteroids  
 RT luteinizing hormone  
 RT testes  
 RT urinary ketosteroids

**ANDROSTANES**

\*BT1 steroids  
 NT1 androgens  
 NT2 androstenedione  
 NT2 androsterone  
 NT2 hydroxyandrostenone  
 NT2 testosterone

**ANDROSTENEDIONE**

\*BT1 androgens  
 \*BT1 ketones

**ANDROSTERONE**

\*BT1 androgens  
 \*BT1 hydroxy compounds  
 \*BT1 ketones

**ANEMIAS**

UF *aplastic anemia*  
 UF *pernicious anemia*  
 \*BT1 hemic diseases  
 BT1 symptoms  
 NT1 ischemia  
 NT1 megaloblastic anemia  
 NT1 sickle cell anemia  
 NT1 thalassemia  
 RT erythrocytes  
 RT folic acid  
 RT hemoglobin  
 RT hemolysis  
 RT hemorrhage  
 RT intrinsic factor  
 RT vitamin b-12

**ANEMOMETERS**

BT1 measuring instruments  
 NT1 hot wire anemometers  
 NT1 laser doppler anemometers  
 RT flowmeters

**ANESTHESIA**

RT anesthetics  
 RT central nervous system depressants  
 RT medicine  
 RT pain  
 RT surgery

**ANESTHETICS**

\*BT1 central nervous system depressants  
 NT1 barbiturates  
 NT2 nembutal  
 NT2 phenobarbital  
 NT1 cocaine  
 NT1 procaine  
 RT analgesics  
 RT anesthesia  
 RT chloroform  
 RT ethyl ether  
 RT hypnotics and sedatives  
 RT narcotics  
 RT nitrous oxide

**ANEUPLOIDY**

BT1 ploidy  
 RT genome mutations  
 RT non-disjunction

**ANEX REACTOR**

*Shut down since 1975. Decommissioned since 1980.*  
 UF *cfg reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 hydride moderated reactors  
 \*BT1 solid homogeneous reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**ANGARA-5 DEVICE**

INIS: 1984-08-24; ETDE: 1989-06-23  
 \*BT1 icf devices

**ANGIOGENESIS**

2009-01-28  
*Growth of new blood vessels.*  
 RT blood vessels  
 RT carcinogenesis  
 RT growth factors  
 RT neoplasms

**angiography**

USE biomedical radiography  
 USE blood vessels

**ANGIOMAS**

UF *hemangiomas*  
 \*BT1 carcinomas  
 RT blood vessels  
 RT lymph vessels

**angiosperms**

INIS: 2000-04-12; ETDE: 1988-12-21  
 USE magnoliophyta

**ANGIOTENSIN**

\*BT1 globulins  
 \*BT1 vasoconstrictors

**angle (bond)**

INIS: 2000-04-12; ETDE: 1980-11-08  
 USE bond angle

**angle (incidence)**

INIS: 1984-04-04; ETDE: 1980-11-08  
 USE incidence angle

**angle of incidence**

INIS: 1984-04-04; ETDE: 1980-01-24  
 USE incidence angle

**angle of inclination**

INIS: 2000-04-12; ETDE: 1979-09-26  
 USE inclination

**ANGOLA**

BT1 africa  
 BT1 developing countries

**ANGRA-1 REACTOR**

*Angra Dosreis, Rio de Janeiro, Brazil.*  
 \*BT1 pwr type reactors

**ANGRA-2 REACTOR**

INIS: 1977-06-14; ETDE: 1977-10-19  
*Angra Dosreis, Rio de Janeiro, Brazil.*  
 \*BT1 pwr type reactors

**ANGRA-3 REACTOR**

INIS: 1977-06-14; ETDE: 1977-10-19  
*Angra Dosreis, Rio de Janeiro, Brazil.*  
 \*BT1 pwr type reactors

**ANGULAR CORRELATION**

1996-07-16  
 (Prior to August 1996 BIEDENHARN-ROSE THEORY was a valid ETDE descriptor.)  
 UF *directional correlation*  
 SF *biedenharn-rose theory*  
 BT1 correlations  
 NT1 perturbed angular correlation  
 NT2 differential pac  
 NT2 integral pac  
 RT abragam-pound theory  
 RT angular distribution  
 RT decay  
 RT particle kinematics

**ANGULAR DISTRIBUTION**

1999-02-23  
 (Prior to August 1996 BIEDENHARN-ROSE THEORY and MINAMI AMBIGUITY were valid ETDE descriptors; prior to March 1997 HALPERN-STRUTINSKI THEORY was a valid ETDE descriptor.)  
 SF *biedenharn-rose theory*  
 SF *halpern-strutinski theory*  
 SF *minami ambiguity*  
 BT1 distribution  
 RT abragam-pound theory  
 RT alder-winter theory  
 RT angular correlation  
 RT backscattering  
 RT blatt-biedenharn formalism  
 RT castagnoli formula  
 RT differential cross sections  
 RT emission  
 RT incidence angle  
 RT lambert law  
 RT marshak boundary conditions  
 RT milne problem  
 RT small angle scattering  
 RT space dependence  
 RT spatial distribution  
 RT transverse energy  
 RT yang theorem

**ANGULAR MOMENTUM**

1999-02-23  
 (Prior to March 1997 GYROELECTRIC RATIO was a valid ETDE descriptor.)  
 UF *momentum (angular)*  
 SF *gyroelectric ratio*  
 NT1 orbital angular momentum  
 NT1 spin  
 RT angular momentum operators  
 RT backbending  
 RT chirality  
 RT clebsch-gordan coefficients  
 RT d waves  
 RT f waves  
 RT gyromagnetic ratio  
 RT helicity  
 RT kinetic energy  
 RT linear momentum  
 RT motion

RT p waves  
 RT partial waves  
 RT quantum mechanics  
 RT racah coefficients  
 RT rotation  
 RT s waves  
 RT wigner coefficients  
 RT yrast states

### ANGULAR MOMENTUM OPERATORS

\*BT1 quantum operators  
 NT1 orbital momentum operators  
 NT1 pauli spin operators  
 RT angular momentum

### ANGULAR MOMENTUM TRANSFER

INIS: 1978-09-28; ETDE: 1978-10-19  
 UF transfer (angular momentum)  
 BT1 momentum transfer  
 RT energy transfer

### ANGULAR VELOCITY

BT1 velocity

### ANHARMONIC CRYSTALS

BT1 crystals  
 RT coherent scattering  
 RT inelastic scattering  
 RT lattice vibrations

### ANHARMONIC OSCILLATORS

INIS: 1981-08-06; ETDE: 1979-09-26  
 RT equations of motion  
 RT harmonic oscillators  
 RT mathematics  
 RT mechanics

### ANHYDRIDES

RT bases  
 RT inorganic acids  
 RT organic acids  
 RT water

### ANHYDRITE

1982-10-29  
 Mineral consisting of an anhydrous calcium sulfate.  
 \*BT1 sulfate minerals  
 RT calcium sulfates  
 RT gypsum

### ANILINE

UF aminobenzene  
 UF phenylamine  
 \*BT1 amines  
 \*BT1 aromatics  
 RT benzene  
 RT polycyclic aromatic amines

### ANIMAL BREEDING

NT1 mass rearing  
 RT agriculture  
 RT domestic animals  
 RT genetics  
 RT nests  
 RT nutrition  
 RT progeny  
 RT radiation induced mutants  
 RT reproduction

### ANIMAL CELLS

Includes human cells.  
 UF cell growth (animal)  
 UF cells (animal)  
 UF human cells  
 UF melanocytes  
 UF pigment cells  
 NT1 embryonic cells  
 NT1 hair follicles  
 NT1 hybridomas  
 NT1 somatic cells

NT2 cho cells  
 NT2 connective tissue cells  
 NT3 bone cells  
 NT3 bone marrow cells  
 NT3 fat cells  
 NT3 fibroblasts  
 NT3 lymphocytes  
 NT3 macrophages  
 NT3 mast cells  
 NT3 plasma cells  
 NT2 crypt cells  
 NT2 liver cells  
 NT2 nerve cells  
 NT2 phagocytes  
 NT3 macrophages  
 NT2 respiratory tract cells  
 NT2 spleen cells  
 NT2 stem cells  
 NT2 thymocytes  
 NT2 thymus cells  
 NT2 thyroid cells  
 NT1 tumor cells  
 NT2 ascites tumor cells  
 NT2 hela cells  
 NT1 xp cells  
 RT cell constituents  
 RT cell cultures  
 RT cell flow systems  
 RT clone cells  
 RT colony formation  
 RT cytology  
 RT homogenates  
 RT intracellular digestion

### ANIMAL FEEDS

UF fodder  
 BT1 food  
 NT1 forage  
 RT diet  
 RT distillers dried grains  
 RT food additives  
 RT molasses  
 RT nutrition

### ANIMAL GROWTH

BT1 growth  
 RT animals  
 RT metamorphosis  
 RT molting  
 RT ontogenesis  
 RT rearing

### ANIMAL SHELTERS

INIS: 1992-08-24; ETDE: 1977-06-21  
 BT1 buildings  
 BT1 shelters

### ANIMAL TISSUES

INIS: 1996-03-14; ETDE: 1980-11-24  
 (Until March 1996 this concept was indexed to TISSUES.)  
 UF human tissues  
 UF muscular tissue  
 SF tissues  
 BT1 body  
 NT1 bone marrow  
 NT1 connective tissue  
 NT2 adipose tissue  
 NT2 bone tissues  
 NT3 antlers  
 NT3 trabecular bone  
 NT2 cartilage  
 NT2 fascia  
 NT2 ligaments  
 NT2 tendons  
 NT1 endothelium  
 NT1 epithelium  
 NT2 epidermis  
 NT1 nerve tissue  
 NT1 perfused tissues

NT1 reticuloendothelial system  
 RT biological materials  
 RT biological regeneration  
 RT biology  
 RT biopsy  
 RT capillaries  
 RT histological techniques  
 RT histology  
 RT homogenates  
 RT in vivo  
 RT morphological changes  
 RT organs  
 RT plant tissues  
 RT retention  
 RT skin  
 RT tissue cultures  
 RT tissue distribution  
 RT tissue-equivalent materials  
 RT tissue extracts

### ANIMALS

NT1 domestic animals  
 NT2 cattle  
 NT3 calves  
 NT3 cows  
 NT2 goats  
 NT2 sheep  
 NT2 swine  
 NT3 miniature swine  
 NT1 germ-free animals  
 NT1 invertebrates  
 NT2 annelids  
 NT2 arthropods  
 NT3 arachnids  
 NT4 mites  
 NT4 scorpions  
 NT4 spiders  
 NT4 ticks  
 NT3 crustaceans  
 NT4 branchiopods  
 NT5 artemia  
 NT5 daphnia  
 NT4 copepods  
 NT4 decapods  
 NT5 crabs  
 NT5 lobsters  
 NT5 prawns  
 NT5 shrimp  
 NT3 insects  
 NT4 coleoptera  
 NT5 beetles  
 NT6 boll weevil  
 NT6 tribolium  
 NT4 dictyoptera  
 NT5 cockroaches  
 NT4 diptera  
 NT5 flies  
 NT6 fruit flies  
 NT7 anastrepha  
 NT7 ceratitis capitata  
 NT7 dacus  
 NT8 dacus oleae  
 NT7 drosophila  
 NT6 glossina  
 NT6 hylemya antiqua  
 NT6 screwworm fly  
 NT5 mosquitoes  
 NT4 ephemeroptera  
 NT4 hemiptera  
 NT5 aphids  
 NT4 hymenoptera  
 NT5 ants  
 NT5 bees  
 NT5 wasps  
 NT4 lepidoptera  
 NT5 moths  
 NT6 bollworm  
 NT6 codling moth  
 NT6 lymantria dispar



**NT6** rice stem borers  
**NT6** silkworm  
**NT4** orthoptera  
**NT5** grasshoppers  
**NT6** locusts  
**NT2** bryozoa  
**NT2** coelenterata  
**NT3** cnidaria  
**NT4** corals  
**NT4** hydra  
**NT2** echinoderms  
**NT3** sea urchins  
**NT2** molluscs  
**NT3** clams  
**NT3** mussels  
**NT3** oysters  
**NT3** snails  
**NT2** nematodes  
**NT3** ascaridae  
**NT4** ascaris  
**NT3** dictyocaulus  
**NT3** hookworm  
**NT3** trichinella  
**NT2** platyhelminths  
**NT3** cestodes  
**NT3** trematodes  
**NT4** fasciola  
**NT4** schistosoma  
**NT3** turbellaria  
**NT4** planaria  
**NT2** protozoa  
**NT3** ciliata  
**NT4** paramecium  
**NT4** tetrahymena  
**NT3** mastigophora  
**NT4** dinoflagellate  
**NT4** euglena  
**NT4** trypanosoma  
**NT3** sarcodina  
**NT4** amoeba  
**NT4** foraminifera  
**NT3** sporozoa  
**NT4** babesidae  
**NT4** plasmodium  
**NT2** rotifera  
**NT1** laboratory animals  
**NT1** neonates  
**NT1** transgenic animals  
**NT2** transgenic mice  
**NT1** vertebrates  
**NT2** amphibians  
**NT3** frogs  
**NT3** salamanders  
**NT4** triturus  
**NT3** toads  
**NT2** birds  
**NT3** fowl  
**NT4** chickens  
**NT4** ducks  
**NT4** geese  
**NT3** pigeons  
**NT2** fishes  
**NT3** anadromous fishes  
**NT4** salmon  
**NT4** striped bass  
**NT3** codfish  
**NT3** eel  
**NT3** fathead minnow  
**NT3** goldfish  
**NT3** plaice  
**NT3** trout  
**NT3** tuna  
**NT2** mammals  
**NT3** bats  
**NT3** bears  
**NT3** burros  
**NT3** cats  
**NT3** cetaceans  
**NT3** coyotes

**NT3** dogs  
**NT4** beagles  
**NT3** foxes  
**NT3** horses  
**NT3** marsupials  
**NT3** otters  
**NT3** pinnipeds  
**NT3** primates  
**NT4** apes  
**NT4** man  
**NT5** children  
**NT6** infants  
**NT2** elderly people  
**NT5** men  
**NT5** women  
**NT4** monkeys  
**NT5** baboons  
**NT5** macacus  
**NT3** rabbits  
**NT3** rodents  
**NT4** gerbils  
**NT4** guinea pigs  
**NT4** hamsters  
**NT4** mice  
**NT3** transgenic mice  
**NT4** prairie dogs  
**NT4** rats  
**NT4** squirrels  
**NT4** voles  
**NT3** ruminants  
**NT4** buffalo  
**NT4** camels  
**NT4** cattle  
**NT5** calves  
**NT5** cows  
**NT4** deer  
**NT4** goats  
**NT4** llamas  
**NT4** sheep  
**NT3** shrews  
**NT3** swine  
**NT4** miniature swine  
**NT3** wolves  
**NT2** reptiles  
**NT3** alligators  
**NT3** lizards  
**NT3** snakes  
**NT3** turtles

**NT1** wild animals  
*RT* animal growth  
*RT* aquatic organisms  
*RT* biological extinction  
*RT* biological materials  
*RT* biology  
*RT* ecology  
*RT* endangered species  
*RT* females  
*RT* fossils  
*RT* males  
*RT* species diversity  
*RT* symbiosis  
*RT* veterinary medicine

### ANIONS

(From May 1981 to February 1997 CARBANIONS was a valid ETDE descriptor.)

*UF* carbanions  
*UF* hydroxyl ions  
*UF* negative ions  
**\*BT1** ions  
**NT1** heteropolyanions  
**NT1** hydrogen ions 1 minus  
*RT* chemical state  
*RT* electrolysis  
*RT* ion beams  
*RT* ion exchange materials

### ANISOLE

*UF* methoxybenzene

*UF* methyl phenyl ether  
*UF* phenyl methyl ether  
**\*BT1** ethers

### ANISOTROPY

*RT* asymmetry  
*RT* configuration  
*RT* distribution  
*RT* isotropy  
*RT* mass distribution  
*RT* orientation  
*RT* sherman tables  
*RT* transverse energy

### anisyl radicals

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE aryl radicals

### ANKERITE

*INIS*: 2000-04-12; *ETDE*: 1975-11-28

*A dolomitic iron-containing mineral.*

*SF* pearl spar

**\*BT1** carbonate minerals

*RT* calcium carbonates

*RT* iron carbonates

*RT* magnesium carbonates

*RT* manganese carbonates

### ankylosing spondylitis

USE spondylitis

### ANL

*UF* argonne national laboratory

**\*BT1** us aec

**\*BT1** us doe

**\*BT1** us erda

*RT* illinois

### anl zero power research reactor-3

*INIS*: 1993-11-03; *ETDE*: 2002-06-07

USE zpr-3 reactor

### anl zero power research reactor-6

*INIS*: 1993-11-03; *ETDE*: 2002-06-07

USE zpr-6 reactor

### anl zero power research reactor-9

*INIS*: 1993-11-03; *ETDE*: 2002-06-07

USE zpr-9 reactor

### anmr

USE acoustic nmr

### ANNA REACTOR

*Institute of Nuclear Research, Swierk, Poland.*

*UF* swierk anna reactor

**\*BT1** enriched uranium reactors

**\*BT1** graphite moderated reactors

**\*BT1** research reactors

**\*BT1** thermal reactors

**\*BT1** water cooled reactors

**\*BT1** water moderated reactors

**\*BT1** zero power reactors

### ANNEALING

**BT1** heat treatments

*RT* recrystallization

*RT* stress relaxation

### anneau de collisions d'orsay

2005-01-25

USE orsay storage rings

### ANNELIDS

*UF* earthworms

*UF* worms (segmented)

**\*BT1** invertebrates

**annie event**

INIS: 1994-10-13; ETDE: 1981-07-06

A test made during the UPSHOT PROJECT.  
(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions  
USE nuclear explosions

**ANNIHILATION**

SF disintegration (nuclear particles)

\*BT1 particle interactions  
RT electromagnetic interactions  
RT gribov-lipatov relation  
RT strong interactions

**ANNIHILATION OPERATORS**

UF coherent states  
\*BT1 quantum operators  
RT second quantization  
RT vacuum states

**ANNUAL CYCLE ENERGY SYSTEM**

INIS: 2000-04-12; ETDE: 1975-11-11

UF annual energy storage  
RT air conditioning  
RT heating  
RT space heating  
RT water heaters

**annual energy storage**

INIS: 2000-04-12; ETDE: 1979-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE annual cycle energy system  
USE energy storage

**ANNUAL LIMIT OF INTAKE**

INIS: 1985-04-23; ETDE: 1984-09-21

The greatest value of the annual intake of a given radionuclide which corresponds to a whole-body dose commitment of less than or equal to 5 rem and tissue dose commitment of less than or equal to 50 rem.

UF ali  
\*BT1 safety standards  
RT critical organs  
RT intake  
RT radiation protection  
RT radioactivity

**ANNUAL VARIATIONS**

BT1 variations

**annular core pulse reactor**

USE acpr reactor

**annular core research reactor**

INIS: 2000-04-12; ETDE: 1979-10-23

USE acpr reactor

**ANNULAR FUEL ELEMENTS**

\*BT1 fuel elements  
RT fuel washers

**ANNULAR SPACE**

BT1 configuration  
BT1 space  
NT1 toroidal configuration  
RT tori

**ano-1 reactor**

2017-10-30

USE arkansas-1 reactor

**ano-2 reactor**

2017-10-30

USE arkansas-2 reactor

**ANODES**

BT1 electrodes  
NT1 hollow anodes  
NT1 photoanodes

RT thermionic collectors

**ANODIZATION**

BT1 corrosion protection  
\*BT1 electrochemical coating  
\*BT1 electrolysis

**ANOMALONS**

INIS: 1984-10-23; ETDE: 1984-05-08

Projectile fragments from relativistic heavy ion reactions with anomalously short mean free paths.

BT1 nuclear fragments  
RT heavy ion reactions  
RT mean free path

**ANOMALOUS DIMENSION**

UF non-canonical dimension  
UF noncanonical dimension  
BT1 scale dimension

**anopheles**

USE mosquitoes

**ANOREXIA**

RT digestive system  
RT digestive system diseases

**ANORTHITE**

INIS: 2000-04-12; ETDE: 1981-04-17

A plagioclase feldspar.

\*BT1 feldspars

**ANORTHOSITES**

A group of essentially monomineralic plutonic igneous rocks composed almost entirely of plagioclase feldspar.

UF plagioclase  
UF plagioclasite  
\*BT1 gabbros  
RT feldspars  
RT lunar materials  
RT olivine

**ANOXIA**

UF hypoxia  
RT biological stress  
RT ischemia  
RT oxidation  
RT oxygen  
RT respiration

**ANSTO**

INIS: 1996-01-30; ETDE: 1988-11-01

Australian Nuclear Science and Technology Organization, created on 27 April 1987 and replacing the AAEC.

UF aaec  
UF australian atomic energy commission  
\*BT1 australian organizations

**ANTARCTIC OCEAN**

INIS: 1992-07-13; ETDE: 1992-06-18

The southern waters of the Atlantic, Pacific and Indian oceans.

(Prior to June 1992 SEAS was used for this concept in ETDE.)

\*BT1 seas  
NT1 weddell sea  
RT antarctic regions  
RT antarctica

**ANTARCTIC REGIONS**

\*BT1 polar regions  
NT1 antarctica  
RT antarctic ocean  
RT arctic regions  
RT auroral zones  
RT climates  
RT glaciers  
RT ice  
RT ice caps  
RT polar-cap aurorae

RT snow

**ANTARCTICA**

\*BT1 antarctic regions  
RT antarctic ocean

**ANTARES FACILITY**

INIS: 1995-03-28; ETDE: 1978-09-11

Large CO2 laser facility to be used at Los Alamos for laser fusion.

RT aurora facility  
RT carbon dioxide lasers  
RT helios facility  
RT lanl  
RT laser fusion reactors

**ANTARES TANDEM ACCELERATOR**

INIS: 1995-03-31; ETDE: 1998-07-07

Lucas Heights Research Laboratory, Australia.

\*BT1 tandem electrostatic accelerators

**antelopes**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE ruminants

**ANTENNAS**

1999-02-26

\*BT1 electrical equipment  
NT1 radio telescopes  
NT1 rectennas  
RT radio equipment

**anthers**

USE stamen

**anthonomus grandis**

USE boll weevil

**ANTHRACENE**

\*BT1 polycyclic aromatic hydrocarbons  
RT anthraquinones  
RT organic crystal phosphors  
RT plastic scintillators

**ANTHRACITE**

UF hard coal  
\*BT1 black coal  
RT culm

**ANTHRANILIC ACID**

UF aminobenzoic acid-ortho  
\*BT1 amino acids

**ANTHRAQUINONES**

\*BT1 quinones  
NT1 alizarin  
NT1 carminic acid  
NT1 quinizarin  
RT anthracene  
RT dyes

**anthraquinonic acid**

USE alizarin

**ANTHROPOLOGY**

INIS: 1993-06-07; ETDE: 1976-05-13

The study of the interrelations of biological, cultural, geographical, and historical aspects of man.

RT human populations  
RT man  
RT sociology

**ANTI-B NEUTRAL MESONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 b neutral mesons  
\*BT1 pseudoscalar antimesons

**ANTI-D NEUTRAL MESONS**

INIS: 1987-12-21; ETDE: 1989-02-10

- \*BT1 d neutral mesons
- \*BT1 pseudoscalar antimesons

**ANTI DE SITTER GROUP**

2007-08-13

- \*BT1 lie groups
- RT anti de sitter space

**ANTI DE SITTER SPACE**

2007-08-13

- \*BT1 mathematical space
- RT anti de sitter group
- RT lorentz groups
- RT space-time
- RT string theory
- RT superstring theory

**ANTI-INFECTIVE AGENTS**

INIS: 1992-02-24; ETDE: 1981-04-20

- BT1 drugs
- NT1 antibiotics
  - NT2 actinomycin
  - NT2 bleomycin
  - NT2 chloramphenicol
  - NT2 cycloheximide
  - NT2 doxorubicin
  - NT2 erythromycin
  - NT2 mitomycin
  - NT2 neocarcinostatin
  - NT2 neomycin
  - NT2 penicillin
  - NT2 puromycin
  - NT2 streptomycin
  - NT2 streptozocin
  - NT2 tetracyclines
    - NT3 oxytetracycline
    - NT2 valinomycin
- NT1 antimicrobial agents
  - NT2 fudr
  - NT2 isoniazid
  - NT2 methylene blue
  - NT2 quinine
  - NT2 sulfonamides
- RT antimitotic drugs
- RT infectious diseases
- RT microorganisms
- RT pathogens

**anti-inflammatory agents**

INIS: 2000-04-12; ETDE: 1981-04-20

- USE antipyretics

**anti-missile systems**

INIS: 2000-04-12; ETDE: 1984-11-29

- USE space weapons

**anti-satellite systems**

INIS: 2000-04-12; ETDE: 1984-11-29

- USE space weapons

**ANTIANDROGENS**

INIS: 1979-09-18; ETDE: 1979-10-23

- UF androgen antagonists
- BT1 drugs
- RT androgens
- RT biochemistry
- RT chemotherapy
- RT pharmacology
- RT physiology

**ANTIBARYONS**

- \*BT1 antiparticles
- \*BT1 baryons
- NT1 antihyperons
  - NT2 antilambda particles
  - NT2 antiomega particles
  - NT2 antisigma particles
  - NT2 antixi particles
- NT1 antinucleons

NT2 antineutrons

NT2 antiprotons

**ANTIBIOTICS**

1996-10-22

(From June 1981 till March 1997

ANTIMYCIN was a valid ETDE descriptor.)

- UF antimycin
- \*BT1 anti-infective agents
- BT1 organic compounds
- NT1 actinomycin
- NT1 bleomycin
- NT1 chloramphenicol
- NT1 cycloheximide
- NT1 doxorubicin
- NT1 erythromycin
- NT1 mitomycin
- NT1 neocarcinostatin
- NT1 neomycin
- NT1 penicillin
- NT1 puromycin
- NT1 streptomycin
- NT1 streptozocin
- NT1 tetracyclines
  - NT2 oxytetracycline
- NT1 valinomycin
- RT antimitotic drugs
- RT antineoplastic drugs
- RT bacterial diseases
- RT germicides
- RT infectious diseases
- RT microorganisms
- RT mutagens

**ANTIBODIES**

- NT1 agglutinins
  - NT2 hemagglutinins
    - NT3 concanavalin a
    - NT3 phytohemagglutinin
- NT1 antitoxins
- NT1 hemolysins
- NT1 monoclonal antibodies
- NT1 precipitins
- RT antigen-antibody reactions
- RT antigens
- RT complement
- RT enzyme immunoassay
- RT immune serums
- RT immunity
- RT lectins
- RT radioimmunoassay
- RT radioimmunodetection
- RT radioimmunotherapy
- RT toxoids

**ANTIBODY FORMATION**

- RT antigen-antibody reactions
- RT germ-free animals
- RT immunity

**anticipated transients without scram**

2017-07-18

- USE atws

**ANTICLINES**

INIS: 2000-01-21; ETDE: 1977-09-19

*Folds, the cores of which contain the stratigraphically older rocks; they are convex upward.*

- BT1 geologic structures
- RT petroleum deposits
- RT salt deposits

**ANTICOAGULANTS**

1996-07-18

(COUMARINS and DICUMAROL have been valid ETDE descriptors.)

- UF dicumarol
- SF coumarins
- \*BT1 hematologic agents
- NT1 coumarin

NT1 heparin

- NT1 psoralen
- RT blood coagulation
- RT coagulants
- RT fibrinolysin
- RT fibrinolytic agents
- RT hematinics
- RT vitamin k

**ANTICOINCIDENCE**

*Detector arrangement.*

- RT coincidence circuits
- RT counting techniques

**ANTICONVULSANTS**

INIS: 1984-05-24; ETDE: 1979-11-23

*Used extensively in suppressing the side effects of radiotherapy involving portions of the central nervous system.*

- \*BT1 central nervous system depressants
- NT1 phenobarbital
- RT radiotherapy

**anticorrosion**

- USE corrosion protection

**ANTICYCLONES**

2013-12-13

- UF high-pressure areas
- RT atmospheric pressure
- RT meteorology
- RT troposphere

**ANTIDEPRESSANTS**

INIS: 1996-07-18; ETDE: 1981-04-20

(Prior to April 1981 this concept in ETDE was indexed to PSYCHOTROPIC DRUGS.)

- UF iproniazid
- \*BT1 psychotropic drugs
- NT1 cocaine
- NT1 imipramine

**ANTIDEUTERON REACTIONS**

INIS: 1988-11-16; ETDE: 1988-12-02

- \*BT1 deutron reactions
- RT antideuterons

**ANTIDEUTERONS**

- \*BT1 antinuclei
- \*BT1 deuterons
- RT antideutron reactions

**antidiuretic hormone**

- USE vasopressin

**ANTIFERROELECTRIC MATERIALS**

- UF materials (antiferroelectric)
- \*BT1 dielectric materials
- RT ferroelectric materials

**ANTIFERROMAGNETIC MATERIALS**

- UF materials (antiferromagnetic)
- \*BT1 magnetic materials
- RT ferromagnetic materials
- RT kondo effect

**ANTIFERROMAGNETISM**

- BT1 magnetism
- NT1 mictomagnetism
- RT ferrimagnetism
- RT ferromagnetism
- RT hubbard model
- RT neel temperature

**ANTIFOULANTS**

INIS: 1985-12-10; ETDE: 1978-12-28

*Materials which prevent formation and/or deposition of foulants, e.g., on heat transfer surfaces or equipment.*

- RT biological fouling

RT corrosion  
RT deposits  
RT fouling

**ANTIFREEZE**

INIS: 2000-04-12; ETDE: 1978-03-03

RT freeze protection  
RT freezing  
RT working fluids

**ANTIGEN-ANTIBODY REACTIONS**

UF agglutination  
RT anaphylaxis  
RT antibodies  
RT antibody formation  
RT antigens  
RT complement  
RT cpb  
RT enzyme immunoassay  
RT graft-host reaction  
RT immune reactions  
RT immunity  
RT lectins  
RT radioimmunoassay

**ANTIGENS**

NT1 carcinoembryonic antigen  
NT1 histocompatibility complex  
NT1 toxins  
NT2 endotoxins  
NT2 mycotoxins  
NT3 aflatoxins  
NT1 tuberculin  
RT antibodies  
RT antigen-antibody reactions  
RT enzyme immunoassay  
RT freunds adjuvant  
RT immunity  
RT lectins  
RT membrane proteins  
RT radioimmunoassay  
RT vaccines

**ANTIGUA AND BARBUDA**

1997-03-07

\*BT1 lesser antilles

**antihistamines**

INIS: 2000-04-12; ETDE: 1981-04-20

USE antihistaminics

**ANTIHISTAMINICS**

UF antihistamines  
UF promethazine  
BT1 drugs  
RT allergy  
RT histamine

**ANTIHYPEROONS**

\*BT1 antibaryons  
\*BT1 hyperons  
NT1 antilambda particles  
NT1 antiomega particles  
NT1 antisigma particles  
NT1 antixi particles

**ANTIHYPERTENSIVE AGENTS**

INIS: 1996-10-23; ETDE: 1981-04-20

\*BT1 cardiovascular agents  
NT1 reserpine  
RT blood pressure  
RT diuretics  
RT hypertension

**ANTIKAONS**

\*BT1 antiparticles  
\*BT1 kaons  
NT1 antikaons neutral

**ANTIKAONS NEUTRAL**

\*BT1 antikaons  
\*BT1 kaons neutral

**ANTIKNOCK RATINGS**

INIS: 2000-04-12; ETDE: 1993-08-10

(Prior to December 1991 this was a valid ETDE descriptor. From December 1991 to August 1993 KNOCK CONTROL was used for this concept.)

UF cetane number  
UF cetene number  
UF octane number  
RT autoignition  
RT ignition quality  
RT knock control

**ANTILAMBDA PARTICLES**

\*BT1 antihyperons  
\*BT1 lambda particles

**ANTILEPTON-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1977-04-13

\*BT1 lepton-neutron interactions  
NT1 antineutrino-neutron interactions

**ANTILEPTON-PROTON INTERACTIONS**

ETDE: 1975-09-11

\*BT1 lepton-proton interactions  
NT1 antineutrino-proton interactions

**ANTILEPTONS**

\*BT1 antiparticles  
\*BT1 leptons  
NT1 antineutrinos  
NT2 electron antineutrinos  
NT2 muon antineutrinos  
NT1 muons plus  
NT1 positrons  
NT2 cosmic positrons

**ANTIMATTER**

BT1 matter  
NT1 antinuclei  
NT2 antideuterons  
NT2 antiprotons  
NT2 antitritons  
NT1 antiparticles  
NT2 antibaryons  
NT3 antihyperons  
NT4 antilambda particles  
NT4 antiomega particles  
NT4 antisigma particles  
NT4 antixi particles  
NT3 antinucleons  
NT4 antineutrons  
NT4 antiprotons  
NT2 antikaons  
NT3 antikaons neutral  
NT2 antileptons  
NT3 antineutrinos  
NT4 electron antineutrinos  
NT4 muon antineutrinos  
NT3 muons plus  
NT3 positrons  
NT4 cosmic positrons  
NT2 antimesons  
NT3 pseudoscalar antimesons  
NT4 anti-b neutral mesons  
NT4 anti-d neutral mesons  
NT2 antiquarks  
NT3 b antiquarks  
NT3 c antiquarks  
NT3 d antiquarks  
NT3 s antiquarks  
NT3 t antiquarks  
NT3 u antiquarks  
RT ambiplasma

**ANTIMESONS**

1999-03-05

Use more specific meson type as appropriate.

\*BT1 antiparticles  
\*BT1 mesons  
NT1 pseudoscalar antimesons  
NT2 anti-b neutral mesons  
NT2 anti-d neutral mesons

**ANTIMETABOLITES**

UF azaguanine  
BT1 drugs  
NT1 adenines  
NT2 kinetin  
NT1 aminopterin  
NT1 bromouracils  
NT2 budr  
NT1 deoxyuridine  
NT1 ethionine  
NT1 fluorodeoxyglucose  
NT1 fluorouracils  
NT2 fudr  
NT1 iodouracils  
NT2 iododeoxyuridine  
NT1 mercaptopurine  
NT1 methotrexate  
NT1 thiouracil  
RT alkylating agents  
RT antimitotic drugs  
RT chemosterilants  
RT metabolites  
RT synchronization  
RT synchronous cultures

**ANTIMICROBIAL AGENTS**

INIS: 1996-10-23; ETDE: 1981-04-20

(Prior to February 1992, this concept was indexed to ANTIBIOTICS.)

UF methenamine  
\*BT1 anti-infective agents  
NT1 fudr  
NT1 isoniazid  
NT1 methylene blue  
NT1 quinine  
NT1 sulfonamides

**ANTIMITOTIC DRUGS**

UF cytostatics  
UF cytotoxins  
BT1 drugs  
NT1 actinomycin  
NT1 bleomycin  
NT1 colchicine  
NT1 mitomycin  
NT1 nem  
NT1 oncovin  
NT1 vinblastine  
RT alkylating agents  
RT aminopterin  
RT anti-infective agents  
RT antibiotics  
RT antimetabolites  
RT antineoplastic drugs  
RT chemotherapy  
RT immunosuppression  
RT mitosis  
RT mutagens  
RT neocarcinostatin  
RT neoplasms  
RT radiomimetic drugs  
RT radiosensitizers

**ANTIMONATES**

INIS: 1979-09-18; ETDE: 1979-10-23

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 antimony compounds  
BT1 oxygen compounds

*RT* antimony oxides

**ANTIMONIDES**

*INIS: 1978-08-30; ETDE: 1988-09-21*

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor, except for the NTs listed below.*

BT1 antimony compounds  
BT1 pnictides  
NT1 gallium antimonides  
NT1 indium antimonides  
*RT* antimony additions  
*RT* antimony alloys  
*RT* intermetallic compounds

**ANTIMONY**

\*BT1 metals

**ANTIMONY 103**

*2007-09-26*

\*BT1 antimony isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

**ANTIMONY 104**

*INIS: 1996-06-17; ETDE: 1996-05-31*

\*BT1 antimony isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**ANTIMONY 105**

*INIS: 1996-06-17; ETDE: 1996-05-31*

\*BT1 antimony isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**ANTIMONY 106**

*INIS: 1981-07-13; ETDE: 1980-10-28*

\*BT1 antimony isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**ANTIMONY 107**

*2004-12-15*

\*BT1 antimony isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**ANTIMONY 108**

*INIS: 1977-06-14; ETDE: 1977-10-19*

\*BT1 antimony isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**ANTIMONY 109**

\*BT1 antimony isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**ANTIMONY 110**

\*BT1 antimony isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**ANTIMONY 111**

\*BT1 antimony isotopes

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**ANTIMONY 112**

\*BT1 antimony isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**ANTIMONY 113**

\*BT1 antimony isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 nanoseconds living radioisotopes  
\*BT1 odd-even nuclei

**ANTIMONY 114**

\*BT1 antimony isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**ANTIMONY 115**

\*BT1 antimony isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**ANTIMONY 116**

\*BT1 antimony isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**ANTIMONY 117**

\*BT1 antimony isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 nanoseconds living radioisotopes  
\*BT1 odd-even nuclei

**ANTIMONY 118**

\*BT1 antimony isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**ANTIMONY 118 TARGET**

*INIS: 1992-09-22; ETDE: 1982-03-29*

BT1 targets

**ANTIMONY 119**

\*BT1 antimony isotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 odd-even nuclei

**ANTIMONY 120**

\*BT1 antimony isotopes

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**ANTIMONY 120 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**ANTIMONY 121**

\*BT1 antimony isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 stable isotopes

**ANTIMONY 121 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**ANTIMONY 122**

\*BT1 antimony isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**ANTIMONY 123**

\*BT1 antimony isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 stable isotopes

**ANTIMONY 123 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**ANTIMONY 124**

\*BT1 antimony isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**ANTIMONY 125**

\*BT1 antimony isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 years living radioisotopes

**ANTIMONY 126**

\*BT1 antimony isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**ANTIMONY 127**

\*BT1 antimony isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

**ANTIMONY 127 TARGET**

*INIS: 1979-01-18; ETDE: 1978-10-23*

BT1 targets

**ANTIMONY 128**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 129**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ANTIMONY 130**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 131**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ANTIMONY 132**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 133**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ANTIMONY 134**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 135**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 136**

*INIS: 1976-07-30; ETDE: 1975-10-28*

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 137**

*2007-09-26*

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ANTIMONY 138**

*2007-09-26*

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ANTIMONY 139**

*2007-09-26*

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ANTIMONY ADDITIONS**

*Alloys containing not more than 1% Sb are listed here.*

- \*BT1 antimony alloys
- RT antimonides

**ANTIMONY ALLOYS**

*Alloys containing more than 1% Sb.*

- BT1 alloys
- NT1 antimony additions
- NT1 antimony base alloys
- NT1 terne-metal
- RT antimonides

**ANTIMONY BASE ALLOYS**

- \*BT1 antimony alloys

**ANTIMONY BROMIDES**

- \*BT1 antimony halides
- \*BT1 bromides

**ANTIMONY CHLORIDES**

- \*BT1 antimony halides
- \*BT1 chlorides

**ANTIMONY COMPLEXES**

- BT1 complexes

**ANTIMONY COMPOUNDS**

*1997-06-17*

- NT1 antimonates
- NT1 antimonides
  - NT2 gallium antimonides
  - NT2 indium antimonides
- NT1 antimony halides
  - NT2 antimony bromides
  - NT2 antimony chlorides
  - NT2 antimony fluorides
  - NT2 antimony iodides
- NT1 antimony hydrides
- NT1 antimony hydroxides
- NT1 antimony oxides
- NT1 antimony selenides
- NT1 antimony sulfates
- NT1 antimony sulfides
- NT1 antimony tellurides

**ANTIMONY FLUORIDES**

- \*BT1 antimony halides
- \*BT1 fluorides

**ANTIMONY HALIDES**

*2012-07-19*

- BT1 antimony compounds
- \*BT1 halides
- NT1 antimony bromides
- NT1 antimony chlorides
- NT1 antimony fluorides
- NT1 antimony iodides

**ANTIMONY HYDRIDES**

- BT1 antimony compounds
- \*BT1 hydrides

**ANTIMONY HYDROXIDES**

- BT1 antimony compounds
- \*BT1 hydroxides

**ANTIMONY IODIDES**

- \*BT1 antimony halides
- \*BT1 iodides

**ANTIMONY IONS**

- \*BT1 ions

**ANTIMONY ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 antimony 103
- NT1 antimony 104
- NT1 antimony 105
- NT1 antimony 106
- NT1 antimony 107
- NT1 antimony 108
- NT1 antimony 109
- NT1 antimony 110
- NT1 antimony 111
- NT1 antimony 112
- NT1 antimony 113
- NT1 antimony 114
- NT1 antimony 115
- NT1 antimony 116
- NT1 antimony 117
- NT1 antimony 118
- NT1 antimony 119
- NT1 antimony 120
- NT1 antimony 121
- NT1 antimony 122
- NT1 antimony 123
- NT1 antimony 124
- NT1 antimony 125
- NT1 antimony 126
- NT1 antimony 127
- NT1 antimony 128
- NT1 antimony 129
- NT1 antimony 130
- NT1 antimony 131
- NT1 antimony 132
- NT1 antimony 133
- NT1 antimony 134
- NT1 antimony 135
- NT1 antimony 136
- NT1 antimony 137
- NT1 antimony 138
- NT1 antimony 139

**ANTIMONY OXIDES**

- BT1 antimony compounds
- \*BT1 oxides
- RT antimonates

**ANTIMONY SELENIDES**

*INIS: 1979-11-02; ETDE: 1976-01-07*

- BT1 antimony compounds
- \*BT1 selenides

**ANTIMONY SULFATES**

*2000-04-12*

- BT1 antimony compounds
- \*BT1 sulfates

**ANTIMONY SULFIDES**

- BT1 antimony compounds
- \*BT1 sulfides

**ANTIMONY TELLURIDES**

*1979-02-21*

- BT1 antimony compounds
- \*BT1 tellurides

**antimuons**

USE muons plus

**antimycin**

*INIS: 1996-10-22; ETDE: 1981-06-13*

(Until October 1996 this was a valid descriptor.)

USE antibiotics

**ANTINEOPLASTIC DRUGS**

- BT1 drugs
- NT1 actinomycin
- NT1 aminopterin
- NT1 bleomycin
- NT1 chlorambucil
- NT1 doxorubicin

**NT1** metronidazole  
**NT1** misonidazole  
**NT1** mitomycin  
**NT1** neocarcinostatin  
**NT1** puromycin  
**NT1** streptozocin  
*RT* alkylating agents  
*RT* antibiotics  
*RT* antimetabolic drugs  
*RT* chemotherapy  
*RT* combined therapy  
*RT* neoplasms

**ANTINEUTRINO BEAMS**

\*BT1 antiparticle beams  
 \*BT1 neutrino beams  
*RT* antineutrinos

**ANTINEUTRINO-ELECTRON INTERACTIONS**

\*BT1 neutrino-electron interactions

**ANTINEUTRINO-NEUTRON INTERACTIONS**

*INIS: 1977-01-25; ETDE: 1977-04-13*

\*BT1 antilepton-neutron interactions  
 \*BT1 antineutrino-nucleon interactions  
 \*BT1 neutrino-neutron interactions

**ANTINEUTRINO-NUCLEON INTERACTIONS**

\*BT1 neutrino-nucleon interactions  
**NT1** antineutrino-neutron interactions  
**NT1** antineutrino-proton interactions

**ANTINEUTRINO-PROTON INTERACTIONS**

*INIS: 1975-12-17; ETDE: 1976-01-26*

\*BT1 antilepton-proton interactions  
 \*BT1 antineutrino-nucleon interactions  
 \*BT1 neutrino-proton interactions

**ANTINEUTRINO REACTIONS**

*INIS: 1989-11-24; ETDE: 1989-12-08*

**BT1** nuclear reactions

**ANTINEUTRINOS**

\*BT1 antileptons  
 \*BT1 neutrinos  
**NT1** electron antineutrinos  
**NT1** muon antineutrinos  
*RT* antineutrino beams

**antineutron-deuteron interactions**

*2000-04-12*

(Prior to February 1995 this was a valid ETDE descriptor. From February 1995 till May 1996 ANTINEUTRON REACTIONS and DEUTERIUM TARGET were used for this concept in ETDE.)

USE antineutron-neutron interactions  
 USE proton-antineutron interactions

**ANTINEUTRON REACTIONS**

\*BT1 antinucleon reactions

**ANTINEUTRONS**

\*BT1 antinucleons  
 \*BT1 neutrons  
*RT* neutron oscillation

**antinuclear groups**

*INIS: 1982-12-03; ETDE: 2002-06-07*

USE interest groups

**ANTINUCLEI**

\*BT1 antimatter  
**BT1** nuclei  
**NT1** antideuterons  
**NT1** antiprotons  
**NT1** antitritons

**ANTINUCLEON BEAMS**

\*BT1 antiparticle beams  
**NT1** antiproton beams  
*RT* antinucleons

**ANTINUCLEON REACTIONS**

\*BT1 nucleon reactions  
**NT1** antineutron reactions  
**NT1** antiproton reactions

**ANTINUCLEONS**

\*BT1 antibaryons  
 \*BT1 nucleons  
**NT1** antineutrons  
**NT1** antiprotons  
*RT* antinucleon beams

**ANTIOMEGA PARTICLES**

\*BT1 antihyperons  
 \*BT1 omega particles

**ANTIOXIDANTS**

*RT* oxidation  
*RT* oxidizers

**ANTIPARTICLE BEAMS**

**BT1** beams  
**NT1** antineutrino beams  
**NT1** antinucleon beams  
**NT2** antiproton beams  
*RT* pomeranchuk theorem

**ANTIPARTICLES**

\*BT1 antimatter  
**BT1** elementary particles  
**NT1** antibaryons  
**NT2** antihyperons  
**NT3** antilambda particles  
**NT3** antiomega particles  
**NT3** antisigma particles  
**NT3** antixi particles  
**NT2** antinucleons  
**NT3** antineutrons  
**NT3** antiprotons  
**NT1** antikaons  
**NT2** antikaons neutral  
**NT1** antileptons  
**NT2** antineutrinos  
**NT3** electron antineutrinos  
**NT3** muon antineutrinos  
**NT2** muons plus  
**NT2** positrons  
**NT3** cosmic positrons  
**NT1** antimesons  
**NT2** pseudoscalar antimesons  
**NT3** anti-b neutral mesons  
**NT3** anti-d neutral mesons  
**NT1** antiquarks  
**NT2** b antiquarks  
**NT2** c antiquarks  
**NT2** d antiquarks  
**NT2** s antiquarks  
**NT2** t antiquarks  
**NT2** u antiquarks  
*RT* majorana fermions

**ANTIPROTON BEAMS**

\*BT1 antinucleon beams

**antineutron-deuteron interactions**

(Prior to May 1996 this was a valid ETDE descriptor.)

USE antiproton-neutron interactions  
 USE proton-antiproton interactions

**ANTIPROTON-NEUTRON INTERACTIONS**

(From January 1975 till May 1996

ANTIPROTON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

*UF* antiproton-deuteron interactions

\*BT1 nucleon-antinucleon interactions

**antineutron-proton interactions**

*ETDE: 2002-06-07*

USE proton-antiproton interactions

**ANTIPROTON REACTIONS**

\*BT1 antinucleon reactions

**ANTIPROTON SOURCES**

*INIS: 1985-12-10; ETDE: 1986-01-16*

\*BT1 particle sources

*RT* antiprotons

**antiprotonic atoms**

USE hadronic atoms

**ANTIPROTONS**

\*BT1 antinuclei  
 \*BT1 antinucleons  
 \*BT1 protons  
*RT* antiproton sources  
*RT* protonium

**ANTIPTYRETICS**

*1996-07-18*

*UF* acetophenetidin

*UF* aminopyrine

*UF* anti-inflammatory agents

*UF* phenacetin

\*BT1 central nervous system depressants

**NT1** acetylsalicylic acid

**NT1** antipyrene

**NT1** colchicine

**NT1** quinine

*RT* analgesics

*RT* fever

*RT* inflammation

**ANTIPTYRINE**

\*BT1 analgesics

\*BT1 antipyretics

\*BT1 pyrazolines

**ANTIQUARKS**

*2007-06-26*

\*BT1 antiparticles

\*BT1 quarks

**NT1** b antiquarks

**NT1** c antiquarks

**NT1** d antiquarks

**NT1** s antiquarks

**NT1** t antiquarks

**NT1** u antiquarks

**ANTIREFLECTION COATINGS**

*1976-10-07*

**BT1** coatings

*RT* optical equipment

*RT* optical systems

*RT* reflective coatings

*RT* solar absorbers

**ANTISEPTICS**

*INIS: 2000-04-12; ETDE: 1976-01-23*

*Disinfectants mild enough for use on living tissue.*

**BT1** germicides

*RT* disinfectants

*RT* drugs

**antiserum**

USE immune serums

**ANTISIGMA PARTICLES**

- \*BT1 antihyperons
- \*BT1 sigma particles

**ANTITHYROID DRUGS**

- UF thyroid antagonists
- BT1 drugs
- NT1 thiocyanates
  - NT2 ammonium thiocyanates
- NT1 thiouracil
- NT1 thiourea
- RT hyperthyroidism
- RT hypothyroidism
- RT thyroid

**ANTITOXINS**

- BT1 antibodies
- RT toxins

**ANTITRITONS**

- \*BT1 antinuclei
- \*BT1 tritons

**ANTITRUST LAWS**

1992-08-17

(From February to August 1992 this concept in ETDE was indexed to US ANTITRUST LAWS.)

- UF us antitrust laws
- BT1 laws
- RT business
- RT competition
- RT conflicts of interest
- RT marketing
- RT monopolies

**ANTITRUST REVIEW**

1999-07-20

A review to establish whether a situation would be created or maintained which would be inconsistent with antitrust laws.

- BT1 legal aspects
- RT reactor licensing

**ANTIXI PARTICLES**

- \*BT1 antihyperons
- \*BT1 xi particles

**ANTLERS**

- \*BT1 bone tissues
- RT deer

**antrim shales**

INIS: 1992-07-22; ETDE: 1980-10-27

- USE black shales

**ANTS**

INIS: 1993-07-12; ETDE: 1981-06-16

- \*BT1 hymenoptera

**ANU SUPERCONDUCTING LINAC**

INIS: 1996-08-06; ETDE: 1998-07-07

Linear Accelerator at the Australian National University, Department of Nuclear Physics.

- \*BT1 linear accelerators

**ANVIL POINTS RESEARCH FACILITY**

2000-04-12

- \*BT1 oil shale processing plants
- RT oil shales

**ANVIL PROJECT**

INIS: 1999-03-05; ETDE: 1977-06-21

- UF banon event
- UF billet event
- UF cheshire event
- UF chiberta event
- UF colby event
- UF esrom event
- UF estuary event
- UF fontina event

- UF husky pup event
- UF inlet event
- UF kasseri event
- UF keelson event
- UF leyden event
- UF marsh event
- UF muenster event
- UF pool event
- UF project anvil
- UF strait event
- \*BT1 nuclear explosions
- RT contained explosions
- RT underground explosions

**ANYONS**

1992-03-18

- BT1 quasi particles
- NT1 abelian anyons
- RT plektons
- RT quantum field theory
- RT statistical mechanics
- RT superconductivity

**AO-PHAI-1 REACTOR**

INIS: 1985-03-15; ETDE: 1985-04-09

- UF sriracha reactor
- \*BT1 power reactors

**AORTA**

- \*BT1 arteries
- RT heart
- RT mediastinum

**apa**

INIS: 2000-04-12; ETDE: 1980-03-29

- USE alaska power administration

**apache**

1996-07-16

Accelerator for Physics And Chemistry of Heavy Elements.

(Until July 1996 this was a valid descriptor.)

- USE isochronous cyclotrons

**APARTMENT BUILDINGS**

1985-07-22

- \*BT1 residential buildings
- RT commercial buildings
- RT households

**APATITES**

- UF calcium hydroxyapatite
- \*BT1 phosphate minerals
- RT kimberlites

**APERTURES**

- BT1 openings
- RT orifices

**APES**

- \*BT1 primates
- RT monkeys

**APFA-3 REACTOR**

Accelerator Pulsed Fast Critical Assembly. General Atomic Co., San Diego, California, USA. Shut down in 1973.

- UF accelerator pulsed fast assembly
- \*BT1 zero power reactors

**APHIDS**

- \*BT1 hemiptera

**API GRAVITY**

INIS: 1993-09-01; ETDE: 1976-03-11

Scale adopted by American Petroleum Institute to express the specific gravity of oils.

- \*BT1 density

**apis mellifera**

INIS: 2000-04-12; ETDE: 1981-04-17

- USE bees

**aplastic anemia**

- USE anemias

**APLITES**

- UF alaskites
- \*BT1 granites
- RT feldspars
- RT quartz

**APOLIPOPROTEINS**

INIS: 1992-09-18; ETDE: 1978-08-07

- \*BT1 lipoproteins
- RT coenzymes

**APOLLO PROJECT**

- UF project apollo
- RT lunar materials
- RT moon
- RT space flight

**APOPTOSIS**

INIS: 1999-04-19; ETDE: 1999-05-03

- RT cell differentiation
- RT cell killing
- RT ontogenesis

**appalachia**

2000-04-12

The mountainous region, including valleys and plateaus extending through the eastern USA from New England to Georgia and Alabama.

(Prior to August 1992 this was a valid descriptor.)

- USE appalachian mountains

**APPALACHIAN BASIN**

INIS: 1992-08-18; ETDE: 1989-09-08

- \*BT1 sedimentary basins
- NT1 chattanooga formation

**APPALACHIAN MOUNTAINS**

- UF appalachia
- BT1 mountains
- NT1 adirondack mountains
- RT canada
- RT usa

**appalachian orogeny**

INIS: 2000-04-12; ETDE: 1977-10-20

- SEE permian period

**apparatus**

1982-12-06

- USE equipment

**APPARENT MOLAL VOLUME**

INIS: 2000-04-12; ETDE: 1975-09-11

Apparent molal volume is equal to the total volume of the solution minus the volume of the solvent divided by the number of moles of the solute.

- RT thermodynamic properties

**APPEALS**

INIS: 1995-04-10; ETDE: 1979-12-10

- BT1 administrative procedures

**appendix (vermiform)**

- USE large intestine
- USE lymphatic system

**APPENNINES**

INIS: 1976-10-07; ETDE: 1976-11-01

- \*BT1 italy
- BT1 mountains

**APPLE COMPUTERS**

INIS: 1992-08-18; ETDE: 1981-12-21

- BT1 computers

**APPLES**

- \*BT1 fruits



- RT codling moth  
RT fruit trees  
RT rosaceae

**APPLIANCES**

1993-01-22

- BT1 equipment  
NT1 coal burning appliances  
NT1 electric appliances  
NT2 clothes dryers  
NT2 clothes washers  
NT2 dishwashers  
NT2 microwave ovens  
NT1 freezers  
NT1 gas appliances  
NT1 ovens  
NT2 microwave ovens  
NT1 space heaters  
NT2 convectors  
NT1 stoves  
NT1 water coolers  
NT1 water heaters  
NT2 solar water heaters  
NT3 passive solar water heaters  
NT4 thermic diode solar panels  
NT1 wood burning appliances  
NT2 wood burning furnaces  
RT air conditioners

**applications**

- USE uses

**applicators (radiotherapy)**

- USE radiation sources

**appraisal**

INIS: 2000-04-12; ETDE: 1980-05-06

(Prior to August 1992 this was a valid ETDE descriptor.)

- USE cost estimation

**APPROPRIATE TECHNOLOGY**

INIS: 1999-06-23; ETDE: 1993-08-31

*A technology anywhere between the simplest and the most sophisticated that is appropriate for accomplishing a particular task.*

- UF intermediate technology  
RT best available technology  
RT renewable energy sources  
RT technology assessment  
RT technology impacts  
RT technology utilization

**approximation (bohr)**

INIS: 1976-03-17; ETDE: 1976-05-17

- USE nilsson-mottelson model

**approximation (distorted-wave)**

ETDE: 2002-06-07

- USE dwba

**approximation (fixed scattering centres)**

ETDE: 2002-06-07

- USE fsc approximation

**APPROXIMATIONS**

INIS: 2006-02-06; ETDE: 2006-01-31

*Use of a more specific term from this word block is recommended.*

- BT1 calculation methods  
NT1 adiabatic approximation  
NT1 born approximation  
NT2 coupled channel born approximation  
NT2 dwba  
NT1 born-oppenheimer approximation  
NT1 brinkman-kramers approximation  
NT1 broken-pair approximation  
NT1 diabatic approximation  
NT1 dirac approximation

- NT1 eikonal approximation  
NT1 equivalent-photon approximation  
NT1 fsc approximation  
NT1 guiding-center approximation  
NT1 hartree-fock method  
NT1 impulse approximation  
NT1 ladder approximation  
NT1 pade approximation  
NT1 random phase approximation  
NT1 rosseland approximation  
NT1 semiclassical approximation  
NT1 spherical harmonics method  
NT2 p1-approximation  
NT2 p2-approximation  
NT2 p3-approximation  
NT1 straight-line path approximation  
NT1 sudden approximation  
NT1 tomonaga approximation  
NT1 unitary pole approximation  
NT1 wkb approximation  
NT1 zero-range approximation

**apra reactor**

- USE aprf reactor

**APRF REACTOR**

*Aberdeen Proving Ground, Aberdeen, Maryland, USA.*

- UF aberdeen maryland reactor  
UF apra reactor  
UF army pulsed reactor assembly  
\*BT1 fast reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors

**APRICOTS**

1993-07-12

- \*BT1 fruits  
RT fruit trees  
RT rosaceae

**APS REACTOR**

*Obninsk, Kaluga, Russian Federation.*

*Permanent shutdown since 2002.*

- UF am-1 reactor  
\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**aps storage ring**

INIS: 1992-08-17; ETDE: 1992-06-11

- USE advanced photon source

**APSARA REACTOR**

*Bhabha Atomic Research Center, Trombay, Maharashtra, India.*

- \*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**AQUA REGIA**

- RT hydrochloric acid  
RT nitric acid

**aquaclaus process**

INIS: 2000-04-12; ETDE: 1977-12-22

*Sulfur dioxide is removed from Claus plant tail gas or other gaseous waste using phosphate base adsorbent solution.*

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**AQUACULTURE**

INIS: 1991-09-18; ETDE: 1975-11-11

*Cultivation of natural faunal and/or floral resources of water.*

- UF aquiculture  
UF mariculture  
RT fisheries  
RT fishes  
RT hydroponic culture  
RT waste heat utilization

**AQUATIC ECOSYSTEMS**

- UF brackish water ecosystems  
UF estuarine ecosystems  
UF fresh water ecosystems  
UF marine ecosystems  
BT1 ecosystems  
NT1 wetlands  
NT2 marshes  
NT2 swamps  
RT amphibians  
RT aquatic organisms  
RT benthos  
RT biochemical oxygen demand  
RT cattails  
RT chemical oxygen demand  
RT eutrophication  
RT hydrosphere  
RT limnology  
RT otters  
RT rotifera

**AQUATIC ORGANISMS**

1997-06-17

*Unspecified biota characteristic of aquatic ecosystems.*

- UF azolla  
UF manatees  
NT1 amphibians  
NT2 frogs  
NT2 salamanders  
NT3 triturus  
NT2 toads  
NT1 aufwuchs  
NT1 benthos  
NT2 echinoderms  
NT3 sea urchins  
NT1 bryozoa  
NT1 cetaceans  
NT1 crustaceans  
NT2 branchiopods  
NT3 artemia  
NT3 daphnia  
NT2 copepods  
NT2 decapods  
NT3 crabs  
NT3 lobsters  
NT3 prawns  
NT3 shrimp  
NT1 fishes  
NT2 anadromous fishes  
NT3 salmon  
NT3 striped bass  
NT2 codfish  
NT2 eel  
NT2 fathead minnow  
NT2 goldfish  
NT2 plaice  
NT2 trout  
NT2 tuna  
NT1 molluscs  
NT2 clams  
NT2 mussels  
NT2 oysters  
NT2 snails  
NT1 pinnipeds  
NT1 plankton  
NT2 ichthyoplankton  
NT2 phytoplankton

NT2 zooplankton  
 NT1 rotifera  
 NT1 seaweeds  
 NT2 fucus  
 NT2 laminaria  
 NT1 water hyacinths  
 RT algae  
 RT animals  
 RT aquatic ecosystems  
 RT ephemeroptera  
 RT otters  
 RT plants

### aqueous carbonate process

INIS: 2000-04-12; ETDE: 1977-06-24  
 USE desulfurization

### AQUEOUS HOMOGENEOUS REACTORS

\*BT1 liquid homogeneous reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 NT1 ai-1-77 reactor  
 NT1 argus reactor  
 NT1 ber-2 reactor  
 NT1 byu 1-77 reactor  
 NT1 cesnef reactor  
 NT1 dr-1 reactor  
 NT1 frf reactor  
 NT1 gidra reactor  
 NT1 hre-2 reactor  
 NT1 jrr-1 reactor  
 NT1 kewb reactor  
 NT1 kstr reactor  
 NT1 nscr-1 reactor  
 NT1 nevada university reactor  
 NT1 prnc-1-77 reactor  
 NT1 supo reactor  
 NT1 wrrr reactor

### aqueous humor

USE body fluids  
 USE eyes

### AQUEOUS SOLUTIONS

UF water solutions  
 \*BT1 solutions  
 RT water

### AQUICLUDES

1992-06-05  
*Bodies of relatively impermeable rock that are capable of absorbing water slowly but function as upper or lower boundaries of aquifers and do not transmit ground water rapidly enough to supply a well or spring.*  
 RT ground water  
 RT rocks  
 RT water reservoirs

### aquiculture

INIS: 1991-09-18; ETDE: 1975-11-11  
 USE aquaculture

### AQUIFERS

*A stratum of permeable rock, sand, or gravel that will yield a significant quantity of water.*  
 UF ground-water reserves  
 NT1 saline aquifers  
 RT artesian basins  
 RT ground water  
 RT hydrology  
 RT reservoir pressure  
 RT rocks  
 RT sand  
 RT underground  
 RT water influx  
 RT water tables

### AQUILON REACTOR

*decommissioned since 1986.*  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

### ARAB ATOMIC ENERGY AGENCY

INIS: 1992-03-24; ETDE: 1992-04-09  
 BT1 international organizations

### ARAB COUNTRIES

INIS: 1997-01-06; ETDE: 1992-08-05  
 NT1 algeria  
 NT1 bahrain  
 NT1 djibouti  
 NT1 egyptian arab republic  
 NT1 iraq  
 NT1 jordan  
 NT1 kuwait  
 NT1 lebanon  
 NT1 libyan arab jamahiriya  
 NT1 mauritania  
 NT1 morocco  
 NT1 oman  
 NT1 qatar  
 NT1 saudi arabia  
 NT1 somalia  
 NT1 sudan  
 NT1 syria  
 NT1 tunisia  
 NT1 united arab emirates  
 NT1 yemen  
 RT africa  
 RT asia  
 RT middle east

### arab republic of egypt

USE egyptian arab republic

### ARABIAN SEA

\*BT1 indian ocean  
 NT1 persian gulf  
 NT2 strait of hormuz

### ARABIDOPSIS

\*BT1 magnoliopsida

### ARABINOSE

\*BT1 aldehydes  
 \*BT1 pentoses  
 RT gum acacia

### arachidic acid

USE eicosanoic acid

### ARACHIDONIC ACID

\*BT1 monocarboxylic acids

### ARACHNIDS

\*BT1 arthropods  
 NT1 mites  
 NT1 scorpions  
 NT1 spiders  
 NT1 ticks

### ARAGONITE

*A white, yellowish, or gray orthorhombic mineral.*  
 \*BT1 carbonate minerals  
 RT calcium carbonates

### ARAL SEA

INIS: 1998-12-30; ETDE: 1999-01-28  
 \*BT1 lakes  
 \*BT1 seas  
 RT kazakhstan  
 RT uzbekistan

### ARALDITE

\*BT1 epoxides  
 \*BT1 organic polymers  
 RT homalite  
 RT resins

### aralex process

INIS: 2000-04-12; ETDE: 1979-11-07  
*2-ethyl-1-hexanol is used to extract tbp degradation products from acidified sodium carbonate scrub waste leaving actinides in the aqueous phase.*  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE radioactive waste processing

### ARAMIDS

INIS: 1996-08-05; ETDE: 1978-07-06  
 (Until July 1996 this concept was indexed to POLYAMIDES.)  
 UF kevlar  
 \*BT1 plastics  
 RT fibers

### arbeitsgemeinschaft versuchsreaktor

INIS: 1993-11-03; ETDE: 2002-06-07  
 USE avr reactor

### ARBI REACTOR

*Bilbao, Vizcaya, Spain.*  
 UF argonaut bilbao reactor  
 UF bilbao argonaut reactor  
 \*BT1 argonaut type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

### ARBITRATION

INIS: 1976-12-08; ETDE: 1977-06-24  
 (From March 1981 till March 1997  
 MEDIATION was a valid ETDE descriptor.)  
 SF mediation  
 RT dispute settlements  
 RT hearings  
 RT lawsuits

### ARBOR PROJECT

2000-04-12  
 \*BT1 nuclear explosions  
 \*BT1 underground explosions  
 RT nevada test site

### ARBUS REACTOR

UF ast-1 reactor  
 UF melekess-arbus reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 omr type reactors  
 \*BT1 power reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

### ARC COAL PROCESS

2000-04-12  
*Avco Corp. process for production of acetylene and recovery of carbon black, hcn, char, low-btu fuel gas, and sulfur.*  
 \*BT1 coal gasification

### ARC-DISCHARGE ION SOURCES

2018-02-26  
 \*BT1 plasma ion sources  
 NT1 vacuum-arc ion sources  
 NT2 mevva ion sources

### ARC FURNACES

\*BT1 electric furnaces  
 RT plasma furnaces  
 RT vacuum furnaces

### ARC WELDING

UF flux cored arc welding

- \*BT1 welding
- NT1 gas metal-arc welding
- NT2 gas tungsten-arc welding
- NT1 plasma arc welding
- NT1 shielded metal-arc welding
- NT1 submerged arc welding
- RT electroslog welding
- RT sputtering

**ARCHAEOLOGICAL SITES**

INIS: 1985-12-10; ETDE: 1978-07-06

- RT archaeological specimens
- RT archaeology
- RT cultural objects
- RT site selection

**ARCHAEOLOGICAL SPECIMENS**

- RT archaeological sites
- RT archaeology
- RT cultural objects
- RT cultural resources
- RT fossils

**ARCHAEOLOGY**

- RT age estimation
- RT archaeological sites
- RT archaeological specimens
- RT historical aspects

**ARCHITECTS**

INIS: 1992-08-06; ETDE: 1980-01-15

- SF professional personnel
- BT1 personnel
- RT architecture
- RT builders
- RT buildings
- RT construction industry
- RT solar architecture

**ARCHITECTURE**

1992-03-10

- NT1 solar architecture
- NT1 vernacular architecture
- RT aesthetics
- RT architects
- RT buildings
- RT cultural resources
- RT thermal comfort

**arco process**

2000-03-24

(Prior to February 1995, this was a valid ETDE descriptor.)

- SEE reprocessing
- SEE solvent extraction

**ARCTIC GAS PIPELINES**

INIS: 2000-04-12; ETDE: 1976-07-07

- BT1 pipelines
- RT natural gas
- RT transport

**arctic haze**

INIS: 2000-04-12; ETDE: 1987-04-08

*Abundance of tropospheric carbonaceous aerosols north of 60 deg n, present during winter and spring, but almost absent during summer. Use AEROSOLS, AIR POLLUTION, or other pertinent term and the descriptor below.*

(Prior to February 1997 this was a valid ETDE descriptor.)

- USE arctic regions

**ARCTIC OCEAN**

1977-09-06

- \*BT1 seas
- NT1 beaufort sea
- NT2 prudhoe bay
- NT1 chukchi sea
- RT arctic regions
- RT greenland

**ARCTIC REGIONS**

1995-11-22

(From April 1987 till February 1997 ARCTIC HAZE was a valid ETDE descriptor.)

- UF arctic haze
- \*BT1 polar regions
- RT antarctic regions
- RT arctic ocean
- RT auroral zones
- RT chukchi sea
- RT climates
- RT eskimos
- RT glaciers
- RT greenland
- RT ice
- RT ice caps
- RT natural gas hydrate deposits
- RT novaya zemlya
- RT permafrost
- RT polar-cap aurorae
- RT sami people
- RT snow
- RT tundra

**ardennes b-1 reactor**

INIS: 1984-07-23; ETDE: 1984-09-05

(Electricite de France, Chooz, France. Prior to August 2010 this was a valid descriptor.)

- USE chooz-b1 reactor

**ardennes b-2 reactor**

2004-05-11

(Electricite de France, Chooz, France. Prior to August 2010 this was a valid descriptor.)

- USE chooz-b2 reactor

**ardennes reactor**

(Chooz, Ardennes, France. Prior to August 2010 this was a valid descriptor.)

- USE chooz-a reactor

**are-rr-1 reactor**

2000-04-12

- USE wwr-s-cairo reactor

**area pollution sources**

INIS: 1992-03-09; ETDE: 1980-01-15

- USE pollution sources

**arenes**

2017-04-21

- USE aromatics

**AREVA NC**

2010-03-31

*Areva Nuclear fuel Cycle*

(Known as Cogema before name change in 2006, and older material is indexed to COGEMA.)

- UF cogema
- SF *compagnie generale des matieres nucleaires*
- \*BT1 french organizations
- NT1 areva nc la hague
- NT1 areva nc malvesi
- NT1 areva nc marcoule
- NT1 areva nc miramas
- NT1 areva nc pierrelatte
- RT cea

**AREVA NC LA HAGUE**

2010-03-31

(Prior to name change in 2006 this facility was known as COGEMA LA HAGUE, and older material is so indexed.)

- UF cogema la hague
- \*BT1 areva nc
- \*BT1 fuel reprocessing plants

**AREVA NC MALVESI**

2010-03-31

- \*BT1 areva nc
- \*BT1 feed materials plants

**AREVA NC MARCOULE**

2010-03-31

(Prior to name change in 2006 this facility was known as COGEMA MARCOULE, and older material is so indexed.)

- UF cogema marcoule
- \*BT1 areva nc

**AREVA NC MIRAMAS**

2010-03-31

- \*BT1 areva nc
- \*BT1 isotope separation plants

**AREVA NC PIERRELATTE**

2010-03-31

(Prior to name change in 2006 this facility was known as COGEMA PIERRELATTE, and older material is so indexed.)

- UF cogema pierrelatte
- \*BT1 areva nc
- \*BT1 isotope separation plants

**ARGAND DIAGRAMS**

1999-09-16

*The real part of a scattering amplitude plotted versus the imaginary one.*

- \*BT1 scatterplots
- RT phase shift
- RT scattering amplitudes

**ARGENTINA**

- BT1 developing countries
- \*BT1 south america
- NT1 mendoza
- RT andes

**argentina-brasil agencia contabil controle mater nuclear**

INIS: 1999-06-22; ETDE: 2002-06-07

- USE abacc

**ARGENTINE ARN**

2000-07-11

*Argentine Autoridad Regulatoria Nuclear.*

- \*BT1 argentine organizations

**ARGENTINE CNEA**

INIS: 1993-10-01; ETDE: 1993-11-08

*Comision Nacional de Energia Atomica de la Republica Argentina.*

- UF cnea (argentina)
- \*BT1 argentine organizations

**ARGENTINE INVAP**

2003-03-18

*Argentine Investigacion Aplicada SE*

*(INVAP), San Carlos de Bariloche, Argentina.*

- UF argentine invap sociedad del estado
- UF invap (argentina)
- \*BT1 argentine organizations

**argentine invap sociedad del estado**

2003-03-18

- USE argentine invap

**ARGENTINE NASA**

2009-03-30

*Argentine Nucleoelectrica Argentina SA*

*(NASA), Buenos Aires, Argentina*

- UF nasa (argentina)
- UF nucleoelectrica argentina sa
- \*BT1 argentine organizations

**ARGENTINE ORGANIZATIONS**

INIS: 1986-07-09; ETDE: 1986-12-18

- BT1 national organizations
- NT1 argentine arn

**NT1** argentine cnea  
**NT1** argentine invap  
**NT1** argentine nasa

**argentine reactor ra-0**

USE ra-0 reactor

**argentine reactor ra-1**

USE ra-1 reactor

**argentine reactor ra-2**

USE ra-2 reactor

**argentine reactor ra-3**

USE ra-3 reactor

**argentine reactor ra-4**

INIS: 2002-08-13; ETDE: 2002-06-16

USE ra-4 reactor

**argentine reactor ra-5**

INIS: 1984-06-21; ETDE: 2002-06-07

USE ra-5 reactor

**argentine reactor ra-6**

2001-03-01

USE ra-6 reactor

**argentine reactor ra-8**

2002-11-20

USE ra-8 reactor

**ARGILLITE**

INIS: 1984-04-04; ETDE: 1979-07-18

\*BT1 shales

**ARGINASE**

1999-01-28

Code numbers 3.5.3.1 and 3.5.3.10.

\*BT1 amidases

RT arginine

**ARGININE**

UF guanidylaminovaleric acid

\*BT1 amino acids

RT arginase

**ARGON**

\*BT1 rare gases

**ARGON 30**

2007-01-17

\*BT1 argon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 nanoseconds living radioisotopes

\*BT1 proton decay radioisotopes

**ARGON 31**

INIS: 1986-08-19; ETDE: 1986-09-05

\*BT1 argon isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**ARGON 32**

\*BT1 argon isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**ARGON 33**

\*BT1 argon isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**ARGON 34**

\*BT1 argon isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**ARGON 35**

\*BT1 argon isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 seconds living radioisotopes

**ARGON 36**

\*BT1 argon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 stable isotopes

**ARGON 36 REACTIONS**

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 heavy ion reactions

**ARGON 36 TARGET**

ETDE: 1976-07-09

BT1 targets

**ARGON 37**

\*BT1 argon isotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

**ARGON 37 TARGET**

INIS: 1979-02-21; ETDE: 1979-03-28

BT1 targets

**ARGON 38**

\*BT1 argon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 stable isotopes

RT argon 38 beams

**ARGON 38 BEAMS**

INIS: 1986-12-09; ETDE: 1987-02-24

\*BT1 radioactive ion beams

RT argon 38

**ARGON 38 TARGET**

ETDE: 1976-07-09

BT1 targets

**ARGON 39**

\*BT1 argon isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 years living radioisotopes

**ARGON 39 BEAMS**

INIS: 1986-12-09; ETDE: 1987-02-24

\*BT1 radioactive ion beams

**ARGON 40**

\*BT1 argon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 stable isotopes

RT argon 40 beams

**ARGON 40 BEAMS**

\*BT1 radioactive ion beams

RT argon 40

**ARGON 40 REACTIONS**

\*BT1 heavy ion reactions

**ARGON 40 TARGET**

ETDE: 1976-07-09

BT1 targets

**ARGON 41**

\*BT1 argon isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

**ARGON 42**

\*BT1 argon isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 years living radioisotopes

**ARGON 43**

\*BT1 argon isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**ARGON 44**

\*BT1 argon isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**ARGON 45**

\*BT1 argon isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**ARGON 46**

\*BT1 argon isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**ARGON 47**

INIS: 1986-08-19; ETDE: 1986-09-05

\*BT1 argon isotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

**ARGON 48**

2007-01-17

\*BT1 argon isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**ARGON 49**

INIS: 1989-09-14; ETDE: 1989-10-16

\*BT1 argon isotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

**ARGON 50**

INIS: 1989-09-14; ETDE: 1989-10-16

\*BT1 argon isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

**ARGON 51**

INIS: 1989-09-14; ETDE: 1989-10-16

\*BT1 argon isotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

**ARGON 52**

2007-01-17

\*BT1 argon isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**ARGON 53**

2007-01-17

\*BT1 argon isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**ARGON CHLORIDES**

- \*BT1 argon halides
- \*BT1 chlorides

**ARGON COMPLEXES**

- BT1 complexes

**ARGON COMPOUNDS**

1996-01-24

- BT1 rare gas compounds
- NT1 argon halides
  - NT2 argon chlorides
  - NT2 argon fluorides
  - NT2 argon iodides
- NT1 argon hydrides
- NT1 argon nitrides
- NT1 argon oxides

**ARGON FLUORIDES**

- \*BT1 argon halides
- \*BT1 fluorides

**ARGON HALIDES**

2012-07-19

- \*BT1 argon compounds
- \*BT1 halides
- NT1 argon chlorides
- NT1 argon fluorides
- NT1 argon iodides

**ARGON HYDRIDES**

- \*BT1 argon compounds
- \*BT1 hydrides

**ARGON IODIDES**

- \*BT1 argon halides
- \*BT1 iodides

**ARGON IONS**

- \*BT1 ions

**ARGON ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 argon 30
- NT1 argon 31
- NT1 argon 32
- NT1 argon 33
- NT1 argon 34
- NT1 argon 35
- NT1 argon 36
- NT1 argon 37
- NT1 argon 38
- NT1 argon 39
- NT1 argon 40
- NT1 argon 41
- NT1 argon 42
- NT1 argon 43
- NT1 argon 44
- NT1 argon 45
- NT1 argon 46
- NT1 argon 47
- NT1 argon 48
- NT1 argon 49
- NT1 argon 50
- NT1 argon 51
- NT1 argon 52
- NT1 argon 53

**argon method**

- USE isotope dating

**ARGON NITRIDES**

- \*BT1 argon compounds
- \*BT1 nitrides

**ARGON OXIDES**

INIS: 1981-11-25; ETDE: 1981-06-13

- \*BT1 argon compounds
- \*BT1 oxides

**argonaut barcelona reactor**

- USE argos reactor

**argonaut bilbao reactor**

- USE arbi reactor

**argonaut eindhoven reactor**

2000-04-12

- USE athene reactor

**argonaut lemont reactor**

- USE argonaut reactor

**ARGONAUT REACTOR**

ANL, Argonne, Illinois, USA. Shut down in 1979.

- UF argonaut lemont reactor

- UF cp-11 reactor

- \*BT1 argonaut type reactors

- \*BT1 research reactors

- \*BT1 thermal reactors

- \*BT1 training reactors

**ARGONAUT TYPE REACTORS**

- \*BT1 enriched uranium reactors

- \*BT1 research and test reactors

- \*BT1 water cooled reactors

- \*BT1 water moderated reactors

- NT1 aeg-pr-10 reactor

- NT1 arbi reactor

- NT1 argonaut reactor

- NT1 argos reactor

- NT1 athene reactor

- NT1 jason reactor

- NT1 lfr reactor

- NT1 moata reactor

- NT1 nestor reactor

- NT1 queen mary college utr-b reactor

- NT1 ra-1 reactor

- NT1 rb-2 reactor

- NT1 rien-1 reactor

- NT1 srcc-utr-100 reactor

- NT1 stark reactor

- NT1 strasbourg-cronenbourg reactor

- NT1 uftr reactor

- NT1 ulyse reactor

- NT1 urr reactor

- NT1 utr-10-kinki reactor

- NT1 vpi-utr-10 reactor

**argonauta rien-1 reactor**

- USE rien-1 reactor

**argonauta rio reactor**

- USE rien-1 reactor

**argonne advanced research reactor**

2000-04-12

- USE cp-6 reactor

**argonne fast source reactor**

- USE afsr reactor

**argonne heavy water modified reactor**

2000-04-12

- USE cp-3m reactor

**argonne heavy water reactor**

- USE cp-3 reactor

**argonne high flux reactor**

2000-04-12

- USE cp-6 reactor

**argonne national laboratory**

- USE anl

**argonne research reactor**

- USE cp-5 reactor

**argonne superconducting linac**

INIS: 1985-11-18; ETDE: 1985-04-24

- USE atlas superconducting linac

**argonne tandem/linear accelerator**

INIS: 1993-11-03; ETDE: 2002-06-07

- USE atlas superconducting linac

**argonne tank research and test reactor-aarr**

2000-04-12

- USE aarr reactor

**argonne thermal source reactor**

2000-04-12

- USE atrs reactor

**argonne zgs**

- USE zgs

**argonox process**

INIS: 2000-04-12; ETDE: 1989-05-31

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE combined soxnox processes

**ARGOS REACTOR**

Barcelona, Spain.

- UF argonaut barcelona reactor

- UF barcelona argonaut reactor

- \*BT1 argonaut type reactors

- \*BT1 research reactors

- \*BT1 thermal reactors

- \*BT1 training reactors

**argus event**

1994-10-13

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE atmospheric explosions

- USE nuclear explosions

**ARGUS REACTOR**

2004-09-09

Russian Research Center, Kurchatov Institute, Moscow, Russian Federation.

- \*BT1 aqueous homogeneous reactors

- \*BT1 enriched uranium reactors

- \*BT1 research reactors

- \*BT1 thermal reactors

**ARID LANDS**

INIS: 1992-01-09; ETDE: 1977-03-04

- NT1 deserts

- RT buffalo gourd

- RT droughts

- RT jojoba

- RT land use

- RT savannas

- RT terrestrial ecosystems

**ARIEL SATELLITES**

- BT1 satellites

**ARIZONA**

- \*BT1 usa

- RT great basin

**ARKANSAS**

- \*BT1 usa

- RT chattanooga formation

- RT mississippi river

- RT white river basin

**ARKANSAS-1 REACTOR**

Entergy Operations, Inc., Russellville, Arkansas, USA.

- UF ano-1 reactor

- UF arkansas power-light-1 reactor

- UF russellville-1 arkansas reactor

- \*BT1 pwr type reactors

**ARKANSAS-2 REACTOR**

*Energy Operations, Inc., Russellville, Arkansas, USA.*

*UF ano-2 reactor*

*UF arkansas power-light-2 reactor*

*UF russellville-2 arkansas reactor*

\*BT1 pwr type reactors

**arkansas power-light-1 reactor**

USE arkansas-1 reactor

**arkansas power-light-2 reactor**

USE arkansas-2 reactor

**ARKANSAS RIVER**

*INIS: 2000-04-12; ETDE: 1977-09-19*

\*BT1 rivers

**arktika (nuclear ship)**

*INIS: 1984-08-27; ETDE: 1994-08-10*

USE ns leonid brezhnev

**arktika reactor**

*INIS: 1984-08-27; ETDE: 1994-09-12*

(Prior to the name change in November 1982 this was a valid descriptor, and older material is so indexed.)

USE leonid brezhnev reactor

**ARMATURES**

*INIS: 1984-04-04; ETDE: 1976-09-14*

\*BT1 electrical equipment

*RT electric generators*

*RT electric motors*

*RT rotors*

*RT stators*

**ARMENIA**

*INIS: 1997-08-20; ETDE: 1993-04-08*

(Until January 1993, this was indexed by USSR.)

*SF soviet union*

*SF union of soviet socialist republics*

*SF ussr*

BT1 asia

*RT caucasus*

**ARMENIAN-1 REACTOR**

*INIS: 1984-08-23; ETDE: 1984-09-20*

*Metsamor, Armenia. Permanent shutdown since 1989.*

*UF oktemberian-1 reactor*

\*BT1 wwer type reactors

**ARMENIAN-2 REACTOR**

*INIS: 1984-08-23; ETDE: 1984-09-20*

*UF oktemberian-2 reactor*

\*BT1 wwer type reactors

**ARMENIAN ORGANIZATIONS**

*1999-07-12*

BT1 national organizations

**ARMF-1 REACTOR**

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1977.*

*UF advanced reactivity measurement facility-1*

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**ARMOR**

*INIS: 1999-02-23; ETDE: 1976-09-28*

*RT guns*

*RT projectiles*

**ARMS**

*INIS: 1976-02-11; ETDE: 1976-04-19*

\*BT1 limbs

NT1 hands

NT2 fingers

**ARMS CONTROL**

*INIS: 1998-06-10; ETDE: 1985-08-09*

*SF disarmament*

*RT bangkok treaty*

*RT ctb*

*RT ctbto*

*RT fmct*

*RT non-proliferation policy*

*RT non-proliferation treaty*

*RT nuclear disarmament*

*RT nuclear freeze*

*RT nuclear weapons dismantlement*

*RT pelindaba treaty*

*RT rarotonga treaty*

*RT salt talks*

*RT tlattelolco treaty*

*RT unidir*

*RT us acda*

*RT verification*

*RT weapons*

**army personnel**

USE military personnel

**army pulsed reactor assembly**

USE aprf reactor

**aromatic acids**

USE carboxylic acids

**aromatic compounds**

USE aromatics

**aromatic hydrocarbons**

*ETDE: 2002-06-07*

USE aromatics

**AROMATICS**

*1996-10-23*

*UF arenes*

*UF aromatic compounds*

*UF aromatic hydrocarbons*

*UF aryl hydrocarbons*

*UF ndpp*

*SF syntans*

\*BT1 hydrocarbons

NT1 acetophenone

NT1 alkylated aromatics

NT2 cumene

NT2 cymene

NT2 durene

NT2 mesitylene

NT2 methylnaphthalenes

NT2 styrene

NT2 toluene

NT2 xylenes

NT3 xylene-para

NT1 aniline

NT1 azaarenes

NT2 acridines

NT3 acridine orange

NT3 flavines

NT4 acriflavine

NT4 proflavine

NT2 carbazoles

NT2 indoles

NT3 indigo

NT3 indocyanine green

NT3 lysergic acid

NT3 reserpine

NT3 strychnine

NT3 tryptamines

NT4 melatonin

NT4 serotonin

NT5 bufotenine

NT3 tryptophan

NT3 vinblastine

NT2 phenanthrolines

NT3 ferroin

NT3 phenanthroline-ortho

NT2 pteridines

NT3 aminopterin

NT3 folic acid

NT2 purines

NT3 adenines

NT4 kinetin

NT3 guanine

NT3 guanosine

NT3 hypoxanthine

NT3 inosine

NT3 mercaptopurine

NT3 xanthines

NT4 caffeine

NT4 theobromine

NT4 theophylline

NT4 uric acid

NT2 quinolines

NT3 ferron

NT3 oxine

NT3 quinaldine

NT1 benzene

NT1 benzidine

NT1 benzyl alcohol

NT1 bibenzyl

NT1 biphenyl

NT1 ddt

NT1 divinylbenzene

NT1 halogenated aromatic hydrocarbons

NT2 brominated aromatic hydrocarbons

NT2 chlorinated aromatic hydrocarbons

NT3 aldrin

NT3 polychlorinated biphenyls

NT2 fluorinated aromatic hydrocarbons

NT2 iodinated aromatic hydrocarbons

NT1 indan

NT1 methyl tyrosine

NT1 oligophenylenes

NT1 pethidine

NT1 phenols

NT2 cresols

NT2 dinitrophenol

NT2 eriochrome dyes

NT2 hydroxypropiofenone

NT2 naphthols

NT3 1-nitroso-2-naphthol

NT3 nitroso-r salt

NT3 pyridylazonaphthol

NT3 thiorin

NT3 trypan blue

NT2 nitrophenol

NT2 phenol

NT2 phenolphthalein

NT2 picric acid

NT2 polyphenols

NT3 arsenazo

NT3 bromosulfophthalein

NT3 catecholamines

NT3 curcumin

NT3 dopamine

NT3 fluorescein

NT4 erythrosine

NT3 hematoxylin

NT3 morin

NT3 pyridylazoresorcinol

NT3 pyrocatechol

NT3 pyrogallol

NT3 quercetin

NT3 resorcinol

NT3 stilbestrol

NT3 tannic acid

NT3 tiron

NT2 thymol

NT2 tyramine

NT2 xylenols

NT1 phenylalanine

NT1 polycyclic aromatic hydrocarbons

NT2 3-methylcholanthrene

NT2 acenaphthene

NT2 anthracene

**NT2** azulene  
**NT2** benzanthracene  
**NT2** benzopyrene  
**NT2** calixarenes  
**NT2** cholanthrene  
**NT2** chrysene  
**NT2** dimethylbenzanthracene  
**NT2** fluorene  
**NT2** indene  
**NT2** indocyanine green  
**NT2** methyl-naphthalenes  
**NT2** naphthalene  
**NT2** pentacene  
**NT2** perylene  
**NT2** phenanthrene  
**NT2** polyphenyls  
**NT3** terphenyls  
**NT4** terphenyl-ortho  
**NT4** terphenyl-para  
**NT2** pyrene  
**NT2** quaterphenyls  
**NT2** tetracene  
**NT2** triphenylene  
**NT1** quinones  
**NT2** anthraquinones  
**NT3** alizarin  
**NT3** carminic acid  
**NT3** quinizarin  
**NT2** benzoquinones  
**NT3** chloranil  
**NT3** chloranilic acid  
**NT3** plastoquinone  
**NT3** ubiquinone  
**NT2** rhodizonic acid  
**NT2** vitamin k  
**NT1** stilbene  
**NT1** tetralin  
**NT1** tolan  
**NT1** triphenylmethane dyes  
**NT2** methyl violet  
**NT2** methylthymol blue  
*RT* aromatization  
*RT* cyanine dyes  
*RT* hydroaromatics  
*RT* oleoresins  
*RT* organic coolants  
*RT* organic moderators  
*RT* solvesso  
*RT* squarylium dyes

**AROMATIZATION**

1986-05-26

*Conversion of any nonaromatic hydrocarbon structure to aromatic hydrocarbon.*

**BT1** chemical reactions  
*RT* aromatics

**ARPANSA**

2015-04-07

*UF* australian radiation protection and nuclear safety agency

**\*BT1** australian organizations

**ARRAY PROCESSORS**

*INIS: 1997-06-17; ETDE: 1979-08-08*

*Multiprocessors composed of sets of identical CPUs, each set acting synchronously under the control of a common unit.*

*UF* multiprocessors

**\*BT1** digital computers  
*RT* cedar computers  
*RT* computer architecture  
*RT* data processing  
*RT* digital filters  
*RT* hypercube computers  
*RT* microprocessors  
*RT* task scheduling

**ARRHENIUS EQUATION**

**BT1** equations

*RT* activation energy  
*RT* chemical reaction kinetics  
*RT* partition  
*RT* reaction kinetics

**arsanilic acid**

1996-07-16

(Until July 1996 this was a valid descriptor.)

**USE** amines  
**USE** arsonic acids

**ARSENATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

**BT1** arsenic compounds  
**BT1** oxygen compounds  
*RT* arsenic oxides

**ARSENAZO**

**\*BT1** arsonic acids  
**\*BT1** azo compounds  
**\*BT1** polyphenols  
**BT1** reagents  
**\*BT1** sulfonic acids

**ARSENIC**

**\*BT1** semimetals

**ARSENIC 60**

2007-04-19

**\*BT1** arsenic isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-odd nuclei

**ARSENIC 61**

2007-04-19

**\*BT1** arsenic isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei

**ARSENIC 62**

2007-04-19

**\*BT1** arsenic isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-odd nuclei  
**\*BT1** proton decay radioisotopes

**ARSENIC 63**

2007-04-19

**\*BT1** arsenic isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei  
**\*BT1** proton decay radioisotopes

**ARSENIC 64**

*INIS: 2003-01-03; ETDE: 2002-12-26*

**\*BT1** arsenic isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** odd-odd nuclei  
**\*BT1** proton decay radioisotopes

**ARSENIC 65**

*INIS: 1990-12-05; ETDE: 1991-01-14*

**\*BT1** arsenic isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei

**ARSENIC 66**

*INIS: 1979-09-18; ETDE: 1979-03-29*

**\*BT1** arsenic isotopes  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** odd-odd nuclei

**ARSENIC 67**

*INIS: 1978-07-03; ETDE: 1978-04-06*

**\*BT1** arsenic isotopes  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes

**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei  
**\*BT1** seconds living radioisotopes

**ARSENIC 68**

**\*BT1** arsenic isotopes  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-odd nuclei

**ARSENIC 69**

**\*BT1** arsenic isotopes  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-even nuclei

**ARSENIC 70**

**\*BT1** arsenic isotopes  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-odd nuclei

**ARSENIC 71**

**\*BT1** arsenic isotopes  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** days living radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei

**ARSENIC 72**

**\*BT1** arsenic isotopes  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** days living radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-odd nuclei

**ARSENIC 73**

**\*BT1** arsenic isotopes  
**\*BT1** days living radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei

**ARSENIC 74**

**\*BT1** arsenic isotopes  
**\*BT1** beta-minus decay radioisotopes  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** days living radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-odd nuclei

**ARSENIC 75**

**\*BT1** arsenic isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** isomeric transition isotopes  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** odd-even nuclei  
**\*BT1** stable isotopes

**ARSENIC 75 TARGET**

*ETDE: 1976-07-09*

**BT1** targets

**ARSENIC 76**

**\*BT1** arsenic isotopes  
**\*BT1** beta-minus decay radioisotopes  
**\*BT1** days living radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-odd nuclei

**ARSENIC 77**

**\*BT1** arsenic isotopes  
**\*BT1** beta-minus decay radioisotopes  
**\*BT1** days living radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei

**ARSENIC 78**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 79**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ARSENIC 80**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 81**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 82**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 83**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 84**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 85**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 86**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ARSENIC 87**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ARSENIC 88**

2007-04-19

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 89**

2007-04-19

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ARSENIC 90**

2007-04-19

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 91**

2007-04-19

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ARSENIC 92**

2007-04-19

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC ADDITIONS**

- \*BT1 arsenic alloys

**ARSENIC ALLOYS***Alloys containing more than 1% As.*

- BT1 alloys
- NT1 arsenic additions
- RT arsenides

**ARSENIC BROMIDES**

- \*BT1 arsenic halides
- \*BT1 bromides

**ARSENIC CHLORIDES**

- \*BT1 arsenic halides
- \*BT1 chlorides

**ARSENIC COMPLEXES**

- BT1 complexes

**ARSENIC COMPOUNDS**

1996-06-26

- UF *arsonium compounds*
- UF *cacodylic acid*
- NT1 arsenates
- NT1 arsenic halides
- NT2 arsenic bromides
- NT2 arsenic chlorides
- NT2 arsenic fluorides
- NT2 arsenic iodides
- NT1 arsenic hydrides
- NT1 arsenic oxides
- NT1 arsenic selenides
- NT1 arsenic sulfides
- NT1 arsenic tellurides
- NT1 arsenides
- NT2 aluminium arsenides
- NT2 americium arsenides
- NT2 berkelium arsenides
- NT2 boron arsenides
- NT2 cadmium arsenides
- NT2 californium arsenides
- NT2 cerium arsenides
- NT2 cobalt arsenides
- NT2 copper arsenides
- NT2 curium arsenides
- NT2 europium arsenides
- NT2 gadolinium arsenides
- NT2 gallium arsenides
- NT2 germanium arsenides
- NT2 hafnium arsenides
- NT2 indium arsenides
- NT2 iron arsenides
- NT2 lithium arsenides
- NT2 magnesium arsenides
- NT2 manganese arsenides
- NT2 molybdenum arsenides
- NT2 neptunium arsenides

- NT2 nickel arsenides
- NT2 niobium arsenides
- NT2 palladium arsenides
- NT2 platinum arsenides
- NT2 plutonium arsenides
- NT2 praseodymium arsenides
- NT2 rhodium arsenides
- NT2 ruthenium arsenides
- NT2 samarium arsenides
- NT2 silicon arsenides
- NT2 silver arsenides
- NT2 tantalum arsenides
- NT2 tellurium arsenides
- NT2 terbium arsenides
- NT2 thorium arsenides
- NT2 thulium arsenides
- NT2 tin arsenides
- NT2 titanium arsenides
- NT2 uranium arsenides
- NT2 vanadium arsenides
- NT2 yttrium arsenides
- NT2 zinc arsenides
- NT2 zirconium arsenides
- NT1 thorin
- RT organic arsenic compounds

**ARSENIC FLUORIDES**

- \*BT1 arsenic halides
- \*BT1 fluorides

**ARSENIC HALIDES**

2012-07-19

- BT1 arsenic compounds
- \*BT1 halides
- NT1 arsenic bromides
- NT1 arsenic chlorides
- NT1 arsenic fluorides
- NT1 arsenic iodides

**ARSENIC HYDRIDES**

- BT1 arsenic compounds
- \*BT1 hydrides

**ARSENIC IODIDES**

- \*BT1 arsenic halides
- \*BT1 iodides

**ARSENIC IONS**

- \*BT1 ions

**ARSENIC ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 arsenic 60
- NT1 arsenic 61
- NT1 arsenic 62
- NT1 arsenic 63
- NT1 arsenic 64
- NT1 arsenic 65
- NT1 arsenic 66
- NT1 arsenic 67
- NT1 arsenic 68
- NT1 arsenic 69
- NT1 arsenic 70
- NT1 arsenic 71
- NT1 arsenic 72
- NT1 arsenic 73
- NT1 arsenic 74
- NT1 arsenic 75
- NT1 arsenic 76
- NT1 arsenic 77
- NT1 arsenic 78
- NT1 arsenic 79
- NT1 arsenic 80
- NT1 arsenic 81
- NT1 arsenic 82
- NT1 arsenic 83
- NT1 arsenic 84
- NT1 arsenic 85
- NT1 arsenic 86
- NT1 arsenic 87



NT1 arsenic 88  
 NT1 arsenic 89  
 NT1 arsenic 90  
 NT1 arsenic 91  
 NT1 arsenic 92

**ARSENIC OXIDES**

1996-07-08

BT1 arsenic compounds  
 \*BT1 oxides  
 RT arsenates  
 RT hallimondite  
 RT heinrichite  
 RT kahlerite  
 RT kirchheimerite  
 RT novacekite  
 RT oxide minerals

**ARSENIC SELENIDES**

INIS: 1978-02-23; ETDE: 1975-08-19

BT1 arsenic compounds  
 \*BT1 selenides

**ARSENIC SULFIDES**

BT1 arsenic compounds  
 \*BT1 sulfides

**ARSENIC TELLURIDES**

INIS: 1977-03-01; ETDE: 1975-08-19

BT1 arsenic compounds  
 \*BT1 tellurides

**ARSENIDES**

1997-06-19

BT1 arsenic compounds  
 BT1 pnictides  
 NT1 aluminium arsenides  
 NT1 americium arsenides  
 NT1 berkelium arsenides  
 NT1 boron arsenides  
 NT1 cadmium arsenides  
 NT1 californium arsenides  
 NT1 cerium arsenides  
 NT1 cobalt arsenides  
 NT1 copper arsenides  
 NT1 curium arsenides  
 NT1 europium arsenides  
 NT1 gadolinium arsenides  
 NT1 gallium arsenides  
 NT1 germanium arsenides  
 NT1 hafnium arsenides  
 NT1 indium arsenides  
 NT1 iron arsenides  
 NT1 lithium arsenides  
 NT1 magnesium arsenides  
 NT1 manganese arsenides  
 NT1 molybdenum arsenides  
 NT1 neptunium arsenides  
 NT1 nickel arsenides  
 NT1 niobium arsenides  
 NT1 palladium arsenides  
 NT1 platinum arsenides  
 NT1 plutonium arsenides  
 NT1 praseodymium arsenides  
 NT1 rhodium arsenides  
 NT1 ruthenium arsenides  
 NT1 samarium arsenides  
 NT1 silicon arsenides  
 NT1 silver arsenides  
 NT1 tantalum arsenides  
 NT1 tellurium arsenides  
 NT1 terbium arsenides  
 NT1 thorium arsenides  
 NT1 thulium arsenides  
 NT1 tin arsenides  
 NT1 titanium arsenides  
 NT1 uranium arsenides  
 NT1 vanadium arsenides  
 NT1 yttrium arsenides  
 NT1 zinc arsenides  
 NT1 zirconium arsenides

RT arsenic alloys  
 RT intermetallic compounds

**arsi reactor**

USE avogadro rs-1 reactor

**arsonates**

INIS: 1984-04-04; ETDE: 2002-06-07

USE organic arsenic compounds

**ARSONIC ACIDS**

1996-07-16

UF *arsanilic acid*  
 UF *beryllon*  
 UF *dsnadns*  
 \*BT1 organic acids  
 \*BT1 organic arsenic compounds  
 NT1 arsenazo

**arsonium compounds**

USE arsenic compounds

**art objects**

INIS: 1981-12-23; ETDE: 1982-02-09

USE cultural objects

**ARTEMIA**

UF *brine shrimp*  
 \*BT1 branchiopods

**ARTEMIS DEVICE**

INIS: 1998-11-12; ETDE: 1998-12-18

\*BT1 reversed-field pinch devices  
 RT reverse-field pinch

**ARTERIES**

\*BT1 blood vessels  
 NT1 aorta  
 NT1 carotid arteries  
 NT1 cerebral arteries  
 NT1 coronaries  
 RT arteriosclerosis  
 RT blood pressure

**ARTERIOSCLEROSIS**

UF *atherosclerosis*  
 \*BT1 vascular diseases  
 RT arteries

**ARTESIAN BASINS**

2000-04-12

*Terranes, often but not necessarily basin shaped, including an artesian aquifer whose potentiometric surface typically is above the land surface in the topographically lower portion of the terrane.*

RT aquifers  
 RT ground water

**arthritis**

USE rheumatic diseases

**ARTHROPODS**

\*BT1 invertebrates  
 NT1 arachnids  
 NT2 mites  
 NT2 scorpions  
 NT2 spiders  
 NT2 ticks  
 NT1 crustaceans  
 NT2 branchiopods  
 NT3 artemia  
 NT3 daphnia  
 NT2 copepods  
 NT2 decapods  
 NT3 crabs  
 NT3 lobsters  
 NT3 prawns  
 NT3 shrimp  
 NT1 insects  
 NT2 coleoptera  
 NT3 beetles

NT4 boll weevil  
 NT4 tribolium  
 NT2 dictyoptera  
 NT3 cockroaches  
 NT2 diptera  
 NT3 flies  
 NT4 fruit flies  
 NT5 anastrepha  
 NT5 ceratitis capitata  
 NT5 dacus  
 NT6 dacus oleae  
 NT5 drosophila  
 NT4 glossina  
 NT4 hylemya antiqua  
 NT4 screwworm fly

NT3 mosquitoes  
 NT2 ephemeroptera  
 NT2 hemiptera  
 NT3 aphids  
 NT2 hymenoptera  
 NT3 ants  
 NT3 bees  
 NT3 wasps  
 NT2 lepidoptera  
 NT3 moths  
 NT4 bollworm  
 NT4 codling moth  
 NT4 lymantria dispar  
 NT4 rice stem borers  
 NT4 silkworm  
 NT2 orthoptera  
 NT3 grasshoppers  
 NT4 locusts

**arthur d little coal liquefaction process**

INIS: 2000-04-12; ETDE: 1978-05-01  
 USE coal liquefaction

**ARTIFICIAL INTELLIGENCE**

INIS: 1986-12-09; ETDE: 1984-02-10

*A subfield of computer science concerned with the concepts and methods of symbolic inference by a computer and the symbolic representation of the knowledge to be used in making inferences.*

RT computers  
 RT expert systems  
 RT knowledge base  
 RT lisp  
 RT neural networks  
 RT programming

**ARTIFICIAL LIFTS**

INIS: 1992-05-28; ETDE: 1977-05-07

*Any method of lifting oil out of underground reservoirs, usually by injecting gas or foam into a rock or sand formation to force fluids from wells.*

NT1 gas lifts  
 RT oil wells

**ARTIFICIAL ORGANS**

1995-11-15

(From June 1977 until March 1996

MECHANICAL KIDNEY was a valid ETDE descriptor.)

UF *mechanical kidney*  
 NT1 mechanical heart  
 RT biotechnology  
 RT cardiac pacemakers  
 RT organs  
 RT prostheses

**ARTIFICIAL RADIATION BELTS**

BT1 radiation belts  
 RT nuclear explosions

**artisans**

INIS: 1993-04-28; ETDE: 2002-06-07  
USE craftsmen

**ARYL 4-MONOOXYGENASE**

INIS: 2000-04-12; ETDE: 1981-06-13  
UF aryl hydrocarbon monooxygenase  
\*BT1 oxidoreductases  
RT mixed-function oxidases

**aryl hydrocarbon monooxygenase**

INIS: 2000-04-12; ETDE: 1981-06-13  
USE aryl 4-monooxygenase

**aryl hydrocarbons**

2017-05-25  
USE aromatics

**ARYL RADICALS**

1996-07-16  
(Prior to August 1996 ANISYL RADICALS was a valid ETDE descriptor.)  
UF anisyl radicals  
BT1 radicals  
NT1 benzyl radicals  
NT1 mesityl radicals  
NT1 naphthyl radicals  
NT1 phenethyl radicals  
NT1 phenyl radicals  
NT1 tolyl radicals  
RT arylation

**ARYLATION**

INIS: 2000-04-12; ETDE: 1985-02-22  
The introduction, by substitution or addition, of an aryl group into a chemical compound.  
BT1 chemical reactions  
RT aryl radicals

**arylmagnesium compounds**

USE grignard reagents

**as low as reasonably achievable**

INIS: 1993-11-03; ETDE: 2002-06-07  
USE alara

**as recycling process**

INIS: 2000-04-12; ETDE: 1979-01-30  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE desulfurization

**ASBESTOS**

RT refractories

**ASCARIDAE**

\*BT1 nematodes  
BT1 parasites  
NT1 ascaris  
RT chickens  
RT intestines

**ASCARIS**

\*BT1 ascaridae  
RT small intestine

**aschelminthes**

INIS: 2000-04-12; ETDE: 1981-06-17  
(Prior to September 2005 this was a valid descriptor.)  
SEE nematodes

**ASCITES**

BT1 pathological changes  
BT1 symptoms  
RT ascites tumor cells  
RT ehrlich ascites tumor  
RT neoplasms  
RT peritoneum

**ASCITES TUMOR CELLS**

\*BT1 tumor cells  
RT ascites

RT ehrlich ascites tumor  
RT neoplasms

**ASCO-1 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-02  
Asco, Tarragona, Spain.  
\*BT1 pwr type reactors

**ASCO-2 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-02  
Asco, Tarragona, Spain.  
\*BT1 pwr type reactors

**ASCOLOY**

2000-04-12  
\*BT1 carbon additions  
\*BT1 chromium alloys  
\*BT1 iron base alloys  
\*BT1 manganese additions  
\*BT1 nickel alloys  
\*BT1 silicon additions

**ASCORBIC ACID**

UF vitamin c  
BT1 vitamins  
RT redox process

**ASDEX TOKAMAK**

INIS: 1977-03-01; ETDE: 1977-04-12  
\*BT1 tokamak devices

**ASH CONTENT**

INIS: 1992-03-18; ETDE: 1984-05-08  
RT ashes  
RT chemical composition  
RT coal

**ash separators**

INIS: 2000-04-12; ETDE: 1976-03-22  
USE inertial separators

**ASHES**

1976-02-11  
BT1 combustion products  
BT1 residues  
NT1 fly ash  
RT ash content  
RT deashing  
RT particulates  
RT solid wastes

**ashing (dry)**

USE dry ashing

**ashing (wet)**

USE wet ashing

**asi**

ETDE: 1978-03-08  
USE adiabatic surface ionization

**ASIA**

NT1 afghanistan  
NT1 armenia  
NT1 azerbaijan  
NT1 bahrain  
NT1 bangladesh  
NT1 bhutan  
NT1 brunei  
NT1 cambodia  
NT1 china  
NT2 hong kong  
NT2 taiwan  
NT2 tibet  
NT1 india  
NT1 indonesia  
NT1 iran  
NT1 iraq  
NT1 israel  
NT1 japan  
NT2 hachimantai  
NT2 hirosshima

NT2 nagasaki

NT1 jordan  
NT1 kazakhstan  
NT1 kuwait  
NT1 kyrgyzstan  
NT1 laos  
NT1 lebanon  
NT1 macao  
NT1 malaysia  
NT1 maldives  
NT1 mongolian peoples republic  
NT1 myanmar  
NT1 nepal  
NT1 north korea  
NT1 oman  
NT1 pakistan  
NT1 philippines  
NT1 qatar  
NT1 republic of georgia  
NT1 republic of korea  
NT1 saudi arabia  
NT1 siberia  
NT1 singapore  
NT1 sri lanka  
NT1 syria  
NT1 tajikistan  
NT1 thailand  
NT1 turkey  
NT1 turkmenistan  
NT1 united arab emirates  
NT1 uzbekistan  
NT1 viet nam  
NT1 yemen  
RT arab countries

**asparagic acid**

USE aspartic acid

**ASPARAGINE**

UF agedoite  
UF althein  
UF aminosuccinamic acid-alpha  
UF asparagine-beta  
UF asparamide  
\*BT1 amides  
\*BT1 amino acids  
RT aspartic acid

**asparagine-beta**

USE asparagine

**asparaginic acid**

USE aspartic acid

**asparamide**

USE asparagine

**ASPARTIC ACID**

UF aminosuccinic acid  
UF asparagic acid  
UF asparaginic acid  
\*BT1 amino acids  
RT asparagine  
RT succinic acid

**ASPECT RATIO**

BT1 dimensionless numbers  
RT closed plasma devices  
RT plasma  
RT tori

**ASPENS**

INIS: 1992-01-10; ETDE: 1976-08-04  
\*BT1 poplars  
RT cottonwoods

**ASPERGILLUS**

\*BT1 eumycota  
RT aflatoxins

**ASPHALT RIDGE DEPOSIT**

INIS: 2000-04-12; ETDE: 1977-05-07

- \*BT1 oil sand deposits
- RT oil sands
- RT utah

**ASPHALTENES**

1984-04-04

Dark, solid constituents of crude oils and other bitumens which are soluble in carbon disulfide but insoluble in paraffin naphthas; they hold most of the organic constituents of bitumens.

- RT asphalts

**ASPHALTITE**

- \*BT1 other organic compounds
- RT bitumens

**ASPHALTS**

- \*BT1 bitumens
- RT asphaltenes
- RT pavements
- RT road oils

**aspirin**

INIS: 1975-11-27; ETDE: 1976-03-22

- USE acetylsalicylic acid

**assaying (qualitative)**

1975-08-20

- USE qualitative chemical analysis

**assaying (quantitative)**

INIS: 1975-08-20; ETDE: 2002-01-18

- USE quantitative chemical analysis

**ASSE SALT MINE**

INIS: 1988-05-13; ETDE: 1987-08-14

Underground test facility in the Federal Republic of Germany for research and development in the field of radioactive waste storage and disposal.

- \*BT1 mines
- \*BT1 radioactive waste facilities
- RT federal republic of germany
- RT salt deposits
- RT underground disposal

**assessments**

- USE charges

**assets**

INIS: 2000-04-12; ETDE: 1979-12-10

- USE financial data

**assignments**

1985-12-10

- USE allocations

**ASSIMILATION**

2013-08-28

- RT absorption
- RT digestion
- RT intake
- RT minority groups
- RT sociology

**assistance in nuclear****accident/radiological emergency****conv.**

INIS: 1989-02-24; ETDE: 2002-11-14

- USE canare

**ASSOCIATED GAS**

INIS: 1992-09-15; ETDE: 1978-03-09

Gaseous hydrocarbons occurring as a free-gas phase under original reservoir conditions of pressure and temperature.

- \*BT1 gases
- RT oil fields
- RT petroleum deposits

**ast-1 reactor**

INIS: 1986-06-10; ETDE: 2002-06-07

- USE arbus reactor

**ASTAR 811C**

2000-04-12

- \*BT1 hafnium additions
- \*BT1 tantalum base alloys
- \*BT1 tungsten alloys

**ASTATINATION**

1983-09-06

- \*BT1 halogenation

**ASTATINE**

- \*BT1 halogens

**ASTATINE 191**

2003-11-13

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 192**

2007-01-17

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 193**

2003-11-13

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 194**

INIS: 1985-11-16; ETDE: 1984-05-08

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 195**

- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 196**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 197**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 198**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 199**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei

- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 200**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 201**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 202**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 203**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 204**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 205**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 206**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 207**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 208**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 209**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes

- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 210**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 211**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 212**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 212 TARGET**

*INIS: 1992-09-22; ETDE: 1977-11-10*

- BT1 targets

**ASTATINE 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 214**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 215**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 216**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 218**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 219**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei

- \*BT1 seconds living radioisotopes

**ASTATINE 220**

*INIS: 1989-04-20; ETDE: 1989-05-11*

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 221**

*INIS: 1989-05-29; ETDE: 1989-06-21*

- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 222**

*INIS: 1989-05-29; ETDE: 1989-06-21*

- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 223**

*INIS: 1989-05-29; ETDE: 1989-06-21*

- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**astatine additions**

*2000-04-12*

(Prior to August 1993 this was a valid ETDE descriptor.)

- USE alloys
- USE astatine compounds

**ASTATINE BROMIDES**

*1996-07-16*

(From July 1996 to September 2007

ASTATINE COMPOUNDS + BROMIDES was used for this concept.)

- \*BT1 astatine halides
- \*BT1 bromides

**ASTATINE CHLORIDES**

- \*BT1 astatine halides
- \*BT1 chlorides

**ASTATINE COMPLEXES**

- BT1 complexes

**ASTATINE COMPOUNDS**

*1996-07-16*

- UF *astatine additions*
- BT1 halogen compounds
- NT1 astatine halides
- NT2 astatine bromides
- NT2 astatine chlorides
- NT2 astatine iodides

**ASTATINE HALIDES**

*2008-02-07*

- \*BT1 astatine compounds
- \*BT1 halides
- NT1 astatine bromides
- NT1 astatine chlorides
- NT1 astatine iodides

**ASTATINE IODIDES**

*1996-07-16*

(From July 1996 to February 2008

ASTATINE COMPOUNDS + IODIDES was used for this concept.)

- \*BT1 astatine halides
- \*BT1 iodides

**ASTATINE IONS**

- \*BT1 ions

**ASTATINE ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 astatine 191
- NT1 astatine 192
- NT1 astatine 193
- NT1 astatine 194
- NT1 astatine 195
- NT1 astatine 196
- NT1 astatine 197
- NT1 astatine 198
- NT1 astatine 199
- NT1 astatine 200
- NT1 astatine 201
- NT1 astatine 202
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- NT1 astatine 221
- NT1 astatine 222
- NT1 astatine 223

**ASTEROIDS**

- RT planets
- RT solar system

**ASTHMA**

*INIS: 1978-02-23; ETDE: 1976-10-13*

- \*BT1 respiratory system diseases
- RT immune system diseases

**ASTR REACTOR**

*2000-04-12*

*General Dynamics Corp., Fort Worth, Texas, USA. Shut down in 1971.*

- UF *aerospace system test reactor*
- UF *aircraft shield test reactor*
- UF *fort worth astr reactor*

- \*BT1 test reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**ASTRA REACTOR**

*Austrian Research Centres, Seibersdorf, Austria. Decommissioned since 1999.*

- UF *adapted swimming pool reactor austria*
- UF *austrian research reactor*
- UF *swimming pool tank reactor austria*
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- RT *seibersdorf research centre*

**ASTRID STORAGE RING**

*INIS: 1992-05-26; ETDE: 1994-08-10*

*Aarhus University, Denmark.*

- BT1 storage rings

**ASTROCYTOMAS**

*INIS: 1992-09-22; ETDE: 1981-01-12*  
(Until September 1992, this concept was indexed by NEOPLASMS.)  
\*BT1 gliomas

**ASTROLOY**

*1993-10-03*  
\*BT1 alloy-ni55co17cr15mo5al4ti4  
\*BT1 carbon additions

**ASTRON**

\*BT1 closed plasma devices

**ASTRON SATELLITES**

*INIS: 1985-06-10; ETDE: 1985-07-19*  
BT1 satellites

**ASTRONAUTS**

BT1 personnel  
RT aviation personnel

**ASTRONOMY**

UF *neutrino astronomy*  
NT1 gamma astronomy  
NT1 radioastronomy  
RT astrophysics  
RT eclipse  
RT stars

**ASTROPHYSICAL S FACTOR**

*2017-11-09*  
RT coulomb field  
RT total cross sections

**ASTROPHYSICS**

*2000-01-26*  
UF *neutrino astrophysics*  
BT1 physics  
NT1 warm dense matter  
RT astronomy  
RT chandrasekhar theory  
RT cosmology  
RT dusty plasma  
RT force-free magnetic fields  
RT galactic evolution  
RT red shift

**ASYMMETRY**

*1996-03-04*  
UF *skewness*  
NT1 east-west asymmetry  
NT1 north-south asymmetry  
RT anisotropy  
RT asymmetry coefficients  
RT configuration  
RT distribution  
RT orientation  
RT symmetry

**ASYMMETRY COEFFICIENTS**

RT asymmetry

**asymptotic conditions**

USE boundary conditions

**ASYMPTOTIC SOLUTIONS**

BT1 mathematical solutions  
RT boundary conditions  
RT high-energy limit  
RT limiting fragmentation  
RT low-energy limit  
RT mathematical evolution

**ATC DEVICES**

UF *adiabatic toroidal compressors*  
\*BT1 tokamak devices

**atf-1 torsatron**

*INIS: 1984-04-04; ETDE: 2002-06-07*  
USE atf torsatron

**ATF TORSATRON**

*INIS: 1984-04-04; ETDE: 1983-07-07*  
UF *advanced toroidal facility torsatron*  
UF *atf-1 torsatron*  
\*BT1 torsatron stellarators

**atgas process**

*1994-04-12*  
*Applied Technology Corporation process for producing intermediate- or high-Btu gas using molten iron gasification technique to gasify all types of coal with steam and oxygen at 5 psia pressure and 2600 degrees F. The process can be adapted to make low-Btu gas by using air instead of oxygen.*  
(Prior to April 1994, this was a valid ETDE descriptor.)  
USE coal gasification

**ATHABASCA DEPOSIT**

*1992-06-04*  
\*BT1 oil sand deposits  
RT alberta  
RT canada  
RT oil sands

**ATHABASCA LAKE**

\*BT1 lakes  
RT alberta  
RT saskatchewan

**ATHENE REACTOR**

*2000-04-12*  
UF *argonaut eindhoven reactor*  
UF *atoomreactor technische hogeschool eindhoven nederland*  
UF *eindhoven argonaut reactor*  
\*BT1 argonaut type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**atherosclerosis**

USE arteriosclerosis

**ATLANTA**

*INIS: 1992-06-04; ETDE: 1977-10-20*  
\*BT1 georgia (u.s. state of)  
BT1 urban areas

**ATLANTIC-1 REACTOR**

*Public Service Electric and Gas Co., USA. Canceled in 1978.*  
\*BT1 pwr type reactors  
RT offshore nuclear power plants

**ATLANTIC-2 REACTOR**

*Public Service Electric and Gas Co., USA. Canceled in 1978.*  
\*BT1 pwr type reactors  
RT offshore nuclear power plants

**ATLANTIC OCEAN**

*1997-06-19*  
\*BT1 seas  
NT1 baltimore canyon  
NT1 bay of biscay  
NT1 bay of fundy  
NT1 biscayne bay  
NT1 caribbean sea  
NT2 gulf of mexico  
NT3 galveston bay  
NT3 san antonio bay  
NT1 chesapeake bay  
NT1 delaware bay  
NT1 gulf of maine  
NT1 irish sea  
NT1 long island sound  
NT1 mid-atlantic bight  
NT2 new york bight  
NT1 north sea

NT2 wadden sea

NT1 onslow bay  
NT1 sargasso sea  
NT1 south atlantic bight  
NT1 weddell sea  
RT bahama islands  
RT bermuda  
RT cape verde islands  
RT faeroe islands  
RT georges bank  
RT gulf stream  
RT iceland  
RT mid-atlantic ridge  
RT newfoundland  
RT prince edward island  
RT us east coast

**atlas computers**

*1997-01-28*  
(Until October 1996 this was a valid descriptor.)  
USE computers

**ATLAS DETECTOR**

*2015-10-27*  
UF *atlas experiment*  
\*BT1 radiation detectors  
RT cern  
RT cern lhc

**atlas experiment**

*2015-10-27*  
USE atlas detector

**atlas rockets**

*2000-04-12*  
(Prior to August 1996 this was a valid ETDE descriptor.)  
USE rockets

**ATLAS SUPERCONDUCTING LINAC**

*INIS: 1985-11-18; ETDE: 1985-04-24*  
*Argonne Tandem/Linear Accelerator.*  
UF *argonne superconducting linac*  
UF *argonne tandem/linear accelerator*  
\*BT1 hilacs

**ATMOSPHERES**

*Not for concepts covered by EARTH ATMOSPHERE.*

NT1 controlled atmospheres  
NT2 inert atmosphere  
NT3 cover gas  
NT1 planetary atmospheres  
NT2 planetary ionospheres  
NT2 planetary magnetospheres  
NT1 satellite atmospheres  
NT2 lunar atmosphere  
NT1 stellar atmospheres  
NT2 solar atmosphere  
NT3 chromosphere  
NT3 heliosphere  
NT3 photosphere  
NT3 solar corona  
NT2 stellar chromospheres  
NT2 stellar coronae  
NT3 solar corona  
NT2 stellar magnetospheres

**ATMOSPHERIC CHEMISTRY**

*INIS: 1981-05-11; ETDE: 1979-06-06*  
*Study of the production, transport, modification, and removal of atmospheric constituents in the troposphere and stratosphere.*  
BT1 chemistry  
RT air pollution  
RT greenhouse gases  
RT ozone  
RT photochemical reactions  
RT photochemistry

RT smog

### ATMOSPHERIC CIRCULATION

INIS: 1991-09-19; ETDE: 1982-08-24

Global or hemispheric air movements which can be treated by equations of motion, in contrast to atmospheric diffusion which is small random movement not amenable to treatment by these equations.

RT air flow  
 RT box models  
 RT climate models  
 RT climates  
 RT currents  
 RT earth atmosphere  
 RT general circulation models  
 RT jet stream  
 RT meteorology  
 RT southern oscillation  
 RT wind

### ATMOSPHERIC EXPLOSIONS

1996-06-26

UF annie event  
 UF argus event  
 UF boltzmann event  
 UF harry event  
 UF orange event  
 UF romeo event  
 UF smoky event  
 UF starfish event  
 UF teak event  
 UF tewa event  
 UF yankee event  
 BT1 explosions  
 NT1 ranger project  
 NT1 trinity event  
 RT castle project  
 RT crossroads project  
 RT dominic project  
 RT earth atmosphere  
 RT little boy  
 RT nuclear explosion detection  
 RT nuclear explosions  
 RT redwing project

### atmospheric exposure chambers

INIS: 1978-09-28; ETDE: 1977-10-20

USE exposure chambers

### atmospheric inversion

INIS: 2000-04-12; ETDE: 1980-09-04

USE temperature inversions

### ATMOSPHERIC NEUTRINOS

2018-06-19

\*BT1 neutrinos  
 NT1 conventional neutrinos  
 NT1 prompt neutrinos

### ATMOSPHERIC PRECIPITATIONS

UF precipitations (atmospheric)  
 NT1 hail  
 NT1 rain  
 NT2 acid rain  
 NT1 snow  
 RT aitken nuclei  
 RT climates  
 RT clouds  
 RT droplets  
 RT droughts  
 RT earth atmosphere  
 RT environmental materials  
 RT fallout  
 RT fog  
 RT ground water  
 RT hydrosphere  
 RT interception  
 RT meteorology  
 RT rain water  
 RT runoff

RT seasons  
 RT storms  
 RT surface waters  
 RT throughfall  
 RT washout  
 RT weather

### ATMOSPHERIC PRESSURE

INIS: 1992-06-30; ETDE: 1979-07-18

RT anticyclones  
 RT cyclones  
 RT earth atmosphere  
 RT pressure measurement  
 RT southern oscillation

### atmospheric temperature

INIS: 1993-07-06; ETDE: 2002-06-07

USE ambient temperature

### ATMOSPHERICS

UF sferics  
 \*BT1 radio noise  
 RT whistlers

### ATOM-ATOM COLLISIONS

\*BT1 atom collisions  
 RT electron exchange

### ATOM COLLISIONS

BT1 collisions  
 NT1 atom-atom collisions  
 NT1 atom-molecule collisions  
 NT1 electron-atom collisions  
 NT1 ion-atom collisions  
 NT1 muon-atom collisions  
 NT1 photon-atom collisions  
 NT1 positron-atom collisions  
 RT atomic physics

### ATOM-MOLECULE COLLISIONS

\*BT1 atom collisions  
 \*BT1 molecule collisions  
 RT electron exchange

### ATOM TRANSPORT

1975-09-09

UF transport (atoms)  
 \*BT1 neutral-particle transport  
 RT atoms  
 RT diffusion  
 RT mass transfer  
 RT transport theory

### atomic absorption spectroscopy

USE absorption spectroscopy

### ATOMIC BEAM DIFFRACTION

INIS: 1975-09-26; ETDE: 1975-10-28

\*BT1 diffraction  
 RT crystallography

### ATOMIC BEAM SOURCES

INIS: 1977-09-15; ETDE: 1977-11-10

BT1 neutral beam sources  
 RT atomic beams  
 RT beam injection heating  
 RT ion sources  
 RT neutral atom beam injection

### ATOMIC BEAMS

UF abmr method  
 BT1 beams  
 RT atomic beam sources  
 RT beam strippers

### atomic bombs

USE nuclear weapons

### ATOMIC CLOCKS

RT electronic equipment  
 RT time interval analyzers  
 RT time measurement

### atomic clouds

USE radioactive clouds

### ATOMIC CLUSTERS

INIS: 1992-10-19; ETDE: 1992-11-04

RT cluster beams  
 RT fullerenes  
 RT ion pairs

### ATOMIC DISPLACEMENTS

INIS: 1982-11-29; ETDE: 1983-02-09

(From September 1979 till February 1997 DISPLACEMENT RATES was a valid ETDE descriptor.)

UF displacements (atomic)  
 UF dpa  
 SF displacement rates  
 \*BT1 physical radiation effects

### atomic energy

INIS: 1980-04-02; ETDE: 1980-05-06

USE nuclear energy

### ATOMIC ENERGY ACT

INIS: 2000-04-12; ETDE: 1980-04-14

\*BT1 atomic energy laws

### ATOMIC ENERGY AGREEMENTS

\*BT1 international agreements

### ATOMIC ENERGY CONTROL

BT1 control  
 NT1 international control  
 NT1 national control  
 RT atomic energy laws  
 RT legal aspects  
 RT safeguards

### atomic energy control board (canada)

INIS: 1993-11-03; ETDE: 2002-06-07

Atomic Energy Control Board of Canada.  
 USE canadian aecb

### atomic energy law

INIS: 1990-12-15; ETDE: 2002-06-07

USE atomic energy laws

### ATOMIC ENERGY LAWS

1990-12-15

(Prior to December 1990, in INIS this was spelled ATOMIC ENERGY LAW.)

UF atomic energy law  
 BT1 laws  
 NT1 atomic energy act  
 NT1 nuclear waste policy acts  
 RT atomic energy control  
 RT secrecy protection

### ATOMIC ENERGY OF CANADA LTD

INIS: 1977-09-06; ETDE: 1977-11-09

UF aecl  
 \*BT1 canadian organizations  
 NT1 chalk river nuclear labs  
 NT1 wnre

### atomic energy research establishment

USE aere

### atomic explosions

USE nuclear explosions

### atomic fluorescence spectroscopy

2000-04-12

USE fluorescence spectroscopy

### ATOMIC FORCE MICROSCOPY

INIS: 1999-07-26; ETDE: 1999-09-09

Technique used to study surface properties of materials from atomic to micron level. A sharp tip, on a cantilever spring, is scanned over a surface; a detector measures the cantilever deflection.

UF afm

UF magnetic force microscopy  
 BT1 microscopy  
 RT scanning tunneling microscopy

**ATOMIC IONS**

INIS: 1975-11-11; ETDE: 1975-12-16  
 Coordinate the above descriptor with a descriptor for the appropriate specific ion.  
 UF ions (atomic)  
 \*BT1 ions

**ATOMIC MODELS**

1999-03-17  
 UF models (atomic)  
 UF molecular orbital model  
 BT1 mathematical models  
 NT1 thomas-fermi model  
 RT atomic physics  
 RT atomic radii  
 RT bohr theory  
 RT configuration interaction  
 RT electron correlation  
 RT electronic structure  
 RT harmonic oscillator models  
 RT hartree-fock method  
 RT optical models  
 RT self-consistent field  
 RT single-particle model

**ATOMIC NUMBER**

UF nuclear charge  
 RT periodic system  
 RT stopping power

**ATOMIC PHYSICS**

INIS: 1983-06-30; ETDE: 1982-08-11  
 Use only for indexing articles of very broad coverage, such as annual reviews, text books, etc.  
 BT1 physics  
 RT atom collisions  
 RT atomic models  
 RT neutron physics

**atomic power company main yankee**

1993-11-03  
 USE maine yankee reactor

**ATOMIC RADII**

RT atomic models  
 RT electronic structure

**atomic shells**

USE electronic structure

**atomic shells (k)**

INIS: 1976-07-06; ETDE: 1976-08-24  
 USE k shell

**atomic shells (l)**

INIS: 1976-07-06; ETDE: 1976-08-24  
 USE l shell

**atomic shells (m)**

INIS: 1976-07-06; ETDE: 1976-08-24  
 USE m shell

**atomic shells (n)**

INIS: 1979-11-02; ETDE: 1978-10-23  
 USE n shell

**atomic weapons**

USE nuclear weapons

**atomic weight**

INIS: 2000-04-12; ETDE: 1982-10-05  
 SEE mass number

**atomics international aqueous carbonate process**

INIS: 2000-04-12; ETDE: 1977-05-07  
 USE desulfurization

**ATOMICS INTERNATIONAL CANOGA PARK PLANT**

INIS: 1996-07-16; ETDE: 1976-11-17  
 \*BT1 us doe  
 \*BT1 us erda  
 RT california

**atomics international l-77 reactor**

1993-11-03  
 USE ai-l-77 reactor

**atomics international molten salt**

**process**  
 INIS: 2000-04-12; ETDE: 1975-10-01  
 USE molten salt coal gasification process

**atomics international prototype fast reactor**

1993-11-03  
 USE aipfr reactor

**atomics international reduction oxidation dry reprocessing**

INIS: 2000-04-12; ETDE: 1979-09-26  
 USE airox process

**ATOMIZATION**

RT aerosols  
 RT droplets  
 RT fuel injection systems  
 RT sprays

**ATOMKI**

1986-04-03  
 UF mta atommagkutato intezete  
 \*BT1 hungarian organizations

**atomki cyclotron**

INIS: 1985-05-15; ETDE: 1985-07-18  
 USE debrecen cyclotron

**atomkraftwerk muehleberg**

USE muehleberg reactor

**atomkraftwerk rheinsberg akw1 reaktor**

INIS: 1993-11-03; ETDE: 2002-06-07  
 USE rheinsberg akw1 reactor

**ATOMS**

NT1 hadronic atoms  
 NT2 mesic atoms  
 NT3 kaonic atoms  
 NT3 pionic atoms  
 NT2 protonium  
 NT1 isoelectronic atoms  
 NT1 muonic atoms  
 RT atom transport  
 RT aufbau principle  
 RT fundamental constants  
 RT kihara potential  
 RT matrix isolation  
 RT muonium  
 RT positronium  
 RT superradiance

**atoomreactor technische hogeschool eindhoven nederland**

2000-04-12  
 USE athene reactor

**ATP**

UF adenosine triphosphate  
 \*BT1 nucleotides  
 RT adenines  
 RT adenosine  
 RT atp-ase

**ATP-ASE**

Code numbers 3.6.1.3 and 3.6.1.8.  
 UF adenosine triphosphatase

\*BT1 phosphohydrolases  
 RT atp

**ATPR REACTOR**

2000-04-12  
 UF triga-mk-f prototype reactor  
 SF triga-mk-3 reactor  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**ATR REACTOR**

INEEL, Idaho Falls, Idaho, USA.  
 UF advanced test idaho reactor  
 UF idaho advanced test reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 materials testing reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**ATRAZINE**

2013-07-19  
 \*BT1 herbicides  
 RT organic chlorine compounds  
 RT teratogens  
 RT triazines

**ATRC REACTOR**

INEEL, Idaho Falls, Idaho, USA.  
 UF advanced test reactor critical facility  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**ATRIA**

INIS: 1992-08-25; ETDE: 1981-11-10  
 RT buildings  
 RT high rooms

**atropa belladonna**

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE magnoliopsida  
 USE medicinal plants

**ATROPHY**

BT1 pathological changes

**ATROPINE**

1996-11-13  
 \*BT1 alkaloids  
 \*BT1 parasympatholytics

**ATS SATELLITES**

BT1 satellites

**ATSR REACTOR**

2000-04-12  
 ANL, Argonne, Illinois, USA. Shut down in 1988.  
 UF argonne thermal source reactor  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**ATTACHED GREENHOUSES**

INIS: 1992-08-25; ETDE: 1979-02-27  
 \*BT1 greenhouses  
 RT passive solar heating systems

**ATTAPULGITE**

INIS: 1980-05-14; ETDE: 1979-07-18

- \*BT1 clays
- RT fullers earth

**ATTENUATION**

*In classical physics only. For reducing the intensity of waves and submolecular particles when passing through matter employing classical physics use the above descriptor, when employing quantum physics use ABSORPTION. For attenuation cross sections, see also TOTAL CROSS SECTIONS.*

- RT acoustic esr
- RT acoustic nmr
- RT damping
- RT energy losses
- RT opacity
- RT transmission

**ATTICS**

INIS: 2000-04-12; ETDE: 1979-03-27

*The parts of buildings immediately below the roof and entirely or partly within the roof framing.*

- RT buildings

**attitude control**

INIS: 2000-04-12; ETDE: 1975-07-29

*(Prior to February 1997 this was a valid ETDE descriptor.)*

- USE control
- USE orientation

**ATTITUDES**

INIS: 1985-12-10; ETDE: 1980-04-14

- NT1 safety culture
- RT behavior
- RT human factors
- RT learning
- RT public anxiety
- RT public opinion

**attitudes of the public**

INIS: 2000-04-12; ETDE: 1978-03-03

- USE public opinion

**ATTRACTORS**

INIS: 1987-02-26; ETDE: 1990-11-14

- NT1 limit cycle
- RT phase space
- RT randomness
- RT turbulence

**ATUCHA-1 REACTOR**

*Nucleoelectrica Argentina S.A., Lima, Buenos Aires, Argentina. ATUCHA REACTOR was a valid descriptor prior to February 2009, referring to the reactor now called ATUCHA-1 REACTOR.*

- SF central nuclear en atucha reactor
- SF cna reactor
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- \*BT1 pressure tube reactors
- \*BT1 thermal reactors

**ATUCHA-2 REACTOR**

INIS: 1980-02-26; ETDE: 1980-03-29

*Nucleoelectrica Argentina S.A., Lima, Buenos Aires, Argentina.*

- SF central nuclear en atucha reactor
- SF cna reactor
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- \*BT1 pressure tube reactors
- \*BT1 thermal reactors

**ATWS**

1975-09-01

- UF anticipated transients without scram
- SF loss of feedwater
- SF loss of heat sink
- SF loss of off-site power
- SF turbine trips
- \*BT1 reactor accidents
- RT design-basis accidents
- RT scram
- RT transients

**AU SABLE RIVER**

INIS: 2000-04-12; ETDE: 1980-12-08

- \*BT1 rivers
- RT hydroelectric power plants
- RT michigan

**AUBE PLANT**

INIS: 1993-04-19; ETDE: 1992-11-20

- UF soulaines plant
- \*BT1 radioactive waste facilities

**AUC**

1979-11-02

- UF ammonium uranyl carbonates
- \*BT1 ammonium carbonates
- \*BT1 uranyl compounds

**audible alarm**

INIS: 1984-04-04; ETDE: 2002-06-07

- USE alarm systems

**AUDIO FILES**

2012-05-23

- BT1 document types

**AUDITORY ORGANS**

- UF ears
- UF labyrinth
- \*BT1 sense organs
- RT vestibular apparatus

**AUDITS**

INIS: 1985-12-10; ETDE: 1979-11-23

*Documented activities undertaken to determine the adequacy of or the adherence to established procedures, instructions, specifications, codes, standards, etc., and the effectiveness of implementation.*

- NT1 compliance audits
- NT1 energy audits
- RT accounting
- RT debt collection
- RT evaluation
- RT inspection
- RT licensing
- RT management
- RT quality assurance
- RT us doe inspector general
- RT verification

**AUFBAU PRINCIPLE**

- UF aufbauprinzip
- RT atoms
- RT electronic structure

**aufbauprinzip**

- USE aufbau principle

**AUFWUCHS**

INIS: 1993-07-12; ETDE: 1977-04-12

*Organisms attached to or moving upon a submerged substrate.*

- UF periphyton
- BT1 aquatic organisms

**AUGER EFFECT**

*Includes all particles, processes, and spectra associated with the auger effect.*

- NT1 coster-kronig transitions

- RT auger electron spectroscopy
- RT autoionization
- RT electron emission
- RT energy-level transitions
- RT inner-shell ionization

**AUGER ELECTRON SPECTROSCOPY**

- \*BT1 electron spectroscopy
- RT auger effect

**AUGER MINING**

INIS: 2000-04-12; ETDE: 1977-03-08

- BT1 mining
- RT hydraulic mining
- RT mining engineering
- RT mining equipment
- RT surface mining

**AUGMENTATION**

INIS: 1985-12-10; ETDE: 1979-07-18

*Increasing or making more numerous, larger, or more intense, e.g., augmentation of heat transfer.*

- UF increasing
- RT expansion
- RT growth
- RT minimization
- RT optimization
- RT shrinkage

**aurabon process**

INIS: 2000-04-12; ETDE: 1982-05-12

*Process for the catalytic conversion of heavy crudes and tars containing large quantities of asphaltenes and metals.*

*(Prior to September 1994, this was a valid ETDE descriptor.)*

- USE refining

**aurates**

1996-07-16

*(Until July 1996 this was a valid descriptor.)*

- USE gold compounds
- USE oxygen compounds

**aurin**

INIS: 2000-04-12; ETDE: 1996-02-27

*(Prior to February 1996 this was a valid ETDE descriptor.)*

- USE polyphenols
- USE triphenylmethane dyes

**aurintricarboxylic acid**

1996-10-22

*(Prior to March 1997 ALUMINON was used for this concept in ETDE.)*

- USE hydroxy acids
- USE triphenylmethane dyes

**AURORA FACILITY**

INIS: 1986-01-21; ETDE: 1985-09-24

*Large KrF laser facility at Los Alamos.*

- RT antares facility
- RT icf devices
- RT inertial confinement
- RT krypton fluoride lasers
- RT lanl
- RT laser fusion reactors

**AURORAE**

- NT1 midday aurorae
- NT1 polar-cap aurorae
- RT airglow
- RT auroral oval
- RT auroral zones
- RT charged-particle precipitation
- RT electron precipitation
- RT harang discontinuity
- RT night sky
- RT proton precipitation



*RT* trapped protons

**auroral electrojets**  
*USE* electrojets

**AURORAL HISS**  
*\*BT1* electromagnetic radiation  
*RT* ionosphere  
*RT* whistlers

**AURORAL OVAL**  
*NT1* harang discontinuity  
*RT* aurorae  
*RT* auroral zones  
*RT* charged-particle precipitation  
*RT* electron precipitation  
*RT* ionosphere  
*RT* midday aurorae  
*RT* polar-cap aurorae  
*RT* polar cusp  
*RT* proton precipitation

**auroral substorms**  
*USE* magnetic bays

**AURORAL ZONES**  
*UF* zones (auroral)  
*RT* antarctic regions  
*RT* arctic regions  
*RT* aurorae  
*RT* auroral oval  
*RT* ionosphere  
*RT* midday aurorae  
*RT* polar-cap aurorae

**AUSTENITE**  
*A solid solution of carbon in gamma-iron.*  
*\*BT1* carbon additions  
*\*BT1* iron alloys  
*RT* austenitic steels  
*RT* decarburization  
*RT* iron-gamma  
*RT* martensite  
*RT* solid solutions

**AUSTENITIC STEELS**  
*INIS: 1996-11-13; ETDE: 1978-02-14*  
*Steels having at room temperature a microstructure consisting, at least predominantly, of austenite. Their austenitic microstructure is attained above all by alloying conditions, e.g., Mn for Ni.*  
 (Prior to February, 1978 STEELS and AUSTENITE were used to index this concept in ETDE.)  
*UF* stainless steel-330  
*UF* steel-13cr6nimo  
*UF* steel-40kh13n8g8  
*UF* steel-cr13mn8ni8  
*UF* steel-cr13ni6mo-1  
*UF* steel-ni17cr14moti-1  
*UF* steel-ni36cr18  
*\*BT1* steels  
*NT1* steel-cr15ni15motib  
*NT1* steel-cr16ni13monbv  
*NT1* steel-cr16ni15mo3nb  
*NT1* steel-cr16ni16monb  
*NT1* steel-cr16ni8mo2  
*NT2* stainless steel-16-8-2  
*NT1* steel-cr17ni12mo3  
*NT2* stainless steel-316  
*NT1* steel-cr17ni12mo3-1  
*NT2* stainless steel-316l  
*NT2* stainless steel-zcnd17-13  
*NT1* steel-cr17ni12monb  
*NT1* steel-cr17ni13  
*NT1* steel-cr17ni13mo2ti  
*NT1* steel-cr17ni13mo3ti  
*NT1* steel-cr17ni7  
*NT2* stainless steel-301  
*NT1* steel-cr18ni10

*NT2* stainless steel-18-10  
*NT1* steel-cr18ni10-1  
*NT1* steel-cr18ni10ti  
*NT2* stainless steel-321  
*NT1* steel-cr18ni11  
*NT2* steel-x6crni1811  
*NT1* steel-cr18ni11nb  
*NT2* stainless steel-347  
*NT1* steel-cr18ni11nbco  
*NT2* stainless steel-348  
*NT1* steel-cr18ni12  
*NT2* stainless steel-305  
*NT1* steel-cr18ni12ti  
*NT1* steel-cr18ni8  
*NT2* stainless steel-18-8  
*NT1* steel-cr18ni9  
*NT2* stainless steel-302  
*NT1* steel-cr18ni9ti  
*NT1* steel-cr19ni10  
*NT2* stainless steel-304  
*NT1* steel-cr19ni10-1  
*NT2* stainless steel-304l  
*NT1* steel-cr20ni11  
*NT2* stainless steel-308  
*NT1* steel-cr20ni11-1  
*NT2* stainless steel-308l  
*NT1* steel-cr21mn9ni6  
*NT2* stainless steel-21-6-9  
*NT1* steel-cr23ni14  
*NT2* stainless steel-309  
*NT2* stainless steel-309s  
*NT1* steel-cr23ni18  
*NT1* steel-cr25ni20  
*NT2* alloy-hk-40  
*NT2* stainless steel-310  
*NT1* steel-ni25cr20  
*NT2* stainless steel-20-25  
*NT1* steel-ni26cr15ti2movallb  
*NT2* alloy-a-286  
*RT* austenite  
*RT* corrosion resistant alloys  
*RT* heat resisting alloys

**AUSTRALASIA**

*NT1* australia  
*NT2* new south wales  
*NT2* northern territory  
*NT2* queensland  
*NT2* south australia  
*NT2* tasmania  
*NT2* victoria  
*NT2* western australia  
*NT1* new guinea  
*NT2* papua new guinea  
*NT1* new zealand

**AUSTRALIA**

*1997-06-19*  
*UF* bass strait  
*BT1* australasia  
*BT1* developed countries  
*NT1* new south wales  
*NT1* northern territory  
*NT1* queensland  
*NT1* south australia  
*NT1* tasmania  
*NT1* victoria  
*NT1* western australia  
*RT* mary kathleen mines  
*RT* new guinea  
*RT* oceania  
*RT* oecd  
*RT* rum jungle mine  
*RT* tasman sea  
*RT* timor sea

**australian atomic energy commission**

*INIS: 1996-01-30; ETDE: 1978-04-28*  
*USE* ansto

**australian moata reactor**

*USE* moata reactor

**AUSTRALIAN ORGANIZATIONS**

*INIS: 1978-02-23; ETDE: 1977-05-07*

*BT1* national organizations

*NT1* ansto

*NT1* arpana

**australian radiation protection and nuclear safety agency**

*2015-04-07*

*USE* arpana

**australian replacement research reactor**

*2005-07-22*

*USE* opal reactor

**australites**

*USE* tektites

**AUSTRIA**

*1998-06-10*

*BT1* developed countries

*\*BT1* western europe

*RT* alps

*RT* ctbto

*RT* danube river

*RT* iaea

*RT* oecd

*RT* rhine river

*RT* unido

**AUSTRIAN ORGANIZATIONS**

*INIS: 1980-12-01; ETDE: 1981-01-09*

*BT1* national organizations

*NT1* seibersdorf research centre

**austrian research center seibersdorf**

*INIS: 1993-11-04; ETDE: 2002-06-07*

*USE* seibersdorf research centre

**austrian research reactor**

*USE* astra reactor

**austrian triga-mark-ii reactor**

*2000-04-12*

*USE* triga-2-vienna reactor

**austrian triga-mk-2 reactor**

*INIS: 1984-06-21; ETDE: 2002-06-07*

*USE* triga-2-vienna reactor

**authentication**

*2014-01-23*

*USE* identification systems

**AUTOCLAVES**

*RT* laboratory equipment

*RT* pressure vessels

**AUTOHYDROLYSIS**

*INIS: 2000-04-12; ETDE: 1984-10-10*

*The use of heat or steam in the pretreatment of biomass to enhance subsequent conversion processes.*

*UF* steam explosion process

*BT1* heat treatments

*\*BT1* hydrolysis

*RT* biomass

**AUTOIGNITION**

*2007-01-08*

*BT1* ignition

*RT* antiknock ratings

*RT* internal combustion engines

*RT* knock control

*RT* spontaneous combustion

**AUTOIONIZATION**

*BT1* ionization

- RT auger effect  
RT inner-shell ionization

**AUTOLYSIS**

- \*BT1 decomposition  
NT1 autoradiolysis  
RT enzymes

**AUTOMATION**

- RT computer-aided manufacturing  
RT distance  
RT dna sequencers  
RT man-machine systems  
RT reactor control systems  
RT remote handling  
RT work

**automobile efficiency standards**

INIS: 2000-04-12; ETDE: 1979-03-28

- USE automobiles  
USE efficiency  
USE standards

**automobile exhaust reactors**

INIS: 2000-04-12; ETDE: 1975-11-11

- USE afterburners

**automobile industry**

INIS: 1992-03-25; ETDE: 1977-06-21

- USE automotive industry

**AUTOMOBILES**

1997-06-19

- UF automobile efficiency standards  
UF cars  
BT1 vehicles  
RT afterburners  
RT automotive accessories  
RT carpooling  
RT catalytic converters  
RT exhaust gases  
RT exhaust recirculation systems  
RT ignition systems  
RT mechanical transmissions  
RT motor vehicle operators  
RT occupants  
RT pcv systems  
RT rankine cycle engines  
RT road tests  
RT spark ignition engines  
RT stratified charge engines  
RT taxicabs  
RT vans

**AUTOMOTIVE ACCESSORIES**

INIS: 2000-04-12; ETDE: 1981-09-22

- RT air conditioning  
RT alternators  
RT automobiles  
RT blowers  
RT pumps

**AUTOMOTIVE FUELS**

1997-06-17

- BT1 fuels  
RT alcohol fuels  
RT ethanol fuels  
RT fuel consumption  
RT gasohol  
RT gasoline  
RT gasoline service stations  
RT hydrogen fuels  
RT kerosene  
RT knock control  
RT liquid fuels  
RT methanol fuels  
RT oxygenated fuels

**AUTOMOTIVE INDUSTRY**

INIS: 1992-03-25; ETDE: 1980-05-06

- UF automobile industry  
BT1 industry

- RT aaps

**AUTONOMIC NERVOUS SYSTEM**

- UF parasympathetic nervous system  
UF sympathectomy  
UF sympathetic nervous system  
BT1 nervous system  
NT1 vagus  
RT autonomic nervous system agents  
RT ganglions  
RT hypothalamus  
RT parasympatholytics  
RT parasympathomimetics  
RT radiation syndrome  
RT sympatholytics  
RT sympathomimetics

**AUTONOMIC NERVOUS SYSTEM AGENTS**

INIS: 1984-05-24; ETDE: 1981-04-20

- BT1 drugs  
NT1 neuroregulators  
NT2 acetylcholine  
NT2 adrenaline  
NT2 aminobutyric acid  
NT2 dopa  
NT2 dopamine  
NT2 endorphins  
NT3 enkephalins  
NT2 noradrenaline  
NT2 serotonin  
NT3 bufotenine  
NT1 parasympatholytics  
NT2 atropine  
NT2 nicotine  
NT1 parasympathomimetics  
NT2 acetylcholine  
NT2 eserine  
NT2 nicotine  
NT2 pilocarpine  
NT1 spiperone  
NT1 sympatholytics  
NT2 ergotamine  
NT2 reserpine  
NT1 sympathomimetics  
NT2 adrenaline  
NT2 amphetamines  
NT3 benzedrine  
NT2 dopamine  
NT2 ephedrine  
NT2 noradrenaline  
NT2 serotonin  
NT3 bufotenine  
NT2 tyramine  
RT autonomic nervous system

**AUTOPSY**

- BT1 diagnostic techniques  
RT biopsy  
RT pathology

**autoradiographs**

- USE images

**AUTORADIOGRAPHY**

- UF alpha autoradiography  
UF radioautography  
UF radiography (auto)  
RT ceramography  
RT diagnostic techniques  
RT industrial radiography  
RT labelled compounds  
RT nondestructive testing  
RT nuclear emulsions  
RT tracer techniques

**AUTORADIOLYSIS**

- \*BT1 autolysis  
\*BT1 radiolysis  
RT labelled compounds  
RT self-irradiation

**AUTOTHERMAL REFORMER PROCESSES**

INIS: 2000-04-12; ETDE: 1981-03-17

Air, steam, and hydrocarbon fuel are fed into a furnace and partial oxidation of the hydrocarbon provides the heat for steam reforming of the hydrocarbon.

- UF adiabatic reformer processes  
\*BT1 reformer processes  
RT hydrogen production  
RT partial oxidation processes

**AUTOTROPHS**

INIS: 2000-04-12; ETDE: 1979-03-27

Organisms capable of synthesizing organic nutrients directly from simple inorganic substances such as carbon dioxide and inorganic nitrogen.

- RT microorganisms  
RT single cell protein  
RT synthetic fuels

**AUTUNITE**

- \*BT1 phosphate minerals  
\*BT1 uranium minerals

**AUXILIARY HEATING**

INIS: 1999-10-11; ETDE: 1975-10-01

- \*BT1 space heating  
RT auxiliary systems

**AUXILIARY SYSTEMS**

1985-12-10

May be used in any field.

- NT1 auxiliary water systems  
NT2 condenser cooling systems  
RT auxiliary heating  
RT remote handling equipment

**AUXILIARY WATER SYSTEMS**

1976-04-03

For service water systems or other water systems not intended to be part of the cooling or moderating water system of a reactor.

- UF component cooling systems  
UF refueling water systems  
UF service water systems  
BT1 auxiliary systems  
NT1 condenser cooling systems  
RT coolant loops  
RT discharge canals  
RT drinking water  
RT feedwater  
RT intake canals  
RT reactor cooling systems

**AUXINS**

- BT1 plant growth regulators  
RT abscisic acid  
RT gibberellic acid

**AVAILABILITY**

1999-03-19

- UF supply  
RT allocations  
RT demand  
RT domestic supplies  
RT economics  
RT energy security  
RT energy sources  
RT geologic deposits  
RT inventories  
RT ore composition  
RT outages  
RT production  
RT shortages

**avalanche multiplication**

INIS: 1982-07-22; ETDE: 1982-08-06

- USE townsend discharge

**AVALANCHE QUENCHING**

1978-07-03

- UF quenching (avalanche)  
 RT geiger-mueller counters  
 RT ionization chambers  
 RT proportional counters  
 RT townsend discharge

**avena**

USE oats

**average magnetic well**

USE minimum average-b configurations

**avg process**

2000-04-12

USE coal gasification

**aviation fuels**

2000-04-12

SEE gasoline  
 SEE jet engine fuels

**AVIATION PERSONNEL**

BT1 personnel  
 RT astronauts  
 RT military personnel

**AVIDIN**

INIS: 2002-04-22; ETDE: 2002-05-01

\*BT1 glycoproteins

**avlis**

2001-03-06

Atomic Vapor Laser Isotope Separation.

USE laser isotope separation

**AVOCADOS**

1983-06-30

\*BT1 fruits  
 RT fruit trees

**AVOGADRO RS-1 REACTOR**

Saluggia, Italy. Decommissioned since 1980.

UF arsi reactor  
 UF rsi avogadro reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**AVOIDANCE**

Limited to living systems.

BT1 behavior  
 RT conditioned reflexes

**AVR REACTOR**

Juelich, Federal Republic of Germany.

UF arbeitgemeinschaft versuchsreaktor  
 \*BT1 enriched uranium reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors  
 \*BT1 pebble bed reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors  
 \*BT1 thorium reactors

**AWARDS**

INIS: 2000-04-12; ETDE: 1981-01-27

Recognition of outstanding achievement or performance.

UF enrico fermi award  
 UF ernest orlando lawrence award

**AWAY-FROM-REACTOR STORAGE**

INIS: 1980-04-02; ETDE: 1979-05-02

UF afr storage  
 \*BT1 spent fuel storage  
 RT after-heat  
 RT closed fuel cycle  
 RT dry storage  
 RT fuel storage pools

RT waste transportation

**axerophytol**

USE vitamin a

**AXIAL RATIO**

BT1 dimensionless numbers  
 RT crystal structure

**AXIAL SYMMETRY**

BT1 symmetry  
 RT kerr field  
 RT rotational invariance

**AXIAL-VECTOR CURRENTS**

\*BT1 algebraic currents  
 RT pcac theory  
 RT v-a theory  
 RT vector currents

**AXIAL VECTOR MESONS**

INIS: 1995-08-07; ETDE: 1988-01-25

Mesons with spin and parity 1+.

UF pseudovector mesons  
 \*BT1 mesons  
 NT1 a1-1260 mesons  
 NT1 b1-1235 mesons  
 NT1 chi b1-9890 mesons  
 NT1 chi1-3510 mesons  
 NT1 d s-2536 mesons  
 NT1 d1-2420 mesons  
 NT1 f1-1285 mesons  
 NT1 f1-1420 mesons  
 NT1 f1-1510 mesons  
 NT1 h1-1170 mesons  
 NT1 k1-1270 mesons  
 NT1 k1-1400 mesons

**AXIOMATIC FIELD THEORY**

INIS: 1977-11-21; ETDE: 1978-03-08

UF axiomatic s-matrix theory  
 UF general quantum field theory  
 UF non lagrangian quantum field theory  
 \*BT1 quantum field theory  
 NT1 algebraic field theory  
 NT1 lsz theory  
 NT1 wightman field theory

**axiomatic s-matrix theory**

INIS: 1977-11-21; ETDE: 1978-03-08

USE axiomatic field theory

**AXIONS**

INIS: 1978-08-14; ETDE: 1978-10-19

\*BT1 goldstone bosons

**axolotl**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE salamanders

**axons**

USE nerve cells

**AZAARENES**

INIS: 1994-06-27; ETDE: 1983-02-09

Group of heterocycles, which contain one nitrogen atom instead of carbon in the structure of one of the aromatic rings.

UF polycyclic nitrogen heterocycles  
 \*BT1 aromatics  
 \*BT1 heterocyclic compounds  
 \*BT1 organic nitrogen compounds  
 NT1 acridines  
 NT2 acridine orange  
 NT2 flavines  
 NT3 acriflavine  
 NT3 proflavine  
 NT1 carbazoles  
 NT1 indoles  
 NT2 indigo

NT2 indocyanine green

NT2 lysergic acid

NT2 reserpine

NT2 strychnine

NT2 tryptamines

NT3 melatonin

NT3 serotonin

NT4 bufotenine

NT2 tryptophan

NT2 vinblastine

NT1 phenanthrolines

NT2 ferroin

NT2 phenanthroline-ortho

NT1 pteridines

NT2 aminopterin

NT2 folic acid

NT1 purines

NT2 adenines

NT3 kinetin

NT2 guanine

NT2 guanosine

NT2 hypoxanthine

NT2 inosine

NT2 mercaptopurine

NT2 xanthines

NT3 caffeine

NT3 theobromine

NT3 theophylline

NT3 uric acid

NT1 quinolines

NT2 ferron

NT2 oxine

NT2 quinaldine

RT polycyclic aromatic hydrocarbons

**azaguanine**

ETDE: 1981-04-20

(Prior to April 1994, this was a valid ETDE descriptor.)

USE antimetabolites

**AZBEL-KANER RESONANCE**

A type of cyclotron resonance in high-purity metals at liquid helium temperature.

\*BT1 cyclotron resonance

RT metals

**AZEOTROPE**

RT boiling points

RT distillation

**AZERBAIJAN**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

SF soviet union

SF union of soviet socialist republics

SF ussr

BT1 asia

RT caspian sea

RT caucasus

**AZGIR TEST SITE**

1999-01-25

BT1 nuclear test sites

RT nuclear explosions

RT nuclear weapons

**AZIDES**

For inorganic compounds only. For organic azides, use AZIDO COMPOUNDS.

BT1 nitrogen compounds

RT azido compounds

RT hydrazoic acid

**AZIDO COMPOUNDS**

\*BT1 organic nitrogen compounds

RT azides

**azimuth**

INIS: 2000-04-12; ETDE: 1975-12-16

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE coordinates

SEE orientation

SEE space dependence

**azimuthal pinch devices (linear)**

USE linear theta pinch devices

**AZINES**

Compounds that contain a six-membered heterocyclic ring containing one or more nitrogen atoms.

\*BT1 heterocyclic compounds

\*BT1 organic nitrogen compounds

NT1 phenothiazines

NT2 chlorpromazine

NT2 methylene blue

NT1 pyrazines

NT2 phenazine

NT2 piperazines

NT1 pyridazines

NT2 phthalazines

NT3 luminol

NT1 pyridines

NT2 acridines

NT3 acridine orange

NT3 flavines

NT4 acriflavine

NT4 proflavine

NT2 bipyridines

NT2 nicotinamide

NT2 nicotine

NT2 nicotinic acid

NT2 picolines

NT3 picolinic acid

NT2 piperidines

NT3 dipyridamole

NT3 pethidine

NT3 triacetoneamine-n-oxyl

NT2 pyridine

NT2 pyridinium compounds

NT2 pyridoxal

NT2 pyridoxine

NT2 pyridoxylideneglutamate

NT2 pyridylazonaphthol

NT2 pyridylazoresorcinol

NT2 quinolines

NT3 ferron

NT3 oxine

NT3 quinaldine

NT1 pyrimidines

NT2 alloxan

NT2 barbiturates

NT3 nembutal

NT3 phenobarbital

NT2 cytidine

NT2 cytosine

NT2 deoxycytidine

NT2 thiamine

NT2 thymidine

NT3 fluorothymidine

NT2 uracils

NT3 bromouracils

NT4 budr

NT3 chlorouracils

NT3 deoxyuridine

NT3 fluorouracils

NT4 fudr

NT3 iodouracils

NT4 iododeoxyuridine

NT3 orotic acid

NT3 thiouracil

NT3 thymine

NT3 uridine

NT1 triazines

NT2 cyanurates

NT2 melamine

**AZO COMPOUNDS**

UF cycasin

\*BT1 organic nitrogen compounds

NT1 arsenazo

NT1 azo dyes

NT2 eriochrome dyes

NT2 evans blue

NT2 methyl orange

NT2 methyl red

NT2 toluidine blue

NT2 trypan blue

**AZO DYES**

1996-10-22

UF acid chrome dyes

UF beryllon

UF congo red

UF dsnadns

UF erioglaucine

\*BT1 azo compounds

BT1 dyes

NT1 eriochrome dyes

NT1 evans blue

NT1 methyl orange

NT1 methyl red

NT1 toluidine blue

NT1 trypan blue

RT diazo compounds

**AZOLES**

Compounds that contain a five-membered heterocyclic ring containing one or more nitrogen atoms.

\*BT1 heterocyclic compounds

\*BT1 organic nitrogen compounds

NT1 carbazoles

NT1 imidazoles

NT2 allantoin

NT2 benzimidazoles

NT2 biotin

NT2 creatinine

NT2 histamine

NT2 histidine

NT2 hydantoins

NT2 metronidazole

NT2 misonidazole

NT2 urocanic acid

NT1 oxadiazoles

NT1 oxazoles

NT2 benzoxazoles

NT2 popop

NT1 pyrazoles

NT2 indazoles

NT2 pyrazolines

NT3 antipyrine

NT1 pyrroles

NT2 bilirubin

NT2 indoles

NT3 indigo

NT3 indocyanine green

NT3 lysergic acid

NT3 reserpine

NT3 strychnine

NT3 tryptamines

NT4 melatonin

NT4 serotonin

NT5 bufotenine

NT3 tryptophan

NT3 vinblastine

NT2 pyrrolidines

NT3 hydroxyproline

NT3 nicotine

NT3 proline

NT2 pyrrolidones

NT3 pvp

NT1 tetrazoles

NT2 tetrazolium

NT1 thiadiazoles

NT1 thiazoles

NT2 benzothiazoles

NT2 saccharin

NT2 thiamine

NT1 triazoles

**azolla**

INIS: 1993-05-28; ETDE: 2002-06-07

USE aquatic organisms

USE ferns

**azomide**

INIS: 1988-06-22; ETDE: 1988-07-15

USE hydrazoic acid

**AZORES ISLANDS**

2000-04-12

BT1 islands

\*BT1 portugal

**AZOTOBACTER**

\*BT1 bacteria

**AZULENE**

\*BT1 polycyclic aromatic hydrocarbons

**b-1235 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE b1-1235 mesons

**B ANTIQUARKS**

2007-06-26

\*BT1 antiquarks

\*BT1 b quarks

**B C MESONS**

1998-12-15

\*BT1 beauty mesons

\*BT1 charmed mesons

\*BT1 pseudoscalar mesons

RT quarkonium

**b centers**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

USE color centers

**B CODES**

BT1 computer codes

**B MESONS**

INIS: 1995-08-07; ETDE: 1984-06-29

The 'Bottom' or 'Beauty' meson with mass approx. 5270 MeV.

\*BT1 beauty mesons

\*BT1 pseudoscalar mesons

NT1 b minus mesons

NT1 b neutral mesons

NT2 anti-b neutral mesons

NT1 b plus mesons

**B MINUS MESONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 b mesons

**B NEUTRAL MESONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 b mesons

NT1 anti-b neutral mesons

**B PLUS MESONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 b mesons

**B QUARKS**

INIS: 1995-09-08; ETDE: 1995-10-03

\*BT1 beauty particles

\*BT1 quarks

NT1 b antiquarks

RT bottomonium

**B S MESONS**

1995-07-17

- \*BT1 beauty mesons
- \*BT1 pseudoscalar mesons
- \*BT1 strange mesons

**B\*-5325 MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02

- \*BT1 beauty mesons
- \*BT1 vector mesons

**B1-1235 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-28

(Prior to December 1987 this concept was indexed by B-1235RESONANCES.)

- UF *b-1235 resonances*
- \*BT1 axial vector mesons

**BABCOCK AND WILCOX-DUPONT PROCESS**

INIS: 2000-04-12; ETDE: 1977-05-07

*Entrained oxygen-blown coal gasification system, utilizing a design to remove bulk of slag from ash and to cool remainder by passage through a water-wall chamber above the coal feed point, is capable of operation at elevated pressures and designed to tolerate molten coal ash.*

- \*BT1 coal gasification
- RT entrainment

***babcock and wilcox lpr reactor***

2000-04-12

- USE lpr reactor

***babcock and wilcox standard reactor***

1993-11-04

- USE bw standard reactor

***babcock and wilcox test reactor***

1993-11-04

- USE bawtr reactor

**BABESIDAE**

- \*BT1 sporozoa
- RT erythrocytes

**BABOONS**

1985-12-11

(Prior to 1986 APES was used for this concept.)

- \*BT1 monkeys

**BACA GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1981-01-09

- BT1 geothermal fields
- RT geothermal hot-water systems
- RT new mexico

***bach-tamaid theory***

1996-06-26

(Until June 1996 this was a valid descriptor.)

- SEE particle structure

**BACILLUS**UF *ferrobacillus ferrooxidans*

- \*BT1 bacteria
- NT1 bacillus cereus
- NT1 bacillus licheniformis
- NT1 bacillus megaterium
- NT1 bacillus subtilis
- NT1 thiobacillus ferrooxidans
- NT1 thiobacillus oxidans

**BACILLUS CEREUS**

- \*BT1 bacillus

**BACILLUS LICHENIFORMIS**

INIS: 1993-07-13; ETDE: 1986-01-14

- \*BT1 bacillus
- RT microbial eor

**BACILLUS MEGATERIUM**

1975-12-19

- \*BT1 bacillus

**BACILLUS SUBTILIS**

- \*BT1 bacillus

**BACK CONTACT SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1980-06-06

- \*BT1 solar cells

**BACKBENDING**

INIS: 1977-03-01; ETDE: 1977-04-12

*The sudden increase of the moment of inertia of deformed nuclei at a critical angular momentum.*

- RT angular momentum
- RT coriolis force
- RT deformed nuclei
- RT high spin states
- RT moment of inertia
- RT nuclear structure
- RT rotation
- RT rotational states
- RT vmi model
- RT yrast states

**BACKFILLING**

INIS: 1983-10-14; ETDE: 1976-02-19

- RT coal mines
- RT land reclamation
- RT mines
- RT radioactive waste disposal
- RT radionuclide migration
- RT stowing
- RT underground disposal
- RT waste-rock interactions

***backfitting***

INIS: 1979-04-27; ETDE: 2002-06-13

- USE retrofitting

**BACKGROUND NOISE**

- BT1 noise
- RT radio noise

**BACKGROUND RADIATION**UF *terrestrial background*

- BT1 radiations
- RT cosmic radiation
- RT natural radioactivity
- RT relict radiation

***backlund transformation***

INIS: 1984-04-04; ETDE: 2002-06-13

- USE baeklund transformation

**BACKSCATTERING**

- BT1 scattering
- RT albedo-neutron dosimeters
- RT angular distribution
- RT reflection
- RT rutherford backscattering spectroscopy

**BACKWARD WAVE TUBES**

- \*BT1 microwave tubes

***bacon***

- USE meat

**BACTERIA**

1997-06-17

- UF *cells (bacterial)*
- BT1 microorganisms
- NT1 actinomyces
- NT2 frankia
- NT1 aerobacter
- NT1 aeromonas
- NT1 azotobacter
- NT1 bacillus
- NT2 bacillus cereus

NT2 bacillus licheniformis

NT2 bacillus megaterium

NT2 bacillus subtilis

NT2 thiobacillus ferrooxidans

NT2 thiobacillus oxidans

NT1 brucella

NT1 clostridium

NT2 clostridium acetobutylicum

NT2 clostridium botulinum

NT2 clostridium butyricum

NT2 clostridium perfringens

NT2 clostridium thermocellum

NT2 clostridium thermosaccharolyticum

NT1 coliforms

NT1 corynebacterium fascians

NT1 corynebacterium parvum

NT1 escherichia coli

NT1 haemophilus

NT1 klebsiella

NT1 lactobacillus

NT1 legionella anisa

NT1 legionella pneumophila

NT1 meningococcus

NT1 methanogenic bacteria

NT2 clostridium acetobutylicum

NT1 methanotrophic bacteria

NT1 micrococcus

NT2 micrococcus luteus

NT2 micrococcus lysodeicticus

NT2 micrococcus radiodurans

NT1 mycobacterium

NT2 mycobacterium tuberculosis

NT1 nocardia

NT1 photosynthetic bacteria

NT2 rhodospseudomonas

NT2 rhodospirillum

NT1 pneumococcus

NT1 proteus

NT1 pseudomonas

NT1 rhizobium

NT1 salmonella

NT2 salmonella typhimurium

NT1 serratia

NT1 shigella

NT1 spirochaetes

NT1 staphylococcus

NT1 streptococcus

NT1 streptomyces

NT1 sulfate-reducing bacteria

NT2 desulfovibrio

NT1 sulfur-oxidizing bacteria

NT2 rhodococcus

NT2 thiobacillus ferrooxidans

NT2 thiobacillus oxidans

NT1 thermoactinomyces

NT1 zymomonas mobilis

RT bacterial diseases

RT bacterial spores

RT bacteriophages

RT disinfectants

RT endotoxins

RT germ-free animals

RT germicides

RT host-cell reactivation

RT infectivity

RT mycoplasma

RT nitrogen fixation

RT plankton

RT toxins

RT vaccines

**BACTERIAL DISEASES**

INIS: 1996-07-18; ETDE: 1981-01-12

UF *paratyphoid*

\*BT1 infectious diseases

NT1 cholera

NT1 diphtheria

NT1 gonorrhoea

NT1 leprosy

NT1 syphilis  
 NT1 tetanus  
 NT1 tuberculosis  
 NT1 typhoid  
 RT antibiotics  
 RT bacteria  
 RT legionella anisa  
 RT legionella pneumophila

**BACTERIAL SPORES**

BT1 spores  
 RT bacteria  
 RT preservation  
 RT sterilization

**bactericides**

INIS: 2000-04-12; ETDE: 1980-03-04  
 USE germicides

**BACTERIOPHAGES**

1997-06-17  
 UF phages  
 \*BT1 viruses  
 RT bacteria  
 RT cosmids  
 RT host-cell reactivation  
 RT plaque formation

**BADDELEYITE**

\*BT1 oxide minerals  
 \*BT1 radioactive minerals  
 RT caldasite  
 RT hafnium oxides  
 RT zirconium oxides

**BAECKLUND TRANSFORMATION**

1980-05-14  
 UF backlund transformation  
 BT1 transformations  
 RT nonlinear problems  
 RT solitons

**baer walls**

INIS: 2000-04-12; ETDE: 1979-02-27  
 USE drum walls

**BAFFLED TUBES**

BT1 tubes  
 RT baffles

**BAFFLES**

INIS: 1985-12-10; ETDE: 1976-11-17  
 Plates that regulate the flow of a fluid, e.g. in heat exchangers.  
 \*BT1 flow regulators  
 RT baffled tubes  
 RT diffusers  
 RT fluid flow

**BAG MODEL**

INIS: 1976-03-02; ETDE: 1975-11-28  
 A relativistic particle model in which some hadronic fields are confined within a finite region of space by the action of a uniform phenomenological external pressure.  
 UF quark confinement  
 \*BT1 extended particle model  
 \*BT1 quark model  
 RT quantum chromodynamics

**BAGASSE**

INIS: 1999-07-07; ETDE: 1976-01-23  
 \*BT1 agricultural wastes  
 RT cellulose

**baghdad wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE irt-baghdad reactor

**BAGHOUSES**

INIS: 1991-09-19; ETDE: 1978-03-03  
 A structure for holding bag filters for removing suspended dusts and fumes from airstreams.  
 \*BT1 pollution control equipment  
 RT air pollution control  
 RT fabric filters

**BAHAMA ISLANDS**

BT1 developing countries  
 \*BT1 west indies  
 RT atlantic ocean

**BAHRAIN**

INIS: 1982-12-03; ETDE: 1976-10-13  
 BT1 arab countries  
 BT1 asia  
 BT1 developing countries  
 BT1 islands  
 BT1 middle east  
 RT oapec

**baikal neutrino experiment**

2016-12-12  
 USE baikal neutrino telescope

**BAIKAL NEUTRINO TELESCOPE**

2016-12-12  
 Located at a distance of 3.5 km from the shore at a depth of 1100 m in the south part of lake Baikal in Siberia, Russia.  
 UF baikal neutrino experiment  
 \*BT1 neutrino detectors

**baile process**

INIS: 2000-04-12; ETDE: 1976-07-07  
 Fluidized-bed pyrolysis process using air for conversion of municipal solid waste into intermediate btu gas.  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE waste processing

**BAILLY-1 REACTOR**

Northern Indiana Public Service Co., Baillytown, Indiana, USA. Canceled in 1981 before construction began.  
 \*BT1 bwr type reactors

**BAINITE**

RT martensite  
 RT steels

**BAKELITE**

\*BT1 plastics  
 RT formaldehyde  
 RT phenols  
 RT resins

**BAKING**

BT1 heating

**baking (food)**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE food processing

**bal (british anti-lewisite)**

ETDE: 2005-02-01  
 (Prior to January 2005 BAL was a valid descriptor.)  
 USE dimercaprol

**BALAKOVO-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
 \*BT1 wwr type reactors

**BALAKOVO-2 REACTOR**

INIS: 1986-12-09; ETDE: 1987-02-24  
 \*BT1 wwr type reactors

**BALAKOVO-3 REACTOR**

1998-10-21  
 \*BT1 wwr type reactors

**BALAKOVO-4 REACTOR**

2002-08-13  
 \*BT1 wwr type reactors

**balance (energy)**

USE energy balance

**balance (mass)**

USE mass balance

**balance of power**

INIS: 2000-04-12; ETDE: 1986-02-03  
 (Prior to February 1997 this was a valid ETDE descriptor.)  
 USE international relations

**BALANCES**

\*BT1 weight indicators  
 NT1 microbalances

**balances (magnetic)**

USE magnetic balances

**balescu theory**

USE prigogine theorem

**BALL BEARINGS**

BT1 bearings

**BALL LIGHTNING**

\*BT1 lightning

**BALLASTS**

INIS: 2000-04-12; ETDE: 1979-02-23  
 Devices that limit the current of fluorescent or mercury lamps to the required value for proper operation.  
 RT fluorescent lamps  
 RT lighting systems

**BALLISTIC MISSILE DEFENSE**

INIS: 1994-09-08; ETDE: 1984-11-29  
 UF strategic defense initiative  
 BT1 national defense  
 RT directed-energy weapons  
 RT national security  
 RT nuclear weapons  
 RT space weapons

**BALLOONING INSTABILITY**

INIS: 1979-05-28; ETDE: 1979-08-07  
 \*BT1 plasma macroinstabilities

**BALLOONS**

1999-01-25  
 BT1 aircraft

**BALMER LINES**

Includes all aspects of the transitions associated with balmer lines.  
 UF balmer spectra  
 UF h-alpha line  
 UF h-beta line  
 UF h-gamma line  
 RT hydrogen  
 RT rydberg correction  
 RT spectra

**balmer spectra**

USE balmer lines

**BALNEOLOGY**

The science of the healing qualities of baths, esp. with natural mineral waters.  
 BT1 medicine  
 RT therapy  
 RT water

**BALTIC SEA**

\*BT1 seas

**BALTIMORE CANYON**

INIS: 2000-04-12; ETDE: 1978-12-11

*Depression off Middle Atlantic States.*

\*BT1 atlantic ocean

**bamag process**

INIS: 2000-04-12; ETDE: 1977-04-12

*German process uses a proprietary catalyst to reduce sulfur dioxide to elemental sulfur using a medium btu town gas derived from a coking process and consisting of hydrogen, methane and carbon monoxide.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE waste processing

**BAMBOO**

INIS: 1991-12-16; ETDE: 1985-11-19

\*BT1 gramineae

**bambp**

1996-06-26

*Butyl-alpha-methylbenzylphenol.*

(Until June 1996 this was a valid descriptor.)

USE phenols

**BANACH SPACE**

\*BT1 mathematical space

NT1 hilbert space

RT vectors

**BANANA PLANTS**

INIS: 1975-12-09; ETDE: 1976-01-26

\*BT1 liliopsida

RT bananas

RT fruit trees

**BANANA REGIME**

*A specific mechanism of particle trapping in toroidal devices.*

BT1 trapping

RT neoclassical transport theory

RT stellarators

RT tokamak devices

RT toroidal pinch devices

RT trapped-particle instability

**BANANAS**

\*BT1 fruits

RT banana plants

RT fruit trees

**BAND THEORY**

RT brillouin zones

RT density of states

RT electronic structure

RT energy gap

RT energy-level transitions

RT fermi level

RT graded band gaps

RT hubbard model

RT wigner-seitz method

**BANDING TECHNIQUES**

INIS: 1978-04-21; ETDE: 1978-07-06

*Techniques for making chromosomal aberrations visible.*

BT1 cytological techniques

RT biological localization

RT chromosomal aberrations

RT chromosomes

RT genetic mapping

RT human chromosomes

RT stains

**baneberry event**

1994-10-13

*A test made during OPERATION EMERY.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**BANGKOK TREATY**

1999-01-26

*Treaty for the prohibition of nuclear weapons in South-East Asia.*

BT1 treaties

RT arms control

RT nuclear weapons

**BANGLADESH**

UF east pakistan

UF pakistan (east)

BT1 asia

BT1 developing countries

RT ganga river

**BANGLADESH ORGANIZATIONS**

INIS: 1983-07-15; ETDE: 1983-09-15

BT1 national organizations

**bank accounts**

INIS: 2000-04-12; ETDE: 1983-05-21

SEE financing

**banks**

INIS: 2000-04-12; ETDE: 1981-01-09

USE commercial buildings

**banon event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**BARBADOS**

INIS: 1992-06-12; ETDE: 1979-12-10

\*BT1 lesser antilles

**BARBITURATES**

1996-10-23

(Prior to August 1996 AMYTAL was a valid ETDE descriptor.)

UF amobarbital

UF amytal

UF barbituric acid

UF pentothal

UF thiopental

\*BT1 anesthetics

\*BT1 hypnotics and sedatives

\*BT1 organic oxygen compounds

\*BT1 pyrimidines

NT1 nembutal

NT1 phenobarbital

**barbituric acid**

USE barbiturates

**BARC**

UF bhabha atomic research center

\*BT1 indian organizations

RT brahmhma facility

**barcelona argonaut reactor**

USE argos reactor

**bardeen-cooper-schrieffer theory**

USE bcs theory

**BARGES**

INIS: 1992-05-08; ETDE: 1977-01-10

RT navigation

RT ships

RT transport

**BARITE**

*A white, yellow, or colorless orthorhombic mineral.*

\*BT1 sulfate minerals

RT barium sulfates

**BARIUM**

\*BT1 alkaline earth metals

**BARIUM 114**

1995-06-29

\*BT1 barium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 carbon 12 decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**BARIUM 115**

1995-06-29

\*BT1 barium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**BARIUM 116**

1995-06-29

\*BT1 barium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**BARIUM 117**

INIS: 1977-06-14; ETDE: 1976-01-07

\*BT1 barium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**BARIUM 118**

1995-06-29

\*BT1 barium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**BARIUM 119**

\*BT1 barium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**BARIUM 120**

\*BT1 barium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**BARIUM 121**

\*BT1 barium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**BARIUM 122**

\*BT1 barium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**BARIUM 123**

\*BT1 barium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**BARIUM 124**

\*BT1 barium isotopes

\*BT1 beta-plus decay radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 125**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 126**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**BARIUM 127**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes

**BARIUM 127 TARGET**

*INIS: 1992-09-22; ETDE: 1977-05-07*  
BT1 targets

**BARIUM 128**

- \*BT1 barium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**BARIUM 129**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**BARIUM 130**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**BARIUM 130 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**BARIUM 131**

- \*BT1 barium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes

**BARIUM 132**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**BARIUM 133**

- \*BT1 barium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes

- \*BT1 isomeric transition isotopes
- \*BT1 years living radioisotopes

**BARIUM 134**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**BARIUM 134 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**BARIUM 135**

- \*BT1 barium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes

**BARIUM 135 TARGET**

*INIS: 1977-04-07; ETDE: 1977-03-04*  
BT1 targets

**BARIUM 136**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 stable isotopes

**BARIUM 136 TARGET**

*INIS: 1976-02-11; ETDE: 1976-07-12*  
BT1 targets

**BARIUM 137**

- \*BT1 barium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 stable isotopes

**BARIUM 137 TARGET**

*INIS: 1977-04-07; ETDE: 1977-06-02*  
BT1 targets

**BARIUM 138**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 stable isotopes

**BARIUM 138 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**BARIUM 139**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**BARIUM 139 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**BARIUM 140**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**BARIUM 141**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 142**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 143**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 144**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 145**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 146**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 147**

*INIS: 1977-06-13; ETDE: 1977-10-19*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 148**

*INIS: 1977-06-13; ETDE: 1976-03-25*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 149**

*1986-01-21*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 150**

*2007-09-26*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 151**

*2007-09-26*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**BARIUM 152**

*2007-09-26*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei



**BARIUM 153**

2007-09-26

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**BARIUM ADDITIONS**

*Alloys containing not more than 1% Ba are listed here.*

- \*BT1 barium alloys

**BARIUM ALLOYS**

*Alloys containing more than 1% Ba.*

- BT1 alloys
- NT1 barium additions
- NT1 barium base alloys

**BARIUM BASE ALLOYS**

- \*BT1 barium alloys

**BARIUM BORIDES**

- \*BT1 barium compounds
- \*BT1 borides

**BARIUM BROMIDES**

- \*BT1 barium halides
- \*BT1 bromides

**BARIUM CARBIDES**

- \*BT1 barium compounds
- \*BT1 carbides

**BARIUM CARBONATES**

- \*BT1 barium compounds
- \*BT1 carbonates

**BARIUM CHLORIDES**

- \*BT1 barium halides
- \*BT1 chlorides

**BARIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**BARIUM COMPOUNDS**

- BT1 alkaline earth metal compounds
- NT1 barium borides
- NT1 barium carbides
- NT1 barium carbonates
- NT1 barium halides
  - NT2 barium bromides
  - NT2 barium chlorides
  - NT2 barium fluorides
  - NT2 barium iodides
- NT1 barium hydrides
- NT1 barium hydroxides
- NT1 barium nitrates
- NT1 barium nitrides
- NT1 barium oxides
- NT1 barium perchlorates
- NT1 barium phosphates
- NT1 barium silicates
- NT1 barium sulfates
- NT1 barium sulfides
- NT1 barium tungstates

**BARIUM FLUORIDES**

- \*BT1 barium halides
- \*BT1 fluorides

**BARIUM HALIDES**

2012-07-19

- \*BT1 barium compounds
- \*BT1 halides
- NT1 barium bromides
- NT1 barium chlorides
- NT1 barium fluorides
- NT1 barium iodides

**BARIUM HYDRIDES**

- \*BT1 barium compounds
- \*BT1 hydrides

**BARIUM HYDROXIDES**

- \*BT1 barium compounds
- \*BT1 hydroxides

**BARIUM IODIDES**

- \*BT1 barium halides
- \*BT1 iodides

**BARIUM IONS**

- \*BT1 ions

**BARIUM ISOTOPES**

1999-02-01

- \*BT1 alkaline earth isotopes
- NT1 barium 114
- NT1 barium 115
- NT1 barium 116
- NT1 barium 117
- NT1 barium 118
- NT1 barium 119
- NT1 barium 120
- NT1 barium 121
- NT1 barium 122
- NT1 barium 123
- NT1 barium 124
- NT1 barium 125
- NT1 barium 126
- NT1 barium 127
- NT1 barium 128
- NT1 barium 129
- NT1 barium 130
- NT1 barium 131
- NT1 barium 132
- NT1 barium 133
- NT1 barium 134
- NT1 barium 135
- NT1 barium 136
- NT1 barium 137
- NT1 barium 138
- NT1 barium 139
- NT1 barium 140
- NT1 barium 141
- NT1 barium 142
- NT1 barium 143
- NT1 barium 144
- NT1 barium 145
- NT1 barium 146
- NT1 barium 147
- NT1 barium 148
- NT1 barium 149
- NT1 barium 150
- NT1 barium 151
- NT1 barium 152
- NT1 barium 153

**BARIUM NITRATES**

- \*BT1 barium compounds
- \*BT1 nitrates

**BARIUM NITRIDES**

- \*BT1 barium compounds
- \*BT1 nitrides

**BARIUM OXIDES**

- \*BT1 barium compounds
- \*BT1 oxides
- RT bilietite
- RT heinrichite
- RT hollandite
- RT oxide minerals

**BARIUM PERCHLORATES**

INIS: 1983-10-14; ETDE: 1975-11-11

- \*BT1 barium compounds
- \*BT1 perchlorates

**BARIUM PHOSPHATES**

- \*BT1 barium compounds
- \*BT1 phosphates
- RT phosphate minerals

**BARIUM SILICATES**

- \*BT1 barium compounds
- \*BT1 silicates

**BARIUM SULFATES**

1996-11-13

- \*BT1 barium compounds
- \*BT1 sulfates
- RT barite
- RT sulfate minerals

**BARIUM SULFIDES**

- \*BT1 barium compounds
- \*BT1 sulfides

**BARIUM TUNGSTATES**

INIS: 1978-02-23; ETDE: 1976-03-11

- \*BT1 barium compounds
- \*BT1 tungstates

**BARK**

INIS: 1986-07-09; ETDE: 1985-12-11

- BT1 plant tissues
- RT cork
- RT lignin
- RT plant stems
- RT solid fuels
- RT trees
- RT wood wastes

**BARLEY**UF *hordeum*

- \*BT1 cereals

**BARN REACTOR**

*Institute for Atomic Sciences in Agriculture, Wageningen, Netherlands.*

UF *wageningen barn reactor*

- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors

**BARNWELL FUEL PROCESSING PLANT**

- \*BT1 fuel reprocessing plants

**BAROMETERS**

- \*BT1 pressure gages

**barrier layer**

INIS: 2000-04-12; ETDE: 1980-03-04

SEE depletion layer

**barriers**

1996-04-18

- SEE diffusion barriers
- SEE ventilation barriers

**BARSEBAECK-1 REACTOR**

*Barsebaeck, Malmo, Sweden. Permanent shutdown since November 1999.*

UF *sydsvenska kraft ab reactor 1*

- \*BT1 bwr type reactors

**BARSEBAECK-2 REACTOR**

INIS: 1978-04-21; ETDE: 1978-07-06

*Barsebaeck, Malmo, Sweden. Permanent shutdown since May 2005.*

UF *sydsvenska kraft ab reactor 2*

- \*BT1 bwr type reactors

**BARSTOW SOLAR PILOT PLANT**

INIS: 2000-04-12; ETDE: 1980-01-24

*10-mw solar central receiver pilot plant at Barstow, California.*

UF *solar one power plant*

- \*BT1 pilot plants
- \*BT1 tower focus power plants

**BARTLESVILLE ENERGY TECHNOLOGY CENTER**

INIS: 2000-04-12; ETDE: 1978-10-23

- \*BT1 us doe

**BARTON-1 REACTOR**

*Alabama Power and Light, USA. Canceled in 1977 before construction began.*

\*BT1 bwr type reactors

**BARTON-2 REACTOR**

*Alabama Power and Light, USA. Canceled in 1977 before construction began.*

\*BT1 bwr type reactors

**BARTON-3 REACTOR**

*Alabama Power and Light, USA. Canceled in 1975 before construction began.*

\*BT1 bwr type reactors

**BARTON-4 REACTOR**

*Alabama Power and Light, USA. Canceled in 1975 before construction began.*

\*BT1 bwr type reactors

**BARYON-BARYON INTERACTIONS**

(From January 1975 till May 1996

NUCLEON-DEUTERON INTERACTIONS

was a valid ETDE descriptor. The term was

reintroduced in September 2017. In the

interim, PROTON-NEUTRON

INTERACTIONS + PROTON-PROTON

INTERACTIONS was used for this concept.)

\*BT1 hadron-hadron interactions

NT1 hyperon-hyperon interactions

NT1 nucleon-antinucleon interactions

NT2 antiproton-neutron interactions

NT2 neutron-antineutron interactions

NT2 proton-antineutron interactions

NT2 proton-antiproton interactions

NT1 nucleon-deuteron interactions

NT2 proton-deuteron interactions

NT1 nucleon-hyperon interactions

NT1 nucleon-nucleon interactions

NT2 neutron-neutron interactions

NT2 proton-nucleon interactions

NT3 proton-neutron interactions

NT3 proton-proton interactions

**BARYON DECUPLETS**

\*BT1 particle multiplets

**BARYON-EXCHANGE MODELS**

\*BT1 peripheral models

**BARYON NUMBER**

RT baryons

RT gauge invariance

RT neutron oscillation

**baryon number 2 resonances**

*INIS: 2000-04-12; ETDE: 1979-02-27*

USE dibaryons

**BARYON OCTETS**

\*BT1 particle multiplets

RT octet model

**BARYON REACTIONS**

\*BT1 hadron reactions

NT1 hyperon reactions

NT1 nucleon reactions

NT2 antinucleon reactions

NT3 antineutron reactions

NT3 antiproton reactions

NT2 neutron reactions

NT3 fast fission

NT3 thermal fission

NT2 proton reactions

**baryon resonances**

*1988-03-08*

(Prior to December 1987 this was a valid descriptor.)

USE baryons

**BARYON SPECTROSCOPY**

*INIS: 1979-01-18; ETDE: 1979-02-23*

BT1 spectroscopy

**baryonic matter at the nuclotron**

*2018-04-20*

USE nica bm@n detector

**baryonic matter detector**

*2018-04-20*

USE nica bm@n detector

**BARYONIUM**

*INIS: 1978-08-14; ETDE: 1978-04-06*

*Baryonium states, narrow resonances near p-anti p threshold, are mesons that have quantum numbers of a 2 quark-2 antiquark system and couple predominantly to baryon-antibaryon systems.*

\*BT1 mesons

RT baryons

RT protonium

RT quarkonium

**BARYONS**

UF baryon resonances

UF d\* plus resonances

UF d\* zero resonances

UF d\*resonances

UF y\*resonances

SF d\*effect

SF d\*phenomenon

BT1 fermions

\*BT1 hadrons

NT1 antibaryons

NT2 antihyperons

NT3 antilambda particles

NT3 antiomega particles

NT3 antisigma particles

NT3 antixi particles

NT2 antinucleons

NT3 antineutrons

NT3 antiprotons

NT1 beauty baryons

NT2 lambda b neutral baryons

NT1 charmed baryons

NT2 lambda c-2625 baryons

NT2 lambda c plus baryons

NT2 omega c neutral baryons

NT2 sigma c-2455 baryons

NT2 xi c neutral baryons

NT2 xi c plus baryons

NT1 dibaryons

NT2 dineutrons

NT2 diprotons

NT2 lambda-n-2130 dibaryons

NT2 nn-2170 dibaryons

NT2 nn-2250 dibaryons

NT1 hyperons

NT2 antihyperons

NT3 antilambda particles

NT3 antiomega particles

NT3 antisigma particles

NT3 antixi particles

NT2 lambda baryons

NT3 lambda-1405 baryons

NT3 lambda-1520 baryons

NT3 lambda-1600 baryons

NT3 lambda-1670 baryons

NT3 lambda-1690 baryons

NT3 lambda-1800 baryons

NT3 lambda-1810 baryons

NT3 lambda-1820 baryons

NT3 lambda-1830 baryons

NT3 lambda-1890 baryons

NT3 lambda-2100 baryons

NT3 lambda-2110 baryons

NT3 lambda particles

NT4 antilambda particles

NT2 lambda-n-2130 dibaryons

NT2 omega baryons

NT3 omega-2250 baryons

NT3 omega particles

NT4 antiomega particles

NT4 omega minus particles

NT2 sigma baryons

NT3 sigma-1385 baryons

NT3 sigma-1660 baryons

NT3 sigma-1670 baryons

NT3 sigma-1750 baryons

NT3 sigma-1770 baryons

NT3 sigma-1775 baryons

NT3 sigma-1915 baryons

NT3 sigma-1940 baryons

NT3 sigma-2030 baryons

NT3 sigma-2455 baryons

NT3 sigma particles

NT4 antisigma particles

NT4 sigma minus particles

NT4 sigma neutral particles

NT4 sigma plus particles

NT2 xi baryons

NT3 xi-1530 baryons

NT3 xi-1690 baryons

NT3 xi-1820 baryons

NT3 xi-1950 baryons

NT3 xi-2030 baryons

NT3 xi-2250 baryons

NT3 xi-2500 baryons

NT3 xi particles

NT4 antixi particles

NT4 xi minus particles

NT4 xi neutral particles

NT2 z\*baryons

NT1 n\*baryons

NT2 delta baryons

NT3 delta-1232 baryons

NT3 delta-1600 baryons

NT3 delta-1620 baryons

NT3 delta-1700 baryons

NT3 delta-1900 baryons

NT3 delta-1905 baryons

NT3 delta-1910 baryons

NT3 delta-1920 baryons

NT3 delta-1930 baryons

NT3 delta-1950 baryons

NT3 delta-2000 baryons

NT3 delta-2150 baryons

NT3 delta-2200 baryons

NT3 delta-2400 baryons

NT3 delta-2420 baryons

NT3 delta-3000 baryons

NT2 n baryons

NT3 n-1440 baryons

NT3 n-1520 baryons

NT3 n-1535 baryons

NT3 n-1650 baryons

NT3 n-1675 baryons

NT3 n-1680 baryons

NT3 n-1700 baryons

NT3 n-1710 baryons

NT3 n-1720 baryons

NT3 n-1960 baryons

NT3 n-1990 baryons

NT3 n-2000 baryons

NT3 n-2080 baryons

NT3 n-2100 baryons

NT3 n-2190 baryons

NT3 n-2250 baryons

NT3 n-3000 baryons

NT1 nucleons

NT2 antinucleons

NT3 antineutrons

NT3 antiprotons

NT2 neutrons

NT3 antineutrons

NT3 beta-delayed neutrons

NT3 cold neutrons

NT4 ultracold neutrons

**NT3** cosmic neutrons  
**NT3** epithermal neutrons  
**NT3** fast neutrons  
**NT3** fission neutrons  
   **NT4** delayed neutrons  
   **NT4** prompt neutrons  
**NT3** intermediate neutrons  
**NT3** photoneutrons  
**NT3** pile neutrons  
**NT3** polyneutrons  
   **NT4** dineutrons  
   **NT4** tetra-neutrons  
   **NT4** trineutrons  
**NT3** resonance neutrons  
**NT3** slow neutrons  
**NT3** solar neutrons  
**NT3** thermal neutrons  
**NT2** photonucleons  
   **NT3** photoneutrons  
   **NT3** photoprotons  
**NT2** protons  
   **NT3** antiprotons  
   **NT3** cosmic protons  
   **NT3** delayed protons  
   **NT3** diprotons  
   **NT3** photoprotons  
   **NT3** prompt protons  
   **NT3** solar protons  
   **NT3** trapped protons  
**RT** baryon number  
**RT** baryonium

**BASAL METABOLISM**  
**BT1** metabolism

**BASALT**  
 \***BT1** volcanic rocks  
**NT1** diabases  
**RT** feldspars  
**RT** nepheline basalts  
**RT** olivine

**BASEBALL DEVICES**  
 \***BT1** open plasma devices

**BASEBALL SEAM CONFIGURATIONS**  
 \***BT1** open configurations

**BASEBOARD HEATING**  
*INIS: 2000-04-12; ETDE: 1977-09-19*  
 \***BT1** space heating  
**RT** electric heating

**basedow's disease**  
 USE hyperthyroidism

**BASALINE ECOLOGY**  
*INIS: 1982-12-03; ETDE: 1977-04-12*  
*The ecological situation or studies of that situation which exists at a site or geographical region before some development is made in the area; it provides a basis for evaluating impact of the development.*  
**BT1** ecology  
**RT** geographic information systems  
**RT** site characterization  
**RT** species diversity

**BASEMENT ROCK**  
*INIS: 2000-01-21; ETDE: 1981-03-16*  
*Metamorphic or igneous rock underlying the sedimentary sequence.*  
 \***BT1** geologic strata  
**RT** igneous rocks  
**RT** metamorphic rocks  
**RT** rocks

**BASEMENTS**

*INIS: 1992-08-25; ETDE: 1984-07-20*  
*The part of a building that is wholly or partly below ground level.*  
**UF** cellars  
**RT** buildings  
**RT** floors  
**RT** foundations

**BASES**

**NT1** coal tar bases  
**NT1** lewis bases  
**NT1** shale tar bases  
**RT** acid neutralizing capacity  
**RT** anhydrides  
**RT** hydroxides  
**RT** ph value

**BASF-1 REACTOR**

*Ludwigshafen, Federal Republic of Germany.*  
*Plan cancelled in 1976.*  
**UF** basf-industriekernkraftwerk reaktor 1  
 \***BT1** pwr type reactors

**BASF-2 REACTOR**

*Ludwigshafen, Federal Republic of Germany.*  
*Plan cancelled 1969.*  
**UF** basf-industriekernkraftwerk reaktor 2  
 \***BT1** pwr type reactors

**basf-industriekernkraftwerk reaktor 1**

1999-03-23  
 USE basf-1 reactor

**basf-industriekernkraftwerk reaktor 2**

1993-11-04  
 USE basf-2 reactor

**BASIC**

*INIS: 1979-01-18; ETDE: 1975-09-11*  
**BT1** programming languages

**basic interactions**

2017-05-11  
 USE fundamental interactions

**basins (sedimentary)**

*INIS: 1984-04-04; ETDE: 2002-06-13*  
 USE sedimentary basins

**BASOPHILS**

\***BT1** leukocytes

**basophils (connective tissue)**

USE mast cells

**bass strait**

*INIS: 2000-04-12; ETDE: 1977-04-12*  
*(Prior to February 1995, this was a valid ETDE descriptor.)*  
**USE** australia  
**USE** seas

**BASSETITE**

2000-04-12  
 \***BT1** uranium minerals

**BASTNAESITE**

\***BT1** oxide minerals  
 \***BT1** thorium minerals  
**RT** thorium oxides

**bataan philippine power plant**

*INIS: 1983-12-01; ETDE: 1984-01-27*  
 USE pnpp-1 reactor

**BATCH CULTURE**

*INIS: 1997-06-19; ETDE: 1978-06-14*  
**RT** aerobic digestion  
**RT** anaerobic digestion  
**RT** continuous culture  
**RT** culture media  
**RT** fermentation

**RT** semibatch culture

**BATCH LOADING**

**BT1** reactor fueling

**bates linac mit**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
**USE** mit bates linac

**BATHYMETRY**

*INIS: 1992-06-05; ETDE: 1978-07-06*  
*The measurement of ocean depths and the charting of the topography of the ocean floor.*  
**RT** geophysics  
**RT** oceanography  
**RT** seas

**BATS**

1993-04-29  
 \***BT1** mammals

**battelle coal-cleaning process**

*INIS: 2000-04-12; ETDE: 1975-09-11*  
**USE** battelle hydrothermal coal process

**BATTELLE COLUMBUS****LABORATORY**

*INIS: 1977-09-06; ETDE: 1976-11-17*  
 \***BT1** us erda  
**RT** ohio

**BATTELLE HYDROTHERMAL COAL PROCESS**

*INIS: 2000-04-12; ETDE: 1975-09-11*  
*A closed-loop leaching process for removal of up to 99% pyritics and 70% organics to produce solid fuel.*  
**UF** battelle coal-cleaning process  
 \***BT1** desulfurization

**BATTELLE PACIFIC NORTHWEST LABORATORIES**

*INIS: 1976-10-07; ETDE: 1976-07-07*  
**UF** pacific northwest laboratories  
**UF** pnl  
 \***BT1** us doe  
 \***BT1** us erda  
**RT** hanford reservation  
**RT** hapo

**battelle research reactor**

USE brr reactor

**batteries (electric)**

USE electric batteries

**batteries (isotopic)**

USE radioisotope batteries

**BATTERY CHARGE STATE**

1993-02-04  
*(Prior to February 1993, this concept in ETDE was indexed to CHARGE STATE.)*  
**UF** charge state (batteries)  
**RT** charged particles  
**RT** electric batteries  
**RT** electric charges  
**RT** ions

**BATTERY CHARGERS**

1992-07-23  
 \***BT1** electrical equipment  
**NT1** solar battery chargers  
**RT** battery charging

**BATTERY CHARGING**

1999-08-19  
**RT** battery chargers

**BATTERY PASTE**

*INIS: 2000-04-12; ETDE: 1976-08-04*  
**RT** electric batteries  
**RT** electrodes

RT grids

## BATTERY SEPARATORS

2000-04-12

RT electric batteries

### batyl alcohol

1996-06-26

Also known as octadecyl glyceryl ether- $\alpha$ .  
(Until June 1996 this was a valid descriptor.)

USE alcohols

USE ethers

## BAUXITE

A ferruginous aluminium hydroxide.

\*BT1 aluminium ores

RT aluminium hydroxides

## BAWTR REACTOR

Babcock and Wilcox, Lynchburg Research Center, Lynchburg, Virginia, USA. Shut down in 1971.

UF babcock and wilcox test reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 test reactors

\*BT1 thermal reactors

## BAY OF BISCAY

INIS: 1985-07-23; ETDE: 1981-11-10

UF biscay bay (france, spain)

\*BT1 atlantic ocean

\*BT1 bays

RT france

RT spain

## BAY OF FUNDY

1991-09-19

This bay is presently being considered as the site of a sizeable tidal power plant.

\*BT1 atlantic ocean

\*BT1 bays

RT canada

## BAYARD-ALPERT GAGES

\*BT1 ionization gages

### bayleyite

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE carbonate minerals

USE uranium minerals

## BAYS

1997-06-17

\*BT1 coastal waters

NT1 bay of biscay

NT1 bay of fundy

NT1 biscayne bay

NT1 chesapeake bay

NT1 delaware bay

NT1 galveston bay

NT1 matagorda bay

NT1 onslow bay

NT1 prudhoe bay

NT1 sequim bay

### bays (magnetic)

INIS: 1984-04-04; ETDE: 2002-06-13

USE magnetic bays

## BBGKY EQUATION

UF bbgky hierarchy

UF bbgky theory

UF bogolyubov theory

UF born-bogolyubov-green-kirkwood-yvon

\*BT1 differential equations

RT statistical mechanics

### bbgky hierarchy

USE bbgky equation

### bbgky theory

USE bbgky equation

## BCC LATTICES

UF body centered cubic

\*BT1 cubic lattices

## BCL PROCESS

INIS: 2000-04-12; ETDE: 1985-10-10

A two-stage hydrogenation process in which the primary hydrogenation and the secondary hydrogenation processes are combined with the new slurry dewatering and the deashing and preasphaltene removal processes.

UF brown coal liquefaction process

\*BT1 coal liquefaction

## BCOCLMCNM

Brussels Convention on Civil Liability for Maritime Carriage of Nuclear Materials.

UF brussels conv liability for maritime carriage nuc mater 1971

UF liability conv maritime carriage nuclear materials

UF marit car liab conv bruss 1971

UF maritime carriage liability conv brussels 1971

\*BT1 multilateral agreements

RT civil liability

## BCOLONS

Brussels Convention on Liability for Operation of Nuclear Ships.

UF brussels conv liability for operation of nuclear ships

UF liability convention on operation of nuclear ships

UF nuclear ship operation liability convention, brussels

\*BT1 multilateral agreements

RT civil liability

RT liabilities

RT nuclear ship visits

RT nuclear ships

### bcr process

INIS: 2000-04-12; ETDE: 1977-04-12

USE coal gasification

## BCS THEORY

UF bardeen-cooper-schrieffer theory

RT superconductivity

## BCSTPC

Brussels Convention - supplement to Paris Convention on Third Party Liability.

UF brussels conv-suppl to paris conv on third party liability

UF liability conv on third party, brussels

UF third party liability convention, brussels

\*BT1 multilateral agreements

RT civil liability

RT pcotpl

### bdba

2017-03-14

USE beyond-design-basis accidents

## BEACON PROCESS

INIS: 2000-04-12; ETDE: 1981-04-17

The beacon process converts low to medium btu gas to a methane-rich high btu gas by two main reactions. In the presence of a catalyst, carbon is deposited by shifting carbon monoxide to carbon dioxide. The deposited carbon and catalyst are active for hydrogenation to methane.

\*BT1 coal gasification

RT methanation

RT synthesis gas

## BEAD WALLS

INIS: 2000-04-12; ETDE: 1979-02-27

\*BT1 passive solar cooling systems

\*BT1 passive solar heating systems

BT1 walls

RT thermal insulation

RT windows

## BEAGLES

\*BT1 dogs

## BEAM ACCEPTANCE

UF acceptance (beam)

RT beam optics

## BEAM ANALYZERS

For momentum analysis of charged particle beams.

NT1 electrostatic analyzers

NT1 magnetic analyzers

RT beam monitors

RT monochromators

## BEAM-BEAM INTERACTIONS

INIS: 1999-03-23; ETDE: 1979-05-25

RT beam dynamics

RT beam stacking

RT colliding beams

## BEAM BENDING MAGNETS

\*BT1 magnets

RT beam optics

RT magnetic analyzers

### beam blowup

INIS: 1984-04-04; ETDE: 2002-06-13

USE beam dynamics

## BEAM BUNCHERS

RT beam bunching

## BEAM BUNCHING

UF bunching (beam)

\*BT1 beam dynamics

RT beam bunchers

RT beam optics

RT beam shaping

### beam choppers

1975-08-26

USE beam pulsers

## BEAM COOLING

INIS: 1982-04-13; ETDE: 1979-05-03

For improving the quality of particle beams.

NT1 electron cooling

NT1 stochastic cooling

NT2 momentum cooling

RT beam dynamics

## BEAM CURRENTS

UF currents (beam)

BT1 currents

NT1 amp beam currents

NT1 kilo amp beam currents

NT1 mega amp beam currents

NT1 micro amp beam currents

NT1 milli amp beam currents

NT1 nano amp beam currents

NT1 pico amp beam currents

RT beam monitoring

RT beam monitors

RT current density

RT faraday cups

## BEAM DUMPS

Mass of shielding material to absorb an accelerator beam after experimental use.

BT1 accelerator experimental facilities

RT accelerators

**BEAM DYNAMICS***Particle beam motion inside an accelerator.*

UF *beam blowup*  
 UF *blowup (particle beams)*  
 UF *dynamics (beam)*  
 \*BT1 dynamics  
 NT1 beam bunching  
 NT1 betatron oscillations  
 NT1 phase oscillations  
 NT1 synchrotron oscillations  
 RT accelerators  
 RT beam-beam interactions  
 RT beam cooling  
 RT beam optics  
 RT beam stacking  
 RT negative mass effect  
 RT orbit stability  
 RT orbits  
 RT phase stability  
 RT trajectories

**BEAM EMITTANCE**

UF *beam perveance*  
 UF *emittance (beam)*  
 RT beam optics  
 RT brightness

**BEAM EXTRACTION**

UF *extraction (beam)*  
 RT beam optics  
 RT kicker magnets  
 RT septum magnets

**BEAM FOCUSING MAGNETS**

\*BT1 magnets  
 RT beam optics  
 RT quadrupoles

**beam-foil spectroscopy**

USE ion spectroscopy

**beam-gas spectroscopy**

USE ion spectroscopy

**BEAM HOLES**

*Hole through a reactor for the passage of a beam of radiation for experiments outside the reactor.*

\*BT1 reactor channels  
 \*BT1 reactor experimental facilities

**BEAM INJECTION**

UF *injection (beams)*  
 NT1 cluster beam injection  
 NT1 electron beam injection  
 NT1 ion beam injection  
 NT2 molecular ion beam injection  
 NT1 neutral atom beam injection  
 NT1 plasma beam injection  
 NT1 relativistic beam injection  
 RT beam injection heating  
 RT beam optics  
 RT beam production  
 RT particle boosters  
 RT thermonuclear devices

**BEAM INJECTION HEATING**

\*BT1 plasma heating  
 RT atomic beam sources  
 RT beam injection

**BEAM LUMINOSITY**

*Colliding beam interaction rate.*

RT colliding beams  
 RT electron cooling  
 RT interactions

**BEAM MONITORING**

UF *monitoring (beam)*  
 BT1 monitoring  
 RT beam currents  
 RT beam monitors

RT beam position  
 RT beam profiles  
 RT magnetoinduction sensors

**BEAM MONITORS**

UF *monitors (beam)*  
 \*BT1 monitors  
 NT1 beam scanners  
 NT1 faraday cups  
 NT1 magnetoinduction sensors  
 RT beam analyzers  
 RT beam currents  
 RT beam monitoring  
 RT beam position  
 RT beam profiles

**BEAM NEUTRALIZATION**

UF *neutralization (beam)*  
 RT charge exchange  
 RT ionization  
 RT particle beams

**BEAM OPTICS**

RT alignment  
 RT beam acceptance  
 RT beam bending magnets  
 RT beam bunching  
 RT beam dynamics  
 RT beam emittance  
 RT beam extraction  
 RT beam focusing magnets  
 RT beam injection  
 RT beam shaping  
 RT beam splitting  
 RT beam transport  
 RT chromatic aberrations  
 RT collimators  
 RT electrostatic lenses  
 RT electrostatic mirrors  
 RT electrostatic septa  
 RT focusing  
 RT geometrical aberrations  
 RT kicker magnets  
 RT monochromators  
 RT optical systems  
 RT optics  
 RT septum magnets

**beam perveance**

INIS: 2000-04-12; ETDE: 1981-07-06

USE beam emittance  
 USE space charge

**BEAM-PLASMA SYSTEMS**

RT beams  
 RT pierce instability  
 RT plasma  
 RT whistler instability

**BEAM POSITION**

RT beam monitoring  
 RT beam monitors  
 RT beam scanners

**BEAM PRODUCTION**

UF *production (beam)*  
 RT beam injection

**BEAM PROFILES**

UF *beam widths*  
 RT beam monitoring  
 RT beam monitors  
 RT beam scanners  
 RT beam shaping

**BEAM PULSERS**

1975-09-25

UF *beam choppers*  
 UF *choppers (beam)*  
 UF *pulsed beam deflectors*  
 NT1 neutron choppers  
 RT beam shaping

RT beams  
 RT pulsed irradiation  
 RT pulses

**BEAM SCANNERS**

UF *scanners (beam)*  
 \*BT1 beam monitors  
 RT beam position  
 RT beam profiles

**BEAM SEPARATORS**

*For velocity separation of secondary beams.*

RT accelerators

**BEAM SHAPING**

1975-08-22

RT beam bunching  
 RT beam optics  
 RT beam profiles  
 RT beam pulsers  
 RT focusing

**BEAM SPLITTING**

1975-10-09

RT beam optics

**BEAM STACKING**

RT beam-beam interactions  
 RT beam dynamics

**BEAM STRIPPERS**

UF *stripper foils*  
 UF *strippers*  
 RT atomic beams  
 RT charge exchange  
 RT charge states  
 RT electron loss  
 RT ion beams

**BEAM TRANSPORT**

UF *laser guidance*  
 UF *transport (beam)*  
 RT beam optics

**beam widths**

USE beam profiles

**BEAMS**

NT1 antiparticle beams  
 NT2 antineutrino beams  
 NT2 antinucleon beams  
 NT3 antiproton beams  
 NT1 atomic beams  
 NT1 cluster beams  
 NT1 colliding beams  
 NT1 ion beams  
 NT2 aluminium 27 beams  
 NT2 beryllium 9 beams  
 NT2 bismuth 209 beams  
 NT2 boron 10 beams  
 NT2 boron 11 beams  
 NT2 bromine 79 beams  
 NT2 calcium 40 beams  
 NT2 calcium 48 beams  
 NT2 carbon 12 beams  
 NT2 carbon 13 beams  
 NT2 chlorine 35 beams  
 NT2 chlorine 37 beams  
 NT2 copper 63 beams  
 NT2 deuteron beams  
 NT2 fluorine 19 beams  
 NT2 gadolinium 155 beams  
 NT2 germanium 74 beams  
 NT2 germanium 76 beams  
 NT2 gold 197 beams  
 NT2 helium 3 beams  
 NT2 helium 4 beams  
 NT3 alpha beams  
 NT2 hydrogen 1 minus beams  
 NT2 iodine 127 beams  
 NT2 iron 56 beams  
 NT2 iron 58 beams

**NT2** krypton 84 beams  
**NT2** krypton 86 beams  
**NT2** lanthanum 139 beams  
**NT2** lead 208 beams  
**NT2** lithium 6 beams  
**NT2** lithium 7 beams  
**NT2** magnesium 24 beams  
**NT2** magnesium 25 beams  
**NT2** neon 20 beams  
**NT2** neon 22 beams  
**NT2** nickel 58 beams  
**NT2** nickel 60 beams  
**NT2** nitrogen 14 beams  
**NT2** nitrogen 15 beams  
**NT2** oxygen 16 beams  
**NT2** oxygen 18 beams  
**NT2** phosphorus 31 beams  
**NT2** potassium 39 beams  
**NT2** potassium 41 beams  
**NT2** radioactive ion beams  
**NT3** aluminium 26 beams  
**NT3** argon 38 beams  
**NT3** argon 39 beams  
**NT3** argon 40 beams  
**NT3** beryllium 10 beams  
**NT3** beryllium 11 beams  
**NT3** beryllium 7 beams  
**NT3** boron 12 beams  
**NT3** boron 8 beams  
**NT3** carbon 10 beams  
**NT3** carbon 11 beams  
**NT3** carbon 14 beams  
**NT3** chlorine 39 beams  
**NT3** helium 6 beams  
**NT3** helium 8 beams  
**NT3** lithium 11 beams  
**NT3** lithium 8 beams  
**NT3** neon 19 beams  
**NT3** nitrogen 13 beams  
**NT3** sulfur 38 beams  
**NT3** triton beams  
**NT3** uranium 238 beams  
**NT2** silicon 28 beams  
**NT2** silicon 29 beams  
**NT2** silver 107 beams  
**NT2** sodium 23 beams  
**NT2** sulfur 32 beams  
**NT2** tin 120 beams  
**NT2** titanium 48 beams  
**NT2** titanium 50 beams  
**NT2** tungsten 184 beams  
**NT2** xenon 129 beams  
**NT2** xenon 131 beams  
**NT2** xenon 132 beams  
**NT2** xenon 136 beams  
**NT1** molecular beams  
**NT1** particle beams  
**NT2** hyperon beams  
**NT3** lambda particle beams  
**NT3** sigma particle beams  
**NT2** lepton beams  
**NT3** electron beams  
**NT3** muon beams  
**NT3** neutrino beams  
**NT4** antineutrino beams  
**NT3** positron beams  
**NT2** meson beams  
**NT3** eta meson beams  
**NT3** kaon beams  
**NT3** pion beams  
**NT2** nucleon beams  
**NT3** neutron beams  
**NT3** proton beams  
**NT1** photon beams  
**NT1** polarized beams  
**NT1** secondary beams  
**NT2** carbon 11 beams  
**NT2** helium 8 beams  
**RT** beam-plasma systems

**RT** beam pulsers  
**RT** stern-gerlach experiment

### beams (structural)

*INIS: 1983-09-06; ETDE: 1977-08-24*  
**USE** structural beams

### bean plant

**USE** phaseolus

### BEANS

**\*BT1** vegetables  
**NT1** mungbeans  
**RT** phaseolus  
**RT** seeds

### BEARINGS

**NT1** ball bearings  
**NT1** gas bearings  
**NT1** hydrostatic bearings  
**NT1** journal bearings  
**NT1** magnetic bearings  
**NT1** roller bearings  
**RT** bushings  
**RT** lubrication  
**RT** tribology  
**RT** wear

### BEARS

*INIS: 1993-04-29; ETDE: 1986-07-08*  
*Ursidae.*  
**\*BT1** mammals

### BEAT WAVE ACCELERATORS

*INIS: 1988-02-02; ETDE: 1987-09-03*  
*Laser-driven accelerators using the concept in which two laser beams are superimposed in a plasma, the difference of their frequency being the natural frequency of oscillation of the plasma.*

**\*BT1** linear accelerators  
**RT** laser radiation  
**RT** plasma waves

### BEAUFORT SEA

*INIS: 1991-09-19; ETDE: 1977-04-12*  
**\*BT1** arctic ocean  
**NT1** prudhoe bay

### BEAUTY BARYONS

*INIS: 1987-12-21; ETDE: 1988-02-19*  
*UF bottom baryons*  
**\*BT1** baryons  
**\*BT1** beauty particles  
**NT1** lambda b neutral baryons

### BEAUTY MESONS

*INIS: 1995-08-07; ETDE: 1988-02-02*  
*UF bottom mesons*  
**\*BT1** beauty particles  
**\*BT1** mesons  
**NT1** b c mesons  
**NT1** b mesons  
**NT2** b minus mesons  
**NT2** b neutral mesons  
**NT3** anti-b neutral mesons  
**NT2** b plus mesons  
**NT1** b s mesons  
**NT1** b\*-5325 mesons

### beauty model

*INIS: 1984-04-04; ETDE: 1979-11-07*  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
**USE** flavor model

### BEAUTY PARTICLES

*INIS: 1995-10-04; ETDE: 1979-04-11*  
*UF bottom particles*  
**BT1** elementary particles  
**NT1** b quarks  
**NT2** b antiquarks

**NT1** beauty baryons  
**NT2** lambda b neutral baryons  
**NT1** beauty mesons  
**NT2** b c mesons  
**NT2** b mesons  
**NT3** b minus mesons  
**NT3** b neutral mesons  
**NT4** anti-b neutral mesons  
**NT3** b plus mesons  
**NT2** b s mesons  
**NT2** b\*-5325 mesons  
**RT** bottomonium  
**RT** flavor model  
**RT** quark model  
**RT** top particles

### BEAVER VALLEY-1 REACTOR

*FirstEnergy Nuclear Operating Co., Shippingport Pennsylvania, USA.*  
**\*BT1** pwr type reactors

### BEAVER VALLEY-2 REACTOR

*FirstEnergy Nuclear Operating Co., Shippingport Pennsylvania, USA.*  
**\*BT1** pwr type reactors

### beaverlodge

1996-07-16  
 (Until July 1996 this was a valid descriptor.)  
**USE** saskatchewan

### BEAVERLODGE MINE

*INIS: 1975-10-23; ETDE: 1975-12-16*  
*Saskatchewan, Canada.*  
**\*BT1** uranium mines  
**RT** saskatchewan

### BEAVON PROCESS

2000-04-12  
*Process for sulfur removal for purification of claus unit tail gas to well below 250 ppm of sulfur dioxide; process combines hydrogenation, cooling, and wet oxidative extraction and yields sulfur by-product.*  
**\*BT1** desulfurization

### beck cycle

*INIS: 2000-04-12; ETDE: 1980-08-12*  
**SEE** lift cycles  
**SEE** mist-lift cycles

### becquerel

2012-06-04  
*See also RADIOACTIVITY RANGE.*  
**USE** radiation dose units  
**USE** si units

### BECQUERELITE

**\*BT1** oxide minerals  
**\*BT1** uranium minerals  
**RT** calcium oxides  
**RT** uranium oxides

### BEDROCK PROJECT

*INIS: 1999-03-23; ETDE: 1976-07-07*  
*UF hushed echo event*  
*UF project bedrock*  
*UF stilton-hushed echo event*  
**\*BT1** nuclear explosions  
**RT** contained explosions  
**RT** underground explosions

### BEDT-TTF

*INIS: 1993-04-13; ETDE: 1985-11-19*  
*UF bisethylenedithiolotetrathiafulvalene*  
**\*BT1** heterocyclic compounds  
**\*BT1** organic sulfur compounds  
**\*BT1** organic superconductors

### BEECH TREES

*INIS: 1991-12-16; ETDE: 1978-09-11*  
**\*BT1** magnoliopsida

\*BT1 trees

**beef**  
USE meat

**beehive coke**  
INIS: 2000-04-12; ETDE: 1979-09-27  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE coke

**BEEES**  
INIS: 1993-07-12; ETDE: 1981-04-17  
UF *apis mellifera*  
\*BT1 hymenoptera

**BEETLES**  
UF *weevils*  
\*BT1 coleoptera  
NT1 boll weevil  
NT1 tribolium

**BEETS**  
\*BT1 magnoliopsida  
\*BT1 vegetables  
NT1 sugar beets

**BEHAVIOR**  
*Limited to living systems.*  
SF *life styles*  
SF *psychology*  
SF *way of life*  
NT1 avoidance  
RT attitudes  
RT biological adaptation  
RT central nervous system  
RT central nervous system agents  
RT central nervous system depressants  
RT cerebral cortex  
RT competition  
RT human factors  
RT insect dispersal  
RT learning  
RT leisure time activities  
RT mating  
RT mental disorders  
RT physiology  
RT predator-prey interactions  
RT public anxiety  
RT reflexes  
RT safety culture

**BELJING ELECTRON-POSITRON COLLIDER**  
INIS: 1992-10-19; ETDE: 1992-11-04  
\*BT1 linear accelerators  
BT1 storage rings

**beijing miniature neutron source reactor**  
2004-03-15  
USE mnsr-ciae reactor

**BELJING PROTON LINAC**  
INIS: 1992-10-19; ETDE: 1992-11-04  
\*BT1 linear accelerators

**BELARUS**  
INIS: 1997-08-20; ETDE: 1993-03-15  
(Until January 1993, this was indexed by BYELORUSSIAN SSR.)  
UF *byelorussian ssr*  
SF *soviet union*  
SF *union of soviet socialist republics*  
SF *ussr*  
\*BT1 eastern europe

**BELGIAN ORGANIZATIONS**  
INIS: 1980-09-12; ETDE: 1980-10-07  
BT1 national organizations

**belgian reactor 02**  
USE br-02 reactor

**belgian reactor 1**  
USE br-1 reactor

**belgian reactor 2**  
USE br-2 reactor

**belgian reactor 3**  
USE br-3 reactor

**BELGIUM**  
1995-04-03  
BT1 developed countries  
\*BT1 western europe  
RT oecd

**BELIZE**  
INIS: 1997-04-29; ETDE: 1979-12-10  
\*BT1 central america  
BT1 developing countries

**bell inequality**  
INIS: 1977-10-17; ETDE: 1976-11-17  
USE bell theorem

**BELL REACTOR**  
*New York State Electric and Gas, Lake Cayuga, New York, USA. Canceled in 1972 before construction began.*  
\*BT1 bwr type reactors

**BELL THEOREM**  
INIS: 1977-10-17; ETDE: 1976-11-17  
*A theorem proving certain quantum mechanical predictions are inconsistent with the entire family of local hidden variable theories.*  
UF *bell inequality*  
RT hidden variables  
RT quantum mechanics

**BELLEFONTE-1 REACTOR**  
*TVA, Scottsboro, Alabama, USA. Indefinitely deferred.*  
\*BT1 pwr type reactors

**BELLEFONTE-2 REACTOR**  
*TVA, Scottsboro, Alabama, USA. Indefinitely deferred.*  
\*BT1 pwr type reactors

**BELLEVILLE-1 REACTOR**  
2010-08-17  
*Electricite de France, Belleville-sur-Loire / Sury-pres-Lere, Cher, France*  
(Prior to August 2010 BELLEVILLE SUR LOIRE-1 REACTOR was used for this reactor.)  
UF *belleville sur loire-1 reactor*  
\*BT1 pwr type reactors

**BELLEVILLE-2 REACTOR**  
2010-08-17  
*Electricite de France, Belleville-sur-Loire / Sury-pres-Lere, Cher, France*  
(Prior to August 2010 BELLEVILLE SUR LOIRE-2 REACTOR was used for this reactor.)  
UF *belleville sur loire-2 reactor*  
\*BT1 pwr type reactors

**belleville sur loire-1 reactor**  
INIS: 1984-07-20; ETDE: 1984-09-05  
(Prior to August 2010 this was a valid descriptor.)  
USE belleville-1 reactor

**belleville sur loire-2 reactor**  
INIS: 1984-07-20; ETDE: 1984-09-05  
(Prior to August 2010 this was a valid descriptor.)  
USE belleville-2 reactor

**BELLOWS**  
*Use only for the expandable structure. Coordinate with descriptors for the device of which the bellows is a component, e.g., VALVES or BLOWERS.*  
RT blowers  
RT expansion joints  
RT pressure gages  
RT pumps  
RT valves

**BELOYARSK-1 REACTOR**  
*Zarechnyy, Sverdlovsk region, Russian Federation. Permanent shutdown since 1983. Under decommissioning.*  
UF *bnps-1 reactor*  
SF *urals atomic power station*  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**BELOYARSK-2 REACTOR**  
*Zarechnyy, Sverdlovsk region, Russian Federation. Permanent shutdown since 1990. Under decommissioning.*  
UF *bnps-2 reactor*  
SF *urals atomic power station*  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**BELOYARSK-3 REACTOR**  
*Zarechnyy, Sverdlovsk, Russian Federation.*  
UF *bn-600 reactor*  
SF *urals atomic power station*  
\*BT1 lmfbr type reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors  
RT enriched uranium reactors  
RT plutonium reactors

**BELOYARSK-4 REACTOR**  
INIS: 1990-01-29; ETDE: 1990-02-13  
*Zarechnyy, Sverdlovsk, Russian Federation.*  
UF *bn-800 reactor*  
\*BT1 lmfbr type reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors

**BELT CONVEYORS**  
INIS: 1992-07-22; ETDE: 1980-08-12  
\*BT1 conveyors  
RT coal mining  
RT mining

**BELT PINCH**  
\*BT1 longitudinal pinch

**BELYAEV THEORY**  
RT nuclear structure  
RT superconductivity

**BENCH-SCALE EXPERIMENTS**  
1981-05-11  
UF *laboratory scale experiments*  
RT demonstration plants  
RT feasibility studies  
RT field tests  
RT laboratory equipment  
RT process development units  
RT testing

**benchmark experiments**

INIS: 1979-05-28; ETDE: 2002-06-13  
USE benchmarks

**BENCHMARKS**

INIS: 1979-05-28; ETDE: 1978-09-11  
UF benchmark experiments  
RT experimental data  
RT fiducial markers  
RT standardization  
RT standards

**BENDING**

BT1 deformation  
RT flexural strength

**BENFIELD PROCESS**

2000-04-12  
Process for removal of carbon dioxide, hydrogen sulfide, and COS from sour natural gas and raw gases produced during manufacture of substitute natural gas by partial oxidation of coal or oil or by naphtha reforming.  
\*BT1 desulfurization

**benham event**

1994-10-13  
A test made during OPERATION BOWLINE. (Prior to September 1994, this was a valid ETDE descriptor.)  
USE nuclear explosions  
USE underground explosions

**beni oil**

USE sesame oil

**BENIN**

INIS: 1992-06-04; ETDE: 1981-07-18  
UF dahomey  
BT1 africa  
RT niger river

**benioff zone**

INIS: 2000-04-12; ETDE: 1985-06-04  
A plane dipping beneath the continents along which earthquake foci cluster. It corresponds to the upper surface of a descending plate. (Prior to February 1995, this was a valid ETDE descriptor.)  
USE earthquakes  
USE subduction zones

**benne oil**

USE sesame oil

**BENTHOS**

INIS: 1999-03-05; ETDE: 1976-07-07  
Aquatic bottom dwelling organisms.  
BT1 aquatic organisms  
NT1 echinoderms  
NT2 sea urchins  
RT aquatic ecosystems  
RT molluscs

**BENTONITE**

A soft, plastic, porous, light-colored rock consisting largely of colloidal silica and composed essentially of clay minerals (chiefly of the montmorillonite group).  
\*BT1 clays  
\*BT1 inorganic ion exchangers  
RT montmorillonite

**BENZALDEHYDE**

UF benzoic aldehyde  
\*BT1 aldehydes

**BENZANTHRACENE**

\*BT1 polycyclic aromatic hydrocarbons

**BENZEDRINE**

UF phenylisopropylamine  
\*BT1 amphetamines

**BENZENE**

\*BT1 aromatics  
RT aniline  
RT nitrobenzene

**benzenedicarboxylic acid-ortho**

USE phthalic acid

**benzenedicarboxylic acid-para**

USE terephthalic acid

**BENZHYDROL**

UF benzohydrol  
UF diphenylcarbinol  
UF diphenylmethanol  
\*BT1 alcohols

**BENZIDINE**

1996-10-22  
UF biphenyldiamine  
UF diaminobiphenyl  
\*BT1 amines  
\*BT1 aromatics  
RT biphenyl

**BENZILIC ACID**

UF diphenylglycolic acid  
UF hydroxydiphenylacetic acid  
\*BT1 hydroxy acids

**BENZIMIDAZOLES**

\*BT1 imidazoles

**benzine**

INIS: 2000-04-12; ETDE: 1975-12-17  
USE ligroin

**BENZOATES**

2018-01-24  
BT1 carboxylic acid salts  
RT benzoic acid

**BENZOFURANS**

\*BT1 furans  
RT organic polymers  
RT psoralen

**benzohydrol**

USE benzhydrol

**BENZOHYDROXAMIC ACID**

\*BT1 hydroxamic acids  
RT benzoic acid

**BENZOIC ACID**

1996-10-23  
\*BT1 monocarboxylic acids  
RT benzoates  
RT benzoic acid  
RT benzohydroxamic acid  
RT benzoyl peroxide

**benzoic aldehyde**

USE benzaldehyde

**BENZOINOXIME**

\*BT1 oximes

**BENZOPHENONE**

UF diphenyl ketone  
\*BT1 ketones

**benzopinacol**

2000-04-12  
(Prior to February 1996 this was a valid ETDE descriptor; it was used for the concept TETRAPHENYLETHYLENE GLYCOL.)  
USE glycols

**BENZOPYRENE**

\*BT1 polycyclic aromatic hydrocarbons

**benzopyrroles**

USE indoles

**BENZOQUINONES**

1996-10-23  
(Prior to March 1997 QUINHYDRONE was a valid ETDE descriptor.)  
UF chinone  
UF quinhydrone  
UF quinone  
\*BT1 quinones  
NT1 chloranil  
NT1 chloranilic acid  
NT1 plastoquinone  
NT1 ubiquinone

**BENZOTHIAZOLES**

\*BT1 thiazoles

**benzothiophenes**

USE thionaphthenes

**BENZOXAZOLES**

\*BT1 oxazoles

**BENZOYL PEROXIDE**

\*BT1 organic oxygen compounds  
\*BT1 peroxides  
RT benzoic acid

**BENZOYL RADICALS**

BT1 radicals

**benzoylaminoacetic acid**

USE hippuric acid

**BENZOYLATION**

\*BT1 acylation

**benzoylglycine**

USE hippuric acid

**benzoylglycocoll**

USE hippuric acid

**benzoylphenylhydroxylamine**

USE bph

**BENZYL ALCOHOL**

1982-02-10  
UF phenylcarbinol  
\*BT1 alcohols  
\*BT1 aromatics

**BENZYL RADICALS**

\*BT1 aryl radicals

**BEPO REACTOR**

UF british experimental pile operation  
\*BT1 air cooled reactors  
\*BT1 graphite moderated reactors  
\*BT1 isotope production reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**BEPPU GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1977-09-19  
BT1 geothermal fields  
RT japan

**BER-2 REACTOR**

Hahn-Meiner-Institute fuer Kernforschung GmbH, Berlin, Federal Republic of Germany.  
UF berlin-2 research reactor  
UF forschungsreaktor berlin-2  
\*BT1 aqueous homogeneous reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors



**bergbauforschung-foster wheeler process**

INIS: 2000-04-12; ETDE: 1977-04-12

Dry process using a moving bed of char to adsorb sulfur dioxide, nitrogen oxides, and particulates from flue gas and produce elemental sulfur. Unique features include lowered, moving bed adsorber, hot inert sand for thermal regeneration of char, and utilizing coal to reduce sulfur dioxide to sulfur.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE desulfurization

**BERGBAUFORSCHUNG PROCESS**

INIS: 2000-04-12; ETDE: 1977-09-19

Sulfur dioxide removal at 120 to 150 degrees C by adsorption on activated cokes with sulfur recovery.

\*BT1 desulfurization

RT waste processing

**BERGIUS PROCESS**

2000-04-12

Catalytic conversion of coal to synthetic crude oil by treatment with hydrogen at elevated pressures and temperatures.

\*BT1 coal liquefaction

**BERING SEA**

\*BT1 pacific ocean

RT aleutian islands

**berkeley bevalac**

INIS: 1976-01-28; ETDE: 1979-05-03

USE bevalac

**berkeley escar storage ring**

INIS: 1976-02-11; ETDE: 1979-05-09

USE escar storage ring

**berkeley nuclear laboratory reactor**

2000-04-12

SEE graphite moderated reactors

SEE research reactors

SEE zero power reactors

**BERKELEY REACTOR**

Berkeley, Gloucestershire, United Kingdom.

BERKELEY-1 and 2 are permanently shut down since 1989 and 1988

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 thermal reactors

**berkeley research reactor**

2005-05-20

Univ. of California, Berkeley, California, USA.

USE ucbr reactor

**berkeley superhilac**

USE superhilac

**BERKELEY SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

**berkeley triga reactor**

USE ucbr reactor

**BERKELIUM**

\*BT1 actinides

\*BT1 transplutonium elements

**BERKELIUM 235**

2007-07-10

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**BERKELIUM 236**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

**BERKELIUM 237**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

**BERKELIUM 238**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**BERKELIUM 239**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**BERKELIUM 240**

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**BERKELIUM 241**

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 odd-even nuclei

**BERKELIUM 242**

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 spontaneous fission radioisotopes

**BERKELIUM 243**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 odd-even nuclei

\*BT1 spontaneous fission radioisotopes

**BERKELIUM 244**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 spontaneous fission radioisotopes

**BERKELIUM 245**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 berkelium isotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 spontaneous fission radioisotopes

**BERKELIUM 246**

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

**BERKELIUM 247**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 berkelium isotopes

\*BT1 odd-even nuclei

\*BT1 years living radioisotopes

**BERKELIUM 248**

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 odd-odd nuclei

**BERKELIUM 249**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 berkelium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 odd-even nuclei

\*BT1 spontaneous fission radioisotopes

**BERKELIUM 249 TARGET**

INIS: 1976-10-07; ETDE: 1976-11-01

BT1 targets

**BERKELIUM 250**

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 hours living radioisotopes

\*BT1 odd-odd nuclei

**BERKELIUM 251**

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**BERKELIUM 252**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**BERKELIUM 253**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**BERKELIUM 254**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**berkelium additions**

2000-04-12

(Prior to August 1993 this was a valid ETDE descriptor.)

USE alloys

USE berkelium compounds

**BERKELIUM ALLOYS**

INIS: 1979-04-27; ETDE: 1978-10-23

Alloys containing more than 1% Bk.

\*BT1 actinide alloys

**BERKELIUM ARSENIDES**

*INIS: 1996-07-16; ETDE: 1978-10-23*  
 (From July 1996 to February 2008  
 BERKELIUM COMPOUNDS +  
 ARSENIDES was used for this concept.)  
 \*BT1 arsenides  
 \*BT1 berkelium compounds

**BERKELIUM BROMIDES**

*1997-01-28*  
 (From October 1996 to September 2007  
 BERKELIUM COMPOUNDS + BROMIDES  
 was used for this concept.)  
 \*BT1 berkelium halides  
 \*BT1 bromides

**BERKELIUM CHLORIDES**

\*BT1 berkelium halides  
 \*BT1 chlorides

**BERKELIUM COMPLEXES**

\*BT1 actinide complexes  
 \*BT1 transuranium complexes

**BERKELIUM COMPOUNDS**

*1996-11-13*  
*UF berkelium additions*  
 BT1 actinide compounds  
 \*BT1 transplutonium compounds  
 NT1 berkelium arsenides  
 NT1 berkelium halides  
 NT2 berkelium bromides  
 NT2 berkelium chlorides  
 NT2 berkelium fluorides  
 NT1 berkelium hydrides  
 NT1 berkelium nitrates  
 NT1 berkelium nitrides  
 NT1 berkelium oxides  
 NT1 berkelium phosphates  
 NT1 berkelium phosphides  
 NT1 berkelium selenides  
 NT1 berkelium sulfates  
 NT1 berkelium sulfides  
 NT1 berkelium tellurides

**BERKELIUM FLUORIDES**

\*BT1 berkelium halides  
 \*BT1 fluorides

**BERKELIUM HALIDES**

*2012-07-19*  
 \*BT1 berkelium compounds  
 \*BT1 halides  
 NT1 berkelium bromides  
 NT1 berkelium chlorides  
 NT1 berkelium fluorides

**BERKELIUM HYDRIDES**

*1997-01-28*  
 (From November 1996 to November 2007  
 BERKELIUM COMPOUNDS + HYDRIDES  
 was used for this concept.)  
 \*BT1 berkelium compounds  
 \*BT1 hydrides

**BERKELIUM IONS**

\*BT1 ions

**BERKELIUM ISOTOPES**

*1999-07-16*  
 BT1 isotopes  
 NT1 berkelium 235  
 NT1 berkelium 236  
 NT1 berkelium 237  
 NT1 berkelium 238  
 NT1 berkelium 239  
 NT1 berkelium 240  
 NT1 berkelium 241  
 NT1 berkelium 242  
 NT1 berkelium 243  
 NT1 berkelium 244  
 NT1 berkelium 245

NT1 berkelium 246  
 NT1 berkelium 247  
 NT1 berkelium 248  
 NT1 berkelium 249  
 NT1 berkelium 250  
 NT1 berkelium 251  
 NT1 berkelium 252  
 NT1 berkelium 253  
 NT1 berkelium 254

**BERKELIUM NITRATES**

\*BT1 berkelium compounds  
 \*BT1 nitrates

**BERKELIUM NITRIDES**

*1997-01-28*  
 (From November 1996 to November 2007  
 BERKELIUM COMPOUNDS + NITRIDES  
 was used for this concept.)  
 \*BT1 berkelium compounds  
 \*BT1 nitrides

**BERKELIUM OXIDES**

\*BT1 berkelium compounds  
 \*BT1 oxides

**BERKELIUM PHOSPHATES**

*1996-07-16*  
 (From July 1996 to November 2007  
 BERKELIUM COMPOUNDS +  
 PHOSPHATES was used for this concept.)  
 \*BT1 berkelium compounds  
 \*BT1 phosphates

**BERKELIUM PHOSPHIDES**

*INIS: 1996-07-16; ETDE: 1978-10-23*  
 (From July 1996 to November 2007  
 BERKELIUM COMPOUNDS +  
 PHOSPHIDES was used for this concept.)  
 \*BT1 berkelium compounds  
 \*BT1 phosphides

**BERKELIUM SELENIDES**

*INIS: 1996-07-16; ETDE: 1978-10-23*  
 (From July 1996 to November 2007  
 BERKELIUM COMPOUNDS + SELENIDES  
 was used for this concept.)  
 \*BT1 berkelium compounds  
 \*BT1 selenides

**BERKELIUM SULFATES**

*1996-07-16*  
 (From July 1996 to November 2007  
 BERKELIUM COMPOUNDS + SULFATES  
 was used for this concept.)  
 \*BT1 berkelium compounds  
 \*BT1 sulfates

**BERKELIUM SULFIDES**

*1996-06-26*  
 (From June 1996 to November 2007  
 BERKELIUM COMPOUNDS + SULFIDES  
 was used for this concept.)  
 \*BT1 berkelium compounds  
 \*BT1 sulfides

**BERKELIUM TELLURIDES**

*INIS: 1996-07-16; ETDE: 1978-10-23*  
 (From July 1996 to February 2008  
 BERKELIUM COMPOUNDS +  
 TELLURIDES was used for this concept.)  
 \*BT1 berkelium compounds  
 \*BT1 tellurides

**berl saddles**

USE column packing

**berlin-2 research reactor**

USE ber-2 reactor

**berms**

*INIS: 2000-04-12; ETDE: 1979-09-26*  
 USE earth berms

**BERMUDA**

*INIS: 1984-02-22; ETDE: 1980-06-06*  
 BT1 islands  
 RT atlantic ocean  
 RT united kingdom

**BERNOULLI LAW**

RT fluid flow

**BERNSTEIN MODE**

BT1 oscillation modes  
 RT cyclotron harmonics  
 RT ion wave instability  
 RT ion waves  
 RT plasma heating

**BERRIES**

\*BT1 fruits  
 NT1 blueberries  
 NT1 raspberries  
 NT1 strawberries

**BERYL**

\*BT1 silicate minerals  
 RT beryllium silicates

**beryllia**

*INIS: 1975-09-01; ETDE: 1979-05-03*  
 USE beryllium oxides

**BERYLLIOSIS**

\*BT1 pneumoconioses  
 RT beryllium compounds

**BERYLLIUM**

*1996-07-16*  
 (Prior to August 1996 BERYLLIUM-ALPHA  
 and BERYLLIUM-BETA were valid ETDE  
 descriptors.)

*UF beryllium-alpha*  
*UF beryllium-beta*  
*UF beryllium moderators*  
 \*BT1 alkaline earth metals  
 RT moderators

**BERYLLIUM 10**

\*BT1 beryllium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 years living radioisotopes  
 RT beryllium 10 beams

**BERYLLIUM 10 BEAMS**

*2014-04-25*  
 \*BT1 radioactive ion beams  
 RT beryllium 10

**BERYLLIUM 10 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**BERYLLIUM 11**

\*BT1 beryllium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 RT beryllium 11 beams

**BERYLLIUM 11 BEAMS**

*2014-04-25*  
 \*BT1 radioactive ion beams  
 RT beryllium 11

**BERYLLIUM 11 REACTIONS**

*1995-03-28*  
 \*BT1 heavy ion reactions

**BERYLLIUM 11 TARGET**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
 BT1 targets

**BERYLLIUM 12**

- \*BT1 beryllium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**BERYLLIUM 13**

- \*BT1 beryllium isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei

**BERYLLIUM 14**

- \*BT1 beryllium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**BERYLLIUM 15**

2007-09-26

- \*BT1 beryllium isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei

**BERYLLIUM 16**

2007-09-26

- \*BT1 beryllium isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei

**BERYLLIUM 5**

- \*BT1 beryllium isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei

**BERYLLIUM 6**

- \*BT1 beryllium isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei

**BERYLLIUM 6 TARGET**

INIS: 1992-09-22; ETDE: 1977-05-07  
BT1 targets

**BERYLLIUM 7**

- \*BT1 beryllium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- RT beryllium 7 beams
- RT beryllium 7 reactions

**BERYLLIUM 7 BEAMS**

- \*BT1 radioactive ion beams
- RT beryllium 7

**BERYLLIUM 7 REACTIONS**

INIS: 1984-01-18; ETDE: 1985-10-25  
\*BT1 heavy ion reactions  
RT beryllium 7

**BERYLLIUM 7 TARGET**

INIS: 1976-11-08; ETDE: 1976-12-16  
BT1 targets

**BERYLLIUM 8**

- \*BT1 alpha decay radioisotopes
- \*BT1 beryllium isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei

**BERYLLIUM 8 REACTIONS**

INIS: 1983-09-05; ETDE: 1981-01-30  
\*BT1 heavy ion reactions

**BERYLLIUM 8 TARGET**

INIS: 1979-02-21; ETDE: 1979-03-28  
BT1 targets

**BERYLLIUM 9**

- \*BT1 beryllium isotopes
- \*BT1 even-odd nuclei

- \*BT1 light nuclei
- \*BT1 stable isotopes
- RT beryllium 9 beams

**BERYLLIUM 9 BEAMS**

- \*BT1 ion beams
- RT beryllium 9

**BERYLLIUM 9 REACTIONS**

- \*BT1 heavy ion reactions

**BERYLLIUM 9 TARGET**

ETDE: 1976-07-09  
BT1 targets

**BERYLLIUM ADDITIONS**

Alloys containing not more than 1% Be are listed here.  
\*BT1 beryllium alloys

**BERYLLIUM ALLOYS**

Alloys containing more than 1% Be.  
BT1 alloys  
NT1 beryllium additions  
NT1 beryllium base alloys  
RT moderators

**beryllium-alpha**

1996-07-16  
(Until July 1996 this was a valid descriptor.)  
USE beryllium

**BERYLLIUM BASE ALLOYS**

- \*BT1 beryllium alloys

**beryllium-beta**

1996-07-16  
(Until July 1996 this was a valid descriptor.)  
USE beryllium

**BERYLLIUM BORIDES**

- \*BT1 beryllium compounds
- \*BT1 borides

**BERYLLIUM BROMIDES**

- \*BT1 beryllium halides
- \*BT1 bromides

**BERYLLIUM CARBIDES**

- \*BT1 beryllium compounds
- \*BT1 carbides

**BERYLLIUM CARBONATES**

- \*BT1 beryllium compounds
- \*BT1 carbonates

**BERYLLIUM CHLORIDES**

- \*BT1 beryllium halides
- \*BT1 chlorides

**BERYLLIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**BERYLLIUM COMPOUNDS**

1997-06-17  
SF gadolinite  
BT1 alkaline earth metal compounds  
NT1 beryllium borides  
NT1 beryllium carbides  
NT1 beryllium carbonates  
NT1 beryllium halides  
NT2 beryllium bromides  
NT2 beryllium chlorides  
NT2 beryllium fluorides  
NT2 beryllium iodides  
NT1 beryllium hydrides  
NT1 beryllium hydroxides  
NT1 beryllium nitrates  
NT1 beryllium nitrides  
NT1 beryllium oxides  
NT1 beryllium phosphates  
NT1 beryllium phosphides  
NT1 beryllium selenides  
NT1 beryllium silicates

- NT1 beryllium sulfates
- NT1 beryllium sulfides
- NT1 beryllium tellurides
- RT berylliosis
- RT moderators

**BERYLLIUM FLUORIDES**

- \*BT1 beryllium halides
- \*BT1 fluorides
- RT flibe

**BERYLLIUM HALIDES**

2008-02-07

- \*BT1 beryllium compounds
- \*BT1 halides
- NT1 beryllium bromides
- NT1 beryllium chlorides
- NT1 beryllium fluorides
- NT1 beryllium iodides

**BERYLLIUM HYDRIDES**

- \*BT1 beryllium compounds
- \*BT1 hydrides

**BERYLLIUM HYDROXIDES**

- \*BT1 beryllium compounds
- \*BT1 hydroxides

**BERYLLIUM IODIDES**

1996-07-16

(From July 1996 to February 2008  
BERYLLIUM COMPOUNDS + IODIDES  
was used for this concept.)  
\*BT1 beryllium halides  
\*BT1 iodides

**BERYLLIUM IONS**

- \*BT1 ions

**BERYLLIUM ISOTOPES**

1999-02-01

- \*BT1 alkaline earth isotopes
- NT1 beryllium 10
- NT1 beryllium 11
- NT1 beryllium 12
- NT1 beryllium 13
- NT1 beryllium 14
- NT1 beryllium 15
- NT1 beryllium 16
- NT1 beryllium 5
- NT1 beryllium 6
- NT1 beryllium 7
- NT1 beryllium 8
- NT1 beryllium 9

**BERYLLIUM MODERATED REACTORS**

UF in-core thermionic reactor  
UF itr reactor  
\*BT1 metal moderated reactors  
NT1 agata reactor  
NT1 br-02 reactor  
NT1 ebor reactor  
NT1 ewg-1 reactor  
NT1 maria reactor  
NT1 nuclear furnace reactor

**beryllium moderators**

USE beryllium

**BERYLLIUM NITRATES**

- \*BT1 beryllium compounds
- \*BT1 nitrates

**BERYLLIUM NITRIDES**

- \*BT1 beryllium compounds
- \*BT1 nitrides

**BERYLLIUM OXIDES**

UF beryllia  
\*BT1 beryllium compounds  
\*BT1 oxides  
RT chrysoberyl

*RT* moderators

### BERYLLIUM PHOSPHATES

\*BT1 beryllium compounds  
\*BT1 phosphates

### BERYLLIUM PHOSPHIDES

*INIS: 1996-07-16; ETDE: 1977-06-02*  
(From July 1996 to November 2007  
BERYLLIUM COMPOUNDS +  
PHOSPHIDES was used for this concept.)  
\*BT1 beryllium compounds  
\*BT1 phosphides

### BERYLLIUM SELENIDES

*INIS: 2000-04-12; ETDE: 1977-05-07*  
\*BT1 beryllium compounds  
\*BT1 selenides

### BERYLLIUM SILICATES

\*BT1 beryllium compounds  
\*BT1 silicates  
*RT* beryl  
*RT* helvite  
*RT* silicate minerals

### BERYLLIUM SULFATES

\*BT1 beryllium compounds  
\*BT1 sulfates

### BERYLLIUM SULFIDES

*1996-07-16*  
(From July 1996 to November 2007  
BERYLLIUM COMPOUNDS + SULFIDES  
was used for this concept.)  
\*BT1 beryllium compounds  
\*BT1 sulfides

### BERYLLIUM TELLURIDES

*INIS: 1991-09-16; ETDE: 1977-05-07*  
\*BT1 beryllium compounds  
\*BT1 tellurides

### beryllon

*1996-06-26*  
(Until June 1996 this was a valid descriptor.)  
USE arsonic acids  
USE azo dyes  
USE dicarboxylic acids  
USE naphthols  
USE sulfonic acids

### BESM COMPUTERS

BT1 computers

### bessel differential equation

USE fokker-planck equation

### BESSEL FUNCTIONS

*UF* hankel functions  
*UF* neumann functions  
BT1 functions  
*RT* neumann series

### BESSY STORAGE RING

*INIS: 1985-04-22; ETDE: 1985-05-07*  
*Berliner Elektronenspeicherring-Gesellschaft*  
*fuer Synchrotronstrahlung.*  
BT1 storage rings

### BEST AVAILABLE TECHNOLOGY

*2013-08-28*  
*RT* appropriate technology  
*RT* technology assessment  
*RT* technology utilization

### BETA-AMINOETHYL

**ISOTHIOUREA**  
*INIS: 2005-01-31; ETDE: 2005-02-01*  
(Prior to January 2005 AET was used for this  
concept.)  
*UF* aet (aminoethylthiopseudourea)  
*UF* aminoethylisothiuronium bromide

*UF* aminoethylthiopseudourea  
\*BT1 amines  
\*BT1 radioprotective substances  
\*BT1 thioureas

### beta backscattering gages

USE radiometric gages

### beta beams (electrons)

USE electron beams

### beta beams (positrons)

USE positron beams

### BETA DECAY

*1996-07-08*  
*Neutron and nuclear beta decay.*  
*SF* way-wigner formula  
\*BT1 nuclear decay  
NT1 beta-minus decay  
NT2 double beta decay  
NT3 neutrinoless double beta decay  
NT1 beta-plus decay  
NT1 electron capture decay  
NT2 k capture  
NT2 l capture  
NT2 m capture  
*RT* beta decay radioisotopes  
*RT* beta particles  
*RT* beta spectra  
*RT* fermi plot  
*RT* feynman-gell-mann theory  
*RT* fierz interference  
*RT* ft value  
*RT* gamow-teller rules  
*RT* internal ionization  
*RT* knipp-uhlenbeck theory  
*RT* lee-yang theory  
*RT* semileptonic decay  
*RT* two-component neutrino theory

### BETA DECAY RADIOISOTOPES

*1997-02-07*  
\*BT1 radioisotopes  
NT1 beta-minus decay radioisotopes  
NT2 actinium 226  
NT2 actinium 227  
NT2 actinium 228  
NT2 actinium 229  
NT2 actinium 230  
NT2 actinium 231  
NT2 actinium 232  
NT2 actinium 233  
NT2 actinium 234  
NT2 actinium 235  
NT2 actinium 236  
NT2 aluminium 28  
NT2 aluminium 29  
NT2 aluminium 30  
NT2 aluminium 31  
NT2 aluminium 32  
NT2 aluminium 34  
NT2 aluminium 36  
NT2 aluminium 37  
NT2 aluminium 40  
NT2 aluminium 41  
NT2 aluminium 42  
NT2 americium 242  
NT2 americium 244  
NT2 americium 245  
NT2 americium 246  
NT2 americium 247  
NT2 americium 248  
NT2 americium 249  
NT2 antimony 122  
NT2 antimony 124  
NT2 antimony 125  
NT2 antimony 126  
NT2 antimony 127  
NT2 antimony 128  
NT2 antimony 129  
NT2 antimony 130  
NT2 antimony 131  
NT2 antimony 132  
NT2 antimony 133  
NT2 antimony 134  
NT2 antimony 135  
NT2 antimony 136  
NT2 antimony 137  
NT2 antimony 138  
NT2 antimony 139  
NT2 argon 39  
NT2 argon 41  
NT2 argon 42  
NT2 argon 43  
NT2 argon 44  
NT2 argon 45  
NT2 argon 46  
NT2 argon 48  
NT2 argon 52  
NT2 argon 53  
NT2 arsenic 74  
NT2 arsenic 76  
NT2 arsenic 77  
NT2 arsenic 78  
NT2 arsenic 79  
NT2 arsenic 80  
NT2 arsenic 81  
NT2 arsenic 82  
NT2 arsenic 83  
NT2 arsenic 84  
NT2 arsenic 85  
NT2 arsenic 86  
NT2 arsenic 87  
NT2 arsenic 88  
NT2 arsenic 89  
NT2 arsenic 90  
NT2 arsenic 91  
NT2 arsenic 92  
NT2 astatine 217  
NT2 astatine 218  
NT2 astatine 219  
NT2 astatine 220  
NT2 astatine 221  
NT2 astatine 222  
NT2 astatine 223  
NT2 barium 139  
NT2 barium 140  
NT2 barium 141  
NT2 barium 142  
NT2 barium 143  
NT2 barium 144  
NT2 barium 145  
NT2 barium 146  
NT2 barium 147  
NT2 barium 148  
NT2 barium 149  
NT2 barium 150  
NT2 barium 151  
NT2 barium 152  
NT2 barium 153  
NT2 berkelium 248  
NT2 berkelium 249  
NT2 berkelium 250  
NT2 berkelium 251  
NT2 berkelium 252  
NT2 berkelium 253  
NT2 berkelium 254  
NT2 beryllium 10  
NT2 beryllium 11  
NT2 beryllium 12  
NT2 beryllium 14  
NT2 bismuth 210  
NT2 bismuth 211  
NT2 bismuth 212  
NT2 bismuth 213  
NT2 bismuth 214  
NT2 bismuth 215  
NT2 bismuth 216

NT2 bismuth 217  
NT2 bismuth 218  
NT2 boron 12  
NT2 boron 13  
NT2 boron 14  
NT2 boron 15  
NT2 boron 16  
NT2 boron 17  
NT2 boron 19  
NT2 bromine 80  
NT2 bromine 82  
NT2 bromine 83  
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NT2 bromine 96  
NT2 bromine 97  
NT2 cadmium 113  
NT2 cadmium 115  
NT2 cadmium 117  
NT2 cadmium 118  
NT2 cadmium 119  
NT2 cadmium 120  
NT2 cadmium 121  
NT2 cadmium 122  
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NT2 cadmium 127  
NT2 cadmium 128  
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NT2 cadmium 130  
NT2 cadmium 131  
NT2 cadmium 132  
NT2 calcium 45  
NT2 calcium 47  
NT2 calcium 49  
NT2 calcium 50  
NT2 calcium 51  
NT2 calcium 52  
NT2 calcium 53  
NT2 calcium 54  
NT2 calcium 55  
NT2 calcium 56  
NT2 calcium 57  
NT2 calcium 58  
NT2 calcium 60  
NT2 californium 253  
NT2 californium 255  
NT2 carbon 14  
NT2 carbon 15  
NT2 carbon 16  
NT2 carbon 17  
NT2 carbon 18  
NT2 cerium 141  
NT2 cerium 143  
NT2 cerium 144  
NT2 cerium 145  
NT2 cerium 146  
NT2 cerium 147  
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NT2 cerium 155  
NT2 cerium 156

NT2 cerium 157  
NT2 cesium 130  
NT2 cesium 132  
NT2 cesium 134  
NT2 cesium 135  
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NT2 cesium 137  
NT2 cesium 138  
NT2 cesium 139  
NT2 cesium 140  
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NT2 cesium 145  
NT2 cesium 146  
NT2 cesium 147  
NT2 cesium 148  
NT2 cesium 149  
NT2 cesium 150  
NT2 cesium 151  
NT2 chlorine 36  
NT2 chlorine 38  
NT2 chlorine 39  
NT2 chlorine 40  
NT2 chlorine 41  
NT2 chlorine 50  
NT2 chromium 55  
NT2 chromium 56  
NT2 chromium 57  
NT2 chromium 58  
NT2 chromium 59  
NT2 chromium 60  
NT2 chromium 62  
NT2 chromium 63  
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NT2 chromium 66  
NT2 chromium 67  
NT2 chromium 68  
NT2 cobalt 60  
NT2 cobalt 61  
NT2 cobalt 62  
NT2 cobalt 63  
NT2 cobalt 64  
NT2 cobalt 65  
NT2 cobalt 66  
NT2 cobalt 67  
NT2 cobalt 71  
NT2 cobalt 72  
NT2 cobalt 73  
NT2 cobalt 74  
NT2 cobalt 75  
NT2 copper 64  
NT2 copper 66  
NT2 copper 67  
NT2 copper 68  
NT2 copper 69  
NT2 copper 70  
NT2 copper 71  
NT2 copper 72  
NT2 copper 73  
NT2 copper 74  
NT2 copper 75  
NT2 copper 76  
NT2 copper 77  
NT2 copper 78  
NT2 copper 79  
NT2 copper 80  
NT2 curium 249  
NT2 curium 250  
NT2 curium 251  
NT2 dysprosium 165  
NT2 dysprosium 166  
NT2 dysprosium 167  
NT2 dysprosium 168  
NT2 dysprosium 169  
NT2 dysprosium 170  
NT2 dysprosium 171

NT2 dysprosium 172  
NT2 dysprosium 173  
NT2 einsteinium 254  
NT2 einsteinium 255  
NT2 einsteinium 256  
NT2 einsteinium 257  
NT2 erbium 169  
NT2 erbium 171  
NT2 erbium 172  
NT2 erbium 173  
NT2 erbium 174  
NT2 erbium 175  
NT2 erbium 176  
NT2 erbium 177  
NT2 europium 150  
NT2 europium 152  
NT2 europium 154  
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NT2 europium 164  
NT2 europium 165  
NT2 europium 166  
NT2 europium 167  
NT2 fluorine 20  
NT2 fluorine 21  
NT2 fluorine 22  
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NT2 fluorine 24  
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NT2 fluorine 26  
NT2 fluorine 27  
NT2 francium 220  
NT2 francium 222  
NT2 francium 223  
NT2 francium 224  
NT2 francium 225  
NT2 francium 226  
NT2 francium 227  
NT2 francium 228  
NT2 francium 229  
NT2 francium 230  
NT2 francium 231  
NT2 gadolinium 159  
NT2 gadolinium 161  
NT2 gadolinium 162  
NT2 gadolinium 163  
NT2 gadolinium 164  
NT2 gadolinium 165  
NT2 gadolinium 166  
NT2 gadolinium 168  
NT2 gallium 70  
NT2 gallium 72  
NT2 gallium 73  
NT2 gallium 74  
NT2 gallium 75  
NT2 gallium 76  
NT2 gallium 77  
NT2 gallium 78  
NT2 gallium 79  
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NT2 gallium 83  
NT2 gallium 84  
NT2 gallium 85  
NT2 gallium 86  
NT2 germanium 75  
NT2 germanium 77  
NT2 germanium 78  
NT2 germanium 79  
NT2 germanium 80  
NT2 germanium 81

NT2	germanium 82	NT2	iridium 194	NT2	manganese 56
NT2	germanium 83	NT2	iridium 195	NT2	manganese 57
NT2	germanium 84	NT2	iridium 196	NT2	manganese 58
NT2	germanium 85	NT2	iridium 197	NT2	manganese 59
NT2	germanium 86	NT2	iridium 198	NT2	manganese 60
NT2	germanium 87	NT2	iridium 199	NT2	manganese 61
NT2	germanium 88	NT2	iridium 202	NT2	manganese 62
NT2	germanium 89	NT2	iron 59	NT2	manganese 63
NT2	gold 196	NT2	iron 60	NT2	manganese 66
NT2	gold 198	NT2	iron 61	NT2	manganese 67
NT2	gold 199	NT2	iron 62	NT2	manganese 68
NT2	gold 200	NT2	iron 63	NT2	manganese 69
NT2	gold 201	NT2	iron 64	NT2	manganese 70
NT2	gold 202	NT2	iron 69	NT2	mercury 203
NT2	gold 203	NT2	iron 70	NT2	mercury 205
NT2	gold 204	NT2	iron 71	NT2	mercury 206
NT2	gold 205	NT2	iron 72	NT2	molybdenum 101
NT2	hafnium 181	NT2	krypton 100	NT2	molybdenum 102
NT2	hafnium 182	NT2	krypton 85	NT2	molybdenum 103
NT2	hafnium 183	NT2	krypton 87	NT2	molybdenum 104
NT2	hafnium 184	NT2	krypton 88	NT2	molybdenum 105
NT2	hafnium 187	NT2	krypton 89	NT2	molybdenum 106
NT2	hafnium 188	NT2	krypton 90	NT2	molybdenum 107
NT2	helium 6	NT2	krypton 91	NT2	molybdenum 108
NT2	helium 7	NT2	krypton 92	NT2	molybdenum 109
NT2	helium 8	NT2	krypton 93	NT2	molybdenum 110
NT2	holmium 164	NT2	krypton 94	NT2	molybdenum 111
NT2	holmium 166	NT2	krypton 95	NT2	molybdenum 112
NT2	holmium 167	NT2	krypton 97	NT2	molybdenum 113
NT2	holmium 168	NT2	krypton 99	NT2	molybdenum 114
NT2	holmium 169	NT2	lanthanum 138	NT2	molybdenum 115
NT2	holmium 170	NT2	lanthanum 140	NT2	molybdenum 99
NT2	holmium 171	NT2	lanthanum 141	NT2	neodymium 147
NT2	holmium 172	NT2	lanthanum 142	NT2	neodymium 149
NT2	holmium 173	NT2	lanthanum 143	NT2	neodymium 151
NT2	holmium 174	NT2	lanthanum 144	NT2	neodymium 152
NT2	holmium 175	NT2	lanthanum 145	NT2	neodymium 153
NT2	indium 112	NT2	lanthanum 146	NT2	neodymium 154
NT2	indium 114	NT2	lanthanum 147	NT2	neodymium 155
NT2	indium 115	NT2	lanthanum 148	NT2	neodymium 156
NT2	indium 116	NT2	lanthanum 149	NT2	neodymium 157
NT2	indium 117	NT2	lanthanum 150	NT2	neodymium 158
NT2	indium 118	NT2	lanthanum 151	NT2	neodymium 159
NT2	indium 119	NT2	lanthanum 152	NT2	neodymium 160
NT2	indium 120	NT2	lanthanum 153	NT2	neodymium 161
NT2	indium 121	NT2	lanthanum 154	NT2	neon 23
NT2	indium 122	NT2	lanthanum 155	NT2	neon 24
NT2	indium 123	NT2	lead 209	NT2	neon 25
NT2	indium 124	NT2	lead 210	NT2	neon 26
NT2	indium 125	NT2	lead 211	NT2	neon 27
NT2	indium 126	NT2	lead 212	NT2	neon 29
NT2	indium 127	NT2	lead 213	NT2	neon 30
NT2	indium 128	NT2	lead 214	NT2	neon 31
NT2	indium 129	NT2	lithium 11	NT2	neon 33
NT2	indium 130	NT2	lithium 13	NT2	neon 34
NT2	indium 131	NT2	lithium 8	NT2	neptunium 236
NT2	indium 132	NT2	lithium 9	NT2	neptunium 238
NT2	indium 133	NT2	lutetium 176	NT2	neptunium 239
NT2	indium 134	NT2	lutetium 177	NT2	neptunium 240
NT2	indium 135	NT2	lutetium 178	NT2	neptunium 241
NT2	iodine 126	NT2	lutetium 179	NT2	neptunium 242
NT2	iodine 128	NT2	lutetium 180	NT2	neptunium 243
NT2	iodine 129	NT2	lutetium 181	NT2	neptunium 244
NT2	iodine 130	NT2	lutetium 182	NT2	neutron-rich isotopes
NT2	iodine 131	NT2	lutetium 183	NT2	nickel 63
NT2	iodine 132	NT2	lutetium 184	NT2	nickel 65
NT2	iodine 133	NT2	lutetium 187	NT2	nickel 66
NT2	iodine 134	NT2	magnesium 27	NT2	nickel 67
NT2	iodine 135	NT2	magnesium 28	NT2	nickel 69
NT2	iodine 136	NT2	magnesium 29	NT2	nickel 70
NT2	iodine 137	NT2	magnesium 30	NT2	nickel 71
NT2	iodine 138	NT2	magnesium 31	NT2	nickel 72
NT2	iodine 139	NT2	magnesium 32	NT2	nickel 73
NT2	iodine 140	NT2	magnesium 33	NT2	nickel 74
NT2	iodine 141	NT2	magnesium 34	NT2	nickel 75
NT2	iodine 142	NT2	magnesium 37	NT2	nickel 76
NT2	iodine 143	NT2	magnesium 38	NT2	nickel 77
NT2	iodine 144	NT2	magnesium 39	NT2	nickel 80
NT2	iridium 192	NT2	magnesium 40	NT2	niobium 100

NT2 niobium 101	NT2 potassium 42	NT2 rhenium 189
NT2 niobium 102	NT2 potassium 43	NT2 rhenium 190
NT2 niobium 103	NT2 potassium 44	NT2 rhenium 191
NT2 niobium 104	NT2 potassium 45	NT2 rhenium 192
NT2 niobium 105	NT2 potassium 46	NT2 rhenium 193
NT2 niobium 106	NT2 potassium 47	NT2 rhenium 194
NT2 niobium 107	NT2 potassium 48	NT2 rhenium 195
NT2 niobium 108	NT2 potassium 49	NT2 rhenium 196
NT2 niobium 109	NT2 potassium 50	NT2 rhodium 102
NT2 niobium 110	NT2 potassium 51	NT2 rhodium 104
NT2 niobium 111	NT2 potassium 52	NT2 rhodium 105
NT2 niobium 112	NT2 potassium 53	NT2 rhodium 106
NT2 niobium 113	NT2 potassium 54	NT2 rhodium 107
NT2 niobium 94	NT2 potassium 55	NT2 rhodium 108
NT2 niobium 95	NT2 potassium 56	NT2 rhodium 109
NT2 niobium 96	NT2 praseodymium 142	NT2 rhodium 110
NT2 niobium 97	NT2 praseodymium 143	NT2 rhodium 111
NT2 niobium 98	NT2 praseodymium 144	NT2 rhodium 112
NT2 niobium 99	NT2 praseodymium 145	NT2 rhodium 113
NT2 nitrogen 16	NT2 praseodymium 146	NT2 rhodium 114
NT2 nitrogen 17	NT2 praseodymium 147	NT2 rhodium 115
NT2 nitrogen 18	NT2 praseodymium 148	NT2 rhodium 116
NT2 nitrogen 19	NT2 praseodymium 149	NT2 rhodium 117
NT2 nitrogen 20	NT2 praseodymium 150	NT2 rhodium 118
NT2 nitrogen 22	NT2 praseodymium 151	NT2 rhodium 119
NT2 nitrogen 23	NT2 praseodymium 152	NT2 rhodium 120
NT2 osmium 191	NT2 praseodymium 153	NT2 rhodium 121
NT2 osmium 193	NT2 praseodymium 154	NT2 rhodium 122
NT2 osmium 194	NT2 praseodymium 155	NT2 rubidium 100
NT2 osmium 195	NT2 praseodymium 156	NT2 rubidium 84
NT2 osmium 196	NT2 praseodymium 157	NT2 rubidium 86
NT2 osmium 197	NT2 praseodymium 158	NT2 rubidium 87
NT2 osmium 199	NT2 praseodymium 159	NT2 rubidium 88
NT2 osmium 200	NT2 promethium 146	NT2 rubidium 89
NT2 oxygen 19	NT2 promethium 147	NT2 rubidium 90
NT2 oxygen 20	NT2 promethium 148	NT2 rubidium 91
NT2 oxygen 21	NT2 promethium 149	NT2 rubidium 92
NT2 oxygen 22	NT2 promethium 150	NT2 rubidium 93
NT2 oxygen 23	NT2 promethium 151	NT2 rubidium 94
NT2 oxygen 24	NT2 promethium 152	NT2 rubidium 95
NT2 palladium 107	NT2 promethium 153	NT2 rubidium 96
NT2 palladium 109	NT2 promethium 154	NT2 rubidium 97
NT2 palladium 111	NT2 promethium 155	NT2 rubidium 98
NT2 palladium 112	NT2 promethium 156	NT2 rubidium 99
NT2 palladium 113	NT2 promethium 157	NT2 ruthenium 103
NT2 palladium 114	NT2 promethium 158	NT2 ruthenium 105
NT2 palladium 115	NT2 promethium 159	NT2 ruthenium 106
NT2 palladium 116	NT2 promethium 160	NT2 ruthenium 107
NT2 palladium 117	NT2 promethium 161	NT2 ruthenium 108
NT2 palladium 118	NT2 promethium 162	NT2 ruthenium 109
NT2 palladium 119	NT2 promethium 163	NT2 ruthenium 110
NT2 palladium 120	NT2 protactinium 230	NT2 ruthenium 111
NT2 palladium 121	NT2 protactinium 232	NT2 ruthenium 112
NT2 palladium 122	NT2 protactinium 233	NT2 ruthenium 113
NT2 palladium 123	NT2 protactinium 234	NT2 ruthenium 114
NT2 palladium 124	NT2 protactinium 235	NT2 ruthenium 115
NT2 phosphorus 32	NT2 protactinium 236	NT2 ruthenium 116
NT2 phosphorus 33	NT2 protactinium 237	NT2 ruthenium 117
NT2 phosphorus 34	NT2 protactinium 238	NT2 ruthenium 118
NT2 phosphorus 35	NT2 protactinium 239	NT2 ruthenium 119
NT2 phosphorus 36	NT2 protactinium 240	NT2 ruthenium 120
NT2 phosphorus 37	NT2 radium 225	NT2 samarium 151
NT2 phosphorus 38	NT2 radium 227	NT2 samarium 153
NT2 phosphorus 40	NT2 radium 228	NT2 samarium 155
NT2 phosphorus 41	NT2 radium 229	NT2 samarium 156
NT2 phosphorus 42	NT2 radium 230	NT2 samarium 157
NT2 platinum 197	NT2 radium 231	NT2 samarium 158
NT2 platinum 199	NT2 radium 232	NT2 samarium 159
NT2 platinum 200	NT2 radon 221	NT2 samarium 160
NT2 platinum 201	NT2 radon 223	NT2 samarium 161
NT2 plutonium 241	NT2 radon 224	NT2 samarium 162
NT2 plutonium 243	NT2 radon 225	NT2 samarium 163
NT2 plutonium 245	NT2 radon 226	NT2 samarium 164
NT2 plutonium 246	NT2 radon 227	NT2 samarium 165
NT2 polonium 215	NT2 radon 228	NT2 scandium 46
NT2 polonium 218	NT2 radon 229	NT2 scandium 47
NT2 polonium 219	NT2 rhenium 186	NT2 scandium 48
NT2 polonium 220	NT2 rhenium 187	NT2 scandium 49
NT2 potassium 40	NT2 rhenium 188	NT2 scandium 50

NT2	scandium 51	NT2	strontium 97	NT2	thorium 235
NT2	scandium 52	NT2	strontium 98	NT2	thorium 236
NT2	scandium 53	NT2	strontium 99	NT2	thorium 237
NT2	scandium 56	NT2	sulfur 35	NT2	thulium 168
NT2	scandium 57	NT2	sulfur 37	NT2	thulium 170
NT2	scandium 58	NT2	sulfur 38	NT2	thulium 171
NT2	scandium 59	NT2	sulfur 39	NT2	thulium 172
NT2	scandium 60	NT2	sulfur 40	NT2	thulium 173
NT2	scandium 61	NT2	sulfur 43	NT2	thulium 174
NT2	selenium 79	NT2	tantalum 180	NT2	thulium 175
NT2	selenium 81	NT2	tantalum 182	NT2	thulium 176
NT2	selenium 83	NT2	tantalum 183	NT2	thulium 177
NT2	selenium 84	NT2	tantalum 184	NT2	thulium 178
NT2	selenium 85	NT2	tantalum 185	NT2	thulium 179
NT2	selenium 86	NT2	tantalum 186	NT2	tin 121
NT2	selenium 87	NT2	tantalum 187	NT2	tin 123
NT2	selenium 88	NT2	tantalum 188	NT2	tin 125
NT2	selenium 89	NT2	tantalum 189	NT2	tin 126
NT2	selenium 91	NT2	tantalum 190	NT2	tin 127
NT2	silicon 31	NT2	technetium 100	NT2	tin 128
NT2	silicon 32	NT2	technetium 101	NT2	tin 129
NT2	silicon 33	NT2	technetium 102	NT2	tin 130
NT2	silicon 34	NT2	technetium 103	NT2	tin 131
NT2	silicon 35	NT2	technetium 104	NT2	tin 132
NT2	silicon 36	NT2	technetium 105	NT2	tin 133
NT2	silicon 37	NT2	technetium 106	NT2	tin 134
NT2	silicon 38	NT2	technetium 107	NT2	tin 135
NT2	silicon 39	NT2	technetium 108	NT2	tin 136
NT2	silicon 43	NT2	technetium 109	NT2	tin 137
NT2	silicon 44	NT2	technetium 110	NT2	titanium 51
NT2	silver 108	NT2	technetium 111	NT2	titanium 52
NT2	silver 110	NT2	technetium 112	NT2	titanium 53
NT2	silver 111	NT2	technetium 113	NT2	titanium 54
NT2	silver 112	NT2	technetium 114	NT2	titanium 55
NT2	silver 113	NT2	technetium 115	NT2	titanium 56
NT2	silver 114	NT2	technetium 116	NT2	titanium 58
NT2	silver 115	NT2	technetium 117	NT2	titanium 59
NT2	silver 116	NT2	technetium 118	NT2	titanium 60
NT2	silver 117	NT2	technetium 98	NT2	titanium 61
NT2	silver 118	NT2	technetium 99	NT2	titanium 62
NT2	silver 119	NT2	tellurium 127	NT2	titanium 63
NT2	silver 120	NT2	tellurium 129	NT2	tritium
NT2	silver 121	NT2	tellurium 131	NT2	tungsten 185
NT2	silver 122	NT2	tellurium 132	NT2	tungsten 187
NT2	silver 123	NT2	tellurium 133	NT2	tungsten 188
NT2	silver 124	NT2	tellurium 134	NT2	tungsten 189
NT2	silver 125	NT2	tellurium 135	NT2	tungsten 191
NT2	silver 126	NT2	tellurium 136	NT2	uranium 237
NT2	silver 127	NT2	tellurium 137	NT2	uranium 239
NT2	silver 128	NT2	tellurium 138	NT2	uranium 240
NT2	silver 129	NT2	tellurium 139	NT2	uranium 241
NT2	silver 130	NT2	tellurium 140	NT2	uranium 242
NT2	sodium 24	NT2	tellurium 141	NT2	vanadium 50
NT2	sodium 25	NT2	tellurium 142	NT2	vanadium 52
NT2	sodium 26	NT2	terbium 156	NT2	vanadium 53
NT2	sodium 27	NT2	terbium 158	NT2	vanadium 54
NT2	sodium 28	NT2	terbium 160	NT2	vanadium 55
NT2	sodium 29	NT2	terbium 161	NT2	vanadium 56
NT2	sodium 30	NT2	terbium 162	NT2	vanadium 57
NT2	sodium 31	NT2	terbium 163	NT2	vanadium 58
NT2	sodium 32	NT2	terbium 164	NT2	vanadium 61
NT2	sodium 33	NT2	terbium 165	NT2	vanadium 62
NT2	sodium 34	NT2	terbium 166	NT2	vanadium 63
NT2	sodium 35	NT2	terbium 167	NT2	vanadium 64
NT2	sodium 37	NT2	terbium 168	NT2	vanadium 65
NT2	strontium 100	NT2	terbium 169	NT2	vanadium 66
NT2	strontium 101	NT2	terbium 170	NT2	xenon 133
NT2	strontium 102	NT2	terbium 171	NT2	xenon 135
NT2	strontium 103	NT2	thallium 204	NT2	xenon 137
NT2	strontium 104	NT2	thallium 206	NT2	xenon 138
NT2	strontium 105	NT2	thallium 207	NT2	xenon 139
NT2	strontium 89	NT2	thallium 208	NT2	xenon 140
NT2	strontium 90	NT2	thallium 209	NT2	xenon 141
NT2	strontium 91	NT2	thallium 210	NT2	xenon 142
NT2	strontium 92	NT2	thallium 211	NT2	xenon 143
NT2	strontium 93	NT2	thallium 212	NT2	xenon 144
NT2	strontium 94	NT2	thorium 231	NT2	xenon 145
NT2	strontium 95	NT2	thorium 233	NT2	xenon 147
NT2	strontium 96	NT2	thorium 234	NT2	ytterbium 175



NT2	ytterbium 177	NT2	argon 34	NT2	cesium 116
NT2	ytterbium 178	NT2	argon 35	NT2	cesium 117
NT2	ytterbium 179	NT2	arsenic 66	NT2	cesium 118
NT2	ytterbium 180	NT2	arsenic 67	NT2	cesium 119
NT2	ytterbium 181	NT2	arsenic 68	NT2	cesium 120
NT2	yttrium 100	NT2	arsenic 69	NT2	cesium 121
NT2	yttrium 101	NT2	arsenic 70	NT2	cesium 122
NT2	yttrium 102	NT2	arsenic 71	NT2	cesium 123
NT2	yttrium 103	NT2	arsenic 72	NT2	cesium 124
NT2	yttrium 104	NT2	arsenic 74	NT2	cesium 125
NT2	yttrium 105	NT2	astatine 205	NT2	cesium 126
NT2	yttrium 106	NT2	astatine 206	NT2	cesium 127
NT2	yttrium 107	NT2	barium 114	NT2	cesium 128
NT2	yttrium 108	NT2	barium 115	NT2	cesium 129
NT2	yttrium 90	NT2	barium 116	NT2	cesium 130
NT2	yttrium 91	NT2	barium 117	NT2	cesium 132
NT2	yttrium 92	NT2	barium 118	NT2	chlorine 31
NT2	yttrium 93	NT2	barium 119	NT2	chlorine 32
NT2	yttrium 94	NT2	barium 120	NT2	chlorine 33
NT2	yttrium 95	NT2	barium 121	NT2	chlorine 34
NT2	yttrium 96	NT2	barium 122	NT2	chlorine 36
NT2	yttrium 97	NT2	barium 123	NT2	chromium 42
NT2	yttrium 98	NT2	barium 124	NT2	chromium 45
NT2	yttrium 99	NT2	barium 125	NT2	chromium 46
NT2	zinc 69	NT2	barium 126	NT2	chromium 47
NT2	zinc 71	NT2	barium 127	NT2	chromium 49
NT2	zinc 72	NT2	barium 129	NT2	cobalt 52
NT2	zinc 73	NT2	berkelium 236	NT2	cobalt 53
NT2	zinc 74	NT2	berkelium 238	NT2	cobalt 54
NT2	zinc 75	NT2	bismuth 194	NT2	cobalt 55
NT2	zinc 76	NT2	bismuth 197	NT2	cobalt 56
NT2	zinc 77	NT2	bismuth 200	NT2	cobalt 58
NT2	zinc 78	NT2	bismuth 202	NT2	copper 56
NT2	zinc 79	NT2	bismuth 203	NT2	copper 57
NT2	zinc 80	NT2	bismuth 205	NT2	copper 58
NT2	zinc 81	NT2	bismuth 206	NT2	copper 59
NT2	zinc 82	NT2	bismuth 207	NT2	copper 60
NT2	zinc 83	NT2	boron 8	NT2	copper 61
NT2	zirconium 100	NT2	bromine 69	NT2	copper 62
NT2	zirconium 101	NT2	bromine 70	NT2	copper 64
NT2	zirconium 102	NT2	bromine 71	NT2	curium 232
NT2	zirconium 103	NT2	bromine 72	NT2	dysprosium 140
NT2	zirconium 104	NT2	bromine 73	NT2	dysprosium 145
NT2	zirconium 105	NT2	bromine 74	NT2	dysprosium 146
NT2	zirconium 106	NT2	bromine 75	NT2	dysprosium 147
NT2	zirconium 107	NT2	bromine 76	NT2	dysprosium 148
NT2	zirconium 108	NT2	bromine 77	NT2	dysprosium 149
NT2	zirconium 109	NT2	bromine 78	NT2	dysprosium 150
NT2	zirconium 110	NT2	bromine 80	NT2	dysprosium 151
NT2	zirconium 93	NT2	cadmium 100	NT2	dysprosium 152
NT2	zirconium 95	NT2	cadmium 101	NT2	dysprosium 153
NT2	zirconium 97	NT2	cadmium 102	NT2	dysprosium 155
NT2	zirconium 98	NT2	cadmium 103	NT2	dysprosium 157
NT2	zirconium 99	NT2	cadmium 104	NT2	erbium 145
NT1	beta-plus decay radioisotopes	NT2	cadmium 105	NT2	erbium 146
NT2	aluminium 22	NT2	cadmium 107	NT2	erbium 147
NT2	aluminium 23	NT2	cadmium 97	NT2	erbium 148
NT2	aluminium 24	NT2	cadmium 98	NT2	erbium 149
NT2	aluminium 25	NT2	cadmium 99	NT2	erbium 150
NT2	aluminium 26	NT2	calcium 36	NT2	erbium 151
NT2	americium 235	NT2	calcium 37	NT2	erbium 152
NT2	americium 236	NT2	calcium 38	NT2	erbium 153
NT2	antimony 104	NT2	calcium 39	NT2	erbium 154
NT2	antimony 105	NT2	carbon 10	NT2	erbium 155
NT2	antimony 108	NT2	carbon 11	NT2	erbium 156
NT2	antimony 110	NT2	carbon 9	NT2	erbium 157
NT2	antimony 111	NT2	cerium 121	NT2	erbium 158
NT2	antimony 112	NT2	cerium 125	NT2	erbium 159
NT2	antimony 113	NT2	cerium 127	NT2	erbium 161
NT2	antimony 114	NT2	cerium 128	NT2	erbium 163
NT2	antimony 115	NT2	cerium 129	NT2	europium 132
NT2	antimony 116	NT2	cerium 130	NT2	europium 134
NT2	antimony 117	NT2	cerium 131	NT2	europium 135
NT2	antimony 118	NT2	cerium 132	NT2	europium 136
NT2	antimony 120	NT2	cerium 133	NT2	europium 138
NT2	antimony 122	NT2	cerium 135	NT2	europium 139
NT2	argon 31	NT2	cerium 137	NT2	europium 140
NT2	argon 32	NT2	cesium 114	NT2	europium 141
NT2	argon 33	NT2	cesium 115	NT2	europium 142

NT2 europium 143	NT2 iodine 110	NT2 magnesium 21
NT2 europium 144	NT2 iodine 111	NT2 magnesium 22
NT2 europium 145	NT2 iodine 112	NT2 magnesium 23
NT2 europium 146	NT2 iodine 113	NT2 manganese 48
NT2 europium 147	NT2 iodine 114	NT2 manganese 49
NT2 europium 148	NT2 iodine 115	NT2 manganese 50
NT2 europium 150	NT2 iodine 116	NT2 manganese 51
NT2 europium 152	NT2 iodine 117	NT2 manganese 52
NT2 fluorine 17	NT2 iodine 118	NT2 mercury 179
NT2 fluorine 18	NT2 iodine 119	NT2 mercury 181
NT2 gadolinium 135	NT2 iodine 120	NT2 mercury 182
NT2 gadolinium 137	NT2 iodine 121	NT2 mercury 183
NT2 gadolinium 139	NT2 iodine 122	NT2 mercury 184
NT2 gadolinium 142	NT2 iodine 124	NT2 mercury 185
NT2 gadolinium 143	NT2 iodine 126	NT2 mercury 186
NT2 gadolinium 144	NT2 iodine 128	NT2 mercury 187
NT2 gadolinium 145	NT2 iridium 178	NT2 mercury 188
NT2 gadolinium 146	NT2 iridium 179	NT2 mercury 191
NT2 gadolinium 147	NT2 iridium 180	NT2 mercury 193
NT2 gallium 60	NT2 iridium 181	NT2 molybdenum 86
NT2 gallium 62	NT2 iridium 182	NT2 molybdenum 87
NT2 gallium 63	NT2 iridium 183	NT2 molybdenum 88
NT2 gallium 64	NT2 iridium 184	NT2 molybdenum 89
NT2 gallium 65	NT2 iridium 185	NT2 molybdenum 90
NT2 gallium 66	NT2 iridium 186	NT2 molybdenum 91
NT2 gallium 68	NT2 iridium 188	NT2 neodymium 127
NT2 germanium 61	NT2 iridium 190	NT2 neodymium 128
NT2 germanium 63	NT2 iron 45	NT2 neodymium 129
NT2 germanium 64	NT2 iron 46	NT2 neodymium 130
NT2 germanium 65	NT2 iron 49	NT2 neodymium 131
NT2 germanium 66	NT2 iron 51	NT2 neodymium 132
NT2 germanium 67	NT2 iron 52	NT2 neodymium 133
NT2 germanium 69	NT2 iron 53	NT2 neodymium 134
NT2 gold 182	NT2 krypton 69	NT2 neodymium 135
NT2 gold 184	NT2 krypton 71	NT2 neodymium 136
NT2 gold 185	NT2 krypton 72	NT2 neodymium 137
NT2 gold 186	NT2 krypton 73	NT2 neodymium 138
NT2 gold 187	NT2 krypton 74	NT2 neodymium 139
NT2 gold 188	NT2 krypton 75	NT2 neodymium 141
NT2 gold 189	NT2 krypton 77	NT2 neon 17
NT2 gold 190	NT2 krypton 79	NT2 neon 18
NT2 gold 192	NT2 lanthanum 121	NT2 neon 19
NT2 gold 194	NT2 lanthanum 125	NT2 neptunium 234
NT2 gold 196	NT2 lanthanum 126	NT2 nickel 49
NT2 hafnium 154	NT2 lanthanum 127	NT2 nickel 50
NT2 hafnium 155	NT2 lanthanum 128	NT2 nickel 52
NT2 hafnium 162	NT2 lanthanum 129	NT2 nickel 53
NT2 hafnium 163	NT2 lanthanum 130	NT2 nickel 55
NT2 hafnium 166	NT2 lanthanum 131	NT2 nickel 56
NT2 hafnium 167	NT2 lanthanum 132	NT2 nickel 57
NT2 hafnium 168	NT2 lanthanum 133	NT2 niobium 83
NT2 hafnium 169	NT2 lanthanum 134	NT2 niobium 84
NT2 holmium 145	NT2 lanthanum 135	NT2 niobium 85
NT2 holmium 146	NT2 lanthanum 136	NT2 niobium 87
NT2 holmium 147	NT2 lead 187	NT2 niobium 88
NT2 holmium 148	NT2 lead 188	NT2 niobium 89
NT2 holmium 149	NT2 lead 189	NT2 niobium 90
NT2 holmium 150	NT2 lead 190	NT2 niobium 92
NT2 holmium 151	NT2 lead 191	NT2 nitrogen 12
NT2 holmium 152	NT2 lead 192	NT2 nitrogen 13
NT2 holmium 153	NT2 lead 193	NT2 osmium 172
NT2 holmium 154	NT2 lead 194	NT2 osmium 173
NT2 holmium 155	NT2 lead 195	NT2 osmium 174
NT2 holmium 156	NT2 lead 199	NT2 osmium 175
NT2 holmium 157	NT2 lead 201	NT2 osmium 176
NT2 holmium 158	NT2 lutetium 153	NT2 osmium 177
NT2 holmium 160	NT2 lutetium 161	NT2 osmium 178
NT2 holmium 162	NT2 lutetium 162	NT2 osmium 179
NT2 indium 100	NT2 lutetium 163	NT2 osmium 181
NT2 indium 103	NT2 lutetium 164	NT2 osmium 183
NT2 indium 104	NT2 lutetium 165	NT2 oxygen 13
NT2 indium 105	NT2 lutetium 166	NT2 oxygen 14
NT2 indium 106	NT2 lutetium 167	NT2 oxygen 15
NT2 indium 107	NT2 lutetium 168	NT2 palladium 101
NT2 indium 108	NT2 lutetium 169	NT2 palladium 93
NT2 indium 109	NT2 lutetium 170	NT2 palladium 94
NT2 indium 110	NT2 lutetium 171	NT2 palladium 95
NT2 indium 112	NT2 lutetium 174	NT2 palladium 97
NT2 indium 114	NT2 magnesium 20	NT2 palladium 98

NT2 palladium 99  
 NT2 phosphorus 26  
 NT2 phosphorus 28  
 NT2 phosphorus 29  
 NT2 phosphorus 30  
 NT2 platinum 174  
 NT2 platinum 182  
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 NT2 polonium 198  
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 NT2 promethium 140  
 NT2 promethium 141  
 NT2 promethium 142  
 NT2 protactinium 230  
 NT2 radon 207  
 NT2 radon 209  
 NT2 rhenium 165  
 NT2 rhenium 170  
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 NT2 rhenium 182  
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 NT2 samarium 143  
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 NT2 scandium 44  
 NT2 selenium 65  
 NT2 selenium 67  
 NT2 selenium 68  
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 NT2 selenium 71  
 NT2 selenium 73  
 NT2 silicon 24  
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 NT2 silicon 26  
 NT2 silicon 27  
 NT2 silver 100  
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 NT2 sodium 20  
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 NT2 sodium 22  
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 NT2 strontium 81  
 NT2 strontium 83  
 NT2 sulfur 28  
 NT2 sulfur 29  
 NT2 sulfur 30  
 NT2 sulfur 31  
 NT2 tantalum 165  
 NT2 tantalum 166  
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 NT2 tantalum 178  
 NT2 technetium 88  
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 NT2 tin 102  
 NT2 tin 103  
 NT2 tin 105  
 NT2 tin 106  
 NT2 tin 107  
 NT2 tin 108  
 NT2 tin 109  
 NT2 tin 111  
 NT2 titanium 39  
 NT2 titanium 40

NT2	titanium 41	NT2	americium 235	NT2	bismuth 197
NT2	titanium 42	NT2	americium 236	NT2	bismuth 198
NT2	titanium 43	NT2	americium 237	NT2	bismuth 199
NT2	titanium 45	NT2	americium 238	NT2	bismuth 200
NT2	tungsten 157	NT2	americium 239	NT2	bismuth 201
NT2	tungsten 168	NT2	americium 240	NT2	bismuth 202
NT2	tungsten 169	NT2	americium 242	NT2	bismuth 203
NT2	tungsten 170	NT2	americium 244	NT2	bismuth 204
NT2	tungsten 171	NT2	antimony 103	NT2	bismuth 205
NT2	tungsten 172	NT2	antimony 107	NT2	bismuth 206
NT2	tungsten 173	NT2	antimony 109	NT2	bismuth 207
NT2	tungsten 175	NT2	antimony 110	NT2	bismuth 208
NT2	tungsten 177	NT2	antimony 111	NT2	bromine 67
NT2	tungsten 190	NT2	antimony 112	NT2	bromine 68
NT2	vanadium 42	NT2	antimony 113	NT2	bromine 71
NT2	vanadium 43	NT2	antimony 114	NT2	bromine 73
NT2	vanadium 44	NT2	antimony 115	NT2	bromine 74
NT2	vanadium 45	NT2	antimony 116	NT2	bromine 75
NT2	vanadium 46	NT2	antimony 117	NT2	bromine 76
NT2	vanadium 47	NT2	antimony 118	NT2	bromine 77
NT2	vanadium 48	NT2	antimony 119	NT2	bromine 78
NT2	xenon 110	NT2	antimony 120	NT2	bromine 80
NT2	xenon 111	NT2	antimony 122	NT2	cadmium 100
NT2	xenon 112	NT2	argon 37	NT2	cadmium 101
NT2	xenon 113	NT2	arsenic 67	NT2	cadmium 102
NT2	xenon 114	NT2	arsenic 70	NT2	cadmium 103
NT2	xenon 115	NT2	arsenic 71	NT2	cadmium 104
NT2	xenon 116	NT2	arsenic 72	NT2	cadmium 105
NT2	xenon 117	NT2	arsenic 73	NT2	cadmium 107
NT2	xenon 118	NT2	arsenic 74	NT2	cadmium 109
NT2	xenon 119	NT2	astatine 195	NT2	cadmium 96
NT2	xenon 120	NT2	astatine 197	NT2	cadmium 97
NT2	xenon 121	NT2	astatine 199	NT2	calcium 41
NT2	xenon 122	NT2	astatine 200	NT2	californium 241
NT2	xenon 123	NT2	astatine 201	NT2	californium 243
NT2	xenon 125	NT2	astatine 202	NT2	californium 245
NT2	ytterbium 153	NT2	astatine 203	NT2	californium 247
NT2	ytterbium 158	NT2	astatine 204	NT2	cerium 119
NT2	ytterbium 160	NT2	astatine 205	NT2	cerium 120
NT2	ytterbium 161	NT2	astatine 206	NT2	cerium 121
NT2	ytterbium 162	NT2	astatine 207	NT2	cerium 122
NT2	ytterbium 163	NT2	astatine 208	NT2	cerium 123
NT2	ytterbium 165	NT2	astatine 209	NT2	cerium 126
NT2	ytterbium 167	NT2	astatine 210	NT2	cerium 127
NT2	yttrium 79	NT2	astatine 211	NT2	cerium 128
NT2	yttrium 80	NT2	barium 117	NT2	cerium 129
NT2	yttrium 81	NT2	barium 119	NT2	cerium 130
NT2	yttrium 82	NT2	barium 120	NT2	cerium 131
NT2	yttrium 83	NT2	barium 121	NT2	cerium 132
NT2	yttrium 84	NT2	barium 122	NT2	cerium 133
NT2	yttrium 85	NT2	barium 123	NT2	cerium 134
NT2	yttrium 86	NT2	barium 124	NT2	cerium 135
NT2	yttrium 87	NT2	barium 125	NT2	cerium 137
NT2	yttrium 88	NT2	barium 126	NT2	cerium 139
NT2	zinc 57	NT2	barium 127	NT2	cesium 114
NT2	zinc 59	NT2	barium 128	NT2	cesium 115
NT2	zinc 60	NT2	barium 129	NT2	cesium 116
NT2	zinc 61	NT2	barium 131	NT2	cesium 117
NT2	zinc 62	NT2	barium 133	NT2	cesium 118
NT2	zinc 63	NT2	berkelium 235	NT2	cesium 119
NT2	zinc 65	NT2	berkelium 236	NT2	cesium 120
NT2	zirconium 81	NT2	berkelium 237	NT2	cesium 121
NT2	zirconium 82	NT2	berkelium 238	NT2	cesium 122
NT2	zirconium 83	NT2	berkelium 239	NT2	cesium 123
NT2	zirconium 84	NT2	berkelium 240	NT2	cesium 124
NT2	zirconium 85	NT2	berkelium 242	NT2	cesium 125
NT2	zirconium 87	NT2	berkelium 243	NT2	cesium 126
NT2	zirconium 89	NT2	berkelium 244	NT2	cesium 127
NT1	electron capture radioisotopes	NT2	berkelium 245	NT2	cesium 128
NT2	actinium 214	NT2	berkelium 246	NT2	cesium 129
NT2	actinium 215	NT2	berkelium 248	NT2	cesium 130
NT2	actinium 222	NT2	beryllium 7	NT2	cesium 131
NT2	actinium 223	NT2	bismuth 190	NT2	cesium 132
NT2	actinium 224	NT2	bismuth 191	NT2	cesium 134
NT2	actinium 226	NT2	bismuth 192	NT2	chlorine 36
NT2	americium 231	NT2	bismuth 193	NT2	chromium 48
NT2	americium 232	NT2	bismuth 194	NT2	chromium 49
NT2	americium 233	NT2	bismuth 195	NT2	chromium 51
NT2	americium 234	NT2	bismuth 196	NT2	cobalt 49

NT2 cobalt 51  
NT2 cobalt 55  
NT2 cobalt 56  
NT2 cobalt 57  
NT2 cobalt 58  
NT2 copper 55  
NT2 copper 58  
NT2 copper 60  
NT2 copper 61  
NT2 copper 62  
NT2 copper 64  
NT2 curium 232  
NT2 curium 233  
NT2 curium 234  
NT2 curium 235  
NT2 curium 238  
NT2 curium 239  
NT2 curium 241  
NT2 dubnium 258  
NT2 dysprosium 138  
NT2 dysprosium 139  
NT2 dysprosium 140  
NT2 dysprosium 141  
NT2 dysprosium 143  
NT2 dysprosium 144  
NT2 dysprosium 145  
NT2 dysprosium 147  
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NT2 krypton 79

NT2	krypton 81	NT2	mendelevium 252	NT2	osmium 171
NT2	lanthanum 117	NT2	mendelevium 253	NT2	osmium 172
NT2	lanthanum 118	NT2	mendelevium 254	NT2	osmium 173
NT2	lanthanum 119	NT2	mendelevium 255	NT2	osmium 174
NT2	lanthanum 120	NT2	mendelevium 256	NT2	osmium 175
NT2	lanthanum 121	NT2	mendelevium 257	NT2	osmium 176
NT2	lanthanum 122	NT2	mendelevium 258	NT2	osmium 177
NT2	lanthanum 123	NT2	mercury 177	NT2	osmium 178
NT2	lanthanum 124	NT2	mercury 178	NT2	osmium 179
NT2	lanthanum 125	NT2	mercury 179	NT2	osmium 180
NT2	lanthanum 126	NT2	mercury 180	NT2	osmium 181
NT2	lanthanum 127	NT2	mercury 181	NT2	osmium 182
NT2	lanthanum 128	NT2	mercury 182	NT2	osmium 183
NT2	lanthanum 129	NT2	mercury 183	NT2	osmium 185
NT2	lanthanum 130	NT2	mercury 184	NT2	palladium 100
NT2	lanthanum 131	NT2	mercury 185	NT2	palladium 101
NT2	lanthanum 132	NT2	mercury 186	NT2	palladium 103
NT2	lanthanum 133	NT2	mercury 187	NT2	palladium 91
NT2	lanthanum 134	NT2	mercury 188	NT2	palladium 92
NT2	lanthanum 135	NT2	mercury 189	NT2	palladium 94
NT2	lanthanum 136	NT2	mercury 190	NT2	palladium 95
NT2	lanthanum 137	NT2	mercury 191	NT2	palladium 96
NT2	lanthanum 138	NT2	mercury 192	NT2	palladium 97
NT2	lawrencium 251	NT2	mercury 193	NT2	palladium 98
NT2	lawrencium 254	NT2	mercury 194	NT2	palladium 99
NT2	lawrencium 255	NT2	mercury 195	NT2	platinum 173
NT2	lawrencium 256	NT2	mercury 197	NT2	platinum 174
NT2	lead 186	NT2	molybdenum 83	NT2	platinum 175
NT2	lead 187	NT2	molybdenum 87	NT2	platinum 176
NT2	lead 188	NT2	molybdenum 88	NT2	platinum 177
NT2	lead 189	NT2	molybdenum 89	NT2	platinum 178
NT2	lead 190	NT2	molybdenum 90	NT2	platinum 179
NT2	lead 191	NT2	molybdenum 91	NT2	platinum 180
NT2	lead 192	NT2	molybdenum 93	NT2	platinum 181
NT2	lead 193	NT2	neodymium 125	NT2	platinum 182
NT2	lead 194	NT2	neodymium 126	NT2	platinum 183
NT2	lead 195	NT2	neodymium 129	NT2	platinum 184
NT2	lead 196	NT2	neodymium 130	NT2	platinum 185
NT2	lead 197	NT2	neodymium 132	NT2	platinum 186
NT2	lead 198	NT2	neodymium 133	NT2	platinum 187
NT2	lead 199	NT2	neodymium 134	NT2	platinum 188
NT2	lead 200	NT2	neodymium 135	NT2	platinum 189
NT2	lead 201	NT2	neodymium 136	NT2	platinum 191
NT2	lead 202	NT2	neodymium 137	NT2	platinum 193
NT2	lead 203	NT2	neodymium 138	NT2	plutonium 232
NT2	lead 205	NT2	neodymium 139	NT2	plutonium 233
NT2	lutetium 150	NT2	neodymium 140	NT2	plutonium 234
NT2	lutetium 153	NT2	neodymium 141	NT2	plutonium 235
NT2	lutetium 154	NT2	neptunium 230	NT2	plutonium 237
NT2	lutetium 155	NT2	neptunium 231	NT2	polonium 196
NT2	lutetium 156	NT2	neptunium 232	NT2	polonium 197
NT2	lutetium 157	NT2	neptunium 233	NT2	polonium 198
NT2	lutetium 158	NT2	neptunium 234	NT2	polonium 199
NT2	lutetium 159	NT2	neptunium 235	NT2	polonium 200
NT2	lutetium 160	NT2	neptunium 236	NT2	polonium 201
NT2	lutetium 161	NT2	nickel 48	NT2	polonium 202
NT2	lutetium 162	NT2	nickel 51	NT2	polonium 203
NT2	lutetium 163	NT2	nickel 56	NT2	polonium 204
NT2	lutetium 164	NT2	nickel 57	NT2	polonium 205
NT2	lutetium 165	NT2	nickel 59	NT2	polonium 206
NT2	lutetium 166	NT2	niobium 82	NT2	polonium 207
NT2	lutetium 167	NT2	niobium 84	NT2	polonium 208
NT2	lutetium 168	NT2	niobium 85	NT2	polonium 209
NT2	lutetium 169	NT2	niobium 86	NT2	potassium 40
NT2	lutetium 170	NT2	niobium 87	NT2	praseodymium 125
NT2	lutetium 171	NT2	niobium 88	NT2	praseodymium 127
NT2	lutetium 172	NT2	niobium 90	NT2	praseodymium 128
NT2	lutetium 173	NT2	niobium 91	NT2	praseodymium 129
NT2	lutetium 174	NT2	niobium 92	NT2	praseodymium 130
NT2	manganese 51	NT2	nitrogen 13	NT2	praseodymium 132
NT2	manganese 52	NT2	nobelium 253	NT2	praseodymium 133
NT2	manganese 53	NT2	nobelium 254	NT2	praseodymium 134
NT2	manganese 54	NT2	nobelium 255	NT2	praseodymium 135
NT2	mendelevium 245	NT2	nobelium 259	NT2	praseodymium 136
NT2	mendelevium 246	NT2	osmium 166	NT2	praseodymium 137
NT2	mendelevium 248	NT2	osmium 167	NT2	praseodymium 138
NT2	mendelevium 249	NT2	osmium 168	NT2	praseodymium 139
NT2	mendelevium 250	NT2	osmium 169	NT2	praseodymium 140
NT2	mendelevium 251	NT2	osmium 170	NT2	praseodymium 142

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 NT2 zirconium 89  
 RT beta decay

### BETA-DELAYED NEUTRONS

*INIS: 1985-01-17; ETDE: 1988-10-12*

\*BT1 neutrons

RT beta-minus decay

RT delayed neutron precursors

RT neutron-rich isotopes

### beta-delayed protons

*INIS: 1985-01-17; ETDE: 2002-06-13*

USE delayed protons

### BETA DETECTION

\*BT1 charged particle detection

RT beta dosimetry

RT beta particles

RT beta spectrometers

RT beta spectroscopy

RT electron detection

RT positron detection

### BETA DOSIMETRY

BT1 dosimetry

RT beta detection

### BETA II DEVICES

*INIS: 1981-10-15; ETDE: 1979-03-28*

*This device was formerly known as 2XIIB.*

\*BT1 magnetic mirrors

### BETA-MINUS DECAY

\*BT1 beta decay

NT1 double beta decay

NT2 neutrinoless double beta decay

RT beta-delayed neutrons

RT beta-minus decay radioisotopes

### BETA-MINUS DECAY

#### RADIOISOTOPES

*1998-01-27*

\*BT1 beta decay radioisotopes

NT1 actinium 226

NT1 actinium 227

NT1 actinium 228

NT1 actinium 229

NT1 actinium 230

NT1 actinium 231

NT1 actinium 232

NT1 actinium 233

NT1 actinium 234

NT1 actinium 235

NT1 actinium 236

NT1 aluminium 28

NT1 aluminium 29

NT1 aluminium 30

NT1 aluminium 31

NT1 aluminium 32

NT1 aluminium 34

NT1 aluminium 36

NT1 aluminium 37

NT1 aluminium 40

NT1 aluminium 41

NT1 aluminium 42

NT1 americium 242

NT1 americium 244

NT1 americium 245

NT1 americium 246

NT1 americium 247

NT1 americium 248

NT1 americium 249

NT1 antimony 122

NT1 antimony 124

NT1 antimony 125

NT1 antimony 126

NT1 antimony 127

NT1 antimony 128

NT1 antimony 129

NT1 antimony 130

NT1 antimony 131

NT1 antimony 132

NT1 antimony 133

NT1 antimony 134

NT1 antimony 135

NT1 antimony 136

NT1 antimony 137

NT1 antimony 138

NT1 antimony 139

NT1 argon 39

NT1 argon 41

NT1 argon 42

NT1 argon 43

NT1 argon 44

NT1 argon 45

NT1 argon 46

NT1 argon 48

NT1 argon 52

NT1 argon 53

NT1 arsenic 74

NT1 arsenic 76

NT1 arsenic 77

NT1 arsenic 78

NT1 arsenic 79

NT1 arsenic 80

NT1 arsenic 81

NT1 arsenic 82

NT1 arsenic 83

NT1 arsenic 84

NT1 arsenic 85

NT1 arsenic 86

NT1 arsenic 87

NT1 arsenic 88

NT1 arsenic 89

NT1 arsenic 90

NT1 arsenic 91

NT1 arsenic 92

NT1 astatine 217

NT1 astatine 218

NT1 astatine 219

NT1 astatine 220

NT1 astatine 221

NT1 astatine 222

NT1 astatine 223

NT1 barium 139

NT1 barium 140

NT1 barium 141

NT1 barium 142



NT1	barium 143	NT1	calcium 53	NT1	cobalt 73
NT1	barium 144	NT1	calcium 54	NT1	cobalt 74
NT1	barium 145	NT1	calcium 55	NT1	cobalt 75
NT1	barium 146	NT1	calcium 56	NT1	copper 64
NT1	barium 147	NT1	calcium 57	NT1	copper 66
NT1	barium 148	NT1	calcium 58	NT1	copper 67
NT1	barium 149	NT1	calcium 60	NT1	copper 68
NT1	barium 150	NT1	californium 253	NT1	copper 69
NT1	barium 151	NT1	californium 255	NT1	copper 70
NT1	barium 152	NT1	carbon 14	NT1	copper 71
NT1	barium 153	NT1	carbon 15	NT1	copper 72
NT1	berkelium 248	NT1	carbon 16	NT1	copper 73
NT1	berkelium 249	NT1	carbon 17	NT1	copper 74
NT1	berkelium 250	NT1	carbon 18	NT1	copper 75
NT1	berkelium 251	NT1	cerium 141	NT1	copper 76
NT1	berkelium 252	NT1	cerium 143	NT1	copper 77
NT1	berkelium 253	NT1	cerium 144	NT1	copper 78
NT1	berkelium 254	NT1	cerium 145	NT1	copper 79
NT1	beryllium 10	NT1	cerium 146	NT1	copper 80
NT1	beryllium 11	NT1	cerium 147	NT1	curium 249
NT1	beryllium 12	NT1	cerium 148	NT1	curium 250
NT1	beryllium 14	NT1	cerium 149	NT1	curium 251
NT1	bismuth 210	NT1	cerium 150	NT1	dysprosium 165
NT1	bismuth 211	NT1	cerium 151	NT1	dysprosium 166
NT1	bismuth 212	NT1	cerium 152	NT1	dysprosium 167
NT1	bismuth 213	NT1	cerium 153	NT1	dysprosium 168
NT1	bismuth 214	NT1	cerium 154	NT1	dysprosium 169
NT1	bismuth 215	NT1	cerium 155	NT1	dysprosium 170
NT1	bismuth 216	NT1	cerium 156	NT1	dysprosium 171
NT1	bismuth 217	NT1	cerium 157	NT1	dysprosium 172
NT1	bismuth 218	NT1	cesium 130	NT1	dysprosium 173
NT1	boron 12	NT1	cesium 132	NT1	einsteinium 254
NT1	boron 13	NT1	cesium 134	NT1	einsteinium 255
NT1	boron 14	NT1	cesium 135	NT1	einsteinium 256
NT1	boron 15	NT1	cesium 136	NT1	einsteinium 257
NT1	boron 16	NT1	cesium 137	NT1	erbium 169
NT1	boron 17	NT1	cesium 138	NT1	erbium 171
NT1	boron 19	NT1	cesium 139	NT1	erbium 172
NT1	bromine 80	NT1	cesium 140	NT1	erbium 173
NT1	bromine 82	NT1	cesium 141	NT1	erbium 174
NT1	bromine 83	NT1	cesium 142	NT1	erbium 175
NT1	bromine 84	NT1	cesium 143	NT1	erbium 176
NT1	bromine 85	NT1	cesium 144	NT1	erbium 177
NT1	bromine 86	NT1	cesium 145	NT1	europium 150
NT1	bromine 87	NT1	cesium 146	NT1	europium 152
NT1	bromine 88	NT1	cesium 147	NT1	europium 154
NT1	bromine 89	NT1	cesium 148	NT1	europium 155
NT1	bromine 90	NT1	cesium 149	NT1	europium 156
NT1	bromine 91	NT1	cesium 150	NT1	europium 157
NT1	bromine 92	NT1	cesium 151	NT1	europium 158
NT1	bromine 93	NT1	chlorine 36	NT1	europium 159
NT1	bromine 94	NT1	chlorine 38	NT1	europium 160
NT1	bromine 95	NT1	chlorine 39	NT1	europium 161
NT1	bromine 96	NT1	chlorine 40	NT1	europium 162
NT1	bromine 97	NT1	chlorine 41	NT1	europium 163
NT1	cadmium 113	NT1	chlorine 50	NT1	europium 164
NT1	cadmium 115	NT1	chromium 55	NT1	europium 165
NT1	cadmium 117	NT1	chromium 56	NT1	europium 166
NT1	cadmium 118	NT1	chromium 57	NT1	europium 167
NT1	cadmium 119	NT1	chromium 58	NT1	fluorine 20
NT1	cadmium 120	NT1	chromium 59	NT1	fluorine 21
NT1	cadmium 121	NT1	chromium 60	NT1	fluorine 22
NT1	cadmium 122	NT1	chromium 62	NT1	fluorine 23
NT1	cadmium 123	NT1	chromium 63	NT1	fluorine 24
NT1	cadmium 124	NT1	chromium 64	NT1	fluorine 25
NT1	cadmium 125	NT1	chromium 65	NT1	fluorine 26
NT1	cadmium 126	NT1	chromium 66	NT1	fluorine 27
NT1	cadmium 127	NT1	chromium 67	NT1	francium 220
NT1	cadmium 128	NT1	chromium 68	NT1	francium 222
NT1	cadmium 129	NT1	cobalt 60	NT1	francium 223
NT1	cadmium 130	NT1	cobalt 61	NT1	francium 224
NT1	cadmium 131	NT1	cobalt 62	NT1	francium 225
NT1	cadmium 132	NT1	cobalt 63	NT1	francium 226
NT1	calcium 45	NT1	cobalt 64	NT1	francium 227
NT1	calcium 47	NT1	cobalt 65	NT1	francium 228
NT1	calcium 49	NT1	cobalt 66	NT1	francium 229
NT1	calcium 50	NT1	cobalt 67	NT1	francium 230
NT1	calcium 51	NT1	cobalt 71	NT1	francium 231
NT1	calcium 52	NT1	cobalt 72	NT1	gadolinium 159

NT1	gadolinium 161	NT1	indium 126	NT1	lead 212
NT1	gadolinium 162	NT1	indium 127	NT1	lead 213
NT1	gadolinium 163	NT1	indium 128	NT1	lead 214
NT1	gadolinium 164	NT1	indium 129	NT1	lithium 11
NT1	gadolinium 165	NT1	indium 130	NT1	lithium 13
NT1	gadolinium 166	NT1	indium 131	NT1	lithium 8
NT1	gadolinium 168	NT1	indium 132	NT1	lithium 9
NT1	gallium 70	NT1	indium 133	NT1	lutetium 176
NT1	gallium 72	NT1	indium 134	NT1	lutetium 177
NT1	gallium 73	NT1	indium 135	NT1	lutetium 178
NT1	gallium 74	NT1	iodine 126	NT1	lutetium 179
NT1	gallium 75	NT1	iodine 128	NT1	lutetium 180
NT1	gallium 76	NT1	iodine 129	NT1	lutetium 181
NT1	gallium 77	NT1	iodine 130	NT1	lutetium 182
NT1	gallium 78	NT1	iodine 131	NT1	lutetium 183
NT1	gallium 79	NT1	iodine 132	NT1	lutetium 184
NT1	gallium 80	NT1	iodine 133	NT1	lutetium 187
NT1	gallium 81	NT1	iodine 134	NT1	magnesium 27
NT1	gallium 82	NT1	iodine 135	NT1	magnesium 28
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NT1	gallium 85	NT1	iodine 138	NT1	magnesium 31
NT1	gallium 86	NT1	iodine 139	NT1	magnesium 32
NT1	germanium 75	NT1	iodine 140	NT1	magnesium 33
NT1	germanium 77	NT1	iodine 141	NT1	magnesium 34
NT1	germanium 78	NT1	iodine 142	NT1	magnesium 37
NT1	germanium 79	NT1	iodine 143	NT1	magnesium 38
NT1	germanium 80	NT1	iodine 144	NT1	magnesium 39
NT1	germanium 81	NT1	iridium 192	NT1	magnesium 40
NT1	germanium 82	NT1	iridium 194	NT1	magnesium 56
NT1	germanium 83	NT1	iridium 195	NT1	magnesium 57
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NT1	germanium 86	NT1	iridium 198	NT1	magnesium 60
NT1	germanium 87	NT1	iridium 199	NT1	magnesium 61
NT1	germanium 88	NT1	iridium 202	NT1	magnesium 62
NT1	germanium 89	NT1	iron 59	NT1	magnesium 63
NT1	gold 196	NT1	iron 60	NT1	magnesium 66
NT1	gold 198	NT1	iron 61	NT1	magnesium 67
NT1	gold 199	NT1	iron 62	NT1	magnesium 68
NT1	gold 200	NT1	iron 63	NT1	magnesium 69
NT1	gold 201	NT1	iron 64	NT1	magnesium 70
NT1	gold 202	NT1	iron 69	NT1	mercury 203
NT1	gold 203	NT1	iron 70	NT1	mercury 205
NT1	gold 204	NT1	iron 71	NT1	mercury 206
NT1	gold 205	NT1	iron 72	NT1	molybdenum 101
NT1	hafnium 181	NT1	krypton 100	NT1	molybdenum 102
NT1	hafnium 182	NT1	krypton 85	NT1	molybdenum 103
NT1	hafnium 183	NT1	krypton 87	NT1	molybdenum 104
NT1	hafnium 184	NT1	krypton 88	NT1	molybdenum 105
NT1	hafnium 187	NT1	krypton 89	NT1	molybdenum 106
NT1	hafnium 188	NT1	krypton 90	NT1	molybdenum 107
NT1	helium 6	NT1	krypton 91	NT1	molybdenum 108
NT1	helium 7	NT1	krypton 92	NT1	molybdenum 109
NT1	helium 8	NT1	krypton 93	NT1	molybdenum 110
NT1	holmium 164	NT1	krypton 94	NT1	molybdenum 111
NT1	holmium 166	NT1	krypton 95	NT1	molybdenum 112
NT1	holmium 167	NT1	krypton 97	NT1	molybdenum 113
NT1	holmium 168	NT1	krypton 99	NT1	molybdenum 114
NT1	holmium 169	NT1	lanthanum 138	NT1	molybdenum 115
NT1	holmium 170	NT1	lanthanum 140	NT1	molybdenum 99
NT1	holmium 171	NT1	lanthanum 141	NT1	neodymium 147
NT1	holmium 172	NT1	lanthanum 142	NT1	neodymium 149
NT1	holmium 173	NT1	lanthanum 143	NT1	neodymium 151
NT1	holmium 174	NT1	lanthanum 144	NT1	neodymium 152
NT1	holmium 175	NT1	lanthanum 145	NT1	neodymium 153
NT1	indium 112	NT1	lanthanum 146	NT1	neodymium 154
NT1	indium 114	NT1	lanthanum 147	NT1	neodymium 155
NT1	indium 115	NT1	lanthanum 148	NT1	neodymium 156
NT1	indium 116	NT1	lanthanum 149	NT1	neodymium 157
NT1	indium 117	NT1	lanthanum 150	NT1	neodymium 158
NT1	indium 118	NT1	lanthanum 151	NT1	neodymium 159
NT1	indium 119	NT1	lanthanum 152	NT1	neodymium 160
NT1	indium 120	NT1	lanthanum 153	NT1	neodymium 161
NT1	indium 121	NT1	lanthanum 154	NT1	neon 23
NT1	indium 122	NT1	lanthanum 155	NT1	neon 24
NT1	indium 123	NT1	lead 209	NT1	neon 25
NT1	indium 124	NT1	lead 210	NT1	neon 26
NT1	indium 125	NT1	lead 211	NT1	neon 27

NT1	neon 29	NT1	palladium 119	NT1	promethium 163
NT1	neon 30	NT1	palladium 120	NT1	protactinium 230
NT1	neon 31	NT1	palladium 121	NT1	protactinium 232
NT1	neon 33	NT1	palladium 122	NT1	protactinium 233
NT1	neon 34	NT1	palladium 123	NT1	protactinium 234
NT1	neptunium 236	NT1	palladium 124	NT1	protactinium 235
NT1	neptunium 238	NT1	phosphorus 32	NT1	protactinium 236
NT1	neptunium 239	NT1	phosphorus 33	NT1	protactinium 237
NT1	neptunium 240	NT1	phosphorus 34	NT1	protactinium 238
NT1	neptunium 241	NT1	phosphorus 35	NT1	protactinium 239
NT1	neptunium 242	NT1	phosphorus 36	NT1	protactinium 240
NT1	neptunium 243	NT1	phosphorus 37	NT1	radium 225
NT1	neptunium 244	NT1	phosphorus 38	NT1	radium 227
NT1	neutron-rich isotopes	NT1	phosphorus 40	NT1	radium 228
NT1	nickel 63	NT1	phosphorus 41	NT1	radium 229
NT1	nickel 65	NT1	phosphorus 42	NT1	radium 230
NT1	nickel 66	NT1	platinum 197	NT1	radium 231
NT1	nickel 67	NT1	platinum 199	NT1	radium 232
NT1	nickel 69	NT1	platinum 200	NT1	radon 221
NT1	nickel 70	NT1	platinum 201	NT1	radon 223
NT1	nickel 71	NT1	plutonium 241	NT1	radon 224
NT1	nickel 72	NT1	plutonium 243	NT1	radon 225
NT1	nickel 73	NT1	plutonium 245	NT1	radon 226
NT1	nickel 74	NT1	plutonium 246	NT1	radon 227
NT1	nickel 75	NT1	polonium 215	NT1	radon 228
NT1	nickel 76	NT1	polonium 218	NT1	radon 229
NT1	nickel 77	NT1	polonium 219	NT1	rhenium 186
NT1	nickel 80	NT1	polonium 220	NT1	rhenium 187
NT1	niobium 100	NT1	potassium 40	NT1	rhenium 188
NT1	niobium 101	NT1	potassium 42	NT1	rhenium 189
NT1	niobium 102	NT1	potassium 43	NT1	rhenium 190
NT1	niobium 103	NT1	potassium 44	NT1	rhenium 191
NT1	niobium 104	NT1	potassium 45	NT1	rhenium 192
NT1	niobium 105	NT1	potassium 46	NT1	rhenium 193
NT1	niobium 106	NT1	potassium 47	NT1	rhenium 194
NT1	niobium 107	NT1	potassium 48	NT1	rhenium 195
NT1	niobium 108	NT1	potassium 49	NT1	rhenium 196
NT1	niobium 109	NT1	potassium 50	NT1	rhodium 102
NT1	niobium 110	NT1	potassium 51	NT1	rhodium 104
NT1	niobium 111	NT1	potassium 52	NT1	rhodium 105
NT1	niobium 112	NT1	potassium 53	NT1	rhodium 106
NT1	niobium 113	NT1	potassium 54	NT1	rhodium 107
NT1	niobium 94	NT1	potassium 55	NT1	rhodium 108
NT1	niobium 95	NT1	potassium 56	NT1	rhodium 109
NT1	niobium 96	NT1	praseodymium 142	NT1	rhodium 110
NT1	niobium 97	NT1	praseodymium 143	NT1	rhodium 111
NT1	niobium 98	NT1	praseodymium 144	NT1	rhodium 112
NT1	niobium 99	NT1	praseodymium 145	NT1	rhodium 113
NT1	nitrogen 16	NT1	praseodymium 146	NT1	rhodium 114
NT1	nitrogen 17	NT1	praseodymium 147	NT1	rhodium 115
NT1	nitrogen 18	NT1	praseodymium 148	NT1	rhodium 116
NT1	nitrogen 19	NT1	praseodymium 149	NT1	rhodium 117
NT1	nitrogen 20	NT1	praseodymium 150	NT1	rhodium 118
NT1	nitrogen 22	NT1	praseodymium 151	NT1	rhodium 119
NT1	nitrogen 23	NT1	praseodymium 152	NT1	rhodium 120
NT1	osmium 191	NT1	praseodymium 153	NT1	rhodium 121
NT1	osmium 193	NT1	praseodymium 154	NT1	rhodium 122
NT1	osmium 194	NT1	praseodymium 155	NT1	rubidium 100
NT1	osmium 195	NT1	praseodymium 156	NT1	rubidium 84
NT1	osmium 196	NT1	praseodymium 157	NT1	rubidium 86
NT1	osmium 197	NT1	praseodymium 158	NT1	rubidium 87
NT1	osmium 199	NT1	praseodymium 159	NT1	rubidium 88
NT1	osmium 200	NT1	promethium 146	NT1	rubidium 89
NT1	oxygen 19	NT1	promethium 147	NT1	rubidium 90
NT1	oxygen 20	NT1	promethium 148	NT1	rubidium 91
NT1	oxygen 21	NT1	promethium 149	NT1	rubidium 92
NT1	oxygen 22	NT1	promethium 150	NT1	rubidium 93
NT1	oxygen 23	NT1	promethium 151	NT1	rubidium 94
NT1	oxygen 24	NT1	promethium 152	NT1	rubidium 95
NT1	palladium 107	NT1	promethium 153	NT1	rubidium 96
NT1	palladium 109	NT1	promethium 154	NT1	rubidium 97
NT1	palladium 111	NT1	promethium 155	NT1	rubidium 98
NT1	palladium 112	NT1	promethium 156	NT1	rubidium 99
NT1	palladium 113	NT1	promethium 157	NT1	ruthenium 103
NT1	palladium 114	NT1	promethium 158	NT1	ruthenium 105
NT1	palladium 115	NT1	promethium 159	NT1	ruthenium 106
NT1	palladium 116	NT1	promethium 160	NT1	ruthenium 107
NT1	palladium 117	NT1	promethium 161	NT1	ruthenium 108
NT1	palladium 118	NT1	promethium 162	NT1	ruthenium 109

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 NT1 zirconium 93

NT1 zirconium 95  
 NT1 zirconium 97  
 NT1 zirconium 98  
 NT1 zirconium 99  
 RT beta-minus decay

**BETA PARTICLES***Emitted by nuclei.*

BT1 charged particles  
 \*BT1 ionizing radiations  
 RT beta decay  
 RT beta detection  
 RT beta sources  
 RT electrons  
 RT positrons

**BETA-PLUS DECAY**

UF positron decay  
 \*BT1 beta decay  
 RT beta-plus decay radioisotopes  
 RT delayed protons  
 RT electron capture decay

**BETA-PLUS DECAY****RADIOISOTOPES***1997-02-07*

\*BT1 beta decay radioisotopes  
 NT1 aluminium 22  
 NT1 aluminium 23  
 NT1 aluminium 24  
 NT1 aluminium 25  
 NT1 aluminium 26  
 NT1 americium 235  
 NT1 americium 236  
 NT1 antimony 104  
 NT1 antimony 105  
 NT1 antimony 108  
 NT1 antimony 110  
 NT1 antimony 111  
 NT1 antimony 112  
 NT1 antimony 113  
 NT1 antimony 114  
 NT1 antimony 115  
 NT1 antimony 116  
 NT1 antimony 117  
 NT1 antimony 118  
 NT1 antimony 120  
 NT1 antimony 122  
 NT1 argon 31  
 NT1 argon 32  
 NT1 argon 33  
 NT1 argon 34  
 NT1 argon 35  
 NT1 arsenic 66  
 NT1 arsenic 67  
 NT1 arsenic 68  
 NT1 arsenic 69  
 NT1 arsenic 70  
 NT1 arsenic 71  
 NT1 arsenic 72  
 NT1 arsenic 74  
 NT1 astatine 205  
 NT1 astatine 206  
 NT1 barium 114  
 NT1 barium 115  
 NT1 barium 116  
 NT1 barium 117  
 NT1 barium 118  
 NT1 barium 119  
 NT1 barium 120  
 NT1 barium 121  
 NT1 barium 122  
 NT1 barium 123  
 NT1 barium 124  
 NT1 barium 125  
 NT1 barium 126  
 NT1 barium 127  
 NT1 barium 129  
 NT1 berkelium 236  
 NT1 berkelium 238

NT1 bismuth 194  
 NT1 bismuth 197  
 NT1 bismuth 200  
 NT1 bismuth 202  
 NT1 bismuth 203  
 NT1 bismuth 205  
 NT1 bismuth 206  
 NT1 bismuth 207  
 NT1 boron 8  
 NT1 bromine 69  
 NT1 bromine 70  
 NT1 bromine 71  
 NT1 bromine 72  
 NT1 bromine 73  
 NT1 bromine 74  
 NT1 bromine 75  
 NT1 bromine 76  
 NT1 bromine 77  
 NT1 bromine 78  
 NT1 bromine 80  
 NT1 cadmium 100  
 NT1 cadmium 101  
 NT1 cadmium 102  
 NT1 cadmium 103  
 NT1 cadmium 104  
 NT1 cadmium 105  
 NT1 cadmium 107  
 NT1 cadmium 97  
 NT1 cadmium 98  
 NT1 cadmium 99  
 NT1 calcium 36  
 NT1 calcium 37  
 NT1 calcium 38  
 NT1 calcium 39  
 NT1 carbon 10  
 NT1 carbon 11  
 NT1 carbon 9  
 NT1 cerium 121  
 NT1 cerium 125  
 NT1 cerium 127  
 NT1 cerium 128  
 NT1 cerium 129  
 NT1 cerium 130  
 NT1 cerium 131  
 NT1 cerium 132  
 NT1 cerium 133  
 NT1 cerium 135  
 NT1 cerium 137  
 NT1 cesium 114  
 NT1 cesium 115  
 NT1 cesium 116  
 NT1 cesium 117  
 NT1 cesium 118  
 NT1 cesium 119  
 NT1 cesium 120  
 NT1 cesium 121  
 NT1 cesium 122  
 NT1 cesium 123  
 NT1 cesium 124  
 NT1 cesium 125  
 NT1 cesium 126  
 NT1 cesium 127  
 NT1 cesium 128  
 NT1 cesium 129  
 NT1 cesium 130  
 NT1 cesium 132  
 NT1 chlorine 31  
 NT1 chlorine 32  
 NT1 chlorine 33  
 NT1 chlorine 34  
 NT1 chlorine 36  
 NT1 chromium 42  
 NT1 chromium 45  
 NT1 chromium 46  
 NT1 chromium 47  
 NT1 chromium 49  
 NT1 cobalt 52  
 NT1 cobalt 53  
 NT1 cobalt 54

NT1	cobalt 55	NT1	germanium 65	NT1	iron 49
NT1	cobalt 56	NT1	germanium 66	NT1	iron 51
NT1	cobalt 58	NT1	germanium 67	NT1	iron 52
NT1	copper 56	NT1	germanium 69	NT1	iron 53
NT1	copper 57	NT1	gold 182	NT1	krypton 69
NT1	copper 58	NT1	gold 184	NT1	krypton 71
NT1	copper 59	NT1	gold 185	NT1	krypton 72
NT1	copper 60	NT1	gold 186	NT1	krypton 73
NT1	copper 61	NT1	gold 187	NT1	krypton 74
NT1	copper 62	NT1	gold 188	NT1	krypton 75
NT1	copper 64	NT1	gold 189	NT1	krypton 77
NT1	curium 232	NT1	gold 190	NT1	krypton 79
NT1	dysprosium 140	NT1	gold 192	NT1	lanthanum 121
NT1	dysprosium 145	NT1	gold 194	NT1	lanthanum 125
NT1	dysprosium 146	NT1	gold 196	NT1	lanthanum 126
NT1	dysprosium 147	NT1	hafnium 154	NT1	lanthanum 127
NT1	dysprosium 148	NT1	hafnium 155	NT1	lanthanum 128
NT1	dysprosium 149	NT1	hafnium 162	NT1	lanthanum 129
NT1	dysprosium 150	NT1	hafnium 163	NT1	lanthanum 130
NT1	dysprosium 151	NT1	hafnium 166	NT1	lanthanum 131
NT1	dysprosium 152	NT1	hafnium 167	NT1	lanthanum 132
NT1	dysprosium 153	NT1	hafnium 168	NT1	lanthanum 133
NT1	dysprosium 155	NT1	hafnium 169	NT1	lanthanum 134
NT1	dysprosium 157	NT1	holmium 145	NT1	lanthanum 135
NT1	erbium 145	NT1	holmium 146	NT1	lanthanum 136
NT1	erbium 146	NT1	holmium 147	NT1	lead 187
NT1	erbium 147	NT1	holmium 148	NT1	lead 188
NT1	erbium 148	NT1	holmium 149	NT1	lead 189
NT1	erbium 149	NT1	holmium 150	NT1	lead 190
NT1	erbium 150	NT1	holmium 151	NT1	lead 191
NT1	erbium 151	NT1	holmium 152	NT1	lead 192
NT1	erbium 152	NT1	holmium 153	NT1	lead 193
NT1	erbium 153	NT1	holmium 154	NT1	lead 194
NT1	erbium 154	NT1	holmium 155	NT1	lead 195
NT1	erbium 155	NT1	holmium 156	NT1	lead 199
NT1	erbium 156	NT1	holmium 157	NT1	lead 201
NT1	erbium 157	NT1	holmium 158	NT1	lutetium 153
NT1	erbium 158	NT1	holmium 160	NT1	lutetium 161
NT1	erbium 159	NT1	holmium 162	NT1	lutetium 162
NT1	erbium 161	NT1	indium 100	NT1	lutetium 163
NT1	erbium 163	NT1	indium 103	NT1	lutetium 164
NT1	europium 132	NT1	indium 104	NT1	lutetium 165
NT1	europium 134	NT1	indium 105	NT1	lutetium 166
NT1	europium 135	NT1	indium 106	NT1	lutetium 167
NT1	europium 136	NT1	indium 107	NT1	lutetium 168
NT1	europium 138	NT1	indium 108	NT1	lutetium 169
NT1	europium 139	NT1	indium 109	NT1	lutetium 170
NT1	europium 140	NT1	indium 110	NT1	lutetium 171
NT1	europium 141	NT1	indium 112	NT1	lutetium 174
NT1	europium 142	NT1	indium 114	NT1	magnesium 20
NT1	europium 143	NT1	iodine 110	NT1	magnesium 21
NT1	europium 144	NT1	iodine 111	NT1	magnesium 22
NT1	europium 145	NT1	iodine 112	NT1	magnesium 23
NT1	europium 146	NT1	iodine 113	NT1	manganese 48
NT1	europium 147	NT1	iodine 114	NT1	manganese 49
NT1	europium 148	NT1	iodine 115	NT1	manganese 50
NT1	europium 150	NT1	iodine 116	NT1	manganese 51
NT1	europium 152	NT1	iodine 117	NT1	manganese 52
NT1	fluorine 17	NT1	iodine 118	NT1	mercury 179
NT1	fluorine 18	NT1	iodine 119	NT1	mercury 181
NT1	gadolinium 135	NT1	iodine 120	NT1	mercury 182
NT1	gadolinium 137	NT1	iodine 121	NT1	mercury 183
NT1	gadolinium 139	NT1	iodine 122	NT1	mercury 184
NT1	gadolinium 142	NT1	iodine 124	NT1	mercury 185
NT1	gadolinium 143	NT1	iodine 126	NT1	mercury 186
NT1	gadolinium 144	NT1	iodine 128	NT1	mercury 187
NT1	gadolinium 145	NT1	iridium 178	NT1	mercury 188
NT1	gadolinium 146	NT1	iridium 179	NT1	mercury 191
NT1	gadolinium 147	NT1	iridium 180	NT1	mercury 193
NT1	gallium 60	NT1	iridium 181	NT1	molybdenum 86
NT1	gallium 62	NT1	iridium 182	NT1	molybdenum 87
NT1	gallium 63	NT1	iridium 183	NT1	molybdenum 88
NT1	gallium 64	NT1	iridium 184	NT1	molybdenum 89
NT1	gallium 65	NT1	iridium 185	NT1	molybdenum 90
NT1	gallium 66	NT1	iridium 186	NT1	molybdenum 91
NT1	gallium 68	NT1	iridium 188	NT1	neodymium 127
NT1	germanium 61	NT1	iridium 190	NT1	neodymium 128
NT1	germanium 63	NT1	iron 45	NT1	neodymium 129
NT1	germanium 64	NT1	iron 46	NT1	neodymium 130

NT1 neodymium 131  
 NT1 neodymium 132  
 NT1 neodymium 133  
 NT1 neodymium 134  
 NT1 neodymium 135  
 NT1 neodymium 136  
 NT1 neodymium 137  
 NT1 neodymium 138  
 NT1 neodymium 139  
 NT1 neodymium 141  
 NT1 neon 17  
 NT1 neon 18  
 NT1 neon 19  
 NT1 neptunium 234  
 NT1 nickel 49  
 NT1 nickel 50  
 NT1 nickel 52  
 NT1 nickel 53  
 NT1 nickel 55  
 NT1 nickel 56  
 NT1 nickel 57  
 NT1 niobium 83  
 NT1 niobium 84  
 NT1 niobium 85  
 NT1 niobium 87  
 NT1 niobium 88  
 NT1 niobium 89  
 NT1 niobium 90  
 NT1 niobium 92  
 NT1 nitrogen 12  
 NT1 nitrogen 13  
 NT1 osmium 172  
 NT1 osmium 173  
 NT1 osmium 174  
 NT1 osmium 175  
 NT1 osmium 176  
 NT1 osmium 177  
 NT1 osmium 178  
 NT1 osmium 179  
 NT1 osmium 181  
 NT1 osmium 183  
 NT1 oxygen 13  
 NT1 oxygen 14  
 NT1 oxygen 15  
 NT1 palladium 101  
 NT1 palladium 93  
 NT1 palladium 94  
 NT1 palladium 95  
 NT1 palladium 97  
 NT1 palladium 98  
 NT1 palladium 99  
 NT1 phosphorus 26  
 NT1 phosphorus 28  
 NT1 phosphorus 29  
 NT1 phosphorus 30  
 NT1 platinum 174  
 NT1 platinum 182  
 NT1 platinum 183  
 NT1 platinum 184  
 NT1 platinum 185  
 NT1 platinum 187  
 NT1 platinum 189  
 NT1 polonium 198  
 NT1 polonium 199  
 NT1 polonium 200  
 NT1 polonium 201  
 NT1 polonium 202  
 NT1 polonium 203  
 NT1 polonium 205  
 NT1 polonium 207  
 NT1 potassium 35  
 NT1 potassium 36  
 NT1 potassium 37  
 NT1 potassium 38  
 NT1 potassium 40  
 NT1 praseodymium 126  
 NT1 praseodymium 127  
 NT1 praseodymium 129  
 NT1 praseodymium 130

NT1 praseodymium 131  
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 NT1 praseodymium 135  
 NT1 praseodymium 136  
 NT1 praseodymium 137  
 NT1 praseodymium 138  
 NT1 praseodymium 139  
 NT1 praseodymium 140  
 NT1 promethium 132  
 NT1 promethium 133  
 NT1 promethium 134  
 NT1 promethium 135  
 NT1 promethium 136  
 NT1 promethium 137  
 NT1 promethium 138  
 NT1 promethium 139  
 NT1 promethium 140  
 NT1 promethium 141  
 NT1 promethium 142  
 NT1 protactinium 230  
 NT1 radon 207  
 NT1 radon 209  
 NT1 rhenium 165  
 NT1 rhenium 170  
 NT1 rhenium 171  
 NT1 rhenium 172  
 NT1 rhenium 174  
 NT1 rhenium 175  
 NT1 rhenium 176  
 NT1 rhenium 177  
 NT1 rhenium 178  
 NT1 rhenium 179  
 NT1 rhenium 180  
 NT1 rhenium 182  
 NT1 rhodium 100  
 NT1 rhodium 102  
 NT1 rhodium 91  
 NT1 rhodium 92  
 NT1 rhodium 93  
 NT1 rhodium 94  
 NT1 rhodium 95  
 NT1 rhodium 96  
 NT1 rhodium 97  
 NT1 rhodium 98  
 NT1 rhodium 99  
 NT1 rubidium 73  
 NT1 rubidium 74  
 NT1 rubidium 75  
 NT1 rubidium 76  
 NT1 rubidium 77  
 NT1 rubidium 78  
 NT1 rubidium 79  
 NT1 rubidium 80  
 NT1 rubidium 81  
 NT1 rubidium 82  
 NT1 rubidium 84  
 NT1 ruthenium 88  
 NT1 ruthenium 89  
 NT1 ruthenium 92  
 NT1 ruthenium 93  
 NT1 ruthenium 95  
 NT1 samarium 132  
 NT1 samarium 133  
 NT1 samarium 134  
 NT1 samarium 135  
 NT1 samarium 136  
 NT1 samarium 137  
 NT1 samarium 138  
 NT1 samarium 139  
 NT1 samarium 140  
 NT1 samarium 141  
 NT1 samarium 142  
 NT1 samarium 143  
 NT1 scandium 40  
 NT1 scandium 41  
 NT1 scandium 42  
 NT1 scandium 43

NT1 scandium 44  
 NT1 selenium 65  
 NT1 selenium 67  
 NT1 selenium 68  
 NT1 selenium 69  
 NT1 selenium 70  
 NT1 selenium 71  
 NT1 selenium 73  
 NT1 silicon 24  
 NT1 silicon 25  
 NT1 silicon 26  
 NT1 silicon 27  
 NT1 silver 100  
 NT1 silver 101  
 NT1 silver 102  
 NT1 silver 103  
 NT1 silver 104  
 NT1 silver 105  
 NT1 silver 106  
 NT1 silver 108  
 NT1 silver 94  
 NT1 silver 96  
 NT1 silver 98  
 NT1 silver 99  
 NT1 sodium 20  
 NT1 sodium 21  
 NT1 sodium 22  
 NT1 strontium 75  
 NT1 strontium 76  
 NT1 strontium 77  
 NT1 strontium 78  
 NT1 strontium 79  
 NT1 strontium 80  
 NT1 strontium 81  
 NT1 strontium 83  
 NT1 sulfur 28  
 NT1 sulfur 29  
 NT1 sulfur 30  
 NT1 sulfur 31  
 NT1 tantalum 165  
 NT1 tantalum 166  
 NT1 tantalum 167  
 NT1 tantalum 168  
 NT1 tantalum 169  
 NT1 tantalum 170  
 NT1 tantalum 171  
 NT1 tantalum 172  
 NT1 tantalum 173  
 NT1 tantalum 174  
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 NT1 technetium 88  
 NT1 technetium 89  
 NT1 technetium 90  
 NT1 technetium 91  
 NT1 technetium 92  
 NT1 technetium 93  
 NT1 technetium 94  
 NT1 technetium 95  
 NT1 technetium 96  
 NT1 tellurium 107  
 NT1 tellurium 108  
 NT1 tellurium 109  
 NT1 tellurium 110  
 NT1 tellurium 111  
 NT1 tellurium 112  
 NT1 tellurium 113  
 NT1 tellurium 114  
 NT1 tellurium 115  
 NT1 tellurium 116  
 NT1 tellurium 117  
 NT1 tellurium 118  
 NT1 tellurium 119  
 NT1 tellurium 121  
 NT1 terbium 139  
 NT1 terbium 141  
 NT1 terbium 143

**NT1** terbium 144  
**NT1** terbium 145  
**NT1** terbium 146  
**NT1** terbium 147  
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**NT1** terbium 151  
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**NT1** terbium 154  
**NT1** terbium 156  
**NT1** thallium 182  
**NT1** thallium 184  
**NT1** thallium 186  
**NT1** thallium 188  
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**NT1** thallium 190  
**NT1** thallium 191  
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**NT1** thallium 195  
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**NT1** thallium 198  
**NT1** thallium 200  
**NT1** thulium 148  
**NT1** thulium 156  
**NT1** thulium 157  
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**NT1** thulium 165  
**NT1** thulium 166  
**NT1** tin 100  
**NT1** tin 102  
**NT1** tin 103  
**NT1** tin 105  
**NT1** tin 106  
**NT1** tin 107  
**NT1** tin 108  
**NT1** tin 109  
**NT1** tin 111  
**NT1** titanium 39  
**NT1** titanium 40  
**NT1** titanium 41  
**NT1** titanium 42  
**NT1** titanium 43  
**NT1** titanium 45  
**NT1** tungsten 157  
**NT1** tungsten 168  
**NT1** tungsten 169  
**NT1** tungsten 170  
**NT1** tungsten 171  
**NT1** tungsten 172  
**NT1** tungsten 173  
**NT1** tungsten 175  
**NT1** tungsten 177  
**NT1** tungsten 190  
**NT1** vanadium 42  
**NT1** vanadium 43  
**NT1** vanadium 44  
**NT1** vanadium 45  
**NT1** vanadium 46  
**NT1** vanadium 47  
**NT1** vanadium 48  
**NT1** xenon 110  
**NT1** xenon 111  
**NT1** xenon 112  
**NT1** xenon 113  
**NT1** xenon 114  
**NT1** xenon 115  
**NT1** xenon 116  
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**NT1** xenon 118  
**NT1** xenon 119  
**NT1** xenon 120  
**NT1** xenon 121  
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**NT1** xenon 123  
**NT1** xenon 125  
**NT1** ytterbium 153  
**NT1** ytterbium 158  
**NT1** ytterbium 160  
**NT1** ytterbium 161  
**NT1** ytterbium 162  
**NT1** ytterbium 163  
**NT1** ytterbium 165  
**NT1** ytterbium 167  
**NT1** yttrium 79  
**NT1** yttrium 80  
**NT1** yttrium 81  
**NT1** yttrium 82  
**NT1** yttrium 83  
**NT1** yttrium 84  
**NT1** yttrium 85  
**NT1** yttrium 86  
**NT1** yttrium 87  
**NT1** yttrium 88  
**NT1** zinc 57  
**NT1** zinc 59  
**NT1** zinc 60  
**NT1** zinc 61  
**NT1** zinc 62  
**NT1** zinc 63  
**NT1** zinc 65  
**NT1** zirconium 81  
**NT1** zirconium 82  
**NT1** zirconium 83  
**NT1** zirconium 84  
**NT1** zirconium 85  
**NT1** zirconium 87  
**NT1** zirconium 89  
*RT* beta-plus decay

## BETA RADIOGRAPHY

1976-10-29

*A technique for examining papers, thin foils, and other thin materials.*

\*BT1 industrial radiography

## BETA RATIO

BT1 dimensionless numbers  
*RT* high-beta plasma  
*RT* low-beta plasma  
*RT* magnetic fields  
*RT* medium-beta plasma  
*RT* plasma pressure  
*RT* reversed-field pinch devices

## BETA SOURCES

\*BT1 particle sources  
*RT* beta particles

## BETA SPECTRA

BT1 spectra  
*RT* beta decay  
*RT* beta spectrometers

## BETA SPECTROMETERS

\*BT1 spectrometers  
*RT* beta detection  
*RT* beta spectra  
*RT* electron detection

## beta spectrometry

*INIS: 1975-10-23; ETDE: 2002-06-13*

USE beta spectroscopy

## BETA SPECTROSCOPY

*UF* beta spectrometry  
 BT1 spectroscopy  
*RT* beta detection

## beta-w lattices

2015-06-22

(Prior to June 2015 this was a valid descriptor)

USE beta-w structures

## BETA-W STRUCTURES

(Prior to June 2015 BETA-W LATTICES was used for this concept)

*UF* a-15 compounds

*UF* beta-w lattices

BT1 crystal structure

## BETAINE

\*BT1 amino acids

\*BT1 lipotropic factors

\*BT1 quaternary ammonium compounds

*RT* carnitine

## BETATRON OSCILLATIONS

\*BT1 beam dynamics

BT1 oscillations

*RT* q-shift

## BETATRONS

\*BT1 cyclic accelerators

*RT* plasma betatrons

## BETAVOLTAIC CELLS

\*BT1 direct collection converters

*RT* semiconductor diodes

## bethe-goldstone approximation

USE bethe-goldstone equation

## BETHE-GOLDSTONE EQUATION

*UF* bethe-goldstone approximation

BT1 equations

*RT* many-body problem

## bethe-heitler-schiff formula

USE bethe-heitler theory

## BETHE-HEITLER THEORY

*UF* bethe-heitler-schiff formula

*RT* branching ratio

*RT* bremsstrahlung

*RT* pair production

## bethe-hurwitz effect

USE hurwitz effect

## bethe-placzec model

USE placzec function

## BETHE-SALPETER EQUATION

BT1 equations

*RT* blankenbecler-sugar equations

*RT* quantum field theory

## BETHE-TAIT METHOD

*RT* mathematics

*RT* reactor safety

## bethe-weizsaecker cycle

*INIS: 1978-09-28; ETDE: 1979-05-03*

USE cno cycle

## bethe-weizsaecker relation

USE weizsaecker formula

## BETTIS

*Bettis Atomic Power Laboratory.*

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

*RT* pennsylvania

## betula

*ETDE: 2002-06-13*

USE trees



**BEVALAC**

INIS: 1999-01-20; ETDE: 1975-10-01  
*A linking of the Superhilac to the Bevatron.*  
 UF berkeley bevalac  
 \*BT1 cyclic accelerators  
 RT bevatron  
 RT superhilac

**BEVATRON**

\*BT1 synchrotrons  
 RT bevalac

**BEVERAGE INDUSTRY**

INIS: 2000-04-12; ETDE: 1980-01-15  
 BT1 industry  
 RT food industry  
 RT glass industry  
 RT metal industry

**BEVERAGES**

UF coffee  
 UF juices  
 UF tea  
 UF wine  
 BT1 food  
 RT coffee beans  
 RT diet  
 RT drinking water  
 RT ingestion  
 RT milk  
 RT tea leaves  
 RT tea plants

**BEYOND-DESIGN-BASIS****ACCIDENTS**

2017-03-14  
*Accident conditions more severe than a design basis accident. Add relevant descriptors from REACTOR ACCIDENTS if appropriate.*  
 UF bdba  
 BT1 accidents  
 NT1 lohns  
 NT1 severe accidents  
 NT2 meltdown  
 NT3 melt-through  
 NT2 reactor core disruption  
 RT reactor design

**BEZNAU-1 REACTOR**

Bezau, Doettingen, Switzerland.  
 UF nok-1 reactor  
 UF nordostschweizerische kraftwerk-1 reaktor  
 \*BT1 pwr type reactors

**BEZNAU-2 REACTOR**

Bezau, Doettingen, Switzerland.  
 UF nok-2 reactor  
 UF nordostschweizerische kraftwerk-2 reaktor  
 \*BT1 pwr type reactors

**bf-wf process**

INIS: 2000-04-12; ETDE: 1977-04-14  
 USE desulfurization

**BF3 COUNTERS**

\*BT1 neutron detectors  
 \*BT1 proportional counters  
 RT moderating detectors

**BFS REACTOR**

1996-07-10  
*Obninsk fast assembly.*  
 \*BT1 fast reactors  
 \*BT1 zero power reactors

**BGC-LURGI SLAGGING PROCESS**

INIS: 1992-10-20; ETDE: 1982-03-10  
 \*BT1 coal gasification

**BGO DETECTORS**

INIS: 1984-08-24; ETDE: 1984-07-10  
 UF bismuth germanate detectors  
 \*BT1 solid scintillation detectors

**BGRR REACTOR**

BNL, Upton, New York, USA. Shut down in 1969.  
 UF brookhaven graphite research reactor  
 \*BT1 air cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**bhabha atomic research center**

USE barc

**BHABHA SCATTERING**

\*BT1 elastic scattering  
 RT moeller scattering  
 RT quantum electrodynamics

**BHUTAN**

INIS: 1990-01-30; ETDE: 1990-02-13  
 BT1 asia  
 BT1 developing countries

**BHWR TYPE REACTORS**

UF boiling heavy water cooled and moderated reactor  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 NT1 hbwr reactor  
 NT1 marviken reactor  
 RT power reactors

**BI-GAS PROCESS**

2000-04-12  
*Bituminous coal research, inc. Process for producing intermediate or high btu gas by reaction of coal with steam in a gasifier operating at 1000-1500 psi and 3000 and 1700 degrees F in stage 1 and stage 2, respectively. The gasifier may be operated on air rather than oxygen at moderate pressures to produce a low btu gas.*  
 \*BT1 coal gasification  
 RT sng processes

**BIBENZYL**

UF 1,2-diphenylethane  
 UF diphenylethane (1,2-)  
 \*BT1 aromatics

**BIBLIOGRAPHIES**

*Use only in conjunction with literary indicator Z for indexing true bibliographies.*  
 BT1 document types

**BIBLIS-1 REACTOR**

INIS: 1990-12-07; ETDE: 1991-01-22  
*Biblis, Hessen, Federal Republic of Germany. Permanent shutdown since 2011.*  
 (Prior to December 1990, this was indexed by BIBLIS REACTOR.)  
 UF biblis-a reactor  
 UF biblis reactor  
 UF kernkraftwerk biblis  
 UF kernkraftwerk biblis-a  
 \*BT1 pwr type reactors

**BIBLIS-2 REACTOR**

INIS: 1990-12-07; ETDE: 1991-01-22  
*Biblis, Hessen, Federal Republic of Germany. Permanent shutdown since 2011.*  
 (Prior to December 1990, this was indexed by BIBLIS-B REACTOR.)  
 UF biblis-b reactor  
 UF kernkraftwerk biblis-b  
 \*BT1 pwr type reactors

**BIBLIS-3 REACTOR**

INIS: 1976-10-07; ETDE: 1976-11-01  
*Biblis, Hessen, Federal Republic of Germany. Plan cancelled in 1995.*  
 UF biblis-c reactor  
 UF kernkraftwerk biblis-3  
 \*BT1 pwr type reactors

**BIBLIS-4 REACTOR**

INIS: 1976-10-07; ETDE: 1976-11-01  
*Biblis, Hessen, Federal Republic of Germany. Plan cancelled in 1979.*  
 UF biblis-d reactor  
 UF kernkraftwerk biblis-4  
 \*BT1 pwr type reactors

**biblis-a reactor**

2000-04-12  
*Biblis, Hessen, Federal Republic of Germany.*  
 USE biblis-1 reactor

**biblis-b reactor**

1990-12-07  
 USE biblis-2 reactor

**biblis-c reactor**

INIS: 1976-10-07; ETDE: 1976-11-02  
*Biblis, Hessen, Federal Republic of Germany.*  
 USE biblis-3 reactor

**biblis-d reactor**

INIS: 1976-10-07; ETDE: 1976-11-02  
*Biblis, Hessen, Federal Republic of Germany.*  
 USE biblis-4 reactor

**biblis reactor**

1990-12-07  
 (Prior to December 1990, this was a valid descriptor.)  
 USE biblis-1 reactor

**bicarbonates**

INIS: 1985-11-18; ETDE: 1977-07-23  
 (Prior to December 1985 this was a valid descriptor.)  
 USE acid carbonates

**BICRYSTALS**

1994-07-01  
 (Until June 1994 this concept was indexed to POLYCRYSTALS.)  
 \*BT1 polycrystals

**BICYCLES**

INIS: 2000-04-12; ETDE: 1976-08-04  
 BT1 vehicles

**bids**

INIS: 1999-03-15; ETDE: 1978-06-14  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
 USE proposals

**biedenarn-rose theory**

1996-07-16  
 (Until July 1996 this was a valid descriptor.)  
 SEE angular correlation  
 SEE angular distribution

**biexcitons**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE excitons

**BIFURCATION**

1994-02-28

*The abrupt appearance of a new solution of a mathematical equation at some critical parameter value.*

- RT chemical reaction kinetics
- RT control
- RT differential equations
- RT dispersion relations
- RT dynamics
- RT instability
- RT mathematical models
- RT non-equilibrium plasma
- RT phase transformations
- RT wave propagation

**BIG ROCK POINT REACTOR**

*Consumers Power Co., Charlevoix, Michigan, USA. Shut down in 1997.*

- \*BT1 bwr type reactors

**BIG TEN REACTOR**

*LANL, Los Alamos, New Mexico, USA.*

- \*BT1 zero power reactors

**BIGR REACTOR**

*INIS: 1986-12-09; ETDE: 1987-02-24*

- \*BT1 enriched uranium reactors
- \*BT1 fast reactors
- \*BT1 graphite moderated reactors
- \*BT1 pulsed reactors
- \*BT1 research reactors

**BIKINI**

- \*BT1 marshall islands
- RT castle project
- RT redwing project

**BILATERAL AGREEMENTS**

- \*BT1 international agreements
- RT transfrontier contamination
- RT transfrontier pollution

**bilbao argonaut reactor**

- USE arbi reactor

**BILE**

1996-10-22

- \*BT1 body fluids
- RT bile acids
- RT biliary tract
- RT bilirubin

**BILE ACIDS**

- \*BT1 carboxylic acids
- \*BT1 sterols
- NT1 cholic acid
- RT bile

**bile ducts**

- USE biliary tract

**BILIARY TRACT**

- UF bile ducts
- UF gallbladder
- UF gallstones
- BT1 digestive system
- RT bile
- RT glucuronide conjugates
- RT glutathione conjugates
- RT liver

**BILIBIN REACTOR**

*Chukotka region, Russian Federation.*

- UF chukotka reactor
- \*BT1 experimental reactors
- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**BILIRUBIN**

- \*BT1 heterocyclic acids

- BT1 pigments
- \*BT1 pyrroles
- RT bile

**biliverdin**

1996-10-22

*(Until October 1996 this was a valid descriptor.)*

- USE heterocyclic acids
- USE pigments
- USE pyrroles

**billet event**

*INIS: 2000-04-12; ETDE: 1977-06-21*

- USE anvil project

**BILLIETITE**

2000-04-12

- \*BT1 oxide minerals
- \*BT1 uranium minerals
- RT barium oxides
- RT uranium oxides

**billitonites**

- USE tektites

**bimetallic corrosion**

- USE electrochemical corrosion

**BIMETALS**

- RT switches

**BINARY ALLOY SYSTEMS**

- BT1 alloy systems

**BINARY ENCOUNTER METHOD**

- BT1 calculation methods
- RT scattering

**BINARY FISSION**

- \*BT1 fission

**BINARY-FLUID SYSTEMS**

*INIS: 2000-04-12; ETDE: 1976-03-31*

*A system in which hot fluid is passed through a heat exchanger to transfer heat to a low-boiling point fluid (such as freon or isobutane), which is then used as the working fluid in a vapor-turbine cycle.*

- UF magmamax process
- BT1 energy systems
- RT geothermal energy conversion
- RT geothermal power plants
- RT thermodynamic cycles

**BINARY MIXTURES**

- \*BT1 mixtures
- RT alloys

**BINARY STARS**

- BT1 stars
- NT1 eruptive variable stars
- NT2 novae
- NT2 supernovae
- NT3 type i supernovae
- NT3 type ii supernovae
- NT2 t tauri stars
- RT roche equipotentials
- RT symbiotic stars

**BINDERS**

- RT adhesives
- RT fillers

**BINDING ENERGY**

*For chemical and nuclear bonding. For bonding of materials, see also BONDING.*

- UF electron acceptor
- UF electron donor
- UF separation energy
- BT1 energy
- NT1 neutron separation energy
- NT1 pairing energy

- RT bond angle
- RT bond lengths
- RT chemical bonds
- RT coulomb energy
- RT covalence
- RT double bonds
- RT heitler-london theory
- RT interatomic forces
- RT intermolecular forces
- RT ionization potential
- RT mass defect
- RT nuclear forces
- RT work functions

**bioaccumulation**

*INIS: 2000-04-12; ETDE: 1976-05-17*

- USE biological accumulation

**BIOADSORBENTS**

*Biological materials with adsorptive capacity.*

- BT1 adsorbents
- RT adsorption
- RT decontamination
- RT fungi
- RT liquid wastes
- RT sorptive properties

**BIOASSAY**

1999-03-26

- UF biological testing
- UF testing (biological)
- NT1 immunoassay
- NT2 enzyme immunoassay
- NT2 radioimmunoassay
- RT carcinogen screening
- RT comparative evaluations
- RT performance testing
- RT plaque formation
- RT radioassay
- RT radioreceptor assay

**biocenoses**

- USE ecosystems

**biochemical activity**

- USE biochemistry

**BIOCHEMICAL FUEL CELLS**

2000-04-12

- \*BT1 fuel cells

**BIOCHEMICAL OXYGEN DEMAND**

*INIS: 1992-01-15; ETDE: 1975-10-28*

*The amount of oxygen necessary for the oxidative decomposition of a material by microorganisms.*

- UF biological oxygen demand
- UF bod
- RT aquatic ecosystems
- RT biochemistry
- RT chemical oxygen demand
- RT dissolved gases
- RT liquid wastes
- RT oxygen

**BIOCHEMICAL REACTION****KINETICS**

- \*BT1 reaction kinetics
- NT1 cpb
- RT biochemistry
- RT biological markers
- RT detoxification
- RT enzyme activity
- RT enzymes
- RT metabolic diseases
- RT metabolism
- RT protein engineering

**BIOCHEMISTRY**

- UF biochemical activity
- BT1 chemistry

**NT1** blood chemistry  
**NT1** cytochemistry  
*RT* antiandrogens  
*RT* biochemical oxygen demand  
*RT* biochemical reaction kinetics  
*RT* bioconversion  
*RT* biodegradation  
*RT* biological evolution  
*RT* biology  
*RT* bioluminescence  
*RT* biosynthesis  
*RT* coenzymes  
*RT* enzymes  
*RT* fermentation  
*RT* hormones  
*RT* metabolism  
*RT* receptors  
*RT* soil chemistry  
*RT* synergism  
*RT* vitamins

**BIOCONVERSION**

*INIS: 1991-09-23; ETDE: 1977-12-22*

*SF* microbial processes  
**NT1** aerobic digestion  
**NT1** anaerobic digestion  
**NT2** biogas process  
**NT1** biophotolysis  
**NT1** fermentation  
**NT2** vacuum fermentation  
*RT* biochemistry  
*RT* biomass  
*RT* biotechnology  
*RT* biothermegas process  
*RT* photolysis

**BIODEGRADATION**

*1991-08-09*

*SF* microbial processes  
**\*BT1** decomposition  
*RT* aerobic conditions  
*RT* anaerobic conditions  
*RT* biochemistry  
*RT* bioreactors  
*RT* detritus  
*RT* enzymatic hydrolysis

**BIODIESEL FUELS**

*2013-07-24*

*May be used for pure biodiesel and also for blends of biodiesel and petrodiesel.*

**\*BT1** biofuels  
**\*BT1** liquid fuels  
*RT* diesel fuels

**biodiversity**

*INIS: 1992-01-09; ETDE: 2002-06-13*

*USE* species diversity

**BIOELECTRICITY**

*INIS: 1983-09-06; ETDE: 1982-07-27*

*UF* neuron transmission  
**BT1** electricity  
*RT* electrophysiology  
*RT* nerve cells  
*RT* receptors  
*RT* stimuli

**BIOETHANOL**

*2009-04-22*

**\*BT1** ethanol  
**NT1** cellulosic ethanol  
*RT* alternative fuels  
*RT* biofuels  
*RT* ethanol fuels

**BIOFLAVONOIDS**

*UF* vitamin p  
**BT1** vitamins

**biofouling**

*INIS: 1984-04-04; ETDE: 1976-08-25*

*USE* biological fouling

**BIOFUELS**

*2004-08-30*

*Fuels obtained from biological raw materials.*

*UF* biomass fuels  
**\*BT1** alternative fuels  
**NT1** biodiesel fuels  
**NT1** wood fuels  
*RT* bioethanol  
*RT* biomass  
*RT* energy crops

**biogas**

*INIS: 2000-04-12; ETDE: 1983-03-23*

*USE* methane

**BIOGAS PROCESS**

*INIS: 1992-09-09; ETDE: 1975-10-28*

*An anaerobic digestion process for converting solid municipal waste and sewage into pipeline quality fuel gas and an odor free, stable solid.*

*UF* igt waste process  
**\*BT1** anaerobic digestion  
*RT* waste processing plants

**biogeocenoses**

*USE* ecosystems

**BIOGEOCHEMISTRY**

**\*BT1** geochemistry  
*RT* biological evolution  
*RT* biology  
*RT* geobotany  
*RT* mineral cycling

**BIOINTRUSION**

*INIS: 1985-07-23; ETDE: 1987-10-23*

*Breaching by plants or animals of natural or man-made barriers, e.g. at waste disposal sites. Not for HUMAN INTRUSION.*

*UF* intrusion (animals)  
*UF* intrusion (plants)  
*SF* intrusion  
*RT* environmental exposure pathway  
*RT* fences  
*RT* nuclear facilities  
*RT* physical protection  
*RT* radioactive waste disposal  
*RT* radioactive waste facilities

**BIOLOGICAL ACCUMULATION**

*INIS: 2000-04-12; ETDE: 1976-05-13*

*The abnormal or preferential accumulation of a material from the environment by a plant or animal.*

*UF* bioaccumulation  
*RT* biological localization

**BIOLOGICAL ADAPTATION**

*INIS: 1990-12-05; ETDE: 1975-10-28*

*(Prior to December 1990, this concept was indexed by ACCLIMATION.)*

*UF* acclimation  
*RT* behavior  
*RT* biological recovery  
*RT* biological variability  
*RT* bystander effects  
*RT* ecology  
*RT* environment  
*RT* heat-shock proteins  
*RT* sensitivity  
*RT* tolerance

**BIOLOGICAL AVAILABILITY**

*INIS: 1985-12-11; ETDE: 1981-09-22*

*A measure of the ease with which a substance can be picked up by and incorporated into an organism.*

*RT* environmental exposure pathway  
*RT* radionuclide migration  
*RT* retention  
*RT* uptake

**BIOLOGICAL DOSEMETERS**

**\*BT1** dosimeters  
*RT* biological indicators

**BIOLOGICAL EFFECTS**

**NT1** biological radiation effects  
**NT2** abscopal radiation effects  
**NT2** bystander effects  
**NT2** delayed radiation effects  
**NT2** early radiation effects  
**NT2** genetic radiation effects  
**NT2** local radiation effects  
**NT3** osteoradionecrosis  
**NT3** radiation burns  
**NT3** radiodermatitis  
**NT2** radiation injuries  
**NT3** osteoradionecrosis  
**NT3** radiation burns  
**NT3** radiodermatitis  
**NT1** genetic effects  
**NT2** genetic radiation effects  
*RT* acute exposure  
*RT* biology  
*RT* biophysics  
*RT* chronic exposure  
*RT* dose-response relationships  
*RT* molecular biology  
*RT* morphological changes  
*RT* prenatal exposure  
*RT* response modifying factors  
*RT* sensitivity  
*RT* structure-activity relationships  
*RT* survival curves  
*RT* synergism  
*RT* toxicity

**BIOLOGICAL EVOLUTION**

*1983-06-30*

*UF* speciation (biological)  
**BT1** evolution  
*RT* biochemistry  
*RT* biogeochemistry  
*RT* biological extinction  
*RT* biology  
*RT* biosynthesis  
*RT* fossils  
*RT* genetics  
*RT* geobotany  
*RT* molecular biology  
*RT* paleontology  
*RT* redundancy

**BIOLOGICAL EXTINCTION**

*INIS: 1994-09-29; ETDE: 1982-10-05*

*RT* animals  
*RT* biological evolution  
*RT* ecology  
*RT* endangered species  
*RT* paleontology  
*RT* plants  
*RT* populations  
*RT* species diversity

**BIOLOGICAL FATIGUE**

*UF* fatigue (biological)  
*RT* biological stress  
*RT* exercise

**biological fluids**

*INIS: 2000-04-12; ETDE: 1985-08-22*

*SEE* body fluids

**BIOLOGICAL FOULING**

INIS: 1994-07-01; ETDE: 1975-11-28  
(Until June 1994 this concept was indexed to FOULING.)

UF *biofouling*  
BT1 *fouling*  
RT *algae*  
RT *antifoulants*

**BIOLOGICAL FUNCTIONS**

INIS: 1976-01-28; ETDE: 1976-08-24  
*Coordinate with descriptors for the organs or functions involved.*

UF *function (biological)*  
RT *biological pathways*  
RT *dynamic function studies*  
RT *metabolism*  
RT *physiology*  
RT *structure-activity relationships*

**BIOLOGICAL HALF-LIFE**

UF *effective half-life*  
UF *half-life (biological)*  
UF *half-life (effective)*  
RT *body burden*  
RT *radionuclide kinetics*

**BIOLOGICAL HOT SPOTS**

UF *hot spots (biological)*  
RT *biological localization*  
RT *bone seekers*  
RT *radionuclide kinetics*  
RT *retention*

**BIOLOGICAL INDICATORS**

UF *indicator species*  
RT *biological dosimeters*  
RT *biological radiation effects*  
RT *blood cells*  
RT *blood plasma*  
RT *bone marrow cells*  
RT *chromosomal aberrations*  
RT *dose-response relationships*  
RT *early radiation effects*  
RT *mutagen screening*  
RT *nucleosides*  
RT *radiation doses*  
RT *radiation injuries*

**BIOLOGICAL LOCALIZATION**

*The concentration of a specific material or a specific effect in a definite location of a biological system.*

UF *localization (biological)*  
RT *banding techniques*  
RT *biological accumulation*  
RT *biological hot spots*  
RT *bone seekers*  
RT *radiation effects*  
RT *radioecological concentration*  
RT *radioisotopes*  
RT *radionuclide kinetics*  
RT *radiopharmaceuticals*  
RT *retention*  
RT *tissue distribution*

**BIOLOGICAL MARKERS**

INIS: 1984-08-24; ETDE: 1984-10-24  
UF *reference materials (bio mark)*  
RT *biochemical reaction kinetics*  
RT *biological pathways*  
RT *dynamic function studies*  
RT *metabolism*  
RT *tracer techniques*

**BIOLOGICAL MATERIALS**

UF *materials (biological)*  
BT1 *materials*  
NT1 *biological wastes*  
NT2 *feces*  
NT2 *manures*

NT2 *sewage sludge*  
NT2 *sweat*  
NT2 *urine*  
NT1 *body fluids*  
NT2 *amniotic fluid*  
NT2 *bile*  
NT2 *blood*  
NT3 *blood cells*  
NT4 *blood platelets*  
NT4 *erythrocytes*  
NT5 *reticulocytes*  
NT4 *leukocytes*  
NT5 *basophils*  
NT5 *eosinophils*  
NT5 *lymphocytes*  
NT5 *monocytes*  
NT5 *natural killer cells*  
NT5 *neutrophils*  
NT3 *blood plasma*  
NT4 *blood serum*  
NT2 *cerebrospinal fluid*  
NT2 *gastric acid*  
NT2 *lymph*  
NT2 *milk*  
NT2 *saliva*  
NT2 *sweat*  
NT2 *urine*

NT1 *forest litter*  
NT1 *plant sap*  
NT1 *tissue extracts*  
RT *animal tissues*  
RT *animals*  
RT *biomass*  
RT *environmental materials*  
RT *food*  
RT *homogenates*  
RT *plankton*  
RT *plants*

**BIOLOGICAL MODELS**

UF *models (biological)*  
RT *analog systems*  
RT *environmental exposure pathway*  
RT *functional models*  
RT *mathematical models*  
RT *microcosms*  
RT *mockup*  
RT *phantoms*

**biological oxygen demand**

INIS: 2000-04-12; ETDE: 1981-01-12  
USE *biochemical oxygen demand*

**BIOLOGICAL PATHWAYS**

INIS: 1978-11-24; ETDE: 1978-12-20  
UF *metabolic pathways*  
UF *mutagenic pathways*  
UF *mutation induction pathways*  
UF *repair pathways*  
NT1 *krebs cycle*  
RT *biological functions*  
RT *biological markers*  
RT *biological repair*  
RT *fermentation*  
RT *metabolic activation*  
RT *molecular biology*

**BIOLOGICAL RADIATION EFFECTS**

UF *radiobiological effects*  
BT1 *biological effects*  
BT1 *radiation effects*  
NT1 *abscopal radiation effects*  
NT1 *bystander effects*  
NT1 *delayed radiation effects*  
NT1 *early radiation effects*  
NT1 *genetic radiation effects*  
NT1 *local radiation effects*  
NT2 *osteoradionecrosis*  
NT2 *radiation burns*  
NT2 *radiodermatitis*

NT1 *radiation injuries*  
NT2 *osteoradionecrosis*  
NT2 *radiation burns*  
NT2 *radiodermatitis*  
RT *biological indicators*  
RT *biological stress*  
RT *effective radiation doses*  
RT *equivalent radiation doses*  
RT *oxygen enhancement ratio*  
RT *radiation chimeras*  
RT *radiobiology*  
RT *radioimmunology*  
RT *radioinduction*  
RT *radiological dispersal devices*  
RT *radiosensitivity*  
RT *rbe*  
RT *strand breaks*  
RT *teratogenesis*

**biological reactors**

INIS: 1986-05-23; ETDE: 1983-04-07  
USE *bioreactors*

**BIOLOGICAL RECOVERY**

UF *enhanced recovery (biological)*  
UF *recovery (biological)*  
UF *restoration*  
SF *recovery*  
NT1 *biological regeneration*  
NT1 *biological repair*  
NT2 *dna repair*  
NT3 *excision repair*  
NT2 *host-cell reactivation*  
NT2 *photoreactivation*  
NT1 *healing*  
NT1 *liquid holding recovery*  
RT *biological adaptation*  
RT *homeostasis*  
RT *post-irradiation therapy*  
RT *response modifying factors*  
RT *therapy*

**BIOLOGICAL REGENERATION**

UF *regenerating liver*  
UF *regeneration (biological)*  
BT1 *biological recovery*  
RT *animal tissues*  
RT *growth*  
RT *organs*  
RT *viability*

**biological remediation**

2002-01-11  
USE *bioremediation*

**BIOLOGICAL REPAIR**

UF *repair (biological)*  
BT1 *biological recovery*  
BT1 *repair*  
NT1 *dna repair*  
NT2 *excision repair*  
NT1 *host-cell reactivation*  
NT1 *photoreactivation*  
RT *biological pathways*  
RT *dna polymerases*  
RT *let*  
RT *molecular structure*  
RT *nucleic acids*  
RT *radiation injuries*  
RT *ultrastructural changes*

**biological research reactor janus**

1993-11-04  
USE *janus reactor*

**BIOLOGICAL SHIELDING**

BT1 *shielding*  
RT *radiation protection*

**BIOLOGICAL SHIELDS**

BT1 *shields*

**BIOLOGICAL SHOCK**

*For all types of shock in biology and medicine.*

- UF shock (biological)
- UF shock (medical)
- UF traumatic shock
- BT1 pathological changes
- RT anaphylaxis
- RT biological stress
- RT electric shock
- RT heart failure

**BIOLOGICAL STRESS**

- UF stress (biological)
- NT1 chemical stress
- NT1 heat stress
- RT anoxia
- RT biological fatigue
- RT biological radiation effects
- RT biological shock
- RT chronic exposure
- RT drought resistance
- RT exercise
- RT fasting
- RT heart failure
- RT hypertension
- RT hypotension
- RT physiology
- RT prenatal exposure

**biological testing**

- USE bioassay

**BIOLOGICAL VARIABILITY**

- UF variability (biological)
- NT1 genetic variability
- RT biological adaptation

**BIOLOGICAL WARFARE**

- INIS: 2000-04-12; ETDE: 1986-02-03
- BT1 warfare
- RT biological warfare agents

**BIOLOGICAL WARFARE AGENTS**

- INIS: 2000-04-12; ETDE: 1986-02-03
- BT1 weapons
- RT biological warfare

**BIOLOGICAL WASTES**

- UF municipal wastes (biological)
- UF radioactive biological wastes
- \*BT1 biological materials
- BT1 wastes
- NT1 feces
- NT1 manures
- NT1 sewage sludge
- NT1 sweat
- NT1 urine
- RT agricultural wastes
- RT excretion
- RT liquid wastes
- RT organic wastes
- RT pollutants
- RT solid wastes

**BIOLOGY**

- NT1 anatomy
- NT1 botany
  - NT2 geobotany
- NT1 cryobiology
- NT1 cytology
- NT1 genetics
- NT1 radiobiology
- NT1 zoology
- RT animal tissues
- RT animals
- RT biochemistry
- RT biogeochemistry
- RT biological effects
- RT biological evolution
- RT biosphere

- RT ecosystems
- RT medicine
- RT microorganisms
- RT organs
- RT plants
- RT symbiosis
- RT taxonomy

**BIOLUMINESCENCE**

INIS: 1999-09-07; ETDE: 1980-10-27

- \*BT1 luminescence
- RT biochemistry
- RT photochemistry

**BIOMASS**

INIS: 1996-11-13; ETDE: 1975-07-29

*Total weight of living organisms per unit area, or weight or volume of organisms per unit volume of habitat.*

- UF standing crop
- SF renewable resources
- \*BT1 renewable energy sources
- NT1 energy crops
- RT alternative fuels
- RT autohydrolysis
- RT bioconversion
- RT biofuels
- RT biological materials
- RT biomass plantations
- RT buffalo gourd
- RT cattails
- RT cellulose
- RT deforestation
- RT harvesting
- RT hemicellulose
- RT lignin
- RT oleoresins
- RT plankton
- RT plants
- RT solid fuels
- RT stand density
- RT sugar industry
- RT switchgrass
- RT wood
- RT wood fuels
- RT xylans

**BIOMASS CONVERSION PLANTS**

INIS: 1991-09-24; ETDE: 1979-10-23

*Plants converting biomass to fuel.*

- BT1 industrial plants
- RT chemical plants
- RT ethanol plants
- RT methanol plants
- RT synthetic fuels

**biomass fuels**

2004-08-30

- USE biofuels

**BIOMASS PLANTATIONS**

INIS: 1991-09-25; ETDE: 1976-09-14

*Terrestrial or marine areas for the growing and harvesting of energy crops for the collection of energy for conversion into fuels.*

- UF plantations (biomass)
- RT agriculture
- RT biomass
- RT coppices
- RT crops
- RT farms
- RT short rotation cultivation
- RT silviculture

**BIOMEDICAL RADIOGRAPHY**

See also **INDUSTRIAL RADIOGRAPHY**.

- UF angiography
- UF radiography (biomedical)
- UF x-ray radiography (biomedical)
- BT1 diagnostic techniques
- \*BT1 radiology

- NT1 fluoroscopy
- NT1 ionographic imaging
- NT1 osteodensitometry
- NT1 renography
- RT cat scanning
- RT compton scattering tomography
- RT computerized tomography
- RT contrast media
- RT emission computed tomography
- RT microradiography
- RT photon computed tomography
- RT photon transmission scanning
- RT proton computed tomography
- RT proton radiography
- RT radiological personnel
- RT sequential scanning
- RT tomography
- RT x radiation
- RT x-ray equipment
- RT x-ray radiography

**BIOMETRIC AUTHENTICATION**

2014-01-23

*Identification of humans by their distinctive and measurable characteristics or traits.*

- UF biometrics
- BT1 identification systems
- RT entry control systems
- RT physical protection
- RT security

**biometrics**

2014-01-23

- USE biometric authentication

**biomimetic processes**

INIS: 2000-04-12; ETDE: 1978-08-07

*Methods or procedures based on or derived from a living organism by imitation or mimicry. A biomimetic process is predicated on a translation or abstraction of a process used by a living organism for a similar end. (Prior to February 1997 this was a valid ETDE descriptor.)*

- SEE photosynthesis

**BIOPHOTOLYSIS**

INIS: 1992-02-18; ETDE: 1977-12-22

*The biologically mediated chemical breakdown of a compound using light as an energy source.*

- SF microbial processes
- BT1 bioconversion
- \*BT1 photolysis
- RT hydrogen production
- RT photosynthesis

**BIOPHYSICS**

2000-01-24

- BT1 physics
- RT biological effects
- RT compartments
- RT molecular biology
- RT radiation doses
- RT radiation effects
- RT radiation protection
- RT radiations
- RT radiobiology
- RT radionuclide kinetics

**BIOPSY**

- BT1 diagnostic techniques
- RT animal tissues
- RT autopsy

**BIOREACTORS**

INIS: 1986-05-23; ETDE: 1983-03-23

(Prior to March 1983 this concept in ETDE was indexed to **CHEMICAL REACTORS**.)

- UF biological reactors
- RT biodegradation

- RT chemical reactors
- RT oxidation
- RT waste water
- RT water treatment

**BIOREMEDIATION**

2002-01-11

- UF biological remediation
- BT1 remedial action
- RT microorganisms

**BIOSATELLITES**

- BT1 satellites

**BIOSPHERE**

- RT biology
- RT carbon sources
- RT ecosystems
- RT environment
- RT nature reserves
- RT populations

**BIOSYNTHESIS**

- UF translation (macromolecules)
- BT1 synthesis
- NT1 post-translation modification
- RT anabolism
- RT biochemistry
- RT biological evolution
- RT coenzymes
- RT enzyme induction
- RT enzymes
- RT gene regulation
- RT ligases
- RT metabolism
- RT molecular biology
- RT phosphoenolpyruvate
- RT photosynthesis
- RT precursor

**BIOT-SAVART LAW**

- RT magnetic fields

**BIOTECHNOLOGY**

INIS: 1995-11-15; ETDE: 1986-11-20

The application of the principles of technology or engineering to the life sciences.

- NT1 genetic engineering
- NT2 nucleic acid hybridization
- NT3 dna hybridization
- NT4 dna-cloning
- NT3 in-situ hybridization
- NT1 microarray technology
- RT artificial organs
- RT bioconversion
- RT cell cultures
- RT commercialization
- RT hybridomas
- RT immobilized cells
- RT molecular biology
- RT polymerase chain reaction
- RT protein engineering
- RT recombinant dna

**BIOHERMGAS PROCESS**

INIS: 2000-04-12; ETDE: 1981-12-14

- UF igt biothermal gasification
- \*BT1 gasification
- RT bioconversion
- RT methane

**biothermohol process**

INIS: 2000-04-12; ETDE: 1981-07-18

A method developed by IGT for converting biomass to liquid fuels by combining fermentation and thermochemical processes.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE fermentation
- USE thermochemical processes

**BIOTIN**

- UF vitamin h
- \*BT1 heterocyclic acids
- \*BT1 imidazoles
- \*BT1 organic sulfur compounds
- \*BT1 vitamin b group

**BIOTITE**

A widely distributed and important rock-forming mineral of the mica group.

- \*BT1 mica
- RT granites

**BIPHENYL**

- UF dowertherm
- \*BT1 aromatics
- RT benzidine

**biphenyldiamine**

- USE benzidine

**biphosphates**

INIS: 2000-04-12; ETDE: 1980-09-22  
(From July 1977 till February 1997 acid phosphates was used for this concept in ETDE.)

- USE phosphates

**BIPYRIDINES**

- UF methyl viologen
- \*BT1 pyridines

**BIR REACTOR**

INIS: 1986-12-09; ETDE: 1987-03-09

- \*BT1 enriched uranium reactors
- \*BT1 fast reactors
- \*BT1 pulsed reactors
- \*BT1 research reactors

**BIRCHES**

INIS: 1991-12-16; ETDE: 1979-03-27

- \*BT1 magnoliopsida
- \*BT1 trees

**BIRDS**

- UF bursa of fabricius
- \*BT1 vertebrates
- NT1 fowl
- NT2 chickens
- NT2 ducks
- NT2 geese
- NT1 pigeons
- RT eggs
- RT feathers
- RT newcastle disease

**BIREFRINGENCE**

INIS: 1994-07-01; ETDE: 1979-07-18  
(Until June 1994 this concept was indexed to REFRACTION.)

- BT1 refraction
- RT optical properties

**birmingham synchrotron**

1996-07-16

(Until July 1996 this was a valid descriptor.)

- USE synchrotrons

**birth**

- USE parturition

**bis(2-ethylhexyl)phosphoric acid**

- USE hdehp

**bis(chloroethyl)amine**

- USE nitrogen mustard

**bis(phenyloxazolyl)benzene**

2000-04-12

- USE popop

**biscay bay (france, spain)**

INIS: 1985-07-23; ETDE: 2002-06-13

- USE bay of biscay

**BISCAYNE BAY**

- \*BT1 atlantic ocean
- \*BT1 bays
- RT florida

**BISCHOFF PROCESS**

2000-04-12

An adjustable wet process that operates with alkaline additives to remove dust and sulfur dioxide from flue gas in a single operation giving savings in space and cost.

- \*BT1 lime-limestone wet scrubbing processes
- RT waste processing

**bisethylenedithiolotetrathiafulvalene**

INIS: 2000-04-12; ETDE: 1985-11-19

- USE bedt-ttf

**BISMUTH**

- \*BT1 metals

**BISMUTH 184**

2007-01-17

- \*BT1 alpha decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 185**

2007-01-17

- \*BT1 alpha decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes

**BISMUTH 186**

INIS: 1997-06-05; ETDE: 2000-08-02

- \*BT1 alpha decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 187**

2007-01-17

- \*BT1 alpha decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 188**

1980-11-07

- \*BT1 alpha decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei

**BISMUTH 189**

- \*BT1 alpha decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**BISMUTH 190**

- \*BT1 alpha decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

### BISMUTH 191

\*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

### BISMUTH 192

\*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### BISMUTH 193

\*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

### BISMUTH 194

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### BISMUTH 195

\*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### BISMUTH 196

\*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### BISMUTH 197

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### BISMUTH 198

\*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### BISMUTH 199

\*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### BISMUTH 200

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes

\*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### BISMUTH 201

\*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### BISMUTH 202

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-odd nuclei

### BISMUTH 203

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-even nuclei

### BISMUTH 204

\*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-odd nuclei

### BISMUTH 205

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei

### BISMUTH 206

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei

### BISMUTH 207

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 years living radioisotopes

### BISMUTH 207 TARGET

*INIS: 1978-01-16; ETDE: 1978-03-03*  
 BT1 targets

### BISMUTH 208

\*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 years living radioisotopes

### BISMUTH 208 TARGET

*INIS: 1979-09-18; ETDE: 1978-11-14*  
 BT1 targets

### BISMUTH 209

\*BT1 bismuth isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes

### BISMUTH 209 BEAMS

*1983-03-15*  
 \*BT1 ion beams

### BISMUTH 209 REACTIONS

*1980-11-07*  
 \*BT1 heavy ion reactions

### BISMUTH 209 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

### BISMUTH 210

*UF radium e*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 years living radioisotopes

### BISMUTH 210 TARGET

*INIS: 1976-10-29; ETDE: 1976-08-24*  
 BT1 targets

### BISMUTH 211

*UF actinium c*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei

### BISMUTH 212

*UF thorium c*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### BISMUTH 213

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### BISMUTH 214

*UF radium c*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### BISMUTH 215

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### BISMUTH 216

*INIS: 1989-05-29; ETDE: 1989-06-21*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### BISMUTH 217

*2007-01-17*  
 \*BT1 beta-minus decay radioisotopes

- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**BISMUTH 218**

2006-10-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**BISMUTH ADDITIONS**

*Alloys containing not more than 1% Bi are listed here.*

- \*BT1 bismuth alloys

**BISMUTH ALLOYS**

*Alloys containing more than 1% Bi.*

- BT1 alloys
- NT1 bismuth additions
- NT1 bismuth base alloys
  - NT2 alloy-bi50pb25cd12sn12
  - NT3 wood metal
- NT2 cerrobend alloys
- NT2 lead-bismuth eutectic
- NT2 lichtenberg alloy
- NT2 newton-metal
- NT1 rose-metal

**BISMUTH BASE ALLOYS**

- \*BT1 bismuth alloys
- NT1 alloy-bi50pb25cd12sn12
  - NT2 wood metal
- NT1 cerrobend alloys
- NT1 lead-bismuth eutectic
- NT1 lichtenberg alloy
- NT1 newton-metal

**BISMUTH BORIDES**

1996-07-16

(From July 1996 to February 2008 BISMUTH COMPOUNDS + BORIDES was used for this concept.)

- BT1 bismuth compounds
- \*BT1 borides

**BISMUTH BROMIDES**

- \*BT1 bismuth halides
- \*BT1 bromides

**BISMUTH CARBONATES**

1996-07-16

(From July 1996 to November 2007 BISMUTH COMPOUNDS + CARBONATES was used for this concept.)

- BT1 bismuth compounds
- \*BT1 carbonates

**BISMUTH CHLORIDES**

- \*BT1 bismuth halides
- \*BT1 chlorides

**BISMUTH COMPLEXES**

- BT1 complexes

**BISMUTH COMPOUNDS**

1996-07-16

- NT1 bismuth borides
- NT1 bismuth carbonates
- NT1 bismuth germanates
- NT1 bismuth halides
  - NT2 bismuth bromides
  - NT2 bismuth chlorides
  - NT2 bismuth fluorides
  - NT2 bismuth iodides
- NT1 bismuth hydrides
- NT1 bismuth hydroxides
- NT1 bismuth nitrates
- NT1 bismuth oxides
- NT1 bismuth phosphates

- NT1 bismuth selenides
- NT1 bismuth sulfates
- NT1 bismuth sulfides
- NT1 bismuth tellurides
- NT1 bismuth tungstates
- NT1 bismuth uranates

**BISMUTH FLUORIDES**

- \*BT1 bismuth halides
- \*BT1 fluorides

**bismuth germanate detectors**

INIS: 1984-08-24; ETDE: 1984-07-10

USE bgo detectors

**BISMUTH GERMANATES**

INIS: 1983-12-01; ETDE: 1983-07-07

- BT1 bismuth compounds
- \*BT1 germanates
- RT inorganic phosphors

**BISMUTH HALIDES**

2012-07-19

- BT1 bismuth compounds
- \*BT1 halides
- NT1 bismuth bromides
- NT1 bismuth chlorides
- NT1 bismuth fluorides
- NT1 bismuth iodides

**BISMUTH HYDRIDES**

1996-07-16

- BT1 bismuth compounds
- \*BT1 hydrides

**BISMUTH HYDROXIDES**

- BT1 bismuth compounds
- \*BT1 hydroxides

**BISMUTH IODIDES**

- \*BT1 bismuth halides
- \*BT1 iodides

**BISMUTH IONS**

- \*BT1 ions

**BISMUTH ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 bismuth 184
- NT1 bismuth 185
- NT1 bismuth 186
- NT1 bismuth 187
- NT1 bismuth 188
- NT1 bismuth 189
- NT1 bismuth 190
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- NT1 bismuth 192
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- NT1 bismuth 217
- NT1 bismuth 218

**BISMUTH NITRATES**

- BT1 bismuth compounds
- \*BT1 nitrates

**BISMUTH ORES**

- BT1 ores

**BISMUTH OXIDES**

- BT1 bismuth compounds
- \*BT1 oxides

**BISMUTH PHOSPHATES**

- BT1 bismuth compounds
- \*BT1 phosphates

**BISMUTH SELENIDES**

1979-09-18

- BT1 bismuth compounds
- \*BT1 selenides

**BISMUTH SULFATES**

- BT1 bismuth compounds
- \*BT1 sulfates

**BISMUTH SULFIDES**

- BT1 bismuth compounds
- \*BT1 sulfides

**BISMUTH TELLURIDES**

- BT1 bismuth compounds
- \*BT1 tellurides

**BISMUTH TUNGSTATES**

INIS: 1981-11-27; ETDE: 1977-07-23

- BT1 bismuth compounds
- \*BT1 tungstates

**BISMUTH URANATES**

2000-04-12

(From January 1993 to February 2008 BISMUTH COMPOUNDS + URANATES was used for this concept.)

- BT1 bismuth compounds
- \*BT1 uranates

**bisulfates**

INIS: 2000-04-12; ETDE: 1980-09-22

USE acid sulfates

**bitter spar**

INIS: 2000-04-12; ETDE: 1976-03-31

USE dolomite

**BITUMENS**

1996-06-26

- UF blown bitumens
- UF carburan
- UF oil sand oils
- UF tar sand oil
- \*BT1 tar
- NT1 asphalts
- NT1 coal tar
- NT1 thucholite
- RT asphaltite
- RT bituminous materials
- RT cold-water processes
- RT oil sands
- RT oil shales
- RT waste processing

**BITUMINOUS COAL**

1991-09-25

- SF soft coal
- \*BT1 black coal
- RT subbituminous coal

**BITUMINOUS MATERIALS**

1993-06-08

*Materials containing much organic, or at least carbonaceous, matter, mostly in the form of*



*tarry hydrocarbons which are usually described as bitumen.*

- \*BT1 carbonaceous materials
- NT1 kerogen
- NT1 oil sands
- NT1 oil shales
- NT2 black shales
- RT bitumens
- RT coal tar
- RT shale tar

## BL LACERTAE OBJECTS

- INIS: 1981-10-15; ETDE: 1980-03-29*
- BT1 cosmic radio sources
  - RT quasars
  - RT seyfert galaxies

## BLACK AMERICANS

- INIS: 2000-04-12; ETDE: 1981-05-18*
- UF *american blacks*
  - \*BT1 minority groups
  - RT sociology

## black chrome

- INIS: 2000-04-12; ETDE: 1978-10-23*  
(Prior to February 1997 this was a valid ETDE descriptor.)
- USE black coatings

## black clawson system

- INIS: 2000-04-12; ETDE: 1976-03-22*  
*Waste processing system for materials and energy recovery by wet processing of municipal wastes.*  
(Prior to September 1994, this was a valid ETDE descriptor.)
- USE waste processing

## BLACK COAL

- 1991-09-25*
- \*BT1 coal
  - NT1 anthracite
  - NT1 bituminous coal

## BLACK COATINGS

- INIS: 2000-04-12; ETDE: 1978-02-14*
- UF *black chrome*
  - BT1 coatings
  - NT1 black nickel
  - RT solar absorbers
  - RT spectrally selective surfaces

## BLACK DWARF STARS

- \*BT1 dwarf stars

## BLACK FOX-1 REACTOR

- INIS: 1976-07-06; ETDE: 1976-03-11*  
*Public Service Co. of Oklahoma, Inola, Oklahoma, USA. Canceled in 1982 before construction began.*
- \*BT1 bwr type reactors
  - RT ge standard reactor

## BLACK FOX-2 REACTOR

- INIS: 1976-07-06; ETDE: 1976-03-11*  
*Public Service Co. of Oklahoma, Inola, Oklahoma, USA. Canceled in 1982 before construction began.*
- \*BT1 bwr type reactors
  - RT ge standard reactor

## BLACK HOLES

- RT accretion disks
- RT cosmology
- RT gravitational collapse
- RT high-energy limit
- RT holographic principle
- RT kerr field
- RT schwarzschild radius
- RT stars
- RT white holes

## BLACK LIQUIDS

- INIS: 2000-04-12; ETDE: 1978-08-07*
- \*BT1 liquids
  - RT heat transfer fluids
  - RT solar absorbers
  - RT solar collectors

## black liquors

- INIS: 2000-03-24; ETDE: 1993-03-04*
- USE spent liquors

## black lung disease

- INIS: 2000-04-12; ETDE: 1982-02-08*
- USE pneumoconioses

## BLACK NICKEL

- INIS: 2000-04-12; ETDE: 1978-12-11*
- \*BT1 black coatings
  - RT nickel
  - RT solar absorbers

## BLACK NUCLEUS MODEL

- \*BT1 nuclear models

## BLACK SANDS

- BT1 minerals
- BT1 sand
- RT magnetite
- RT thorianite
- RT thorite
- RT uraninites

## BLACK SEA

- \*BT1 seas
- RT bulgaria
- RT danube river
- RT dneiper river
- RT moldova
- RT republic of georgia
- RT romania
- RT turkey
- RT ukraine

## BLACK SHALES

- INIS: 1992-07-22; ETDE: 1976-12-15*
- UF *antrim shales*
  - UF *devonian shales*
  - \*BT1 oil shales
  - RT chattanooga formation
  - RT hytort process

## BLACKBODY RADIATION

- UF *universal blackbody radiation*
- SF *mean radiant temperature*
- \*BT1 electromagnetic radiation
- RT emissivity
- RT planck radiation formula
- RT thermal radiation

## blackouts

- 1982-12-03*
- USE outages

## BLADDER

- \*BT1 urinary tract
- RT pelvis

## blades (compressor)

- INIS: 2000-04-12; ETDE: 1975-10-01*
- USE compressor blades

## blades (turbines)

- USE turbine blades

## BLAHUTOVICE-1 REACTOR

- INIS: 1988-04-15; ETDE: 1988-05-23*  
*North Moravia, Czech Republic.*
- \*BT1 wwer type reactors

## BLAIR MODEL

- UF *blair phase rule*
- RT elastic scattering

## blair phase rule

- USE blair model

## BLANKENBECLER-SUGAR EQUATIONS

- \*BT1 integral equations
- RT bethe-salpeter equation
- RT lippmann-schwinger equation
- RT particle production
- RT scattering

## blankets (breeding)

- USE breeding blankets

## blankets (gas)

- INIS: 1976-07-30; ETDE: 2002-06-13*
- USE gas blankets

## BLASCON DEVICES

- Spherical configuration using swirling lithium to create a vortex for injection of fusion fuel for laser ignition.*
- \*BT1 closed plasma devices

## BLAST EFFECTS

- RT explosions
- RT landslides
- RT seismic effects
- RT shock waves

## BLAST FURNACES

- BT1 furnaces

## blasting

- INIS: 2000-04-12; ETDE: 1978-04-27*
- USE explosive fracturing

## blasts

- USE explosions

## BLATT-BIEDENHARN FORMALISM

- RT angular distribution

## BLAYAIS-1 REACTOR

- 1995-10-02*  
*Electricite de France, Braud-et-Saint-Louis, Gironde, France*
- \*BT1 pwr type reactors

## BLAYAIS-2 REACTOR

- 2010-08-17*  
*Electricite de France, Braud-et-Saint-Louis, Gironde, France*
- \*BT1 pwr type reactors

## BLAYAIS-3 REACTOR

- 2010-08-17*  
*Electricite de France, Braud-et-Saint-Louis, Gironde, France*
- \*BT1 pwr type reactors

## BLAYAIS-4 REACTOR

- 2010-08-17*  
*Electricite de France, Braud-et-Saint-Louis, Gironde, France*
- \*BT1 pwr type reactors

## BLEACHING

- RT coloration

## blenders

- INIS: 2000-04-12; ETDE: 1976-01-23*
- USE mixers

## blending

- USE mixing

## BLEOMYCIN

- \*BT1 antibiotics
- \*BT1 antimetabolic drugs
- \*BT1 antineoplastic drugs
- RT neoplasms
- RT therapy

**BLIND RIVER**

\*BT1 rivers

**BLISTERS**

INIS: 1976-10-07; ETDE: 1976-11-01

Resulting near or on the surface of materials due to external physical or chemical effects.

RT bubbles  
 RT heating  
 RT radiation effects  
 RT surfaces  
 RT swelling

**BLIZZARD DEPOSIT**

INIS: 1981-02-27; ETDE: 1981-03-13

\*BT1 uranium deposits  
 RT british columbia  
 RT uranium ores

**BLOCH EQUATIONS**

BT1 equations  
 RT magnetic resonance

**BLOCH THEORY**

RT quantum mechanics

**BLOCH WALL**

1976-02-05

Transition layer with finite thickness of a few hundred lattice constants, between adjacent ferromagnetic domains.

BT1 domain structure

**blocking**

USE channeling

**blocking layer**

INIS: 2000-04-12; ETDE: 1980-03-04

USE depletion layer

**BLOCKING OSCILLATORS**

\*BT1 oscillators  
 RT pulse generators

**BLOOD**

\*BT1 body fluids  
 NT1 blood cells  
 NT2 blood platelets  
 NT2 erythrocytes  
 NT3 reticulocytes  
 NT2 leukocytes  
 NT3 basophils  
 NT3 eosinophils  
 NT3 lymphocytes  
 NT3 monocytes  
 NT3 natural killer cells  
 NT3 neutrophils

NT1 blood plasma  
 NT2 blood serum  
 RT blood circulation  
 RT blood count  
 RT blood formation  
 RT blood groups  
 RT bone marrow  
 RT connective tissue  
 RT extracorporeal irradiation  
 RT hematologic agents  
 RT hematologic diseases  
 RT hemocyanin  
 RT hemorrhage  
 RT hemosiderin  
 RT homeostasis  
 RT respiration  
 RT septicemia  
 RT transfusions  
 RT uremia

**BLOOD-BRAIN BARRIER**

RT homeostasis  
 RT physiology

**BLOOD CELLS**

\*BT1 blood  
 NT1 blood platelets  
 NT1 erythrocytes  
 NT2 reticulocytes  
 NT1 leukocytes  
 NT2 basophils  
 NT2 eosinophils  
 NT2 lymphocytes  
 NT2 monocytes  
 NT2 natural killer cells  
 NT2 neutrophils  
 RT biological indicators  
 RT blood count  
 RT bone marrow

**BLOOD CHEMISTRY**

INIS: 1982-06-09; ETDE: 1980-06-23

\*BT1 biochemistry  
 RT blood coagulation factors  
 RT blood plasma  
 RT blood serum  
 RT hemic diseases  
 RT pbi  
 RT qualitative chemical analysis  
 RT quantitative chemical analysis

**BLOOD CIRCULATION**

UF cardiac output  
 UF circulation (blood)  
 RT blood  
 RT blood flow  
 RT blood pressure  
 RT cardiography  
 RT cardiovascular system  
 RT emboli  
 RT heart  
 RT ischemia  
 RT kidneys  
 RT lungs  
 RT mechanical heart  
 RT myocardial infarction  
 RT parabiosis  
 RT physiology  
 RT spleen  
 RT vasoconstriction  
 RT vasodilation

**blood clotting**

USE blood coagulation

**BLOOD COAGULATION**

UF blood clotting  
 UF coagulation (blood)  
 RT anticoagulants  
 RT blood coagulation factors  
 RT blood platelets  
 RT blood serum  
 RT coalescence  
 RT fibrinolysin  
 RT hematologic agents  
 RT hematomas  
 RT hemophilia  
 RT hemorrhage  
 RT thrombosis

**BLOOD COAGULATION FACTORS**

\*BT1 proteins  
 NT1 fibrin  
 NT1 fibrinogen  
 NT1 kallikrein  
 NT1 plasminogen  
 NT1 prothrombin  
 NT1 thrombin  
 NT1 thromboplastin  
 NT1 urokinase  
 RT blood chemistry  
 RT blood coagulation  
 RT blood platelets  
 RT calcium

RT fibrinolysin  
 RT folic acid  
 RT vitamin k

**BLOOD COUNT**

RT blood  
 RT blood cells

**blood diseases**

USE hemic diseases

**BLOOD FLOW**

UF flow (blood)  
 RT blood circulation  
 RT blood vessels  
 RT emboli  
 RT organs

**BLOOD FORMATION**

UF hematopoiesis  
 UF hemopoiesis  
 SF leukocytin  
 NT1 erythropoiesis  
 NT1 leukopoiesis  
 NT1 thrombopoiesis  
 RT blood  
 RT bone marrow  
 RT bone marrow cells  
 RT cell differentiation  
 RT hematopoietic system  
 RT spleen  
 RT spleen colony formation  
 RT stem cells

**BLOOD GROUPS**

RT blood  
 RT erythrocytes  
 RT hemagglutinins  
 RT transfusions

**BLOOD PLASMA**

UF plasma (blood)  
 \*BT1 blood  
 NT1 blood serum  
 RT biological indicators  
 RT blood chemistry  
 RT blood-plasma clearance  
 RT blood substitutes  
 RT chylomicrons  
 RT complement  
 RT proteins

**BLOOD-PLASMA CLEARANCE**

UF plasma clearance  
 BT1 clearance  
 RT blood plasma  
 RT diagnostic techniques  
 RT pbi  
 RT radionuclide administration  
 RT radionuclide kinetics  
 RT thyroid  
 RT time dependence

**BLOOD PLATELETS**

UF thrombocytes  
 \*BT1 blood cells  
 RT blood coagulation  
 RT blood coagulation factors  
 RT thrombopoiesis

**BLOOD PRESSURE**

RT antihypertensive agents  
 RT arteries  
 RT blood circulation  
 RT cardiography  
 RT cardiovascular system  
 RT hypertension  
 RT hypotension  
 RT renin

**BLOOD SERUM**

UF hsa

UF human serum albumin  
 UF serum (blood)  
 \*BT1 blood plasma  
 RT blood chemistry  
 RT blood coagulation  
 RT immune serums

**BLOOD SUBSTITUTES**

2000-05-24

UF plasma substitutes  
 \*BT1 hematologic agents  
 NT1 dextran  
 NT1 pectins  
 NT1 pvp  
 RT blood plasma  
 RT coagulants  
 RT fibrinolytic agents  
 RT hematinics  
 RT post-irradiation therapy  
 RT transfusions

**BLOOD VESSELS**

UF angiography  
 BT1 cardiovascular system  
 \*BT1 organs  
 NT1 arteries  
 NT2 aorta  
 NT2 carotid arteries  
 NT2 cerebral arteries  
 NT2 coronaries  
 NT1 capillaries  
 NT1 veins  
 NT2 portal system  
 RT angiogenesis  
 RT angiomas  
 RT blood flow  
 RT bypasses  
 RT cardiovascular agents  
 RT emboli  
 RT hemorrhage  
 RT ischemia  
 RT radioembolization  
 RT telangiectasis  
 RT thrombosis  
 RT vascular diseases  
 RT vasoconstriction  
 RT vasoconstrictors  
 RT vasodilation  
 RT vasodilators

**BLOWDOWN**

RT loss of coolant

**BLOWERS**

UF fans  
 RT automotive accessories  
 RT bellows  
 RT ceiling fans  
 RT compressors  
 RT pumps  
 RT reactor cooling systems  
 RT superchargers

**blown bitumens**

INIS: 2000-04-12; ETDE: 1976-02-19

A special type of bitumen produced by blowing air, under controlled conditions, through hot bitumen.

(Prior to April 1994, this was a valid ETDE descriptor.)

USE bitumens

**BLOWOFF**

2000-04-12

Separation of a flame from a burner; material, either solid, liquid, or vapor, ejected from a sample upon absorption of high energy in a short period of time.

RT burners  
 RT evaporation  
 RT flame propagation

RT flames  
 RT flashback

**BLOWOUT PREVENTERS**

INIS: 1993-01-29; ETDE: 1976-03-11

Stacks or assemblies of heavy-duty valves attached to the top of the casing to control well pressure.

UF bop  
 \*BT1 drilling equipment  
 RT blowouts  
 RT natural gas wells  
 RT oil wells

**BLOWOUTS**

1991-09-25

The high-pressure, sometimes violent, uncontrolled ejection of water, gas, or oil from a borehole.

BT1 accidents  
 RT blowout preventers  
 RT oil wells  
 RT wells

**blowup (particle beams)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE beam dynamics

**blue-green algae**

INIS: 1983-02-03; ETDE: 1983-03-07

USE cyanobacteria

**BLUE HILLS-1 REACTOR**

Gulf States Utilities Co., Newton, Texas, USA.

Canceled in 1978 before construction began.

\*BT1 pwr type reactors

**BLUE HILLS-2 REACTOR**

Gulf States Utilities Co., Newton, Texas, USA.

Canceled in 1978 before construction began.

\*BT1 pwr type reactors

**BLUE STELLAR OBJECTS**

\*BT1 quasars

**BLUEBERRIES**

INIS: 1993-07-13; ETDE: 1984-12-26

\*BT1 berries

**bmi reactor**

USE brr reactor

**BN-1200 REACTOR**

2018-06-19

Sodium-cooled fast breeder reactor under development in Russia.

\*BT1 lmfr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors

**BN-1600 REACTOR**

INIS: 1979-09-18; ETDE: 1979-10-23

Russian Federation.

\*BT1 lmfr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors

**BN-350 REACTOR**

Mangyshlak, Shevchenko, Kazakhstan.

UF fort shevchenko reactor  
 \*BT1 desalination reactors  
 \*BT1 lmfr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors  
 RT enriched uranium reactors  
 RT plutonium reactors

**bn-600 reactor**

USE beloyarsk-3 reactor

**bn-800 reactor**

2018-06-19

USE beloyarsk-4 reactor

**BNFL**

INIS: 1980-04-02; ETDE: 1980-05-06

UF british nuclear fuels limited  
 \*BT1 united kingdom organizations

**BNL**

UF brookhaven national laboratory  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
 RT new york  
 RT phenix detector  
 RT phobos detector  
 RT star detector

**bnl reactor**

2000-04-12

(Prior to June 1994, this was a valid ETDE descriptor.)

SEE graphite moderated reactors  
 SEE research reactors  
 SEE zero power reactors

**bnps-1 reactor**

USE beloyarsk-1 reactor

**bnps-2 reactor**

USE beloyarsk-2 reactor

**bod**

INIS: 2000-04-12; ETDE: 1975-10-28

USE biochemical oxygen demand

**BODY**

See also PLANT TISSUES.

(Prior to March 1997 BODY AREAS was a valid ETDE descriptor.)

UF body areas

NT1 abdomen  
 NT1 animal tissues  
 NT2 bone marrow  
 NT2 connective tissue  
 NT3 adipose tissue  
 NT3 bone tissues  
 NT4 antlers  
 NT4 trabecular bone  
 NT3 cartilage  
 NT3 fascia  
 NT3 ligaments  
 NT3 tendons  
 NT2 endothelium  
 NT2 epithelium  
 NT3 epidermis  
 NT2 nerve tissue  
 NT2 perfused tissues  
 NT2 reticuloendothelial system  
 NT1 chest  
 NT2 mediastinum  
 NT1 head  
 NT2 face  
 NT3 eyes  
 NT4 conjunctiva  
 NT4 cornea  
 NT4 crystalline lens  
 NT4 lacrimal ducts  
 NT4 retina  
 NT4 uvea  
 NT3 nose  
 NT1 hematopoietic system  
 NT2 bone marrow  
 NT1 limbs  
 NT2 arms  
 NT3 hands  
 NT4 fingers  
 NT2 legs  
 NT3 feet  
 NT1 neck  
 NT1 organs  
 NT2 blood vessels  
 NT3 arteries

**NT4** aorta  
**NT4** carotid arteries  
**NT4** cerebral arteries  
**NT4** coronaries  
**NT3** capillaries  
**NT3** veins  
**NT4** portal system  
**NT2** bone marrow  
**NT2** brain  
**NT3** cerebellum  
**NT3** cerebrum  
**NT4** cerebral cortex  
**NT3** hippocampus  
**NT3** hypothalamus  
**NT3** olfactory bulbs  
**NT3** thalamus  
**NT2** critical organs  
**NT2** diaphragm  
**NT2** esophagus  
**NT2** female genitals  
**NT3** ovaries  
**NT3** uterus  
**NT2** glands  
**NT3** endocrine glands  
**NT4** adrenal glands  
**NT4** pancreas  
**NT4** parathyroid glands  
**NT4** pituitary gland  
**NT4** thyroid  
**NT3** liver  
**NT3** mammary glands  
**NT3** pineal gland  
**NT3** prostate  
**NT3** salivary glands  
**NT2** heart  
**NT3** myocardium  
**NT3** pericardium  
**NT2** intestines  
**NT3** large intestine  
**NT4** rectum  
**NT3** small intestine  
**NT2** kidneys  
**NT3** glomeruli  
**NT3** tubules  
**NT2** lungs  
**NT2** male genitals  
**NT3** prostate  
**NT3** testes  
**NT2** perfused organs  
**NT2** pharynx  
**NT2** sense organs  
**NT3** auditory organs  
**NT3** eyes  
**NT4** conjunctiva  
**NT4** cornea  
**NT4** crystalline lens  
**NT4** lacrimal ducts  
**NT4** retina  
**NT4** uvea  
**NT3** taste buds  
**NT3** vestibular apparatus  
**NT2** skeleton  
**NT3** bone joints  
**NT3** exoskeleton  
**NT3** femur  
**NT3** skull  
**NT4** jaw  
**NT3** tibia  
**NT3** vertebrae  
**NT2** skin  
**NT3** epidermis  
**NT3** hair  
**NT3** hair follicles  
**NT3** nails  
**NT2** spleen  
**NT2** stomach  
**NT2** thymus  
**NT2** tongue  
**NT2** urinary tract

**NT3** bladder  
**NT3** ureters  
**NT1** pelvis  
*RT* anatomy  
*RT* body composition  
*RT* retention  
*RT* sinuses  
*RT* whole-body counting  
*RT* whole-body irradiation

**body areas**

1999-04-06

(Until April 1999 this was a valid descriptor.)

USE body

**BODY BURDEN**

*RT* biological half-life  
*RT* contamination  
*RT* icrp critical group  
*RT* maximum permissible body burden  
*RT* pollution  
*RT* radioactivity  
*RT* radionuclide kinetics

**body centered cubic**

USE bcc lattices

**BODY COMPOSITION**

**NT1** bone mineral density  
*RT* body  
*RT* quantitative chemical analysis

**BODY FLUIDS**

*UF* aqueous humor  
*SF* biological fluids  
**\*BT1** biological materials  
**NT1** amniotic fluid  
**NT1** bile  
**NT1** blood  
**NT2** blood cells  
**NT3** blood platelets  
**NT3** erythrocytes  
**NT4** reticulocytes  
**NT3** leukocytes  
**NT4** basophils  
**NT4** eosinophils  
**NT4** lymphocytes  
**NT4** monocytes  
**NT4** natural killer cells  
**NT4** neutrophils  
**NT2** blood plasma  
**NT3** blood serum  
**NT1** cerebrospinal fluid  
**NT1** gastric acid  
**NT1** lymph  
**NT1** milk  
**NT1** saliva  
**NT1** sweat  
**NT1** urine  
*RT* edema  
*RT* excretion  
*RT* feces  
*RT* secretion

**BODY TEMPERATURE**

*UF* temperature (body)  
**NT1** hyperthermia  
**NT1** hypothermia  
*RT* fever  
*RT* heat stress  
*RT* physiology  
*RT* thermoregulation

**body waves p (seismic)**

1980-05-14

USE seismic p waves

**body waves s (seismic)**

1980-05-14

USE seismic s waves

**BOGHEAD COAL**

INIS: 2000-04-12; ETDE: 1978-05-03

**\*BT1** sapropelic coal  
**NT1** torbanite

**BOGOLYUBOV METHOD**

**BT1** calculation methods  
*RT* superconductivity

**bogolyubov theory**

USE bbgky equation

**BOGOLYUBOV TRANSFORMATION**

*UF* bogolyubov-valatin relation  
**\*BT1** canonical transformations  
*RT* hartree-fock-bogolyubov theory

**bogolyubov-valatin relation**

USE bogolyubov transformation

**bogs**

INIS: 1976-10-29; ETDE: 1979-05-03

USE swamps

**BOHM CRITERION**

*UF* bohm-gross method  
*UF* bohm theory  
*RT* plasma

**bohm-gross method**

USE bohm criterion

**bohm-pines theory**

USE pines-bohm theory

**bohm theory**

USE bohm criterion

**bohr approximation**

USE nilsson-mottelson model

**bohr-mottelson model**

USE nilsson-mottelson model

**bohr-sommerfeld quantum theory**

USE bohr theory

**BOHR THEORY**

*UF* bohr-sommerfeld quantum theory  
*RT* atomic models

**BOHR-WHEELER THEORY**

*RT* fission  
*RT* nuclear models

**BOHRIUM**

2004-03-19

(Prior to March 2004 ELEMENT 107 was used for this element.)

*UF* eka-rhenium  
*UF* element 107  
*UF* unnilseptium  
**\*BT1** transactinide elements

**BOHRIUM 260**

2007-01-19

**\*BT1** alpha decay radioisotopes  
**\*BT1** bohrium isotopes  
**\*BT1** heavy nuclei  
**\*BT1** microseconds living radioisotopes  
**\*BT1** odd-odd nuclei

**BOHRIUM 261**

2004-03-19

(Prior to March 2004 ELEMENT 107 261 was used for this concept.)

*UF* element 107 261  
**\*BT1** alpha decay radioisotopes  
**\*BT1** bohrium isotopes  
**\*BT1** heavy nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** odd-even nuclei  
**\*BT1** spontaneous fission radioisotopes

**BOHRIUM 262**

2004-03-19

(Prior to March 2004 ELEMENT 107 262 was used for this concept.)

*UF element 107 262*

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**BOHRIUM 263**

2007-01-19

- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei

**BOHRIUM 264**

2004-03-19

(Prior to March 2004 ELEMENT 107 264 was used for this concept.)

*UF element 107 264*

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**BOHRIUM 265**

2006-06-12

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**BOHRIUM 266**

2007-01-19

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**BOHRIUM 267**

2007-01-19

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**BOHRIUM 271**

2006-09-04

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**BOHRIUM 272**

2007-01-19

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**BOHRIUM 273**

2007-01-19

- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**BOHRIUM 274**

2007-01-19

- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**BOHRIUM 275**

2007-01-19

- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BOHRIUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 107 COMPOUNDS was used for this concept.)

*UF element 107 compounds*

- \*BT1 transactinide compounds

**BOHRIUM IONS**

2018-01-24

- \*BT1 ions

**BOHRIUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 107 ISOTOPES was used for this concept.)

*UF element 107 isotopes*

- BT1 isotopes
- NT1 bohrium 260
- NT1 bohrium 261
- NT1 bohrium 262
- NT1 bohrium 263
- NT1 bohrium 264
- NT1 bohrium 265
- NT1 bohrium 266
- NT1 bohrium 267
- NT1 bohrium 271
- NT1 bohrium 272
- NT1 bohrium 273
- NT1 bohrium 274
- NT1 bohrium 275

**bohunice 1**

2017-10-25

- USE bohunice v-1 reactor

**bohunice 2**

2017-10-25

- USE bohunice v-1 reactor

**bohunice 3**

2017-10-25

- USE bohunice v-2 reactor

**bohunice 4**

2017-10-25

- USE bohunice v-2 reactor

**BOHUNICE A-1 REACTOR***Trnava, Slovakia.**UF a-1 reactor (bohunice)**UF heavy water gas cooled reactor of slovakia**UF ks-150 reactor*

- \*BT1 carbon dioxide cooled reactors
- \*BT1 hwgr type reactors
- \*BT1 natural uranium reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**BOHUNICE A-2 REACTOR***Trnava, Slovakia.**UF a-2 reactor (bohunice)*

- \*BT1 hwgr type reactors
- \*BT1 natural uranium reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**bohunice plant**

2004-12-15

- USE bohunice radioactive waste processing center

**BOHUNICE RADIOACTIVE WASTE PROCESSING CENTER**

2004-12-15

*UF bohunice plant**UF bsc rao*

- \*BT1 radioactive waste facilities
- RT intermediate-level radioactive wastes
- RT low-level radioactive wastes
- RT manivier canal
- RT slovakia

**BOHUNICE V-1 REACTOR***Trnava, Slovakia. Both units where permanently shutdown in 2006 and 2008.**UF bohunice 1**UF bohunice 2**UF v-1 reactor (bohunice)*

- \*BT1 wwer type reactors

**BOHUNICE V-2 REACTOR***INIS: 1979-05-28; ETDE: 1979-09-06**Trnava, Slovakia. Permanent shutdown since 2008.**UF bohunice 3**UF bohunice 4**UF v-2 reactor (bohunice)*

- \*BT1 wwer type reactors

**BOILER FUELS***INIS: 1993-02-15; ETDE: 1981-01-30*

(From May 1975 to January 1981 BOILER FUEL was a valid ETDE descriptor.)

- BT1 fuels
- RT boilers
- RT fossil-fuel power plants
- RT steam generators

**BOILERS**

- NT1 condensing boilers
- NT1 fluidized bed boilers
- NT1 refuse-fueled boilers
- NT1 vapor generators
- NT2 steam generators
- NT1 waste heat boilers
- RT boiler fuels
- RT boiling
- RT central receivers
- RT combustion control
- RT deaerators
- RT district heating
- RT feedwater
- RT heat production
- RT heat transfer
- RT reactor cooling systems
- RT stokers

**BOILING**

- BT1 phase transformations
- NT1 film boiling
- NT1 nucleate boiling
- NT2 departure nucleate boiling
- NT1 pool boiling
- NT1 subcooled boiling
- NT1 transition boiling
- RT boilers
- RT boiling detection
- RT bubble growth
- RT evaporation
- RT heat transfer
- RT heating
- RT steam generators
- RT two-phase flow

**BOILING DETECTION**

- BT1 detection
- RT boiling

RT bubble growth  
 RT bubbles  
 RT foams  
 RT reactor control systems  
 RT reactor safety  
 RT voids

### **boiling heavy water cooled and moderated reactor**

1993-11-04

USE bhw type reactors

### **boiling nuclear superheater reactor**

1993-11-04

USE bonus reactor

### **BOILING POINTS**

\*BT1 transition temperature  
 RT azeotrope  
 RT supercooling  
 RT superheating

### **boiling reactor experiment 1**

USE borax-1 reactor

### **boiling reactor experiment 2**

USE borax-2 reactor

### **boiling reactor experiment 3**

USE borax-3 reactor

### **boiling reactor experiment 4**

USE borax-4 reactor

### **boiling reactor experiment 5**

2000-04-12

USE borax-5 reactor

### **boiling water cooled and moderated reactor**

USE bwr type reactors

### **BOLIVIA**

BT1 developing countries  
 \*BT1 south america  
 NT1 chacaltaya  
 RT andes

### **BOLL WEEVIL**

UF *anthonomus grandis*  
 \*BT1 beetles  
 RT cotton plants

### **BOLLWORM**

UF *heliolithis*  
 \*BT1 moths  
 RT cotton plants

### **BOLOMETERS**

BT1 measuring instruments  
 RT temperature measurement  
 RT thermometers

### **BOLSA CHICA-1 REACTOR**

2000-04-12

USA.

\*BT1 bwr type reactors

### **BOLSA CHICA-2 REACTOR**

2000-04-12

USA.

\*BT1 bwr type reactors

### **BOLTED JOINTS**

BT1 joints

### **bolting**

USE fastening

### **bolts**

ETDE: 2002-06-13

USE fasteners

### **boltwoodite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE silicate minerals  
 USE uranium minerals

### **boltzmann approximation**

USE boltzmann statistics

### **boltzmann collision integral**

USE boltzmann equation

### **BOLTZMANN EQUATION**

1996-07-18

UF *boltzmann collision integral*  
 UF *boltzmann transport equation*  
 UF *born-green-yvon equation*  
 UF *maxwell-boltzmann equation*  
 \*BT1 integro-differential equations  
 \*BT1 kinetic equations  
 \*BT1 partial differential equations  
 RT collision integrals  
 RT collision probability method  
 RT gases  
 RT p1-approximation  
 RT p2-approximation  
 RT p3-approximation  
 RT statistical mechanics  
 RT transport theory

### **boltzmann event**

INIS: 2000-04-12; ETDE: 1983-11-23

USE atmospheric explosions  
 USE plumbbob project

### **boltzmann factor**

USE boltzmann statistics

### **BOLTZMANN STATISTICS**

UF *boltzmann approximation*  
 UF *boltzmann factor*  
 UF *maxwell-boltzmann distribution*  
 UF *maxwell-boltzmann statistics*  
 UF *maxwell distribution*  
 UF *maxwell statistics*  
 UF *maxwell velocity distribution*  
 RT distribution  
 RT h theorem  
 RT statistical mechanics

### **boltzmann transport equation**

USE boltzmann equation

### **BOLTZMANN-VLASOV EQUATION**

1995-09-06

UF *collisionless boltzmann equation*  
 UF *liouville equation*  
 UF *vlasov equation*  
 UF *vlasov instability*  
 UF *vlasov-maxwell equations*  
 SF *maxwell-boltzmann system*  
 \*BT1 partial differential equations  
 NT1 plasma fluid equations  
 RT plasma  
 RT quasilinear problems  
 RT transport theory

### **bom-erda process**

INIS: 2000-04-12; ETDE: 1978-04-27

*This wet oxidative process employs air in place of oxygen and operates at higher temperature and pressure than the Ledgemont process. Ferric and ferrous sulfates and sulfuric acid are generated.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

### **bom refining districts**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to September 1994, this was a valid ETDE descriptor.)

USE petroleum refineries

### **BOMB REDUCTION**

\*BT1 reduction

### **BOMBS**

INIS: 2000-04-12; ETDE: 1984-09-05

*Explosive devices fused to detonate under specified conditions.*

BT1 weapons  
 RT overpressure

### **bombyx**

USE silkworm

### **BOND ANGLE**

UF *angle (bond)*  
 RT binding energy  
 RT chemical bonds

### **BOND LENGTHS**

1999-07-20

\*BT1 length  
 RT binding energy  
 RT chemical bonds  
 RT molecular structure

### **BONDING**

*For joining metals and other materials. For nuclear or chemical bonding, see also BINDING ENERGY.*

UF *fusion (bonding, nonmetallic)*

\*BT1 joining  
 RT adhesion  
 RT cementing  
 RT coalescence  
 RT grouting  
 RT joints

### **BONDUR**

2000-04-12

\*BT1 aluminium base alloys  
 \*BT1 copper alloys  
 \*BT1 magnesium additions  
 \*BT1 manganese additions  
 \*BT1 silicon additions

### **BONE CELLS**

UF *osteocytes*  
 \*BT1 connective tissue cells  
 RT bone marrow  
 RT bone marrow cells  
 RT bone tissues

### **bone diseases**

USE skeletal diseases

### **BONE FRACTURES**

UF *fractures (bone)*  
 \*BT1 injuries  
 RT bone mineral density  
 RT skeletal diseases

### **BONE JOINTS**

UF *joints (anatomy)*  
 UF *synovia*  
 \*BT1 skeleton  
 RT cartilage  
 RT rheumatic diseases  
 RT skeletal diseases

### **BONE MARROW**

\*BT1 animal tissues  
 \*BT1 hematopoietic system  
 \*BT1 organs  
 RT blood  
 RT blood cells  
 RT blood formation

RT bone cells  
 RT bone marrow cells  
 RT bone tissues  
 RT leukemia  
 RT plasma cells  
 RT polycythemia  
 RT radiation syndrome  
 RT reticuloendothelial system  
 RT stem cells  
 RT trabecular bone

**BONE MARROW CELLS**

UF erythroblasts  
 UF megakaryocytes  
 \*BT1 connective tissue cells  
 RT biological indicators  
 RT blood formation  
 RT bone cells  
 RT bone marrow

**BONE MINERAL DENSITY**

2013-11-13

BT1 body composition  
 RT bone fractures  
 RT bone tissues  
 RT osteodensitometry  
 RT osteoporosis  
 RT skeleton

**BONE SEEKERS**

\*BT1 radioisotopes  
 RT biological hot spots  
 RT biological localization  
 RT bone tissues  
 RT calcium isotopes  
 RT radionuclide kinetics  
 RT radium isotopes  
 RT strontium isotopes

**BONE TISSUES**

UF endosteum  
 UF epiphysis (bones)  
 UF periosteum  
 \*BT1 connective tissue  
 NT1 antlers  
 NT1 trabecular bone  
 RT bone cells  
 RT bone marrow  
 RT bone mineral density  
 RT bone seekers  
 RT calcium  
 RT dentin  
 RT hyperparathyroidism  
 RT osteodensitometry  
 RT osteomyelitis  
 RT osteoporosis  
 RT osteoradionecrosis  
 RT osteosarcomas  
 RT parathormone  
 RT rheumatic diseases  
 RT rickets  
 RT skeletal diseases  
 RT skeleton  
 RT teeth

**bones**

USE skeleton

**BONN SYNCHROTRON**

UF elsa synchrotron  
 \*BT1 synchrotrons  
 RT elsa accelerator complex

**BONNER SPHERE DETECTORS**

UF multisphere neutron detectors  
 \*BT1 moderating detectors

**BONNER SPHERE SPECTROMETERS**

\*BT1 neutron spectrometers

**BONNEVILLE POWER****ADMINISTRATION**

INIS: 1991-08-09; ETDE: 1977-03-04

\*BT1 us doe  
 RT electric power

**BONUS REACTOR**

Permanent shutdown since June 1968.

UF boiling nuclear superheater reactor  
 UF bwr superheater puerto rico reactor  
 UF puerto rico bonus reactor  
 \*BT1 bwr type reactors

**bookkeeping**

USE accounting

**BOOM CLAY**

2003-08-27

UF boom clay formation  
 \*BT1 clays  
 RT geologic formations  
 RT hades underground research facility  
 RT marine disposal  
 RT radioactive waste disposal  
 RT underground disposal

**boom clay formation**

2003-08-27

Silty-clay formation, studied as possible site for radioactive waste disposal.

USE boom clay  
 USE geologic formations

**BOOM TOWNS**

INIS: 2000-04-12; ETDE: 1978-02-14

RT human populations  
 RT rural areas  
 RT social services  
 RT urban areas

**boosters (particle)**

USE particle boosters

**BOOTSTRAP CURRENT**

INIS: 1989-04-20; ETDE: 1989-05-11

\*BT1 electric currents  
 RT neoclassical transport theory  
 RT non-inductive current drive  
 RT plasma

**BOOTSTRAP MODEL**

\*BT1 composite models  
 RT coupling

**bop**

INIS: 2000-04-12; ETDE: 1976-05-17

USE blowout preventers

**BOPSSAR STANDARD PLANT**

INIS: 1977-10-17; ETDE: 1976-03-11

\*BT1 nuclear power plants  
 RT westinghouse standard reactor

**BOR-60 REACTOR**

Dimitrovgrad, Russian Federation.

\*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 lmfr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors

**BORANES**

1996-08-05

UF diborane  
 BT1 boron compounds  
 \*BT1 hydrides  
 RT carboranes

**BORATES**

Specific compounds, except those of significance to energy research and development such as the NT listed below,

should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 boron compounds  
 BT1 oxygen compounds  
 NT1 borax  
 RT boric acid  
 RT boron oxides

**BORAX**

\*BT1 borates  
 \*BT1 sodium compounds

**BORAX-1 REACTOR**

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1954.

UF boiling reactor experiment 1  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**BORAX-2 REACTOR**

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1955.

UF boiling reactor experiment 2  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**BORAX-3 REACTOR**

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1956.

UF boiling reactor experiment 3  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 power reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**BORAX-4 REACTOR**

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1958.

UF boiling reactor experiment 4  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 power reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 thorium reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**BORAX-5 REACTOR**

2000-04-12

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1964.

UF boiling reactor experiment 5  
 \*BT1 enriched uranium reactors  
 \*BT1 power reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**bordertown nj newbold island-1 reactor**

ETDE: 2002-06-16

USE hope creek-1 reactor

**bordentown nj newbold island-2****reactor**

ETDE: 2002-06-16

USE hope creek-2 reactor

**BORDONI PEAK**

RT dislocations

RT internal friction

**BOREAL REGIONS**

INIS: 1992-05-28; ETDE: 1987-02-13

*Those regions comprising the climate and biotic communities between the polar regions and the temperate zones.*

RT climates

RT cryosphere

RT polar regions

RT temperate zones

**BOREHOLE LINKING**

INIS: 2000-04-12; ETDE: 1976-11-29

*Creation of channels or fissures between boreholes in ore deposits to facilitate movement of gases or liquids.*

UF linking (borehole)

NT1 electrolinking

RT propping agents

**BOREHOLES**

UF drill holes

BT1 cavities

RT borescopes

RT earthmoving equipment

RT electrolinking

RT exploratory wells

RT formation damage

RT openings

RT rock drilling

RT stemming materials

RT subterrene penetrators

RT well logging

RT wells

**BORESCOPIES**

INIS: 1975-11-11; ETDE: 1975-12-16

*A device, usually optical, for examining the inside surface of tubes, pipes, or bores.*

RT boreholes

RT pipes

RT pressure tubes

RT telescopes

RT tubes

RT well logging

**BOREXINO DETECTOR**

2016-12-12

\*BT1 neutrino detectors

RT gran sasso national laboratory

**BORIC ACID**

BT1 boron compounds

\*BT1 inorganic acids

BT1 oxygen compounds

RT borates

**BORIDES**

1996-11-13

BT1 boron compounds

NT1 aluminium borides

NT1 barium borides

NT1 beryllium borides

NT1 bismuth borides

NT1 cadmium borides

NT1 calcium borides

NT1 cerium borides

NT1 chromium borides

NT1 cobalt borides

NT1 copper borides

NT1 dysprosium borides

NT1 erbium borides

NT1 europium borides

NT1 gadolinium borides

NT1 germanium borides

NT1 hafnium borides

NT1 holmium borides

NT1 indium borides

NT1 iridium borides

NT1 iron borides

NT1 lanthanum borides

NT1 lithium borides

NT1 lutetium borides

NT1 magnesium borides

NT1 manganese borides

NT1 molybdenum borides

NT1 neodymium borides

NT1 neptunium borides

NT1 nickel borides

NT1 niobium borides

NT1 osmium borides

NT1 palladium borides

NT1 plutonium borides

NT1 potassium borides

NT1 praseodymium borides

NT1 rhenium borides

NT1 rhodium borides

NT1 ruthenium borides

NT1 samarium borides

NT1 scandium borides

NT1 silicon borides

NT1 sodium borides

NT1 strontium borides

NT1 tantalum borides

NT1 terbium borides

NT1 thorium borides

NT1 thulium borides

NT1 tin borides

NT1 titanium borides

NT1 tungsten borides

NT1 uranium borides

NT1 vanadium borides

NT1 ytterbium borides

NT1 yttrium borides

NT1 zinc borides

NT1 zirconium borides

RT ceramics

RT intermetallic compounds

**BORN APPROXIMATION**

UF born cross sections

UF plane-wave born approximation

UF pwba

\*BT1 approximations

NT1 coupled channel born approximation

NT1 dwba

RT perturbation theory

RT quantum mechanics

RT scattering

**born-bogolyubov-green-kirkwood-yvon**

1993-11-04

USE bbgky equation

**born cross sections**

USE born approximation

**born-green-yvon equation**

ETDE: 2002-06-13

USE boltzmann equation

**BORN-INFELD THEORY**

RT electrodynamics

RT maxwell equations

**BORN-MAYER EQUATION**

BT1 equations

**BORN-OPPENHEIMER APPROXIMATION**

\*BT1 approximations

RT adiabatic approximation

RT scattering

**BORN-VON KARMAN THEORY**

RT specific heat

**BOROHYDRIDES***Specific compounds, except those of significance to energy research and development such as the NT listed below, should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 boron compounds

BT1 hydrogen compounds

NT1 uranium borohydrides

**BORON**

\*BT1 semimetals

**BORON 10**

\*BT1 boron isotopes

\*BT1 light nuclei

\*BT1 odd-odd nuclei

\*BT1 stable isotopes

RT boron 10 beams

RT boron 10 reactions

**BORON 10 BEAMS**

\*BT1 ion beams

RT boron 10

**BORON 10 REACTIONS**

\*BT1 heavy ion reactions

RT boron 10

**BORON 10 TARGET**

ETDE: 1976-07-09

BT1 targets

**BORON 11**

\*BT1 boron isotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 stable isotopes

RT boron 11 beams

RT boron 11 reactions

**BORON 11 BEAMS**

\*BT1 ion beams

RT boron 11

**BORON 11 REACTIONS**

\*BT1 heavy ion reactions

RT boron 11

**BORON 11 TARGET**

ETDE: 1976-07-09

BT1 targets

**BORON 12**

\*BT1 beta-minus decay radioisotopes

\*BT1 boron isotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

RT boron 12 beams

**BORON 12 BEAMS**

2014-04-25

\*BT1 radioactive ion beams

RT boron 12

**BORON 12 TARGET**

ETDE: 1976-07-09

BT1 targets

**BORON 13**

\*BT1 beta-minus decay radioisotopes

\*BT1 boron isotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei



**BORON 13 TARGET***INIS: 1975-12-19; ETDE: 1976-07-12*

BT1 targets

**BORON 14**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**BORON 15**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**BORON 16***1992-09-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei

**BORON 17**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**BORON 18***INIS: 1985-07-22; ETDE: 1985-02-07*

- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei

**BORON 19**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

**BORON 6***2007-10-01*

- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei

**BORON 7**

- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

**BORON 8**

- \*BT1 beta-plus decay radioisotopes
  - \*BT1 boron isotopes
  - \*BT1 light nuclei
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-odd nuclei
- RT boron 8 beams

**BORON 8 BEAMS***2014-04-25*

- \*BT1 radioactive ion beams
- RT boron 8

**BORON 8 REACTIONS***1995-05-03*

- \*BT1 heavy ion reactions

**BORON 8 TARGET***INIS: 1992-09-22; ETDE: 1981-11-10*

BT1 targets

**BORON 9**

- \*BT1 alpha decay radioisotopes
- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

**BORON ADDITIONS***1996-11-13**Alloys containing not more than 1% B are listed here.*

- \*BT1 boron alloys
- NT1 alloy-in-102
- NT1 alloy-mo99b
- NT1 alloy-ni43fe33cr16mo3
  - NT2 nimonic pe16
- NT1 alloy-ni46cr23co19ti5al4
  - NT2 alloy-in-939
- NT1 alloy-ni53co19cr15mo5al4ti3
  - NT2 udimet 700
- NT1 alloy-ni55co17cr15mo5al4ti4
  - NT2 astroloy
- NT1 alloy-ni55cr19co11mo10ti3
  - NT2 rene 41
- NT1 alloy-ni58cr20co14mo4ti3
  - NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
  - NT2 alloy-ni60co15cr10al6ti5mo3
  - NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3
  - NT2 alloy-in-738
- NT1 alloy-ni62cr16mo15fe3
  - NT2 hastelloy s
- NT1 alloy-ni74cr13al6mo4
  - NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
  - NT2 inconel 713c
- NT1 alloy-ni76cr20ti2
  - NT2 nimonic 80a
- NT1 alloy-ni77cr20ti2
  - NT1 incoloy 901
  - NT1 rene 80
  - NT1 steel-cr15ni15motib
  - NT1 steel-ni26cr15ti2movalb
  - NT2 alloy-a-286

**BORON ALLOYS***Alloys containing more than 1% B.*

- BT1 alloys
- NT1 boron additions
  - NT2 alloy-in-102
  - NT2 alloy-mo99b
  - NT2 alloy-ni43fe33cr16mo3
    - NT3 nimonic pe16
  - NT2 alloy-ni46cr23co19ti5al4
    - NT3 alloy-in-939
  - NT2 alloy-ni53co19cr15mo5al4ti3
    - NT3 udimet 700
  - NT2 alloy-ni55co17cr15mo5al4ti4
    - NT3 astroloy
  - NT2 alloy-ni55cr19co11mo10ti3
    - NT3 rene 41
  - NT2 alloy-ni58cr20co14mo4ti3
    - NT3 waspaloy
  - NT2 alloy-ni59cr20co17ti2
    - NT2 alloy-ni60co15cr10al6ti5mo3
      - NT3 alloy-in-100
    - NT2 alloy-ni61cr16co9al3ti3w3
      - NT3 alloy-in-738
    - NT2 alloy-ni62cr16mo15fe3
      - NT3 hastelloy s
    - NT2 alloy-ni74cr13al6mo4
      - NT3 inconel 713c
    - NT2 alloy-ni75cr12al6mo5
      - NT3 inconel 713c
    - NT2 alloy-ni76cr20ti2
      - NT3 nimonic 80a
    - NT2 alloy-ni77cr20ti2
      - NT1 incoloy 901
      - NT2 rene 80
      - NT2 steel-cr15ni15motib
      - NT2 steel-ni26cr15ti2movalb
        - NT3 alloy-a-286
  - NT1 colmonoy

**BORON ARSENIDES***INIS: 1989-04-20; ETDE: 1976-12-15*

- \*BT1 arsenides
- BT1 boron compounds

**BORON BROMIDES**

- \*BT1 boron halides
- \*BT1 bromides

**BORON CARBIDES**

- BT1 boron compounds
- \*BT1 carbides

**BORON CHLORIDES**

- \*BT1 boron halides
- \*BT1 chlorides

**BORON COATED ION CHAMBERS**

- \*BT1 ionization chambers
- \*BT1 neutron detectors

**BORON COMPLEXES**

- BT1 complexes

**BORON COMPOUNDS***1996-08-05*

- NT1 boranes
- NT1 borates
  - NT2 borax
- NT1 boric acid
- NT1 borides
  - NT2 aluminium borides
  - NT2 barium borides
  - NT2 beryllium borides
  - NT2 bismuth borides
  - NT2 cadmium borides
  - NT2 calcium borides
  - NT2 cerium borides
  - NT2 chromium borides
  - NT2 cobalt borides
  - NT2 copper borides
  - NT2 dysprosium borides
  - NT2 erbium borides
  - NT2 europium borides
  - NT2 gadolinium borides
  - NT2 germanium borides
  - NT2 hafnium borides
  - NT2 holmium borides
  - NT2 indium borides
  - NT2 iridium borides
  - NT2 iron borides
  - NT2 lanthanum borides
  - NT2 lithium borides
  - NT2 lutetium borides
  - NT2 magnesium borides
  - NT2 manganese borides
  - NT2 molybdenum borides
  - NT2 neodymium borides
  - NT2 neptunium borides
  - NT2 nickel borides
  - NT2 niobium borides
  - NT2 osmium borides
  - NT2 palladium borides
  - NT2 plutonium borides
  - NT2 potassium borides
  - NT2 praseodymium borides
  - NT2 rhenium borides
  - NT2 rhodium borides
  - NT2 ruthenium borides
  - NT2 samarium borides
  - NT2 scandium borides
  - NT2 silicon borides
  - NT2 sodium borides
  - NT2 strontium borides
  - NT2 tantalum borides
  - NT2 terbium borides
  - NT2 thorium borides
  - NT2 thulium borides
  - NT2 tin borides
  - NT2 titanium borides
  - NT2 tungsten borides

**NT2** uranium borides  
**NT2** vanadium borides  
**NT2** ytterbium borides  
**NT2** yttrium borides  
**NT2** zinc borides  
**NT2** zirconium borides  
**NT1** borohydrides  
**NT2** uranium borohydrides  
**NT1** boron arsenides  
**NT1** boron carbides  
**NT1** boron halides  
**NT2** boron bromides  
**NT2** boron chlorides  
**NT2** boron fluorides  
**NT2** boron iodides  
**NT1** boron hydrides  
**NT1** boron hydroxides  
**NT1** boron nitrides  
**NT1** boron oxides  
**NT1** boron phosphates  
**NT1** boron phosphides  
**NT1** boron silicates  
**NT1** boron silicides  
**NT1** boron sulfides  
**NT1** boronic acids  
**NT1** fluoroborates  
**NT1** fluoroboric acid  
**RT** organic boron compounds

**boron dilution accident**

2017-07-18

USE uncontrolled boron dilution

**BORON FLUORIDES**

**\*BT1** boron halides  
**\*BT1** fluorides  
**RT** fluoroborates

**BORON HALIDES**

2012-07-19

**BT1** boron compounds  
**\*BT1** halides  
**NT1** boron bromides  
**NT1** boron chlorides  
**NT1** boron fluorides  
**NT1** boron iodides

**BORON HYDRIDES**

1996-08-05

(Until July 1996 this concept was indexed to BORANES.)

**BT1** boron compounds  
**\*BT1** hydrides

**BORON HYDROXIDES**

**BT1** boron compounds  
**\*BT1** hydroxides

**boron injection**

1995-05-02

USE safety injection

**BORON IODIDES**

**\*BT1** boron halides  
**\*BT1** iodides

**BORON IONS****\*BT1** ions**BORON ISOTOPES**

1999-07-16

**BT1** isotopes  
**NT1** boron 10  
**NT1** boron 11  
**NT1** boron 12  
**NT1** boron 13  
**NT1** boron 14  
**NT1** boron 15  
**NT1** boron 16  
**NT1** boron 17  
**NT1** boron 18  
**NT1** boron 19

**NT1** boron 6  
**NT1** boron 7  
**NT1** boron 8  
**NT1** boron 9

**BORON LINED COUNTERS**

**\*BT1** neutron detectors  
**\*BT1** proportional counters

**BORON NITRIDES**

**BT1** boron compounds  
**\*BT1** nitrides

**BORON OXIDES**

**BT1** boron compounds  
**\*BT1** oxides  
**RT** borates

**BORON PHOSPHATES**

**BT1** boron compounds  
**\*BT1** phosphates  
**RT** borophosphate glass

**BORON PHOSPHIDES**

INIS: 1978-07-03; ETDE: 1976-03-11

**BT1** boron compounds  
**\*BT1** phosphides

**BORON SILICATES**

**BT1** boron compounds  
**\*BT1** silicates  
**RT** borosilicate glass  
**RT** silicate minerals  
**RT** tourmaline

**BORON SILICIDES**

INIS: 1985-09-06; ETDE: 1981-03-16

**BT1** boron compounds  
**\*BT1** silicides

**BORON SULFIDES**

**BT1** boron compounds  
**\*BT1** sulfides

**BORONIC ACIDS**

**BT1** boron compounds  
**\*BT1** organic acids

**BOROPHOSPHATE GLASS**

INIS: 2000-04-04; ETDE: 1980-10-07

Low expansion heat resistant glass.

**UF** borophosphates  
**BT1** glass  
**RT** boron phosphates  
**RT** borosilicate glass  
**RT** phosphate glass

**borophosphates**

INIS: 1981-02-27; ETDE: 1980-10-07

USE borophosphate glass

**BOROSILICATE GLASS**

INIS: 1980-11-07; ETDE: 1980-07-09

Low expansion heat resistant glass.

**UF** borosilicates  
**BT1** glass  
**NT1** pyrex  
**RT** boron silicates  
**RT** borophosphate glass

**borosilicates**

INIS: 1980-11-07; ETDE: 1980-07-23

(Prior to July 1980 this was a valid term and older information is so indexed.)

USE borosilicate glass

**BORSSELE REACTOR**

Borssele, Zeeland, Netherlands.

**UF** kcb reactor  
**UF** kernenergiecentrale borssele reactor  
**\*BT1** pwr type reactors

**BOSCH PROCESS**

2000-04-12

Catalytic process for hydrogen production from carbon monoxide and steam.

**BT1** chemical reactions  
**RT** carbon monoxide  
**RT** hydrogen production  
**RT** steam

**BOSE-EINSTEIN CONDENSATION**

**RT** pion condensation  
**RT** superfluidity

**BOSE-EINSTEIN GAS**

**RT** bose-einstein statistics  
**RT** bosons  
**RT** fermi gas

**BOSE-EINSTEIN STATISTICS**

**RT** bose-einstein gas  
**RT** bosons  
**RT** cooper pairs  
**RT** fermi statistics  
**RT** parastatistics  
**RT** statistical mechanics

**BOSNIA AND HERZEGOVINA**

INIS: 1997-11-11; ETDE: 2000-10-12

**SF** yugoslavia**\*BT1** eastern europe**BOSON-EXCHANGE MODELS****UF** meson exchange**\*BT1** peripheral models**NT1** obe model**NT2** ope model**NT3** electric born model**NT1** sigma model**RT** deep inelastic scattering**BOSON EXPANSION**

INIS: 1986-01-21; ETDE: 1984-11-08

**UF** bosonization**RT** boson-fermion symmetry**RT** collective model**RT** dyson representation**RT** generator-coordinate method**RT** hartree-fock-bogolyubov theory**RT** interacting boson model**RT** quantum mechanics**RT** quantum operators**RT** random phase approximation**RT** series expansion**RT** tamm-dancoff method**BOSON-FERMION SYMMETRY**

1984-12-04

Symmetry of a system containing a conserved number of bosons as well as fermions in which bosons and fermions share a common symmetry.

**UF** dynamical boson-fermion symmetry**UF** fermion-boson symmetry**UF** spinor symmetry**BT1** symmetry**RT** boson expansion**RT** bosons**RT** dynamical groups**RT** fermions**RT** interacting boson model**bosonization**

INIS: 2000-04-12; ETDE: 1984-11-08

USE boson expansion

**BOSONS****NT1** gluons**NT1** goldstone bosons**NT2** axions**NT2** majorons**NT1** higgs bosons**NT1** intermediate bosons

- NT2** intermediate vector bosons  
**NT3** w minus bosons  
**NT3** w plus bosons  
**NT3** z neutral bosons  
**NT1** leptiquarks  
**NT1** mesons  
**NT2** antimesons  
**NT3** pseudoscalar antimesons  
**NT4** anti-b neutral mesons  
**NT4** anti-d neutral mesons  
**NT2** axial vector mesons  
**NT3** a1-1260 mesons  
**NT3** b1-1235 mesons  
**NT3** chi b1-9890 mesons  
**NT3** chi1-3510 mesons  
**NT3** d s-2536 mesons  
**NT3** d1-2420 mesons  
**NT3** f1-1285 mesons  
**NT3** f1-1420 mesons  
**NT3** f1-1510 mesons  
**NT3** h1-1170 mesons  
**NT3** k1-1270 mesons  
**NT3** k1-1400 mesons  
**NT2** baryonium  
**NT2** beauty mesons  
**NT3** b c mesons  
**NT3** b mesons  
**NT4** b minus mesons  
**NT4** b neutral mesons  
**NT5** anti-b neutral mesons  
**NT4** b plus mesons  
**NT3** b s mesons  
**NT3** b\*-5325 mesons  
**NT2** bottomonium  
**NT3** chi b0-10235 mesons  
**NT3** chi b0-9860 mesons  
**NT3** chi b1-10255 mesons  
**NT3** chi b1-9890 mesons  
**NT3** chi b2-10270 mesons  
**NT3** chi b2-9915 mesons  
**NT3** upsilon-10023 mesons  
**NT3** upsilon-10355 mesons  
**NT3** upsilon-10580 mesons  
**NT3** upsilon-10860 mesons  
**NT3** upsilon-11020 mesons  
**NT3** upsilon-9460 mesons  
**NT2** charmed mesons  
**NT3** b c mesons  
**NT3** d mesons  
**NT4** d minus mesons  
**NT4** d neutral mesons  
**NT5** anti-d neutral mesons  
**NT4** d plus mesons  
**NT3** d s-2536 mesons  
**NT3** d s mesons  
**NT3** d\*-2010 mesons  
**NT3** d\*2-2460 mesons  
**NT3** d\*s-2110 mesons  
**NT3** d1-2420 mesons  
**NT2** charmonium  
**NT3** chi0-3415 mesons  
**NT3** chi1-3510 mesons  
**NT3** chi2-3555 mesons  
**NT3** eta c-2980 mesons  
**NT3** eta c-3590 mesons  
**NT3** j psi-3097 mesons  
**NT3** psi-3685 mesons  
**NT3** psi-3770 mesons  
**NT3** psi-4040 mesons  
**NT3** psi-4160 mesons  
**NT3** psi-4415 mesons  
**NT2** phi mesons  
**NT3** phi-1020 mesons  
**NT3** phi-1680 mesons  
**NT3** phi3-1850 mesons  
**NT2** pseudoscalar mesons  
**NT3** b c mesons  
**NT3** b mesons  
**NT4** b minus mesons  
**NT4** b neutral mesons  
**NT4** b plus mesons  
**NT3** b s mesons  
**NT3** b\*-5325 mesons  
**NT2** bottomonium  
**NT3** chi b0-10235 mesons  
**NT3** chi b0-9860 mesons  
**NT3** chi b1-10255 mesons  
**NT3** chi b1-9890 mesons  
**NT3** chi b2-10270 mesons  
**NT3** chi b2-9915 mesons  
**NT3** upsilon-10023 mesons  
**NT3** upsilon-10355 mesons  
**NT3** upsilon-10580 mesons  
**NT3** upsilon-10860 mesons  
**NT3** upsilon-11020 mesons  
**NT3** upsilon-9460 mesons  
**NT2** strange mesons  
**NT3** b s mesons  
**NT3** d s-2536 mesons  
**NT3** d s mesons  
**NT3** d\*s-2110 mesons  
**NT3** k-1460 mesons  
**NT3** k-1830 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** k\*0-1430 mesons  
**NT3** k\*2-1430 mesons  
**NT3** k\*3-1780 mesons  
**NT3** k\*4-2045 mesons  
**NT3** k1-1270 mesons  
**NT3** k1-1400 mesons  
**NT3** k2-1770 mesons  
**NT3** k2-1820 mesons  
**NT3** kaons  
**NT4** antikaons  
**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT2** strangeonium  
**NT3** f2 prime-1525 mesons  
**NT2** tensor mesons  
**NT3** a2-1320 mesons  
**NT3** a4-2040 mesons  
**NT4** b neutral mesons  
**NT5** anti-b neutral mesons  
**NT4** b plus mesons  
**NT3** b s mesons  
**NT3** d mesons  
**NT4** d minus mesons  
**NT4** d neutral mesons  
**NT5** anti-d neutral mesons  
**NT4** d plus mesons  
**NT3** d s mesons  
**NT3** eta-1295 mesons  
**NT3** eta-1440 mesons  
**NT3** eta c-2980 mesons  
**NT3** eta mesons  
**NT3** eta prime-958 mesons  
**NT3** k-1460 mesons  
**NT3** k-1830 mesons  
**NT3** kaons  
**NT4** antikaons  
**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT3** pi-1300 mesons  
**NT3** pi-1770 mesons  
**NT3** pions  
**NT4** cosmic pions  
**NT4** pions minus  
**NT4** pions neutral  
**NT4** pions plus  
**NT3** pseudoscalar antimesons  
**NT4** anti-b neutral mesons  
**NT4** anti-d neutral mesons  
**NT2** scalar mesons  
**NT3** a0-980 mesons  
**NT3** chi0-3415 mesons  
**NT3** f0-1240 mesons  
**NT3** f0-1300 mesons  
**NT3** f0-1590 mesons  
**NT3** f0-1730 mesons  
**NT3** f0-980 mesons  
**NT3** k\*0-1430 mesons  
**NT2** vector mesons  
**NT3** b\*-5325 mesons  
**NT3** d\*-2010 mesons  
**NT3** j psi-3097 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** omega-1420 mesons  
**NT3** omega-1600 mesons  
**NT3** omega-782 mesons  
**NT3** phi-1020 mesons  
**NT3** phi-1680 mesons  
**NT3** psi-3685 mesons  
**NT3** psi-3770 mesons  
**NT3** psi-4040 mesons  
**NT3** psi-4160 mesons  
**NT3** psi-4415 mesons  
**NT3** rho-1450 mesons  
**NT3** rho-1700 mesons  
**NT3** rho-2150 mesons  
**NT3** rho-770 mesons  
**NT3** upsilon-10023 mesons  
**NT3** upsilon-10355 mesons  
**NT3** upsilon-10580 mesons  
**NT3** upsilon-10860 mesons  
**NT3** upsilon-11020 mesons  
**NT3** upsilon-9460 mesons  
**NT2** x-1700 mesons  
**NT2** x-1935 mesons  
**NT2** x-2220 mesons  
**NT2** x-3075 mesons  
**NT1** photons  
**NT2** cosmic photons  
**RT** bose-einstein gas  
**RT** bose-einstein statistics  
**RT** boson-fermion symmetry  
**RT** interacting boson model  
**BOTANY**  
**BT1** biology  
**NT1** geobotany  
**RT** plants  
**BOTSWANA**  
**BT1** africa  
**BT1** developing countries  
**bottom baryons**  
**INIS:** 1987-12-21; **ETDE:** 1988-03-16  
**USE** beauty baryons

**bottom-hole pressure**

INIS: 2000-04-12; ETDE: 1978-08-10  
USE well pressure

**bottom mesons**

INIS: 1987-12-21; ETDE: 1984-12-26  
USE beauty mesons

**bottom particles**

INIS: 1985-01-17; ETDE: 1985-02-22  
USE beauty particles

**bottom quark model**

INIS: 2000-04-12; ETDE: 1979-11-07  
USE flavor model

**BOTTOMING CYCLES**

1996-08-05  
(Until July 1996 this concept was indexed to THERMODYNAMICCYCLES.)  
BT1 thermodynamic cycles

**BOTTOMONIUM**

INIS: 1995-10-04; ETDE: 1988-02-01  
A bound state of bottom and antibottom quarks.

SF *upsilon resonances*  
\*BT1 mesons  
BT1 quarkonium  
NT1 chi b0-10235 mesons  
NT1 chi b0-9860 mesons  
NT1 chi b1-10255 mesons  
NT1 chi b1-9890 mesons  
NT1 chi b2-10270 mesons  
NT1 chi b2-9915 mesons  
NT1 upsilon-10023 mesons  
NT1 upsilon-10355 mesons  
NT1 upsilon-10580 mesons  
NT1 upsilon-10860 mesons  
NT1 upsilon-11020 mesons  
NT1 upsilon-9460 mesons  
RT b quarks  
RT beauty particles

**BOUND STATE**

RT charmonium  
RT coupling  
RT efimov effect  
RT energy levels  
RT glueballs  
RT impulse approximation  
RT kaonium  
RT pi-k atoms  
RT pi-mu atoms  
RT pionium  
RT quarkonium  
RT quasibound state  
RT toponium

**boundaries (grain)**

USE grain boundaries

**BOUNDARY CONDITIONS**

UF *asymptotic conditions*  
NT1 marshak boundary conditions  
NT1 moving-boundary conditions  
RT asymptotic solutions  
RT boundary-value problems  
RT cauchy problem  
RT differential equations  
RT phi4-field theory

**BOUNDARY ELEMENT METHOD**

INIS: 1992-01-22; ETDE: 1992-02-14  
\*BT1 finite element method  
RT computer calculations  
RT finite difference method  
RT mathematics  
RT mesh generation

**BOUNDARY LAYERS**

BT1 layers  
NT1 plasma scrape-off layer  
RT fluid flow  
RT nusselt number  
RT plasma sheath  
RT plasma surface waves  
RT plasmopause  
RT prandtl number  
RT reynolds number  
RT rosseland approximation  
RT tropopause

**BOUNDARY-VALUE PROBLEMS**

INIS: 1985-07-22; ETDE: 1976-05-13  
(Valid ETDE descriptor since May 1976. In INIS, prior to April 1982 this material was indexed to BOUNDARY CONDITIONS; from then till July 1985 the form BOUNDARY VALUE PROBLEMS was used.)  
NT1 dirichlet problem  
RT boundary conditions  
RT cauchy problem  
RT differential equations

**bovine**

USE cattle

**BOWING**

2003-10-21  
*Geometric changes due to temperature and/or fluence gradients.*  
BT1 deformation  
RT temperature dependence  
RT thermoelasticity

**bowline operation**

INIS: 2000-04-12; ETDE: 1979-11-23  
(Prior to February 1995, this was a valid ETDE descriptor.)  
USE nuclear explosions  
USE underground explosions

**BOX MODELS**

INIS: 1992-03-10; ETDE: 1987-07-31  
BT1 mathematical models  
RT atmospheric circulation  
RT climate models  
RT oceanic circulation  
RT simulation

**boxcar event**

1994-10-13  
*A test made during OPERATION CROSSTIE.*  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE nuclear explosions  
USE underground explosions

**BPH**

UF *benzoylphenylhydroxylamine*  
\*BT1 amines  
\*BT1 hydroxy compounds  
RT amides

**BQ RANGE**

2012-05-31  
BT1 radioactivity range  
NT1 bq range 01-10  
NT1 bq range 10-100  
NT1 bq range 100-1000

**BQ RANGE 01-10**

2012-05-31  
\*BT1 bq range

**BQ RANGE 10-100**

2012-05-31  
\*BT1 bq range

**BQ RANGE 100-1000**

2012-05-31  
\*BT1 bq range

**BR-02 REACTOR**

*C.E.N.-S.C.K. Mol, Belgium. Shut down in 1987, decommissioned.*  
UF *belgian reactor 02*  
UF *br-2 zero power mock-up reactor*  
\*BT1 beryllium moderated reactors  
\*BT1 enriched uranium reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**BR-1 REACTOR**

*C.E.N.-S.C.K. Mol, Belgium.*  
UF *belgian reactor 1*  
\*BT1 air cooled reactors  
\*BT1 graphite moderated reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors

**br-1 reactor (russian federation)**

1999-03-11  
USE sbr-1 reactor

**BR-2 REACTOR**

UF *belgian reactor 2*  
\*BT1 enriched uranium reactors  
\*BT1 materials testing reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**br-2 reactor (russian federation)**

1999-03-11  
USE sbr-2 reactor

**br-2 zero power mock-up reactor**

1993-11-04  
USE br-02 reactor

**BR-3 REACTOR**

*Mol, Belgium. Permanent shutdown since 1987.*  
UF *belgian reactor 3*  
\*BT1 pwr type reactors

**br-3-vn reactor**

2018-03-07  
(BR-3-VN REACTOR was a valid descriptor until March 2018)  
USE enriched uranium reactors  
USE experimental reactors  
USE heavy water cooled reactors  
USE heavy water moderated reactors  
USE mixed spectrum reactors  
USE tank type reactors  
USE water cooled reactors  
USE water moderated reactors

**br-5 reactor (russian federation)**

1999-03-11  
USE sbr-5 reactor

**BRACHYTHERAPY**

INIS: 2003-10-06; ETDE: 2003-09-30  
*Radiotherapy in which the radioactive source is close to the body area being treated, either implanted, in physical contact, or located a short distance away.*  
\*BT1 radiotherapy  
NT1 radioembolization  
RT internal irradiation

*RT* radiation source implants  
*RT* radiopharmaceuticals

**brackish water ecosystems**

USE aquatic ecosystems

**BRADWELL REACTOR**

*Southminster, Essex, United Kingdom.  
 BRADWELL-1 and 2 were permanently shut  
 down since 2002.*

\*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 thermal reactors

**BRADYKININ**

1993-08-03

(Until August 1993, this concept was indexed  
 by the broader term KININS.)

\*BT1 kinins

**bragg angle**

USE bragg reflection

**BRAGG CURVE**

*UF* bragg peak  
*UF* bragg zone  
 \*BT1 diagrams  
*RT* energy losses  
*RT* ionization  
*RT* let

**bragg diffraction**

USE bragg reflection

**BRAGG GRAY CHAMBERS**

*UF* air wall ionization chambers  
*UF* cavity ionization chambers  
*UF* tissue equivalent chambers  
 \*BT1 dosimeters  
 \*BT1 ionization chambers

**bragg law**

USE bragg reflection

**bragg peak**

USE bragg curve

**BRAGG REFLECTION**

*UF* bragg angle  
*UF* bragg diffraction  
*UF* bragg law  
*UF* laue-bragg scattering  
 BT1 reflection  
*RT* diffuse scattering  
*RT* x-ray diffraction

**bragg zone**

USE bragg curve

**BRAHMAPUTRA RIVER**

*INIS: 1993-10-01; ETDE: 1993-11-08*

\*BT1 rivers  
*RT* india

**BRAHMMA FACILITY**

2016-07-13

*Bhabha Atomic Research Centre, Trombay,  
 Mumbai, Maharashtra, India*

\*BT1 accelerator-driven subcritical systems  
*RT* barc

**BRAIDWOOD-1 REACTOR**

*Exelon Generation Co., LLC, Braidwood,  
 Illinois, USA.*

\*BT1 pwr type reactors

**BRAIDWOOD-2 REACTOR**

*Exelon Generation Co., LLC, Braidwood,  
 Illinois, USA.*

\*BT1 pwr type reactors

**BRAIN**

\*BT1 central nervous system  
 \*BT1 organs

**NT1** cerebellum  
**NT1** cerebrum  
**NT2** cerebral cortex  
**NT1** hippocampus  
**NT1** hypothalamus  
**NT1** olfactory bulbs  
**NT1** thalamus  
*RT* cerebral arteries  
*RT* electroencephalography  
*RT* encephalitis  
*RT* endorphins  
*RT* head  
*RT* mental disorders  
*RT* pineal gland  
*RT* skull

**BRAKES**

BT1 machine parts  
**NT1** water brakes  
*RT* regenerative braking

**braking radiation**

USE bremsstrahlung

**BRANCHING RATIO**

BT1 dimensionless numbers  
*RT* bethe-heitler theory  
*RT* decay  
*RT* ft value  
*RT* mixing ratio

**BRANCHIOPODS**

*INIS: 1993-07-13; ETDE: 1981-06-15*

\*BT1 crustaceans  
**NT1** artemia  
**NT1** daphnia

**brane cosmology**

2007-08-13

USE m-theory

**brane models**

2007-08-13

USE m-theory

**brane theory**

2007-08-13

USE m-theory

**BRANES**

2007-08-13

*Spatially extended entities that appear in  
 string theory and its relatives (M-theory and  
 brane cosmology).*

*UF* p-branes  
*UF* s-branes  
**NT1** d-branes  
*RT* cosmological inflation  
*RT* cosmological models  
*RT* particle models  
*RT* string theory

**BRANNERITE**

\*BT1 oxide minerals  
 \*BT1 thorium minerals  
 \*BT1 uranium minerals  
*RT* thorium oxides  
*RT* titanium oxides  
*RT* uranium oxides

**brasil-argentina agencia contabil  
 controle mater nuclear**

*INIS: 1999-06-22; ETDE: 2002-06-13*

USE abacc

**brasimone pec reactor**

USE pec brasimone reactor

**BRASS**

\*BT1 copper base alloys  
 \*BT1 zinc alloys  
**NT1** brass-alpha

**NT1** brass-beta  
*RT* heusler alloys  
*RT* muntz metal  
*RT* ounce metal

**BRASS-ALPHA**

\*BT1 brass

**BRASS-BETA**

\*BT1 brass

**BRASSICA**

*UF* cabbage  
*UF* cauliflower  
*UF* mustard  
*UF* rapeseed  
*UF* sarson  
*UF* turnips  
 \*BT1 magnoliopsida  
 \*BT1 vegetables  
**NT1** kale  
*RT* radishes

**braun standard turbine island**

*INIS: 2000-04-12; ETDE: 1975-07-29*  
 (Prior to February 1995, this was a valid  
 ETDE descriptor.)

SEE bwr type reactors  
 SEE steam systems  
 SEE turbogenerators

**braunschweig experimental reactor**

1993-11-04

USE fmrbr reactor

**braunschweig research reactor**

USE fmrbr reactor

**bravo event**

*INIS: 1994-10-14; ETDE: 1984-05-23*  
*A test made during OPERATION CASTLE.*  
 (Prior to September 1994, this was a valid  
 ETDE descriptor.)

USE surface explosions  
 USE thermonuclear explosions

**BRAWLEY GEOTHERMAL FIELD**

*INIS: 2000-04-12; ETDE: 1982-07-27*

\*BT1 california  
 BT1 geothermal fields

**BRAYTON CYCLE**

*A thermodynamic cycle consisting of two  
 constant-pressure processes interspersed with  
 two constant-entropy cycles.*

BT1 thermodynamic cycles  
*RT* brayton cycle power systems  
*RT* thermodynamics

**BRAYTON CYCLE POWER  
 SYSTEMS**

1999-01-29

(Until January 1999 this concept was indexed  
 by BRAYTON CYCLE and POWER  
 GENERATION.)

\*BT1 power systems  
*RT* brayton cycle  
*RT* gas turbines  
*RT* solar heat engines

**BRAZED JOINTS**

BT1 joints  
*RT* brazing

**BRAZIL**

*UF* goiania radiological emergency  
 BT1 developing countries  
 \*BT1 south america  
*RT* amazon river  
*RT* osamu utsumi mine

**brazil lab for synchrotron radiation**

1991-02-11

USE brazilian lnls

**brazil triga reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE triga-brazil reactor

**BRAZILIAN CNEN**

INIS: 1982-08-27; ETDE: 1982-09-10

Comissao Nacional de Energia Nuclear de Brasil.

UF cnen brazil

UF comissao nacional energia nuclear de brazil

\*BT1 brazilian organizations

**BRAZILIAN LNLS**

1991-02-11

Brazilian Laboratory for Synchrotron Radiation.

UF brazil lab for synchrotron radiation

\*BT1 brazilian organizations

**brazilian lnls synchrotron**

1991-02-11

USE lnls storage ring

**brazilian multipurpose reactor**

2018-03-07

USE rmb reactor

**BRAZILIAN ORGANIZATIONS**

INIS: 1977-03-29; ETDE: 1977-06-03

BT1 national organizations

NT1 brazilian cnen

NT1 brazilian lnls

NT1 nuclebras

**BRAZING**

UF hard soldering

\*BT1 welding

RT brazed joints

RT brazing alloys

RT soldering

**BRAZING ALLOYS**

BT1 alloys

RT brazing

RT filler metals

**BRAZOS RIVER**

2000-04-12

\*BT1 rivers

RT texas

**BRAZZAVILLE**

2000-04-12

\*BT1 congo peoples republic

**BREAD**

BT1 food

RT flour

**BREAKDOWN**

Limited to electric discharge phenomena. See also CLEAVAGE or DECOMPOSITION.

RT electric discharges

RT electric potential

RT electric sparks

RT electrical faults

RT flashover

RT lichtenberg figures

RT overvoltage

RT paschen law

RT spark gaps

**breakers (circuit)**

USE circuit breakers

**BREAKEVEN**

UF zero energy balance

BT1 energy balance

RT lawson criterion

RT plasma

RT thermonuclear reactors

**breakup fusion**

INIS: 1985-01-18; ETDE: 2002-06-13

USE incomplete fusion reactions

**BREAKUP REACTIONS**

BT1 nuclear reactions

**breakwaters**

2000-04-12

USE dams

**breasts**

USE mammary glands

**BREATH**

RT air

RT exhalation

RT inhalation

RT respiration

RT respirators

RT respiratory system

RT respiratory system diseases

**breathing**

USE respiration

**BREEDER REACTORS**

BT1 reactors

NT1 fbr type reactors

NT2 aipfr reactor

NT2 gcfr type reactors

NT3 gcfr reactor

NT2 kalpakkam pfbr reactor

NT2 lmfbr type reactors

NT3 beloyarsk-3 reactor

NT3 beloyarsk-4 reactor

NT3 bn-1200 reactor

NT3 bn-1600 reactor

NT3 bn-350 reactor

NT3 bor-60 reactor

NT3 cdfr reactor

NT3 clinch river breeder reactor

NT3 dfr reactor

NT3 ebr-1 reactor

NT3 ebr-2 reactor

NT3 Enrico Fermi-1 reactor

NT3 joyo reactor

NT3 kalpakkam lmfbr reactor

NT3 monju reactor

NT3 pfr reactor

NT3 phenix reactor

NT3 plbr reactor

NT3 rapsodie reactor

NT3 sbr-1 reactor

NT3 sbr-2 reactor

NT3 sbr-5 reactor

NT3 snr-2 reactor

NT3 snr reactor

NT3 superphenix reactor

NT3 venus reactor

NT2 pec brasimone reactor

NT2 zebra reactor

NT1 lwbr type reactors

RT accelerator breeders

RT breeding blankets

RT breeding pellets

RT zpr-9 reactor

**BREEDING**

Fuel breeding only. See also ANIMAL BREEDING and PLANT BREEDING.

BT1 nuclear fuel conversion

RT accelerator breeders

RT breeding blankets

RT breeding pellets

RT breeding ratio

RT transmutation

RT tritium recovery

**BREEDING BLANKETS**

UF blankets (breeding)

BT1 reactor components

RT breeder reactors

RT breeding

RT breeding pellets

RT fertile materials

RT flibe

RT lotus facility

RT thermonuclear devices

RT tritium recovery

**BREEDING PELLETS**

ETDE: 1976-08-24

BT1 pellets

RT breeder reactors

RT breeding

RT breeding blankets

RT pelletizing

RT thermonuclear reactors

**BREEDING RATIO**

\*BT1 conversion ratio

RT breeding

**BREIT-WIGNER FORMULA**

UF single-level resonance formula

RT cross sections

RT multilevel analysis

**BREMSSTRAHLUNG**

UF braking radiation

\*BT1 electromagnetic radiation

NT1 cyclotron radiation

NT1 internal bremsstrahlung

NT1 undulator radiation

NT1 synchrotron radiation

RT bethe-heitler theory

RT migdal theory

RT peierls method

RT penfold-leiss method

RT radiation length

RT tagged photon method

**bremsstrahlung (magnetic)**

USE synchrotron radiation

**brennilis reactor**

2010-08-17

USE el-4 reactor

**breast-300 reactor**

2018-11-07

USE breast-od-300 reactor

**BREST-OD-300 REACTOR**

2018-11-07

Scope Note: Severson, Russian Federation. Under construction.

UF breast-300 reactor

\*BT1 experimental reactors

\*BT1 fast reactors

\*BT1 lead cooled reactors

\*BT1 power reactors

**BRICKS**

\*BT1 building materials

RT adobe

**BRIDGES**

1991-09-25

BT1 mechanical structures

RT roads

**bridges (electric)**

USE electric bridges

**BRIDGMAN METHOD**

BT1 crystal growth methods

RT crystal growth

**BRIGGS CRITERION**

*Allows distinguishing between absolute and convective plasma instabilities.*

RT absolute instabilities  
RT convective instabilities

**brigham young university laboratory reactor**

2000-04-12

USE byu 1-77 reactor

**BRIGHTNESS**

\*BT1 optical properties  
RT beam emittance  
RT illuminance  
RT lighting requirements  
RT luminosity

**BRILLOUIN EFFECT**

UF brillouin scattering

\*BT1 coherent scattering

**brillouin scattering**

USE brillouin effect

**BRILLOUIN THEOREM**

2000-04-12

*Theorem states that if two determinants constructed from exact Hartree-Fock orbitals differ in one spin orbital, the matrix element connecting these two determinants will vanish.*

RT energy levels  
RT matrix elements  
RT wave functions

**BRILLOUIN ZONES**

BT1 zones  
RT band theory

**brine shrimp**

INIS: 2000-04-12; ETDE: 1981-06-15

USE artemia

**BRINELL HARDNESS**

RT hardness

**BRINES**

*Water solutions saturated or strongly impregnated with common salt.*

RT disposal wells  
RT geothermal fluids  
RT saline aquifers  
RT salinity  
RT salts  
RT seawater  
RT solutions

**BRINKMAN-KRAMERS****APPROXIMATION**

\*BT1 approximations  
RT perturbation theory  
RT scattering

**BRIQUETS**

2000-04-12

\*BT1 solid fuels  
RT coal fines  
RT fossil fuels

**BRIQUETTING**

INIS: 1993-03-24; ETDE: 1975-10-01

\*BT1 molding  
RT agglomeration  
RT caking  
RT compacting  
RT formed coke processes  
RT pelletizing

**british anti-lewisite**

INIS: 2005-01-31; ETDE: 2005-02-01

USE dimercaprol

**BRITISH COAL**

INIS: 2000-04-12; ETDE: 1989-05-17

\*BT1 united kingdom organizations

**BRITISH COLUMBIA**

\*BT1 canada  
RT blizzard deposit  
RT peace river

**british experimental pile operation**

1993-11-04

USE bepo reactor

**british gas corporation process**

INIS: 2000-04-12; ETDE: 1976-01-07

USE crg processes

**british guiana**

1999-05-05

*Now Guyana, an independent republic.*

*(Until May 1999 this was a valid descriptor.)*

USE guyana

**british nuclear fuels limited**

INIS: 1980-04-02; ETDE: 1980-05-06

USE bnfl

**BRITTLE-DUCTILE TRANSITIONS**

1998-10-23

UF transitions (brittle-ductile)  
RT brittleness  
RT ductility  
RT embrittlement

**BRITTLENESS**

BT1 mechanical properties  
RT brittle-ductile transitions  
RT crack propagation  
RT ductile-brittle transitions  
RT embrittlement  
RT helium embrittlement  
RT hydrogen embrittlement

**broadening (line)**

INIS: 1978-09-28; ETDE: 2002-06-13

USE line broadening

**BROADLANDS GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields  
RT geothermal hot-water systems  
RT new zealand

**BROEGGERITE**

2000-04-12

\*BT1 uraninites

**BROENSTED ACIDS**

INIS: 1996-08-05; ETDE: 1983-09-15

*An acid as proton donor.*

\*BT1 inorganic acids  
RT lewis acids

**BROKDORF REACTOR**

INIS: 1976-09-06; ETDE: 1976-11-01

*Wilstermarsch, Schleswig-Holstein, Federal Republic of Germany.*

UF kernkraftwerk brokdorf

\*BT1 pwr type reactors

**BROKEN-PAIR APPROXIMATION**

1978-08-14

*A method, which conserves nucleon number, developed to treat pairing correlations in nuclei. It is an approximation to the seniority shell model and takes into account the quasi-particle residual interaction.*

\*BT1 approximations  
RT nuclear theory  
RT shell models

**bromamines**

INIS: 1984-04-04; ETDE: 1980-12-08

*(Prior to April 1994, this was a valid ETDE descriptor.)*

USE amines  
USE organic bromine compounds

**BROMATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 bromine compounds  
BT1 oxygen compounds  
RT bromic acid

**BROMIC ACID**

\*BT1 bromine compounds  
\*BT1 inorganic acids  
BT1 oxygen compounds  
RT bromates

**BROMIDES**

1997-06-17

UF teab  
UF tetraethylammonium bromide  
\*BT1 bromine compounds  
\*BT1 halides  
NT1 actinium bromides  
NT1 aluminium bromides  
NT1 americium bromides  
NT1 antimony bromides  
NT1 arsenic bromides  
NT1 astatine bromides  
NT1 barium bromides  
NT1 berkelium bromides  
NT1 beryllium bromides  
NT1 bismuth bromides  
NT1 boron bromides  
NT1 cadmium bromides  
NT1 calcium bromides  
NT1 californium bromides  
NT1 cerium bromides  
NT1 cesium bromides  
NT1 chromium bromides  
NT1 cobalt bromides  
NT1 copper bromides  
NT1 curium bromides  
NT1 dysprosium bromides  
NT1 einsteinium bromides  
NT1 erbium bromides  
NT1 europium bromides  
NT1 fermium bromides  
NT1 gadolinium bromides  
NT1 gallium bromides  
NT1 germanium bromides  
NT1 gold bromides  
NT1 hafnium bromides  
NT1 holmium bromides  
NT1 hydrogen bromides  
NT1 indium bromides  
NT1 iodine bromides  
NT1 iron bromides  
NT1 krypton bromides  
NT1 lanthanum bromides  
NT1 lead bromides  
NT1 lithium bromides  
NT1 lutetium bromides  
NT1 magnesium bromides  
NT1 manganese bromides  
NT1 mercury bromides  
NT1 molybdenum bromides  
NT1 neodymium bromides  
NT1 neon bromides  
NT1 neptunium bromides  
NT1 nickel bromides  
NT1 niobium bromides  
NT1 nitrogen bromides  
NT1 palladium bromides  
NT1 phosphorus bromides

**NT1** platinum bromides  
**NT1** plutonium bromides  
**NT1** polonium bromides  
**NT1** potassium bromides  
**NT1** praseodymium bromides  
**NT1** promethium bromides  
**NT1** protactinium bromides  
**NT1** radium bromides  
**NT1** rhenium bromides  
**NT1** rhodium bromides  
**NT1** rubidium bromides  
**NT1** ruthenium bromides  
**NT1** samarium bromides  
**NT1** scandium bromides  
**NT1** selenium bromides  
**NT1** silicon bromides  
**NT1** silver bromides  
**NT1** sodium bromides  
**NT1** strontium bromides  
**NT1** tantalum bromides  
**NT1** technetium bromides  
**NT1** tellurium bromides  
**NT1** terbium bromides  
**NT1** thallium bromides  
**NT1** thorium bromides  
**NT1** thulium bromides  
**NT1** tin bromides  
**NT1** titanium bromides  
**NT1** tungsten bromides  
**NT1** uranium bromides  
**NT1** vanadium bromides  
**NT1** xenon bromides  
**NT1** ytterbium bromides  
**NT1** yttrium bromides  
**NT1** zinc bromides  
**NT1** zirconium bromides  
**RT** bromine additions  
**RT** oxybromides

### brominated alicyclic hydrocarbons

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

**USE** halogenated alicyclic hydrocarbons  
**USE** organic bromine compounds

### BROMINATED ALIPHATIC HYDROCARBONS

1999-04-13

(Prior to October 1991, this concept was indexed by ORGANIC BROMINE COMPOUNDS.)

**\*BT1** halogenated aliphatic hydrocarbons  
**\*BT1** organic bromine compounds  
**NT1** bromoform  
**NT1** methyl bromide

### BROMINATED AROMATIC HYDROCARBONS

1991-10-01

(Prior to October 1991, this concept was indexed by ORGANIC BROMINE COMPOUNDS and AROMATICS.)

**\*BT1** halogenated aromatic hydrocarbons  
**\*BT1** organic bromine compounds

### brominated hydrocarbons

ETDE: 2002-06-13

**USE** organic bromine compounds

### BROMINATION

**\*BT1** halogenation

### BROMINE

**UF** bromine bromides  
**\*BT1** halogens

### BROMINE 67

2007-10-22

**\*BT1** bromine isotopes  
**\*BT1** electron capture radioisotopes

**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei

### BROMINE 68

2007-10-22

**\*BT1** bromine isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-odd nuclei

### BROMINE 69

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** bromine isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei

### BROMINE 70

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** bromine isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** odd-odd nuclei

### BROMINE 71

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** bromine isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei  
**\*BT1** seconds living radioisotopes

### BROMINE 71 TARGET

*INIS: 1980-05-14; ETDE: 1988-12-05*  
**BT1** targets

### BROMINE 72

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** bromine isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-odd nuclei

### BROMINE 73

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** bromine isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-even nuclei

### BROMINE 74

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** bromine isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-odd nuclei

### BROMINE 75

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** bromine isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** hours living radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei

### BROMINE 76

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** bromine isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** hours living radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** isomeric transition isotopes  
**\*BT1** odd-odd nuclei  
**\*BT1** seconds living radioisotopes

### BROMINE 76 TARGET

*INIS: 1979-02-21; ETDE: 1979-03-28*  
**BT1** targets

### BROMINE 77

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** bromine isotopes

**\*BT1** days living radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** internal conversion radioisotopes  
**\*BT1** isomeric transition isotopes  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-even nuclei

### BROMINE 78

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** bromine isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-odd nuclei

### BROMINE 79

**\*BT1** bromine isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** isomeric transition isotopes  
**\*BT1** odd-even nuclei  
**\*BT1** seconds living radioisotopes  
**\*BT1** stable isotopes  
**RT** bromine 79 beams

### BROMINE 79 BEAMS

*INIS: 1976-07-06; ETDE: 1976-08-24*

**\*BT1** ion beams  
**RT** bromine 79

### BROMINE 79 REACTIONS

*INIS: 1987-05-26; ETDE: 1988-09-22*

**\*BT1** heavy ion reactions

### BROMINE 79 TARGET

*ETDE: 1976-07-09*

**BT1** targets

### BROMINE 80

**\*BT1** beta-minus decay radioisotopes  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** bromine isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** hours living radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** internal conversion radioisotopes  
**\*BT1** isomeric transition isotopes  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-odd nuclei

### BROMINE 81

**\*BT1** bromine isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei  
**\*BT1** stable isotopes

### BROMINE 81 REACTIONS

*1979-11-02*

**\*BT1** heavy ion reactions

### BROMINE 81 TARGET

*ETDE: 1976-07-09*

**BT1** targets

### BROMINE 82

**\*BT1** beta-minus decay radioisotopes  
**\*BT1** bromine isotopes  
**\*BT1** days living radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** internal conversion radioisotopes  
**\*BT1** isomeric transition isotopes  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-odd nuclei

### BROMINE 83

**\*BT1** beta-minus decay radioisotopes  
**\*BT1** bromine isotopes  
**\*BT1** hours living radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** isomeric transition isotopes  
**\*BT1** nanoseconds living radioisotopes  
**\*BT1** odd-even nuclei



**BROMINE 84**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bromine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**BROMINE 85**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bromine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BROMINE 86**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bromine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**BROMINE 87**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bromine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**BROMINE 88**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bromine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**BROMINE 89**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bromine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**BROMINE 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bromine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**BROMINE 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bromine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**BROMINE 92**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bromine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**BROMINE 93**

*INIS: 1988-10-10; ETDE: 1988-11-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bromine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**BROMINE 94**

*2007-10-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bromine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**BROMINE 95**

*2007-10-22*

- \*BT1 beta-minus decay radioisotopes

- \*BT1 bromine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**BROMINE 96**

*2007-10-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bromine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**BROMINE 97**

*2007-10-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bromine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**BROMINE ADDITIONS**

- RT* bromides
- RT* crystal doping
- RT* doped materials

***bromine bromides***

- USE bromine

**BROMINE CHLORIDES**

- UF* chlorine bromides
- \*BT1 bromine halides
- \*BT1 chlorides

**BROMINE COMPLEXES**

- BT1 complexes

**BROMINE COMPOUNDS**

- BT1 halogen compounds
- NT1 bromates
- NT1 bromic acid
- NT1 bromides
  - NT2 actinium bromides
  - NT2 aluminium bromides
  - NT2 americium bromides
  - NT2 antimony bromides
  - NT2 arsenic bromides
  - NT2 astatine bromides
  - NT2 barium bromides
  - NT2 berkelium bromides
  - NT2 beryllium bromides
  - NT2 bismuth bromides
  - NT2 boron bromides
  - NT2 cadmium bromides
  - NT2 calcium bromides
  - NT2 californium bromides
  - NT2 cerium bromides
  - NT2 cesium bromides
  - NT2 chromium bromides
  - NT2 cobalt bromides
  - NT2 copper bromides
  - NT2 curium bromides
  - NT2 dysprosium bromides
  - NT2 einsteinium bromides
  - NT2 erbium bromides
  - NT2 europium bromides
  - NT2 fermium bromides
  - NT2 gadolinium bromides
  - NT2 gallium bromides
  - NT2 germanium bromides
  - NT2 gold bromides
  - NT2 hafnium bromides
  - NT2 holmium bromides
  - NT2 hydrogen bromides
  - NT2 indium bromides
  - NT2 iodine bromides
  - NT2 iron bromides
  - NT2 krypton bromides
  - NT2 lanthanum bromides
  - NT2 lead bromides
  - NT2 lithium bromides
  - NT2 lutetium bromides
  - NT2 magnesium bromides
  - NT2 manganese bromides
- NT2 mercury bromides
- NT2 molybdenum bromides
- NT2 neodymium bromides
- NT2 neon bromides
- NT2 neptunium bromides
- NT2 nickel bromides
- NT2 niobium bromides
- NT2 nitrogen bromides
- NT2 palladium bromides
- NT2 phosphorus bromides
- NT2 platinum bromides
- NT2 plutonium bromides
- NT2 polonium bromides
- NT2 potassium bromides
- NT2 praseodymium bromides
- NT2 promethium bromides
- NT2 protactinium bromides
- NT2 radium bromides
- NT2 rhenium bromides
- NT2 rhodium bromides
- NT2 rubidium bromides
- NT2 ruthenium bromides
- NT2 samarium bromides
- NT2 scandium bromides
- NT2 selenium bromides
- NT2 silicon bromides
- NT2 silver bromides
- NT2 sodium bromides
- NT2 strontium bromides
- NT2 tantalum bromides
- NT2 technetium bromides
- NT2 tellurium bromides
- NT2 terbium bromides
- NT2 thallium bromides
- NT2 thorium bromides
- NT2 thulium bromides
- NT2 tin bromides
- NT2 titanium bromides
- NT2 tungsten bromides
- NT2 uranium bromides
- NT2 vanadium bromides
- NT2 xenon bromides
- NT2 ytterbium bromides
- NT2 yttrium bromides
- NT2 zinc bromides
- NT2 zirconium bromides
- NT1 bromine halides
  - NT2 bromine chlorides
  - NT2 bromine fluorides
- NT1 bromine oxides
- NT1 hydrobromic acid
- NT1 oxybromides
- NT1 perbromates
- RT* organic bromine compounds

**BROMINE FLUORIDES**

*UF* fluorine bromides

- \*BT1 bromine halides
- \*BT1 fluorides

**BROMINE HALIDES**

*2012-07-19*

- \*BT1 bromine compounds
- \*BT1 halides
- NT1 bromine chlorides
- NT1 bromine fluorides

***bromine iodides***

- USE iodine bromides

**BROMINE IONS**

- \*BT1 ions

**BROMINE ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 bromine 67
- NT1 bromine 68
- NT1 bromine 69
- NT1 bromine 70
- NT1 bromine 71

**NT1** bromine 72  
**NT1** bromine 73  
**NT1** bromine 74  
**NT1** bromine 75  
**NT1** bromine 76  
**NT1** bromine 77  
**NT1** bromine 78  
**NT1** bromine 79  
**NT1** bromine 80  
**NT1** bromine 81  
**NT1** bromine 82  
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**NT1** bromine 84  
**NT1** bromine 85  
**NT1** bromine 86  
**NT1** bromine 87  
**NT1** bromine 88  
**NT1** bromine 89  
**NT1** bromine 90  
**NT1** bromine 91  
**NT1** bromine 92  
**NT1** bromine 93  
**NT1** bromine 94  
**NT1** bromine 95  
**NT1** bromine 96  
**NT1** bromine 97

**BROMINE NUMBER**

*INIS: 2000-04-12; ETDE: 1976-05-17*  
 Number of centigrams of bromine which are absorbed by 1 gram of oil under certain conditions.

*RT* gasoline  
*RT* oils

**BROMINE OXIDES**

\*BT1 bromine compounds  
 \*BT1 oxides  
*RT* oxybromides

**bromodeoxyuridine**

USE budr

**BROMOFORM**

\*BT1 brominated aliphatic hydrocarbons  
*RT* hydrocarbons  
*RT* methane

**BROMOSULFOPHTHALEIN**

\*BT1 carboxylic acid esters  
 BT1 indicators  
 \*BT1 organic bromine compounds  
 \*BT1 polyphenols  
 BT1 reagents  
 \*BT1 sulfonic acids  
*RT* phthalic acid  
*RT* radiopharmaceuticals

**BROMOURACILS**

\*BT1 antimetabolites  
 \*BT1 organic bromine compounds  
 \*BT1 uracils  
**NT1** budr

**BRONCHI**

BT1 respiratory system  
*RT* bronchitis  
*RT* lungs  
*RT* respiratory tract cells

**BRONCHITIS**

\*BT1 respiratory system diseases  
*RT* bronchi

**bronchogenic carcinoma**

USE carcinomas  
 USE respiratory system diseases

**BRONCHOPNEUMONIA**

\*BT1 pneumonia

**bronco event**

2000-04-12  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE plowshare project

**BRONZE**

\*BT1 copper base alloys  
 \*BT1 tin alloys  
*RT* heusler alloys

**bronze (sodium tungsten)**

*INIS: 2000-04-12; ETDE: 1979-08-09*  
 USE sodium tungsten bronze

**BROOKHAVEN 200-MEV LINAC**

*INIS: 1979-09-18; ETDE: 1979-12-10*  
 \*BT1 linear accelerators  
*RT* brookhaven ags

**BROOKHAVEN AGS**

\*BT1 synchrotrons  
*RT* brookhaven 200-mev linac

**BROOKHAVEN CYCLOTRON**

\*BT1 isochronous cyclotrons

**BROOKHAVEN ERHIC**

2015-09-08  
 Proposed electron-ion collider at BNL  
 \*BT1 linac-ring accelerators  
*RT* brookhaven rhic

**brookhaven graphite research reactor**

1993-11-04  
 USE bgrr reactor

**brookhaven high flux beam reactor**

1993-11-04  
 USE hfbr reactor

**brookhaven intersecting storage accelerators**

1993-11-04  
 USE isabelle storage rings

**brookhaven medical research reactor**

1993-11-04  
 USE mrr reactor

**brookhaven national laboratory**

USE bnl

**BROOKHAVEN RHIC**

*INIS: 1986-05-23; ETDE: 1986-01-14*  
 Relativistic heavy ion collider facility located in former Isabelle Storage Ring tunnel.  
*UF* relativistic heavy ion collider (bnl)  
*UF* rhic (brookhaven)  
 \*BT1 heavy ion accelerators  
 BT1 storage rings  
*RT* brookhaven erhic  
*RT* isabelle storage rings  
*RT* phenix detector  
*RT* phobos detector  
*RT* star detector

**brooks**

*INIS: 2000-04-12; ETDE: 1997-03-31*  
 USE streams

**BROWN COAL**

1992-02-04  
*SF* soft coal  
 \*BT1 coal  
**NT1** lignite

**brown coal liquefaction process**

*INIS: 2000-04-12; ETDE: 1985-10-10*  
 USE bcl process

**BROWNFIELD SITES**

2013-11-27  
 Land, often polluted, previously used for industrial or commercial purposes with potential for re-use after being cleaned up.  
*RT* abandoned sites  
*RT* land pollution control  
*RT* land reclamation  
*RT* land use  
*RT* remedial action

**BROWNIAN MOVEMENT**

*RT* collisions  
*RT* colloids  
*RT* motion

**brownouts**

1995-03-27  
 USE outages

**BROWNS FERRY-1 REACTOR**

*TVA, Decatur, Alabama, USA.*  
 \*BT1 bwr type reactors  
 \*BT1 mixed spectrum reactors

**BROWNS FERRY-2 REACTOR**

*TVA, Decatur, Alabama, USA.*  
 \*BT1 bwr type reactors  
 \*BT1 mixed spectrum reactors

**BROWNS FERRY-3 REACTOR**

*TVA, Decatur, Alabama, USA.*  
 \*BT1 bwr type reactors  
 \*BT1 mixed spectrum reactors

**BRR REACTOR**

*Battelle Columbus Laboratories, Columbus, Ohio, USA. Shut down in 1975.*  
*UF* battelle research reactor  
*UF* bmi reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**BRUCE-1 REACTOR**

*Tiverton, Ontario, Canada.*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
*RT* bruce site

**BRUCE-2 REACTOR**

*Tiverton, Ontario, Canada.*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
*RT* bruce site

**BRUCE-3 REACTOR**

*Tiverton, Ontario, Canada.*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
*RT* bruce site

**BRUCE-4 REACTOR**

*Tiverton, Ontario, Canada.*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
*RT* bruce site

**BRUCE-5 REACTOR**

*INIS: 1978-07-03; ETDE: 1978-08-07*  
*Tiverton, Ontario, Canada.*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
*RT* bruce site

**BRUCE-6 REACTOR**

INIS: 1978-07-03; ETDE: 1978-08-07  
Tiverton, Ontario, Canada.  
\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
RT bruce site

**BRUCE-7 REACTOR**

INIS: 1978-07-03; ETDE: 1978-08-07  
Tiverton, Ontario, Canada.  
\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
RT bruce site

**BRUCE-8 REACTOR**

INIS: 1978-07-03; ETDE: 1978-08-07  
Tiverton, Ontario, Canada.  
\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
RT bruce site

**BRUCE SITE**

INIS: 1993-01-14; ETDE: 1993-05-06  
Tiverton, Ontario, Canada.  
BT1 reactor sites  
RT bruce-1 reactor  
RT bruce-2 reactor  
RT bruce-3 reactor  
RT bruce-4 reactor  
RT bruce-5 reactor  
RT bruce-6 reactor  
RT bruce-7 reactor  
RT bruce-8 reactor

**BRUCELLA**

\*BT1 bacteria

**brueckner approximation**

USE goldstone diagrams

**brueckner-gammel potential**

USE brueckner method

**brueckner-gammel-weitzner theory**

USE brueckner method

**brueckner-goldstone theory**

USE goldstone diagrams

**BRUECKNER METHOD**

UF brueckner-gammel potential  
UF brueckner-gammel-weitzner theory  
BT1 calculation methods  
RT brueckner model  
RT nuclear models  
RT nucleons

**BRUECKNER MODEL**

UF brueckner potential  
UF brueckner-watson theory  
\*BT1 nuclear models  
RT brueckner method

**brueckner potential**

USE brueckner model

**brueckner-sawada theory**

USE goldstone diagrams

**brueckner-watson theory**

USE brueckner model

**BRUNEI**

INIS: 1993-01-26; ETDE: 1976-07-07  
Sovereign state, NW Borneo.  
BT1 asia

**bruno leuschner-1 reactor**

USE greifswald-1 reactor

**bruno leuschner-2 reactor**

USE greifswald-2 reactor

**bruno leuschner-3 reactor**

INIS: 1978-07-31; ETDE: 1978-09-11  
USE greifswald-3 reactor

**bruno leuschner-4 reactor**

INIS: 1978-07-31; ETDE: 1978-09-11  
USE greifswald-4 reactor

**BRUNSBUETTEL REACTOR**

Hamburg, Federal Republic of Germany.  
Permanent shutdown since August 2011.  
SF kkb reactor  
\*BT1 bwr type reactors

**BRUNSWICK-1 REACTOR**

Carolina Power and Light Co., Southport,  
North Carolina, USA.  
\*BT1 bwr type reactors

**BRUNSWICK-2 REACTOR**

Carolina Power and Light Co., Southport,  
North Carolina, USA.  
\*BT1 bwr type reactors

**brussels conv liability for maritime carriage nuc mater 1971**

ETDE: 2003-01-03  
USE bcoclmcm

**brussels conv liability for operation of nuclear ships**

ETDE: 2003-01-03  
USE bcolons

**brussels conv-suppl to paris conv on third party liability**

ETDE: 2003-01-03  
USE bestpc

**BRYOPHYTA**

INIS: 1991-12-13; ETDE: 1989-06-01  
BT1 plants  
NT1 mosses

**BRYOZOA**

INIS: 2000-04-12; ETDE: 1985-02-22  
BT1 aquatic organisms  
\*BT1 invertebrates

**bsc rao**

2004-12-15  
Bohunicke Spracovatel'ske Centrum  
RadioAktivnych Odpadov.  
USE bohunice radioactive waste processing center

**bsf reactor**

USE bsr-1 reactor

**bsg devices**

1996-07-16  
(Until July 1996 this was a valid descriptor.)  
USE linear theta pinch devices  
USE magnetic mirrors

**BSR-1 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.

UF bsf reactor  
UF bulk shielding reactor-1  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**BSR-2 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.  
UF bulk shielding reactor-2

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**btu content**

INIS: 2000-04-12; ETDE: 1984-10-24  
USE calorific value

**btu meters**

INIS: 2000-04-12; ETDE: 1981-10-24  
USE heat meters

**BUBBLE CHAMBERS**

\*BT1 gas track detectors  
NT1 cryogenic bubble chambers  
NT1 heavy liquid bubble chambers  
NT1 ultrasonic bubble chambers  
RT digitizers

**BUBBLE DOSEMETERS**

INIS: 2003-12-17; ETDE: 2004-01-07  
\*BT1 dosimeters  
RT neutron dosimetry  
RT personnel dosimetry

**BUBBLE GROWTH**

UF growth (bubble)  
RT boiling  
RT boiling detection

**BUBBLES**

RT aeration  
RT blisters  
RT boiling detection  
RT flow visualization  
RT foams  
RT voids

**bubiag-didier process**

2000-04-12  
(Prior to July 1993, this was a valid ETDE descriptor.)  
USE coal gasification

**bucharest wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE wwr-s-bucharest reactor

**BUCKET WHEEL EXCAVATORS**

INIS: 2000-04-12; ETDE: 1978-04-28  
\*BT1 earthmoving equipment  
\*BT1 mining equipment

**BUCKINGHAM POTENTIAL**

BT1 potentials  
RT interatomic forces

**BUCKLING**

For neutron density distribution in reactors; for structural buckling see DEFORMATION or FAILURES.

NT1 geometric buckling  
NT1 material buckling  
RT criticality

**buckling (structural)**

USE deformation

**BUCKWHEAT**

\*BT1 liliopsida  
RT cereals

**BUDAPEST TRAINING REACTOR**

1980-09-12  
Technical Univ., Budapest, Hungary.  
\*BT1 thermal reactors  
\*BT1 training reactors  
\*BT1 wwr type reactors

**budapest wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE wwr-s-budapest reactor

**BUDGETS**

RT allocations  
 RT cost  
 RT economics  
 RT expenditures  
 RT financial data  
 RT financing

**budker accelerators**

USE plasma betatrons

**BUDR**

UF bromodeoxyuridine  
 \*BT1 bromouracils  
 \*BT1 nucleosides  
 RT deoxyuridine

**BUDS**

RT plants

**BUFFALO**

\*BT1 ruminants  
 RT domestic animals

**BUFFALO GOURD**

INIS: 1991-12-16; ETDE: 1980-11-25  
 UF *cucurbita foetidissima*  
 \*BT1 magnoliopsida  
 RT arid lands  
 RT biomass  
 RT essential oils  
 RT seeds

**buffalo project**

1996-06-26  
 (Until June 1996 this was a valid descriptor.)  
 USE nuclear explosions

**buffalo pulstar reactor**

USE pulstar-buffalo reactor

**BUFFERS**

RT acid neutralizing capacity  
 RT gases  
 RT ph value  
 RT solutions

**BUFOTENINE**

1996-06-26  
 \*BT1 hallucinogens  
 \*BT1 serotonin

**BUGEY-1 REACTOR**

*Electricite de France, Saint-Vulbas, Ain, France*  
 UF *edf-5 reactor*  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 gcr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**BUGEY-2 REACTOR**

*Electricite de France, Saint-Vulbas, Ain, France*  
 \*BT1 pwr type reactors

**BUGEY-3 REACTOR**

1983-09-05  
*Electricite de France, Saint-Vulbas, Ain, France*  
 \*BT1 pwr type reactors

**BUGEY-4 REACTOR**

INIS: 1980-07-24; ETDE: 1980-08-12  
*Electricite de France, Saint-Vulbas, Ain, France*  
 \*BT1 pwr type reactors

**BUGEY-5 REACTOR**

INIS: 1988-05-13; ETDE: 1988-06-24  
*Electricite de France, Saint-Vulbas, Ain, France*  
 \*BT1 pwr type reactors

**BUILDERS**

INIS: 1993-04-28; ETDE: 1981-06-13  
 UF building contractors  
 BT1 personnel  
 RT architects  
 RT construction industry  
 RT craftsmen

**building (constructing)**

USE construction

**building (manufacturing)**

USE fabrication

**BUILDING CODES**

INIS: 1992-06-30; ETDE: 1978-04-05  
 \*BT1 regulations  
 RT construction  
 RT vernacular architecture

**building contractors**

INIS: 1993-04-28; ETDE: 1981-06-13  
 USE builders

**building envelope**

2004-05-28  
 USE roofs  
 USE walls

**building foundations**

INIS: 1975-12-17; ETDE: 2002-06-13  
 USE foundations

**building-integrated energy-producing components**

2004-02-11  
 Use the descriptor below + term(s) for the components, e.g. SOLAR CELL ARRAYS, TROMBE WALLS, ROOF PONDS.  
 USE solar architecture

**BUILDING MATERIALS**

UF materials (building)  
 UF structural materials  
 BT1 materials  
 NT1 adobe  
 NT1 bricks  
 NT1 cements  
 NT2 gypsum cements  
 NT2 portland cement  
 NT1 concrete blocks  
 NT1 concretes  
 NT2 prestressed concrete  
 NT2 reinforced concrete  
 RT buildings  
 RT composite materials  
 RT glazing materials  
 RT mortars  
 RT pavements  
 RT reinforced materials  
 RT sand  
 RT shielding materials  
 RT structural beams  
 RT thermal bridges  
 RT u values

**BUILDING TECHNOLOGY SUITE**

2010-10-29  
 The entire complement of systems which provide those services which make a building functional and comfortable, e.g. space heating, air conditioning, ventilation, hot water, lighting systems, alarm systems. Use only when the operation and interactions of all the building systems are discussed together; otherwise, index the specific system(s) involved.  
 RT air cleaning  
 RT air conditioning  
 RT alarm systems  
 RT elevators

RT energy management systems  
 RT lighting systems  
 RT space heating  
 RT temperature control  
 RT ventilation  
 RT water heating

**BUILDINGS**

1997-06-17

UF laundries  
 UF structures (buildings)  
 NT1 animal shelters  
 NT1 commercial buildings  
 NT2 hotels  
 NT2 shopping centers  
 NT1 containment buildings  
 NT1 double envelope buildings  
 NT1 earth-covered buildings  
 NT1 government buildings  
 NT1 greenhouses  
 NT2 attached greenhouses  
 NT1 high-rise buildings  
 NT1 hospitals  
 NT1 industrial buildings  
 NT1 laboratory buildings  
 NT1 low-energy buildings  
 NT1 office buildings  
 NT1 prefabricated buildings  
 NT1 public buildings  
 NT1 residential buildings  
 NT2 apartment buildings  
 NT2 houses  
 NT2 mobile homes  
 NT1 school buildings  
 RT air curtains  
 RT air infiltration  
 RT airtightness  
 RT architects  
 RT architecture  
 RT atria  
 RT attics  
 RT basements  
 RT building materials  
 RT ceilings  
 RT construction  
 RT construction industry  
 RT curtains  
 RT distributed structures  
 RT domed structures  
 RT doors  
 RT drum walls  
 RT elevators  
 RT energy management systems  
 RT floors  
 RT foundations  
 RT high rooms  
 RT laboratories  
 RT libraries  
 RT load collector ratio  
 RT mechanical structures  
 RT medical establishments  
 RT mineral-insulated cables  
 RT occupants  
 RT retrofitting  
 RT roofs  
 RT shelters  
 RT shutters  
 RT skylights  
 RT soil-structure interactions  
 RT solar architecture  
 RT sport facilities  
 RT stacks  
 RT sun shades  
 RT trombe walls  
 RT walls  
 RT weatherization  
 RT window frames  
 RT windows

**buildings (containment)**

2000-04-12

USE containment buildings

**BUILDUP**

1999-04-14

UF accumulation

UF radiation buildup

RT depth dose distributions

RT ionization

RT ionizing radiations

RT radiation doses

RT radiations

RT radioecological concentration

RT scattering

RT shielding

RT spatial dose distributions

**BULBS**

RT allium sativum

RT garlic

RT onions

RT plants

**BULGARIA**

BT1 developing countries

\*BT1 eastern europe

RT black sea

RT centrally planned economies

RT danube river

**BULGARIAN ORGANIZATIONS**

1999-07-12

BT1 national organizations

**bulgarian research reactor irt-2000**

1993-11-04

USE irt-sofia reactor

**BULK DENSITY**

INIS: 1992-05-08; ETDE: 1978-05-03

\*BT1 density

**BULK SEMICONDUCTOR DETECTORS**

\*BT1 semiconductor detectors

RT crystal counters

**bulk shielding reactor-1**

USE bsr-1 reactor

**bulk shielding reactor-2**

USE bsr-2 reactor

**BUMP-IN-TAIL INSTABILITY**

\*BT1 plasma microinstabilities

RT resonance

**BUMPY TORI**

INIS: 1984-02-22; ETDE: 1984-03-06

\*BT1 magnetic mirrors

NT1 elmo bumpy torus

RT tori

**BUNA**

\*BT1 rubbers

RT butadiene

**bunching (beam)**

USE beam bunching

**BUNDESAMT FUER STRAHLENSCHUTZ**

1991-05-02

Federal Office for Radiation Protection,  
Federal Republic of Germany.

UF saas

UF staat amt atomsicherheit und  
strahlenschutzUF staatliches amt fuer atomsicherheit  
und strahlenschutz

\*BT1 german fr organizations

**BUNDLE DIVERTORS**

INIS: 1981-07-06; ETDE: 1979-09-26

Divertors that extract a bundle of magnetic  
field lines.

BT1 divertors

RT toroidal field divertors

**bundles (fuel elements)**

USE fuel element clusters

**bunker oils**

INIS: 1992-05-21; ETDE: 1976-01-23

USE residual fuels

**bunkers**

INIS: 2000-04-12; ETDE: 1977-06-24

USE hoppers

**BUOYS**

INIS: 2000-04-12; ETDE: 1976-08-04

RT meteorology

RT navigational instruments

RT oceanography

RT offshore operations

RT water pollution

**bureau of mines (us)**

INIS: 1977-07-05; ETDE: 1976-11-17

USE us bureau of mines

**bureau of reclamation**

INIS: 2000-04-12; ETDE: 1980-08-25

(Prior to December 1991 this was a valid  
ETDE descriptor.)

USE us bureau of reclamation

**BURGERS VECTOR**

RT dislocations

**BURKINA FASO**

1994-02-28

(Prior to February 2005 UPPER VOLTA was  
also a valid descriptor.)

UF upper volta

BT1 africa

BT1 developing countries

**burma**

1999-01-26

(Until January 1999 this was a valid  
descriptor.)

USE myanmar

**BURNABLE POISONS**

BT1 neutron absorbers

\*BT1 nuclear poisons

RT burnup

RT control elements

RT fluid poison control

RT poisoning

RT reactor control systems

RT reactor kinetics

**burner fuel oil**

INIS: 2000-04-12; ETDE: 1976-03-11

USE heating oils

**BURNERS**

1997-06-19

NT1 gas burners

NT1 oil burners

RT blowoff

RT combustion

RT combustors

RT flashback

RT furnaces

RT incinerators

RT pulse combustion

RT pulse combustors

RT stokers

**BURNOUT**

RT dryout

RT fuel elements

RT heat flux

RT heat transfer

RT hot spots

RT reactor accidents

**BURNOUT DEVICES**

\*BT1 magnetic mirrors

**BURNS**

\*BT1 injuries

NT1 flash burns

NT1 radiation burns

RT fires

RT safety showers

RT skin diseases

**BURNUP**

UF depletion (nuclear fuels)

NT1 burnup extension

RT burnable poisons

RT fuel cooling time

RT fuel cycle

RT fuel scanning

RT nuclear fuels

RT spent fuel elements

**BURNUP EXTENSION**

2003-10-21

BT1 burnup

**BURROS**

UF donkeys

\*BT1 mammals

**burroughs computers**

1997-01-28

(Until October 1996 this was a valid  
descriptor.)

USE computers

**bursa of fabricius**

USE birds

USE lymphatic system

**burst can detection**

USE failed element detection

**burst can monitors**

USE failed element monitors

**burst reactors**

USE pulsed reactors

**burst slug detection**

USE failed element detection

**burst slug monitors**

USE failed element monitors

**BURUNDI**

INIS: 1992-06-04; ETDE: 1983-06-20

BT1 africa

BT1 developing countries

**BUSES**

1992-09-09

UF trolleybuses

BT1 vehicles

RT occupants

RT road tests

RT transportation systems

**bushehr-1 reactor**

2004-05-10

USE iran-1 reactor

**bushehr-2 reactor**

2004-05-10

USE iran-2 reactor

**BUSHINGS**

RT bearings

**BUSINESS**

INIS: 1992-02-21; ETDE: 1980-06-06

Buying and selling of goods and services; also, the activity of an individual, partnership, or organization involving production, commerce, and/or service.

NT1 marketing  
 NT1 procurement  
 NT1 small businesses  
 RT antitrust laws  
 RT economy  
 RT industry  
 RT market  
 RT sectoral analysis  
 RT trade

**buspr reactor**

USE pulstar-buffalo reactor

**busulfan**

USE myleran

**BUTADIENE**

\*BT1 dienes  
 RT buna  
 RT neoprene  
 RT organic polymers

**BUTANE**

\*BT1 alkanes

**BUTANEDIOLS**

INIS: 2000-04-12; ETDE: 1979-07-18

\*BT1 glycols

**butanoic acid**

USE butyric acid

**BUTANOLS**

UF butyl alcohols  
 UF butyric alcohols  
 \*BT1 alcohols

**BUTENES**

UF butylenes  
 \*BT1 alkenes

**butler-born approximation**

USE butler theory

**BUTLER THEORY**

UF butler-born approximation  
 RT stripping

**BUTOXY RADICALS**

\*BT1 alkoxy radicals

**butt welds**

INIS: 1976-03-17; ETDE: 2002-06-13

USE welded joints

**BUTTER**

1996-10-22

\*BT1 milk products

**butter fat**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE fats  
 USE triglycerides

**buttercups**

USE ranunculaceae

**butyl alcohols**

USE butanols

**butyl-alpha-methylbenzylphenol**

1996-06-26

(Prior to June 1996 BAMBP was used for this concept in ETDE.)

USE phenols

**BUTYL ETHER**

UF dibutyl ether  
 \*BT1 ethers  
 RT organic solvents

**BUTYL PHOSPHATES**

\*BT1 phosphoric acid esters  
 NT1 dbp  
 NT1 mbp  
 NT1 tbp

**BUTYL RADICALS**

\*BT1 alkyl radicals

**butylamine**

INIS: 1984-04-04; ETDE: 2002-06-13

USE amines

**butylenes**

USE butenes

**BUTYRIC ACID**

UF butanoic acid  
 \*BT1 monocarboxylic acids

**butyric alcohols**

USE butanols

**butyrolactam**

1996-04-29

USE pyrrolidones

**butyryl radicals**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE acyl radicals

**buyback**

INIS: 1993-01-21; ETDE: 1980-03-04

USE sellback

**buyers**

INIS: 1992-04-03; ETDE: 1979-10-03

USE marketers

**BW STANDARD REACTOR**

1975-10-29

USA.

(Prior to 1975, PWR/241 TYPE REACTORS was used.)

UF babcock and wilcox standard reactor  
 UF pwr/241 type reactors  
 \*BT1 pwr type reactors

**bwr/6 type reactors**

2000-01-10

USE ge standard reactor

**bwr superheater puerto rico reactor**

1993-11-04

USE bonus reactor

**BWR TYPE REACTORS**

UF boiling water cooled and moderated reactor  
 SF braun standard turbine island  
 SF c f braun standard turbine island  
 \*BT1 enriched uranium reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 NT1 allens creek-1 reactor  
 NT1 allens creek-2 reactor  
 NT1 bailly-1 reactor  
 NT1 barsebaeck-1 reactor

NT1 barsebaeck-2 reactor  
 NT1 barton-1 reactor  
 NT1 barton-2 reactor  
 NT1 barton-3 reactor  
 NT1 barton-4 reactor  
 NT1 bell reactor  
 NT1 big rock point reactor  
 NT1 black fox-1 reactor  
 NT1 black fox-2 reactor  
 NT1 bolsa chica-1 reactor  
 NT1 bolsa chica-2 reactor  
 NT1 bonus reactor  
 NT1 browns ferry-1 reactor  
 NT1 browns ferry-2 reactor  
 NT1 browns ferry-3 reactor  
 NT1 brunsbuettel reactor  
 NT1 brunswick-1 reactor  
 NT1 brunswick-2 reactor  
 NT1 chinshan-1 reactor  
 NT1 chinshan-2 reactor  
 NT1 clinton-1 reactor  
 NT1 clinton-2 reactor  
 NT1 cofrentes reactor  
 NT1 cooper reactor  
 NT1 dodewaard reactor  
 NT1 douglas point-1 reactor  
 NT1 douglas point-2 reactor  
 NT1 dresden-1 reactor  
 NT1 dresden-2 reactor  
 NT1 dresden-3 reactor  
 NT1 duane arnold-1 reactor  
 NT1 ebwr reactor  
 NT1 enel-4 reactor  
 NT1 enrico fermi-2 reactor  
 NT1 err reactor  
 NT1 fitzpatrick reactor  
 NT1 forsmark-1 reactor  
 NT1 forsmark-2 reactor  
 NT1 forsmark-3 reactor  
 NT1 fukushima-1 reactor  
 NT1 fukushima-2 reactor  
 NT1 fukushima-3 reactor  
 NT1 fukushima-4 reactor  
 NT1 fukushima-5 reactor  
 NT1 fukushima-6 reactor  
 NT1 fukushima-ii-1 reactor  
 NT1 fukushima-ii-2 reactor  
 NT1 fukushima-ii-3 reactor  
 NT1 fukushima-ii-4 reactor  
 NT1 garigliano reactor  
 NT1 garona reactor  
 NT1 ge standard reactor  
 NT1 graben-1 reactor  
 NT1 graben-2 reactor  
 NT1 grand gulf-1 reactor  
 NT1 grand gulf-2 reactor  
 NT1 gundremmingen-2 reactor  
 NT1 gundremmingen-3 reactor  
 NT1 hamaoka-1 reactor  
 NT1 hamaoka-2 reactor  
 NT1 hamaoka-3 reactor  
 NT1 hamaoka-4 reactor  
 NT1 hamaoka-5 reactor  
 NT1 hartsville-1 reactor  
 NT1 hartsville-2 reactor  
 NT1 hartsville-3 reactor  
 NT1 hartsville-4 reactor  
 NT1 hatch-1 reactor  
 NT1 hatch-2 reactor  
 NT1 hdr reactor  
 NT1 higashidori-1 reactor  
 NT1 hope creek-1 reactor  
 NT1 hope creek-2 reactor  
 NT1 humboldt bay reactor  
 NT1 isar reactor  
 NT1 jpdr-2 reactor  
 NT1 jpdr reactor  
 NT1 kaiseraugst reactor  
 NT1 kashiwazaki-kariwa-1 reactor

NT1 kashiwazaki-kariwa-2 reactor  
 NT1 kashiwazaki-kariwa-3 reactor  
 NT1 kashiwazaki-kariwa-4 reactor  
 NT1 kashiwazaki-kariwa-5 reactor  
 NT1 kashiwazaki-kariwa-6 reactor  
 NT1 kashiwazaki-kariwa-7 reactor  
 NT1 kruemmel reactor  
 NT1 kuosheng-1 reactor  
 NT1 kuosheng-2 reactor  
 NT1 la salle county-1 reactor  
 NT1 la salle county-2 reactor  
 NT1 lacbwr reactor  
 NT1 laguna verde-1 reactor  
 NT1 laguna verde-2 reactor  
 NT1 leibstadt reactor  
 NT1 limerick-1 reactor  
 NT1 limerick-2 reactor  
 NT1 lingen reactor  
 NT1 lungmen-1 reactor  
 NT1 lungmen-2 reactor  
 NT1 mendocino-1 reactor  
 NT1 mendocino-2 reactor  
 NT1 millstone-1 reactor  
 NT1 montague-1 reactor  
 NT1 montague-2 reactor  
 NT1 montalto di castro-1 reactor  
 NT1 montalto di castro-2 reactor  
 NT1 monticello reactor  
 NT1 muehleberg reactor  
 NT1 nine mile point-1 reactor  
 NT1 nine mile point-2 reactor  
 NT1 okg-1 reactor  
 NT1 okg-2 reactor  
 NT1 okg-3 reactor  
 NT1 olkiluoto-1 reactor  
 NT1 olkiluoto-2 reactor  
 NT1 onagawa-1 reactor  
 NT1 onagawa-2 reactor  
 NT1 onagawa-3 reactor  
 NT1 oyster creek-1 reactor  
 NT1 pathfinder reactor  
 NT1 peach bottom-2 reactor  
 NT1 peach bottom-3 reactor  
 NT1 perry-1 reactor  
 NT1 perry-2 reactor  
 NT1 philippsburg-1 reactor  
 NT1 phipps bend-1 reactor  
 NT1 phipps bend-2 reactor  
 NT1 pilgrim-1 reactor  
 NT1 quad cities-1 reactor  
 NT1 quad cities-2 reactor  
 NT1 ringhals-1 reactor  
 NT1 river bend-1 reactor  
 NT1 river bend-2 reactor  
 NT1 rwe-bayernwerk reactor  
 NT1 shika-1 reactor  
 NT1 shika-2 reactor  
 NT1 shimane-1 reactor  
 NT1 shimane-2 reactor  
 NT1 shimane-3 reactor  
 NT1 shoreham reactor  
 NT1 skagit-1 reactor  
 NT1 skagit-2 reactor  
 NT1 sl-1 reactor  
 NT1 susquehanna-1 reactor  
 NT1 susquehanna-2 reactor  
 NT1 tarapur-1 reactor  
 NT1 tarapur-2 reactor  
 NT1 tokai-2 reactor  
 NT1 tsuruga reactor  
 NT1 tullnerfeld reactor  
 NT1 vak reactor  
 NT1 vbwr reactor  
 NT1 vermont yankee reactor  
 NT1 verplanck-1 reactor  
 NT1 verplanck-2 reactor  
 NT1 vk-50 reactor  
 NT1 wnp-2 reactor  
 NT1 wuergassen reactor

NT1 zimmer-1 reactor  
 NT1 zimmer-2 reactor

**BY-PRODUCTS**

1985-12-10

RT chars  
 RT distillers dried grains  
 RT industry  
 RT pyrolysis products  
 RT wastes

**byelorussian SSR**

1993-02-01

USE belarus

**BYPASSES**

UF shunts  
 RT blood vessels  
 RT coolant loops  
 RT reactor cooling systems

**BYRON-1 REACTOR**

Exelon Generation Co., LLC, Byron, Illinois, USA.

\*BT1 pwr type reactors

**BYRON-2 REACTOR**

Exelon Generation Co., LLC, Byron, Illinois, USA.

\*BT1 pwr type reactors

**BYSTANDER EFFECTS**

2014-07-23

Radiobiological

\*BT1 biological radiation effects  
 RT biological adaptation  
 RT radiosensitivity effects

**BYU L-77 REACTOR**

2000-04-12

Brigham Young Univ., Provo, Utah, USA.  
Shut down in 1982; dismantled in 1992.

UF brigham young university laboratory reactor

\*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**c-1430 resonances**

INIS: 1988-03-08; ETDE: 1984-05-23

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**c-2260 resonances**

INIS: 2000-04-12; ETDE: 1978-10-19

USE lambda c plus baryons

**C ANTIQUARKS**

2007-06-26

\*BT1 antiquarks

\*BT1 c quarks

**C CODES**

BT1 computer codes

**c f braun standard turbine island**

INIS: 2000-04-12; ETDE: 1975-07-29

SEE bwr type reactors  
 SEE steam systems  
 SEE turbogenerators

**C INVARIANCE**

UF charge conjugation invariance  
 BT1 invariance principles  
 RT electric charges

**C QUARKS**

INIS: 1995-09-08; ETDE: 1995-10-03

\*BT1 charm particles

\*BT1 quarks

NT1 c antiquarks

RT charmonium

**c-reactive protein**

USE globulins  
 USE immunity

**C REACTOR**

INIS: 1985-11-16; ETDE: 1983-11-23

Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.

UF savannah river plant c reactor

\*BT1 heavy water moderated reactors

\*BT1 special production reactors

**C REGION**

INIS: 1982-10-28; ETDE: 1976-04-19

\*BT1 ionosphere

**C4 SPECIES**

INIS: 1996-01-29; ETDE: 1986-06-12

Plants having a preliminary step in their carbon fixation pathway whereby carbon dioxide binds to phosphoenolpyruvate.

BT1 plants  
 RT calvin cycle species  
 RT carbon dioxide fixation  
 RT chloroplasts  
 RT leaves  
 RT photosynthesis

**cabbage**

USE brassica

**CABIBBO ANGLE**

One of the two angles whose sines and cosines are the coefficients of strangeness-conserving and strangeness-changing vectors and axial parts of the hadronic current.

RT current algebra  
 RT kobayashi-maskawa matrix  
 RT weak interactions

**CABLES**

INIS: 1981-07-06; ETDE: 1976-08-04

For both electric and structural cables.

UF tendons (structural)

NT1 electric cables  
 NT2 coaxial cables  
 NT2 cryogenic cables  
 NT2 gas-insulated cables  
 NT2 mineral-insulated cables  
 NT2 oil-filled cables  
 NT2 superconducting cables

RT chains

RT ropes

**cables (electric)**

2000-04-12

USE electric cables

**CABRI REACTOR**

Nuclear Protection and Safety Inst., CEA St. Paul Lez Durance, France.

UF cadarache swimming pool reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**cambriole event**

1994-10-14

A test made under OPERATION CROSSSTIE. (Prior to September 1994, this was a valid ETDE descriptor.)

USE cratering explosions

USE nuclear explosions

**CACAO TREES**

UF theobroma

- \*BT1 magnoliopsida
- \*BT1 trees
- RT cocoa products

**cacodylic acid**

1996-06-26

(Until June 1996 this was a valid descriptor.)

- USE arsenic compounds
- USE organic acids

**cactaceae**

1979-11-02

- USE cacti

**CACTI**

1979-09-18

- UF cactaceae
- \*BT1 magnoliopsida

**cadarache (cea)**

- USE cea cadarache

**cadarache fuel element testing reactor**

1993-11-04

- USE pegase reactor

**cadarache maquette surgeneratic reactor**

1993-11-04

- USE masurca reactor

**cadarache rapsodie reactor**

- USE rapsodie reactor

**cadarache reactor marius**

- USE marius reactor

**cadarache swimming pool reactor**

1999-04-15

- USE cabri reactor

**CADAVERINE**

- UF 1,5-diaminopentane
- UF pentamethylenediamine
- \*BT1 amines

**CADMIUM**

- \*BT1 metals

**CADMIUM 100**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes

**CADMIUM 101**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**CADMIUM 102**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**CADMIUM 103**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**CADMIUM 104**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**CADMIUM 105**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**CADMIUM 106**

- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CADMIUM 106 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CADMIUM 107**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**CADMIUM 108**

- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CADMIUM 108 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CADMIUM 109**

- \*BT1 cadmium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 years living radioisotopes

**CADMIUM 109 TARGET**

INIS: 1979-02-21; ETDE: 1979-03-28

- BT1 targets

**CADMIUM 110**

- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CADMIUM 110 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CADMIUM 111**

- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 stable isotopes

**CADMIUM 111 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CADMIUM 112**

- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CADMIUM 112 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CADMIUM 113**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes

**CADMIUM 113 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CADMIUM 114**

- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CADMIUM 114 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CADMIUM 115**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CADMIUM 116**

- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CADMIUM 116 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CADMIUM 117**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**CADMIUM 118**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**CADMIUM 119**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**CADMIUM 120**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM 121**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM 122**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes



- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM 123**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM 124**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM 125**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 126**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 127**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 128**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 129**

2007-01-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 130**

INIS: 1987-02-25; ETDE: 1987-05-01

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 131**

2007-01-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 132**

2007-01-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 95**

2007-01-19

- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

- \*BT1 milliseconds living radioisotopes

**CADMIUM 96**

INIS: 1984-06-21; ETDE: 1983-10-11

- \*BT1 cadmium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 97**

INIS: 1980-02-26; ETDE: 1980-03-29

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM 98**

INIS: 1977-02-08; ETDE: 1977-04-13

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM 99**

INIS: 1980-02-26; ETDE: 1980-03-29

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM ADDITIONS**

Alloys containing not more than 1% Cd are listed here.

- \*BT1 cadmium alloys
- NT1 zamak

**CADMIUM-AIR BATTERIES**

INIS: 2000-04-12; ETDE: 1976-03-22

- \*BT1 metal-gas batteries

**CADMIUM ALLOYS**

Alloys containing more than 1% Cd.

- BT1 alloys
- NT1 alloy-bi50pb25cd12sn12
- NT2 wood metal
- NT1 cadmium additions
- NT2 zamak
- NT1 cadmium base alloys
- NT1 cerrobend alloys

**CADMIUM ARSENIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

- \*BT1 solar cells

**CADMIUM ARSENIDES**

INIS: 1978-04-21; ETDE: 1975-11-11

- \*BT1 arsenides
- BT1 cadmium compounds

**CADMIUM BASE ALLOYS**

- \*BT1 cadmium alloys

**CADMIUM BORIDES**

1996-06-26

(From June 1996 to February 2008 CADMIUM COMPOUNDS + BORIDES was used for this concept.)

- \*BT1 borides
- BT1 cadmium compounds

**CADMIUM BROMIDES**

- \*BT1 bromides
- \*BT1 cadmium halides

**CADMIUM CARBIDES**

INIS: 2000-04-12; ETDE: 1976-09-28

- BT1 cadmium compounds

- \*BT1 carbides

**CADMIUM CARBONATES**

- BT1 cadmium compounds
- \*BT1 carbonates

**CADMIUM CHLORIDES**

- \*BT1 cadmium halides
- \*BT1 chlorides

**CADMIUM COMPLEXES**

- BT1 complexes

**CADMIUM COMPOUNDS**

1997-06-17

- NT1 cadmium arsenides
- NT1 cadmium borides
- NT1 cadmium carbides
- NT1 cadmium carbonates
- NT1 cadmium halides
- NT2 cadmium bromides
- NT2 cadmium chlorides
- NT2 cadmium fluorides
- NT2 cadmium iodides
- NT1 cadmium hydroxides
- NT1 cadmium nitrates
- NT1 cadmium oxides
- NT1 cadmium perchlorates
- NT1 cadmium phosphates
- NT1 cadmium phosphides
- NT1 cadmium selenides
- NT1 cadmium silicates
- NT1 cadmium stannates
- NT1 cadmium sulfates
- NT1 cadmium sulfides
- NT1 cadmium tellurides
- NT1 cadmium titanates
- NT1 cadmium tungstates

**CADMIUM FLUORIDES**

- \*BT1 cadmium halides
- \*BT1 fluorides

**CADMIUM HALIDES**

1984-04-04

- BT1 cadmium compounds
- \*BT1 halides
- NT1 cadmium bromides
- NT1 cadmium chlorides
- NT1 cadmium fluorides
- NT1 cadmium iodides

**CADMIUM HYDROXIDES**

- BT1 cadmium compounds
- \*BT1 hydroxides

**CADMIUM IODIDES**

- \*BT1 cadmium halides
- \*BT1 iodides

**CADMIUM IONS**

- \*BT1 ions

**CADMIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 cadmium 100
- NT1 cadmium 101
- NT1 cadmium 102
- NT1 cadmium 103
- NT1 cadmium 104
- NT1 cadmium 105
- NT1 cadmium 106
- NT1 cadmium 107
- NT1 cadmium 108
- NT1 cadmium 109
- NT1 cadmium 110
- NT1 cadmium 111
- NT1 cadmium 112
- NT1 cadmium 113
- NT1 cadmium 114
- NT1 cadmium 115

NT1 cadmium 116  
 NT1 cadmium 117  
 NT1 cadmium 118  
 NT1 cadmium 119  
 NT1 cadmium 120  
 NT1 cadmium 121  
 NT1 cadmium 122  
 NT1 cadmium 123  
 NT1 cadmium 124  
 NT1 cadmium 125  
 NT1 cadmium 126  
 NT1 cadmium 127  
 NT1 cadmium 128  
 NT1 cadmium 129  
 NT1 cadmium 130  
 NT1 cadmium 131  
 NT1 cadmium 132  
 NT1 cadmium 95  
 NT1 cadmium 96  
 NT1 cadmium 97  
 NT1 cadmium 98  
 NT1 cadmium 99

**CADMIUM NITRATES**

BT1 cadmium compounds  
 \*BT1 nitrates

**CADMIUM OXIDES**

BT1 cadmium compounds  
 \*BT1 oxides

**CADMIUM PERCHLORATES**

BT1 cadmium compounds  
 \*BT1 perchlorates

**CADMIUM PHOSPHATES**

BT1 cadmium compounds  
 \*BT1 phosphates

**CADMIUM PHOSPHIDES**

INIS: 1977-01-25; ETDE: 1975-09-11  
 BT1 cadmium compounds  
 \*BT1 phosphides

**CADMIUM SELENIDE SOLAR CELLS**

1992-05-28  
 \*BT1 solar cells

**CADMIUM SELENIDES**

BT1 cadmium compounds  
 \*BT1 selenides

**CADMIUM SILICATES**

BT1 cadmium compounds  
 \*BT1 silicates

**CADMIUM STANNATES**

INIS: 2000-04-12; ETDE: 1976-02-19  
 BT1 cadmium compounds  
 \*BT1 stannates

**CADMIUM SULFATES**

BT1 cadmium compounds  
 \*BT1 sulfates

**CADMIUM SULFIDE SOLAR CELLS**

1992-05-28  
 \*BT1 solar cells

**CADMIUM SULFIDES**

BT1 cadmium compounds  
 \*BT1 inorganic phosphors  
 \*BT1 sulfides

**cadmium telluride detectors**

USE cdte semiconductor detectors

**CADMIUM TELLURIDE SOLAR CELLS**

1992-05-28  
 \*BT1 solar cells

**CADMIUM TELLURIDES**

BT1 cadmium compounds  
 \*BT1 tellurides

**CADMIUM TITANATES**

INIS: 2000-04-12; ETDE: 1978-11-14  
 BT1 cadmium compounds  
 \*BT1 titanates

**CADMIUM TUNGSTATES**

BT1 cadmium compounds  
 \*BT1 inorganic phosphors  
 \*BT1 tungstates

**caes**

INIS: 1993-01-27; ETDE: 1978-09-13  
 USE compressed air energy storage

**caes plant**

INIS: 2000-04-12; ETDE: 1978-09-13  
 USE compressed air storage power plants

**caesium**

ETDE: 2002-06-13  
 USE cesium

**CAFB PROCESS**

2000-04-12  
 Process consists of shallow fluidized bed of lime particles into which high-sulfur heavy fuel oil is injected.

UF chemically active fluidized bed process  
 \*BT1 desulfurization  
 RT fluidized beds

**cafeterias**

INIS: 2000-04-12; ETDE: 1981-01-09  
 USE restaurants

**CAFFEINE**

UF 1,3,7-trimethylxanthine  
 \*BT1 analeptics  
 \*BT1 xanthines

**cairo wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE wwr-s-cairo reactor

**CAKING**

2000-04-12  
 RT agglomeration  
 RT briquetting  
 RT caking power  
 RT compacting

**CAKING POWER**

2000-04-12  
 RT caking

**calabash event**

1994-10-14  
 A test made under OPERATION MANDREL. (Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions  
 USE underground explosions

**CALANDRIAS**

BT1 containers  
 RT pressure tubes

**CALCINATION**

\*BT1 pyrolysis  
 RT calcined wastes  
 RT pyrometallurgy  
 RT radioactive waste processing  
 RT waste processing

**CALCINED WASTES**

INIS: 1981-03-10; ETDE: 1980-11-12  
 Waste forms resulting from the calcination of aqueous nuclear fuel reprocessing wastes and

composed of granular solids of metallic oxides.

\*BT1 radioactive wastes  
 RT calcination  
 RT radioactive waste processing  
 RT solid wastes

**CALCINOSIS**

INIS: 1984-04-04; ETDE: 1980-03-29  
 A condition marked by the deposition of calcium salts in various tissues of the body.  
 BT1 pathological changes

**CALCITE**

UF chalk  
 \*BT1 carbonate minerals  
 RT calcium carbonates  
 RT dolomite  
 RT limestone

**CALCITONIN**

\*BT1 peptide hormones  
 \*BT1 polypeptides  
 RT calcium  
 RT parathyroid glands  
 RT thymus  
 RT thyroid

**CALCIUM**

\*BT1 alkaline earth metals  
 RT blood coagulation factors  
 RT bone tissues  
 RT calcitonin  
 RT hyperparathyroidism  
 RT parathormone  
 RT teeth  
 RT thyrocalcitonin

**CALCIUM 34**

2007-03-13  
 \*BT1 calcium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 proton decay radioisotopes

**CALCIUM 35**

\*BT1 calcium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei

**CALCIUM 36**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 calcium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes

**CALCIUM 37**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 calcium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes

**CALCIUM 38**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 calcium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes

**CALCIUM 39**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 calcium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes

**CALCIUM 39 TARGET**

INIS: 1992-09-22; ETDE: 1983-11-09  
 BT1 targets

**CALCIUM 40**

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 stable isotopes

**CALCIUM 40 BEAMS**

*INIS: 1976-10-07; ETDE: 1976-11-01*

- \*BT1 ion beams

**CALCIUM 40 REACTIONS**

- \*BT1 heavy ion reactions

**CALCIUM 40 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CALCIUM 41**

- \*BT1 calcium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 years living radioisotopes

**CALCIUM 41 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CALCIUM 42**

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 42 REACTIONS**

*1984-11-30*

- \*BT1 heavy ion reactions

**CALCIUM 42 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CALCIUM 43**

- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 43 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CALCIUM 44**

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 44 REACTIONS**

*INIS: 1977-09-15; ETDE: 1977-11-10*

- \*BT1 heavy ion reactions

**CALCIUM 44 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CALCIUM 45**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 46**

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 46 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CALCIUM 47**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 48**

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 48 BEAMS**

*INIS: 1977-04-07; ETDE: 1977-06-02*

- \*BT1 ion beams

**CALCIUM 48 REACTIONS**

*INIS: 1976-11-08; ETDE: 1976-12-16*

- \*BT1 heavy ion reactions

**CALCIUM 48 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CALCIUM 49**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**CALCIUM 49 TARGET**

*INIS: 1984-06-21; ETDE: 1984-07-10*

- BT1 targets

**CALCIUM 50**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CALCIUM 51**

*INIS: 1984-06-21; ETDE: 1981-01-27*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CALCIUM 52**

*INIS: 1984-10-19; ETDE: 1976-05-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CALCIUM 53**

*INIS: 1984-06-21; ETDE: 1984-02-10*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CALCIUM 54**

*2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 55**

*2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 56**

*2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 57**

*2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 58**

*2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 60**

*2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM ADDITIONS**

*Alloys containing not more than 1% Ca are listed here.*

- \*BT1 calcium alloys

**CALCIUM ALLOYS**

*Alloys containing more than 1% Ca.*

- BT1 alloys
- NT1 calcium additions
- NT1 calcium base alloys

**CALCIUM BASE ALLOYS**

- \*BT1 calcium alloys

**CALCIUM BORIDES**

- \*BT1 borides
- \*BT1 calcium compounds

**CALCIUM BROMIDES**

- \*BT1 bromides
- \*BT1 calcium halides

**CALCIUM CARBIDES**

- \*BT1 calcium compounds
- \*BT1 carbides

**CALCIUM CARBONATES**

*1996-07-08*

- \*BT1 calcium compounds
- \*BT1 carbonates
- RT ankerite
- RT aragonite
- RT calcite
- RT carbonate minerals
- RT dolomite
- RT limestone
- RT liming
- RT marble
- RT marlstone
- RT phosphate rocks
- RT shortite
- RT travertine

**CALCIUM CHLORIDES**

- \*BT1 calcium halides
- \*BT1 chlorides

**CALCIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**CALCIUM COMPOUNDS**

*1997-06-17*

- BT1 alkaline earth metal compounds
- NT1 calcium borides
- NT1 calcium carbides

NT1 calcium carbonates  
 NT1 calcium halides  
 NT2 calcium bromides  
 NT2 calcium chlorides  
 NT2 calcium fluorides  
 NT2 calcium iodides  
 NT1 calcium hydrides  
 NT1 calcium hydroxides  
 NT1 calcium nitrates  
 NT1 calcium nitrides  
 NT1 calcium oxides  
 NT1 calcium perchlorates  
 NT1 calcium phosphates  
 NT1 calcium silicates  
 NT1 calcium silicides  
 NT1 calcium sulfates  
 NT1 calcium sulfides  
 NT1 calcium tungstates

**CALCIUM FLUORIDES**

\*BT1 calcium halides  
 \*BT1 fluorides  
 RT fluoride  
 RT halide minerals  
 RT thermoluminescent dosimeters

**CALCIUM HALIDES**

1983-10-14

\*BT1 calcium compounds  
 \*BT1 halides  
 NT1 calcium bromides  
 NT1 calcium chlorides  
 NT1 calcium fluorides  
 NT1 calcium iodides

**CALCIUM HYDRIDES**

\*BT1 calcium compounds  
 \*BT1 hydrides

**CALCIUM HYDROXIDES**

\*BT1 calcium compounds  
 \*BT1 hydroxides

**calcium hydroxyapatite**

INIS: 1984-04-04; ETDE: 2002-06-13

USE apatites  
 USE calcium phosphates

**CALCIUM IODIDES**

\*BT1 calcium halides  
 \*BT1 iodides

**CALCIUM IONS**

\*BT1 ions

**CALCIUM ISOTOPES**

1999-02-01

\*BT1 alkaline earth isotopes  
 NT1 calcium 34  
 NT1 calcium 35  
 NT1 calcium 36  
 NT1 calcium 37  
 NT1 calcium 38  
 NT1 calcium 39  
 NT1 calcium 40  
 NT1 calcium 41  
 NT1 calcium 42  
 NT1 calcium 43  
 NT1 calcium 44  
 NT1 calcium 45  
 NT1 calcium 46  
 NT1 calcium 47  
 NT1 calcium 48  
 NT1 calcium 49  
 NT1 calcium 50  
 NT1 calcium 51  
 NT1 calcium 52  
 NT1 calcium 53  
 NT1 calcium 54  
 NT1 calcium 55  
 NT1 calcium 56  
 NT1 calcium 57

NT1 calcium 58  
 NT1 calcium 60  
 RT bone seekers

**CALCIUM NITRATES**

\*BT1 calcium compounds  
 \*BT1 nitrates

**CALCIUM NITRIDES**

\*BT1 calcium compounds  
 \*BT1 nitrides

**CALCIUM OXIDES**

1996-07-08

\*BT1 calcium compounds  
 \*BT1 oxides  
 RT becquerelite  
 RT ellsworthite  
 RT liming  
 RT melanovanadite  
 RT oxide minerals  
 RT pascoite  
 RT perovskite  
 RT rauvite  
 RT tyuyamunite  
 RT zirconolite

**CALCIUM PERCHLORATES**

1991-09-16

\*BT1 calcium compounds  
 \*BT1 perchlorates

**CALCIUM PHOSPHATES**

1996-06-28

UF calcium hydroxyapatite  
 \*BT1 calcium compounds  
 \*BT1 phosphates  
 RT phosphate rocks

**CALCIUM SILICATES**

1996-11-13

\*BT1 calcium compounds  
 \*BT1 silicates  
 RT epidote  
 RT garnets  
 RT ilvaite  
 RT kainosite  
 RT lavenite  
 RT ranquillite  
 RT silicate minerals  
 RT uranophane

**CALCIUM SILICIDES**

INIS: 2000-05-02; ETDE: 1976-06-07

\*BT1 calcium compounds  
 \*BT1 silicides

**CALCIUM SULFATES**

\*BT1 calcium compounds  
 \*BT1 sulfates  
 RT anhydrite  
 RT gypsum  
 RT polyhalite  
 RT sulfate minerals  
 RT thermoluminescent dosimeters

**CALCIUM SULFIDES**

\*BT1 calcium compounds  
 \*BT1 sulfides

**CALCIUM TUNGSTATES**

\*BT1 calcium compounds  
 \*BT1 inorganic phosphors  
 \*BT1 tungstates

**CALCRETES**

INIS: 1994-09-29; ETDE: 1978-06-14

Conglomerate consisting of surficial sand and gravel cemented in a hard mass by calcium carbonate. Important host for uranium deposits in some parts of the world. (Until September 1994 this concept was indexed to LIMESTONE.)

\*BT1 conglomerates

**CALCULATION METHODS**

INIS: 1996-07-08; ETDE: 1975-11-11

NT1 adjoint difference method  
 NT1 approximations  
 NT2 adiabatic approximation  
 NT2 born approximation  
 NT3 coupled channel born approximation  
 NT3 dwba  
 NT2 born-oppenheimer approximation  
 NT2 brinkman-kramers approximation  
 NT2 broken-pair approximation  
 NT2 diabatic approximation  
 NT2 dirac approximation  
 NT2 eikonal approximation  
 NT2 equivalent-photon approximation  
 NT2 fsc approximation  
 NT2 guiding-center approximation  
 NT2 hartree-fock method  
 NT2 impulse approximation  
 NT2 ladder approximation  
 NT2 pade approximation  
 NT2 random phase approximation  
 NT2 rosseland approximation  
 NT2 semiclassical approximation  
 NT2 spherical harmonics method  
 NT3 p1-approximation  
 NT3 p2-approximation  
 NT3 p3-approximation  
 NT2 straight-line path approximation  
 NT2 sudden approximation  
 NT2 tomonaga approximation  
 NT2 unitary pole approximation  
 NT2 wkb approximation  
 NT2 zero-range approximation  
 NT1 binary encounter method  
 NT1 bogolyubov method  
 NT1 brueckner method  
 NT1 case method  
 NT1 chew-low method  
 NT1 collision probability method  
 NT1 deterministic estimation  
 NT1 discrete ordinate method  
 NT1 dynamic programming  
 NT1 feynman method  
 NT1 finite element method  
 NT2 boundary element method  
 NT1 generator-coordinate method  
 NT1 homogenization methods  
 NT1 iterative methods  
 NT2 finite difference method  
 NT2 galerkin-petrov method  
 NT2 newton method  
 NT2 runge-kutta method  
 NT1 k-harmonics method  
 NT1 leao method  
 NT1 linear programming  
 NT1 lyapunov method  
 NT1 molecular dynamics method  
 NT1 molecular orbital method  
 NT1 moments method  
 NT1 monte carlo method  
 NT2 quantum monte carlo method  
 NT3 diffusion monte carlo method  
 NT3 variational monte carlo method  
 NT1 multiple collision method  
 NT1 n-d method  
 NT1 nodal expansion method  
 NT1 nonlinear programming

**NT1** omnes-muskhelishvili method  
**NT1** oseen method  
**NT1** patterson method  
**NT1** probabilistic estimation  
**NT1** response matrix method  
**NT1** ritz method  
**NT1** rydberg-klein-rees method  
**NT1** saddle-point method  
**NT1** slater method  
**NT1** tamm-dancoff method  
**NT1** transfer matrix method  
**NT1** variational methods  
**NT2** density functional method  
**NT2** hsk procedure  
**NT2** resonating-group method  
**NT2** schwinger variational method  
**NT1** wick-chandrasekhar method  
**NT1** wigner-seitz method  
**NT1** yvon method  
**RT** algorithms  
**RT** mathematical solutions  
**RT** measuring methods  
**RT** numerical solution  
**RT** quantum monte carlo method  
**RT** sensitivity analysis

### calculations (1-dimensional)

USE one-dimensional calculations

### calculations (2-dimensional)

USE two-dimensional calculations

### calculations (3-dimensional)

USE three-dimensional calculations

### calculations (4-dimensional)

USE four-dimensional calculations

### calculations (computer)

USE computer calculations

### calculations (many dimensions)

USE many-dimensional calculations

### CALCULATORS

*INIS: 1985-12-10; ETDE: 1978-11-14*  
 Small, often hand-held, devices capable of carrying out limited logic and arithmetic operations.

*UF* pocket calculators

\***BT1** digital computers

**RT** data processing

### CALCULI

*In biology and medicine only; to be assigned in coordination with descriptors specifying their location such as URINARY TRACT, PANCREAS, etc.*

*UF* gallstones

*UF* kidney stones

**RT** kidneys

**RT** urinary tract

### calculus (differential)

USE differential calculus

### CALCUTTA CYCLOTRON

*INIS: 1983-06-01; ETDE: 1983-03-24*

\***BT1** heavy ion accelerators

\***BT1** variable energy cyclotrons

### CALDASITE

\***BT1** igneous rocks

\***BT1** uranium ores

**RT** baddeleyite

**RT** zircon

### CALDER HALL A-1 REACTOR

*Seascale, Cumbria, United Kingdom.*

*Permanently shut down since 2003.*

*UF* a-1 reactor (calder hall)

\***BT1** carbon dioxide cooled reactors

\***BT1** magnox type reactors

\***BT1** plutonium production reactors

\***BT1** thermal reactors

### CALDER HALL A-2 REACTOR

*Seascale, Cumbria, United Kingdom.*

*Permanently shut down since 2003.*

*UF* a-2 reactor (calder hall)

\***BT1** carbon dioxide cooled reactors

\***BT1** magnox type reactors

\***BT1** plutonium production reactors

\***BT1** thermal reactors

### CALDER HALL B-3 REACTOR

*Seascale, Cumbria, United Kingdom.*

*Permanently shut down since 2003.*

\***BT1** carbon dioxide cooled reactors

\***BT1** magnox type reactors

\***BT1** plutonium production reactors

\***BT1** thermal reactors

### CALDER HALL B-4 REACTOR

*Seascale, Cumbria, United Kingdom.*

*Permanently shut down since 2003.*

\***BT1** carbon dioxide cooled reactors

\***BT1** magnox type reactors

\***BT1** plutonium production reactors

\***BT1** thermal reactors

### CALDERAS

*INIS: 1984-04-04; ETDE: 1976-08-04*

*Large, basin-shaped volcanic depressions, more or less circular in form, the diameter of which is many times greater than that of the included vent or vents.*

**RT** volcanoes

### CALENDARS

*INIS: 2000-04-12; ETDE: 1975-11-28*

**RT** time measurement

### CALHOUN-1 REACTOR

*Omaha Public Power District, Fort Calhoun, Nebraska, USA. Permanent shutdown since 2016.*

*UF* fort calhoun-1 reactor

\***BT1** pwr type reactors

### CALHOUN-2 REACTOR

*INIS: 1976-02-11; ETDE: 1975-11-28*

*Omaha Public Power District, Fort Calhoun, Nebraska, USA. Canceled in 1977 before construction began.*

*UF* fort calhoun-2 reactor

\***BT1** pwr type reactors

### CALIBRATION

**RT** absolute counting

**RT** accuracy

**RT** calibration standards

**RT** inspection

**RT** radiation metrology

**RT** scaling laws

### CALIBRATION STANDARDS

*UF* reference materials (standard)

*UF* srm

*UF* standard reference materials

*UF* standards (calibration)

**BT1** standards

**RT** accuracy

**RT** calibration

**RT** interlaboratory comparisons

**RT** nisus facility

**RT** ssdl

**RT** standardization

### CALIFORNIA

*1997-06-19*

*UF* humboldt bay

\***BT1** usa

**NT1** brawley geothermal field

**NT1** coso hot springs

**NT1** los angeles

**RT** atomics international canoga park plant

**RT** cascade mountains

**RT** edna deposit

**RT** geysers geothermal field

**RT** great basin

**RT** heber geothermal field

**RT** imperial valley

**RT** lawrence berkeley laboratory

**RT** lawrence livermore laboratory

**RT** lawrence livermore national laboratory

**RT** long valley

**RT** salton sea geothermal field

**RT** san bernardino mountains

**RT** san francisco bay

**RT** sandia laboratories

**RT** sandia national laboratories

**RT** santa barbara channel

**RT** sierra nevada colorado

**RT** stanford linear accelerator center

**RT** ucla

**RT** us naval petroleum reserves

**RT** us west coast

**RT** wendell-amedee hot springs

### california berkeley triga reactor

*INIS: 1993-11-04; ETDE: 2002-06-13*

USE ucbr reactor

### california irvine triga-mk-1 reactor

*INIS: 1993-11-04; ETDE: 2002-06-13*

USE triga-1-california reactor

### CALIFORNIUM

\***BT1** actinides

\***BT1** transplutonium elements

### CALIFORNIUM 236

*2007-07-10*

\***BT1** actinide nuclei

\***BT1** californium isotopes

\***BT1** even-even nuclei

### CALIFORNIUM 237

*2007-07-10*

\***BT1** actinide nuclei

\***BT1** alpha decay radioisotopes

\***BT1** californium isotopes

\***BT1** even-odd nuclei

\***BT1** seconds living radioisotopes

\***BT1** spontaneous fission radioisotopes

### CALIFORNIUM 238

*INIS: 1992-09-22; ETDE: 1979-11-23*

\***BT1** actinide nuclei

\***BT1** californium isotopes

\***BT1** even-even nuclei

### CALIFORNIUM 239

*INIS: 1986-06-09; ETDE: 1982-03-11*

\***BT1** actinide nuclei

\***BT1** alpha decay radioisotopes

\***BT1** californium isotopes

\***BT1** even-odd nuclei

\***BT1** seconds living radioisotopes

### CALIFORNIUM 240

*INIS: 1986-06-09; ETDE: 1988-12-05*

\***BT1** actinide nuclei

\***BT1** alpha decay radioisotopes

\***BT1** californium isotopes

\***BT1** even-even nuclei

\***BT1** minutes living radioisotopes

### CALIFORNIUM 241

*INIS: 1986-06-09; ETDE: 1988-12-05*

\***BT1** actinide nuclei

\***BT1** alpha decay radioisotopes

\***BT1** californium isotopes

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes

**CALIFORNIUM 242**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes

**CALIFORNIUM 243**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes

**CALIFORNIUM 244**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes

**CALIFORNIUM 244 TARGET**

*INIS: 1992-09-22; ETDE: 1978-09-11*  
BT1 targets

**CALIFORNIUM 245**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes

**CALIFORNIUM 246**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes

**CALIFORNIUM 246 TARGET**

*INIS: 1992-09-22; ETDE: 1984-08-06*  
BT1 targets

**CALIFORNIUM 247**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes

**CALIFORNIUM 248**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes

**CALIFORNIUM 249**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 even-odd nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CALIFORNIUM 249 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**CALIFORNIUM 250**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes

- \*BT1 even-even nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CALIFORNIUM 250 TARGET**

*INIS: 1978-07-03; ETDE: 1977-08-24*  
BT1 targets

**CALIFORNIUM 251**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 even-odd nuclei
- \*BT1 years living radioisotopes

**CALIFORNIUM 251 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**CALIFORNIUM 252**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CALIFORNIUM 252 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**CALIFORNIUM 253**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei

**CALIFORNIUM 254**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes

**CALIFORNIUM 254 TARGET**

*INIS: 1978-09-28; ETDE: 1978-07-05*  
BT1 targets

**CALIFORNIUM 255**

- INIS: 1977-01-25; ETDE: 1976-11-01*
- \*BT1 actinide nuclei
  - \*BT1 beta-minus decay radioisotopes
  - \*BT1 californium isotopes
  - \*BT1 even-odd nuclei
  - \*BT1 hours living radioisotopes

**CALIFORNIUM 256**

- INIS: 1978-09-28; ETDE: 1977-12-22*
- \*BT1 actinide nuclei
  - \*BT1 californium isotopes
  - \*BT1 even-even nuclei
  - \*BT1 minutes living radioisotopes
  - \*BT1 spontaneous fission radioisotopes

**californium additions**

*2000-04-12*  
(Prior to August 1993 this was a valid ETDE descriptor.)  
USE alloys  
USE californium compounds

**CALIFORNIUM ALLOYS**

*INIS: 1979-04-27; ETDE: 1978-10-23*  
*Alloys containing more than 1% Cf.*  
\*BT1 actinide alloys

**CALIFORNIUM ARSENIDES**

*INIS: 1996-07-18; ETDE: 1978-10-23*  
(From July 1996 to February 2008 CALIFORNIUM COMPOUNDS + ARSENIDES was used for this concept.)  
\*BT1 arsenides  
\*BT1 californium compounds

**CALIFORNIUM BROMIDES**

- \*BT1 bromides
- \*BT1 californium halides

**CALIFORNIUM CHLORIDES**

- \*BT1 californium halides
- \*BT1 chlorides

**CALIFORNIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**CALIFORNIUM COMPOUNDS**

*1996-11-13*

- UF californium additions*
- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 californium arsenides
- NT1 californium halides
- NT2 californium bromides
- NT2 californium chlorides
- NT2 californium fluorides
- NT2 californium iodides
- NT1 californium nitrates
- NT1 californium nitrides
- NT1 californium oxides
- NT1 californium selenides
- NT1 californium sulfides
- NT1 californium tellurides

**CALIFORNIUM FLUORIDES**

- \*BT1 californium halides
- \*BT1 fluorides

**CALIFORNIUM HALIDES**

*2008-02-07*

- \*BT1 californium compounds
- \*BT1 halides
- NT1 californium bromides
- NT1 californium chlorides
- NT1 californium fluorides
- NT1 californium iodides

**CALIFORNIUM IODIDES**

*1997-01-28*

(From October 1996 to February 2008 CALIFORNIUM COMPOUNDS + IODIDES was used for this concept.)  
\*BT1 californium halides  
\*BT1 iodides

**CALIFORNIUM IONS**

- \*BT1 ions

**CALIFORNIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 californium 236
- NT1 californium 237
- NT1 californium 238
- NT1 californium 239
- NT1 californium 240
- NT1 californium 241
- NT1 californium 242
- NT1 californium 243
- NT1 californium 244
- NT1 californium 245
- NT1 californium 246
- NT1 californium 247
- NT1 californium 248
- NT1 californium 249
- NT1 californium 250
- NT1 californium 251
- NT1 californium 252

**NT1** californium 253  
**NT1** californium 254  
**NT1** californium 255  
**NT1** californium 256

**CALIFORNIUM NITRATES**

1997-01-28

(From November 1996 to November 2007

CALIFORNIUM COMPOUNDS +  
NITRATES was used for this concept.)

\*BT1 californium compounds

\*BT1 nitrates

**CALIFORNIUM NITRIDES**

1996-07-18

(From July 1996 to November 2007

CALIFORNIUM COMPOUNDS +  
NITRIDES was used for this concept.)

\*BT1 californium compounds

\*BT1 nitrides

**CALIFORNIUM OXIDES**

\*BT1 californium compounds

\*BT1 oxides

**CALIFORNIUM SELENIDES**

INIS: 1996-07-18; ETDE: 1978-10-23

(From July 1996 to November 2007

CALIFORNIUM COMPOUNDS +  
SELENIDES was used for this concept.)

\*BT1 californium compounds

\*BT1 selenides

**CALIFORNIUM SULFIDES**

1996-07-18

(From July 1996 to November 2007

CALIFORNIUM COMPOUNDS +  
SULFIDES was used for this concept.)

\*BT1 californium compounds

\*BT1 sulfides

**CALIFORNIUM TELLURIDES**

INIS: 1996-07-18; ETDE: 1978-10-23

(From July 1996 to February 2008

CALIFORNIUM COMPOUNDS +  
TELLURIDES was used for this concept.)

\*BT1 californium compounds

\*BT1 tellurides

**CALIPER LOGGING**

INIS: 2000-04-12; ETDE: 1976-08-24

BT1 well logging

**CALIXARENES**

1998-09-23

\*BT1 polycyclic aromatic hydrocarbons

**CALLAWAY-1 REACTOR**

Union Electric Co., Fulton, Missouri, USA.

\*BT1 pwr type reactors

**CALLAWAY-2 REACTOR**

Union Electric Co., Fulton, Missouri, USA.

Canceled in 1981 before construction began.

\*BT1 pwr type reactors

**CALMODULIN**

INIS: 1993-08-03; ETDE: 1987-07-22

\*BT1 proteins

RT membrane transport

RT receptors

**caloricon process**

INIS: 2000-04-12; ETDE: 1981-08-04

(Prior to April 1994, this was a valid ETDE  
descriptor.)

USE waste processing

**CALORIFIC VALUE**

INIS: 1992-03-17; ETDE: 1976-01-23

Quantity of heat liberated on the complete  
combustion of a unit weight or unit volume of  
fuel.

UF btu content

BT1 combustion properties

RT combustion

RT combustion heat

RT fuels

**calorimeter detectors**

INIS: 1986-07-09; ETDE: 2002-06-13

USE shower counters

**CALORIMETERS**

BT1 measuring instruments

RT calorimetric dosimeters

RT calorimetry

RT temperature measurement

**calorimeters (particle)**

INIS: 2000-04-12; ETDE: 1979-03-28

USE shower counters

**CALORIMETRIC DOSEMETERS**

\*BT1 dosimeters

RT calorimeters

RT thermocouples

**CALORIMETRY**

RT calorimeters

RT heat transfer

RT temperature measurement

**calorizing**

USE diffusion coating

**caltech synchrotron**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE synchrotrons

**calutrons**

INIS: 2000-04-12; ETDE: 1984-02-10

USE electromagnetic isotope separators

**CALVERT CLIFFS-1 REACTOR**CCNPPI - subsidiary of Constellation Energy  
Group, Lusby, Maryland, USA.

\*BT1 pwr type reactors

**CALVERT CLIFFS-2 REACTOR**CCNPPI - subsidiary of Constellation Energy  
Group, Lusby, Maryland, USA.

\*BT1 pwr type reactors

**CALVES**

\*BT1 cattle

**CALVIN CYCLE SPECIES**

INIS: 1992-04-28; ETDE: 1986-07-03

Plants that fix carbon by the reductive pentose  
phosphate pathway only.

BT1 plants

RT c4 species

RT carbon dioxide fixation

RT chloroplasts

RT leaves

RT photosynthesis

**cam**

INIS: 1984-01-18; ETDE: 1983-07-07

USE computer-aided manufacturing

**CAMAC SYSTEM**Computer Application to Measurement And  
Control.

RT computers

RT data acquisition systems

RT data transmission

RT electronic equipment

RT equipment interfaces

RT fastbus system  
 RT modular structures  
 RT nuclear instrument modules  
 RT on-line control systems  
 RT specifications

**cambiium**

USE meristems

**CAMBODIA**

BT1 asia

**CAMBRIAN PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

\*BT1 paleozoic era

**CAMBRIDGE ELECTRON****ACCELERATOR**

UF cea (accelerator)

\*BT1 synchrotrons

**camellia sinensis**

1980-11-07

USE tea plants

**CAMELS**

INIS: 1992-03-02; ETDE: 1992-02-05

\*BT1 ruminants

RT domestic animals

**CAMERA TUBES**

1996-07-08

(Prior to July 1996 ICONOSCOPES and  
ORTHICONS were valid ETDE descriptors.)

UF iconoscopes

UF orthicons

BT1 image tubes

NT1 vidicons

RT television

**CAMERAS**

NT1 gamma cameras

NT2 positron cameras

NT1 neutron cameras

NT1 streak cameras

NT1 television cameras

RT photography

RT radioisotope scanning

**CAMEROON**

BT1 africa

BT1 developing countries

**camp**

USE amp

**camp century medium power plant 2a**

1993-11-04

USE pm-2a reactor

**CAMPBELLING CIRCUITS**

1976-08-17

Circuits based on Campbell's mean square  
theorem for evaluating the signal from an  
ionization chamber.

BT1 electronic circuits

RT ionization chambers

**camphene**

1996-10-22

(Until October 1996 this was a valid  
descriptor.)

USE cycloalkenes

USE terpenes

**CAMPBOR**

\*BT1 ketones

\*BT1 terpenes

RT celluloid

**CANADA**

1997-06-17

BT1 developed countries

BT1 north america  
 NT1 alberta  
 NT1 british columbia  
 NT1 manitoba  
 NT1 new brunswick  
 NT1 newfoundland  
 NT1 northwest territories  
 NT1 nova scotia  
 NT1 nunavut  
 NT1 ontario  
 NT2 chalk river  
 NT2 deep river  
 NT2 elliot lake  
 NT1 prince edward island  
 NT1 quebec  
 NT1 saskatchewan  
 NT1 yukon territory  
 RT appalachian mountains  
 RT athabasca deposit  
 RT bay of fundy  
 RT chalk river nuclear labs  
 RT cold lake deposit  
 RT fraser river  
 RT lake wabamun  
 RT nelson river  
 RT oecd  
 RT peace river deposit  
 RT polar gas project  
 RT rocky mountains  
 RT saint clair river  
 RT saint john river  
 RT wabasca deposit

**canada-india reactor**

USE cirus reactor

**canada nrx research reactor**

USE nrx reactor

**CANADIAN AECB**

INIS: 1977-03-14; ETDE: 1977-06-02  
*Canadian Atomic Energy Control Board.*  
 UF aecb canada  
 UF atomic energy control board (canada)  
 \*BT1 canadian organizations

**canadian nru reactor**

USE nru reactor

**CANADIAN ORGANIZATIONS**

BT1 national organizations  
 NT1 atomic energy of canada ltd  
 NT2 chalk river nuclear labs  
 NT2 wnre  
 NT1 canadian aecb

**canal manivier**

2004-12-15

USE manivier canal

**canals (waterways)**

USE inland waterways

**CANARE**

INIS: 1989-02-24; ETDE: 1989-03-20  
*Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency.*  
 UF assistance in nuclear accident/radiological emergency conv.  
 UF conv assist nuc acc/rad emerg  
 \*BT1 multilateral agreements  
 RT iaea  
 RT radiation accidents  
 RT reactor accidents

**CANARY ISLANDS**

2000-04-12

BT1 islands  
 \*BT1 spain

**canberra tokamak**

ETDE: 1976-05-19  
 USE lt-3 tokamak

**CANCELLATION**

INIS: 1985-03-19; ETDE: 1983-09-15  
*Primarily for, but not limited to, energy facilities.*  
 RT amortization  
 RT decommissioning  
 RT planning  
 RT shutdown

**cancer**

USE neoplasms

**CANDIDA**

UF monilia  
 \*BT1 yeasts

**candu reactors**

2009-10-30

*The specific CANDU type reactor(s) should be indexed if known.*  
 USE candu type reactors

**CANDU TYPE REACTORS**

INIS: 1975-09-12; ETDE: 1975-10-28  
*Thermal power reactors of Canadian design characterized by heavy water moderator, pressure tube construction, and on-power refuelling.*

UF candu reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 pressure tube reactors  
 \*BT1 thermal reactors  
 NT1 bruce-1 reactor  
 NT1 bruce-2 reactor  
 NT1 bruce-3 reactor  
 NT1 bruce-4 reactor  
 NT1 bruce-5 reactor  
 NT1 bruce-6 reactor  
 NT1 bruce-7 reactor  
 NT1 bruce-8 reactor  
 NT1 cernavoda-1 reactor  
 NT1 cernavoda-2 reactor  
 NT1 cordoba reactor  
 NT1 darlington-1 reactor  
 NT1 darlington-2 reactor  
 NT1 darlington-3 reactor  
 NT1 darlington-4 reactor  
 NT1 douglas point ontario reactor  
 NT1 embalse reactor  
 NT1 gentilly-1 reactor  
 NT1 gentilly-2 reactor  
 NT1 kaiga-1 reactor  
 NT1 kaiga-2 reactor  
 NT1 kakrapar-1 reactor  
 NT1 kakrapar-2 reactor  
 NT1 kanupp reactor  
 NT1 npd reactor  
 NT1 pickering-1 reactor  
 NT1 pickering-2 reactor  
 NT1 pickering-3 reactor  
 NT1 pickering-4 reactor  
 NT1 pickering-5 reactor  
 NT1 pickering-6 reactor  
 NT1 pickering-7 reactor  
 NT1 pickering-8 reactor  
 NT1 point lepreau-1 reactor  
 NT1 point lepreau-2 reactor  
 NT1 qinshan-3-1 reactor  
 NT1 qinshan-3-2 reactor  
 NT1 rajasthan-1 reactor  
 NT1 rajasthan-2 reactor  
 NT1 rajasthan-3 reactor  
 NT1 rajasthan-4 reactor  
 NT1 wolsung-1 reactor  
 NT1 wolsung-2 reactor  
 NT1 wolsung-3 reactor

NT1 wolsung-4 reactor

**canines**

INIS: 2000-04-12; ETDE: 1981-06-15  
 USE dogs

**canis latrans**

INIS: 1993-02-18; ETDE: 1981-04-17  
 USE coyotes

**canisters**

INIS: 2000-04-12; ETDE: 1984-11-08  
 USE containers

**CANNEL COAL**

2000-04-12  
 \*BT1 sapropelic coal

**cannikin event**

1994-10-14  
*A test made during OPERATION GROMMET. (Prior to September 1994, this was a valid ETDE descriptor.)*  
 USE nuclear explosions  
 USE underground explosions

**CANNING**

UF sheathing  
 \*BT1 materials working  
 RT cladding  
 RT fuel cans

**canning (food)**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE food processing

**CANONICAL DIMENSION**

*Scale dimension of quantum fields obeying canonical equal-time commutation relations.*  
 BT1 scale dimension  
 RT commutation relations

**canonical equations**

USE differential equations

**canonical quantum field theory**

INIS: 1977-11-21; ETDE: 1979-05-03  
 USE lagrangian field theory

**CANONICAL TRANSFORMATIONS**

BT1 transformations  
 NT1 bogolyubov transformation  
 NT1 foldy-wouthuysen transform  
 RT equations of motion  
 RT mathematics  
 RT mechanics  
 RT quantum mechanics

**CANOPIES**

INIS: 1992-03-05; ETDE: 1985-02-07  
*Vegetative canopies only.*  
 RT forests  
 RT ground cover  
 RT leaves  
 RT plants  
 RT throughfall  
 RT trees

**CANYONS**

2008-04-29  
*Channels between two generally parallel high obstacles, such as cliffs or high-rise buildings.*  
 NT1 submarine canyons  
 RT high-rise buildings  
 RT mountains  
 RT topography  
 RT urban areas  
 RT valleys

**caorso reactor**

2000-04-12  
 USE enel-4 reactor



**CAP ROCK**

2000-04-12

- \*BT1 geologic strata
- RT rocks

**CAPACITANCE**

INIS: 1984-01-18; ETDE: 1981-06-13

- \*BT1 electrical properties
- RT deep level transient spectroscopy
- RT dielectric properties
- RT electric charges
- RT electric impedance
- RT inductance

**CAPACITIVE ENERGY STORAGE EQUIPMENT**

INIS: 2000-04-12; ETDE: 1979-02-27

- SF supercapacitors
- BT1 equipment
- RT capacitors
- RT energy storage
- RT energy storage systems
- RT peaking power plants

**CAPACITORS**

- UF condensers (electric)
- UF electric condensers
- \*BT1 electrical equipment
- RT capacitive energy storage equipment
- RT dielectric materials
- RT electrostatics
- RT energy storage
- RT energy storage systems
- RT power supplies

**capacitrons**

1996-06-26

- (Until June 1996 this was a valid descriptor.)
- USE rectifier tubes

**CAPACITY**

INIS: 1982-12-03; ETDE: 1977-06-02

Coordinate with descriptor for appropriate other term. Not for electrical capacitance.

- UF generating capacity
- UF production capacity
- UF reserve capacity
- RT load management
- RT outages
- RT power generation
- RT production

**CAPE FEAR RIVER**

- \*BT1 rivers
- RT north carolina

**CAPE KENNEDY**

- \*BT1 florida

**CAPE VERDE ISLANDS**

INIS: 1992-06-04; ETDE: 1979-12-10

- BT1 islands
- RT atlantic ocean

**CAPILLARIES**

- \*BT1 blood vessels
- RT animal tissues
- RT glomeruli
- RT histamine
- RT respiration
- RT supercritical fluid chromatography
- RT vasoconstriction
- RT vasodilation

**capillary action shaping technique**

INIS: 2000-04-12; ETDE: 1980-02-11

- USE cast method

**CAPILLARY FLOW**

- BT1 fluid flow
- RT heat pipe wicks
- RT heat pipes

**CAPITAL**

- RT capitalized cost
- RT cost
- RT economics
- RT euromarket
- RT expenditures
- RT financing
- RT investment

**capital costs**

INIS: 2000-04-12; ETDE: 1983-02-09

- USE capitalized cost

**CAPITALIZED COST**

INIS: 1985-07-18; ETDE: 1980-06-06

(Prior to August 1985 CAPITAL COST was used.)

- UF capital costs
- BT1 cost
- RT capital
- RT economic analysis
- RT operating cost

**capric acid**

- USE decanoic acid

**caproic acid**

- USE hexanoic acid

**caprylic acid**

- USE octanoic acid

**CAPSICUM**

- \*BT1 magnoliopsida
- RT peppers
- RT spices

**CAPSULES**

- BT1 containers
- RT encapsulation

**capsules (irradiation)**

- USE irradiation capsules

**CAPTURE**

1996-01-24

For capture cross sections, see also

INTEGRAL CROSS SECTIONS.

- UF neutron capture
- UF radiative capture
- NT1 electron capture
- RT capture-to-fission ratio
- RT electron capture decay
- RT interactions
- RT nuclear reactions
- RT panofsky ratio
- RT r process
- RT valency model

**CAPTURE-TO-FISSION RATIO**

- UF neutron capture-to-fission ratio
- BT1 dimensionless numbers
- RT capture
- RT fission ratio
- RT interactions
- RT nuclear reactions

**carassius**

- USE goldfish

**caraway**

- USE ranunculaceae

**CARBAMATES**

- \*BT1 carbonic acid derivatives
- BT1 carboxylic acid salts
- \*BT1 organic nitrogen compounds
- NT1 dedtc
- NT1 urethane
- RT carbamic acid esters

**CARBAMIC ACID ESTERS**

- \*BT1 carboxylic acid esters

- RT carbamates

**carbamide**

- USE urea

**carbanions**

INIS: 2000-04-12; ETDE: 1981-05-18

Negatively charged organic ions having one more electron than the corresponding free radical.

(Prior to February 1997 this was a valid ETDE descriptor.)

- USE anions

**CARBAZIDES**

- \*BT1 carbonic acid derivatives
- \*BT1 organic nitrogen compounds

**CARBAZOLES**

- UF dibenzopyrroles

- \*BT1 azaarenes
- \*BT1 azoles
- RT pyrroles

**CARBAZONES**

1996-10-23

(Prior to March 1997

DIPHENYLCARBAZONES was a valid ETDE descriptor.)

- UF diphenylcarbazones

- \*BT1 carbonic acid derivatives
- \*BT1 organic nitrogen compounds
- NT1 dithizone

**CARBENES**

INIS: 1983-02-03; ETDE: 1978-03-03

Organic radicals containing divalent carbon as CH<sub>2</sub>, CHOH, CHF, etc.

- BT1 radicals
- RT reaction intermediates

**CARBIDES**

1997-06-19

- BT1 carbon compounds
- NT1 aluminium carbides
- NT1 americium carbides
- NT1 barium carbides
- NT1 beryllium carbides
- NT1 boron carbides
- NT1 cadmium carbides
- NT1 calcium carbides
- NT1 cerium carbides
- NT1 cesium carbides
- NT1 chromium carbides
- NT1 cobalt carbides
- NT1 copper carbides
- NT1 dysprosium carbides
- NT1 erbium carbides
- NT1 europium carbides
- NT1 gadolinium carbides
- NT1 gallium carbides
- NT1 germanium carbides
- NT1 hafnium carbides
- NT1 holmium carbides
- NT1 indium carbides
- NT1 iridium carbides
- NT1 iron carbides
- NT2 cementite
- NT2 ni-hard
- NT1 lanthanum carbides
- NT1 lead carbides
- NT1 lithium carbides
- NT1 lutetium carbides
- NT1 magnesium carbides
- NT1 manganese carbides
- NT1 mercury carbides
- NT1 molybdenum carbides
- NT1 neodymium carbides
- NT1 neptunium carbides
- NT1 nickel carbides
- NT1 niobium carbides

**NT1** nitrogen carbides  
**NT1** osmium carbides  
**NT1** palladium carbides  
**NT1** platinum carbides  
**NT1** plutonium carbides  
**NT1** potassium carbides  
**NT1** praseodymium carbides  
**NT1** protactinium carbides  
**NT1** rhenium carbides  
**NT1** rhodium carbides  
**NT1** rubidium carbides  
**NT1** ruthenium carbides  
**NT1** samarium carbides  
**NT1** scandium carbides  
**NT1** selenium carbides  
**NT1** silicon carbides  
**NT1** sodium carbides  
**NT1** strontium carbides  
**NT1** tantalum carbides  
**NT1** technetium carbides  
**NT1** terbium carbides  
**NT1** thallium carbides  
**NT1** thorium carbides  
**NT1** thulium carbides  
**NT1** tin carbides  
**NT1** titanium carbides  
**NT1** tungsten carbides  
**NT1** uranium carbides  
**NT1** vanadium carbides  
**NT1** ytterbium carbides  
**NT1** yttrium carbides  
**NT1** zinc carbides  
**NT1** zirconium carbides  
*RT* carbon additions  
*RT* carbonitrides  
*RT* ceramics  
*RT* decarburization  
*RT* oxycarbides

**carbinol**

USE methanol

**carbitols**

1996-06-26

*Diglycol monoalkyl ethers.*

(Until June 1996 this was a valid descriptor.)

USE ethers  
 USE glycols  
 USE organic solvents

**CARBOHYDRATES**

**BT1** organic compounds  
**NT1** glycosides  
**NT2** cardiac glycosides  
**NT3** digitalis glycosides  
**NT4** digitoxin  
**NT4** digoxin  
**NT3** strophanthins  
**NT4** ouabain  
**NT2** saponins  
**NT2** strophanthin  
**NT2** uridine diphosphoglucose  
**NT1** saccharides  
**NT2** glycolipids  
**NT3** cerebrosides  
**NT3** gangliosides  
**NT2** glycoproteins  
**NT3** avidin  
**NT3** glucoproteins  
**NT4** lactoferrin  
**NT4** ovalbumin  
**NT3** luteinizing hormone  
**NT2** monosaccharides  
**NT3** erythritol  
**NT3** hexoses  
**NT4** fructose  
**NT4** galactose  
**NT4** glucose  
**NT4** hexosamines  
**NT5** glucosamine

**NT4** mannose  
**NT4** sorbose  
**NT3** inositols  
**NT4** inositol  
**NT3** pentoses  
**NT4** arabinose  
**NT4** deoxyribose  
**NT4** ribose  
**NT4** ribulose  
**NT4** xylose  
**NT3** sorbitol  
**NT2** oligosaccharides  
**NT3** disaccharides  
**NT4** cellobiose  
**NT4** lactose  
**NT4** maltose  
**NT4** saccharose  
**NT3** raffinose  
**NT2** polysaccharides  
**NT3** agar  
**NT3** alginic acid  
**NT3** cellophane  
**NT3** cellulose  
**NT3** dextran  
**NT3** dextrans  
**NT3** glycogen  
**NT3** gum acacia  
**NT3** hemicellulose  
**NT4** xylans  
**NT3** inulin  
**NT3** lignin  
**NT3** lipopolysaccharides  
**NT3** mucopolysaccharides  
**NT4** chitin  
**NT4** chondroitin  
**NT4** heparin  
**NT4** hyaluronic acid  
**NT3** mucoproteins  
**NT4** haptoglobins  
**NT4** intrinsic factor  
**NT4** phytohemagglutinin  
**NT3** nitrocellulose  
**NT3** pectins  
**NT3** rayon  
**NT3** starch  
**NT3** viscose  
**NT3** xanthan gum  
*RT* food  
*RT* glycolysis  
*RT* phosphoenolpyruvate

**CARBOLOY**

2000-04-12

\*BT1 cobalt alloys  
 \*BT1 tantalum alloys  
 \*BT1 titanium alloys  
 \*BT1 tungsten alloys

**CARBON**

\*BT1 nonmetals  
**NT1** activated carbon  
**NT1** carbon black  
**NT1** carbon nanotubes  
**NT1** carbynes  
**NT1** diamonds  
**NT1** fullerenes  
**NT1** graphene  
**NT1** graphite  
**NT1** pyrolytic carbon  
*RT* carbon fibers  
*RT* carbon meters  
*RT* decarburization

**CARBON 10**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 carbon isotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes

**CARBON 10 BEAMS**

*INIS: 1988-11-16; ETDE: 1988-12-02*

\*BT1 radioactive ion beams

**CARBON 11**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 carbon isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes

**CARBON 11 BEAMS**

*INIS: 1985-05-15; ETDE: 1985-07-18*

\*BT1 radioactive ion beams  
 \*BT1 secondary beams

**CARBON 11 TARGET**

*INIS: 1986-04-02; ETDE: 1979-07-24*

BT1 targets

**CARBON 12**

\*BT1 carbon isotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
*RT* carbon 12 beams

**CARBON 12 BEAMS**

\*BT1 ion beams  
*RT* carbon 12

**CARBON 12 DECAY RADIOISOTOPES**

1995-06-29

\*BT1 heavy ion decay radioisotopes  
**NT1** barium 114  
*RT* carbon 12 emission decay

**CARBON 12 EMISSION DECAY**

*INIS: 1995-06-29; ETDE: 1991-05-17*

\*BT1 heavy ion emission decay  
*RT* carbon 12 decay radioisotopes

**CARBON 12 REACTIONS**

\*BT1 heavy ion reactions

**CARBON 12 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**CARBON 13**

\*BT1 carbon isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
*RT* carbon 13 beams

**CARBON 13 BEAMS**

\*BT1 ion beams  
*RT* carbon 13

**CARBON 13 REACTIONS**

\*BT1 heavy ion reactions

**CARBON 13 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**CARBON 14**

*UF radiocarbon dating*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 carbon isotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 years living radioisotopes  
*RT* carbon 14 beams  
*RT* carbon 14 compounds  
*RT* carbon 14 reactions  
*RT* isotope dating

**CARBON 14 BEAMS**

\*BT1 radioactive ion beams  
*RT* carbon 14

**CARBON 14 COMPOUNDS**

- BT1 carbon compounds
- BT1 labelled compounds
- RT carbon 14
- RT labelling

**CARBON 14 DECAY RADIOISOTOPES**

*INIS: 1986-03-04; ETDE: 1988-10-12*

- \*BT1 heavy ion decay radioisotopes
- NT1 radium 222
- NT1 radium 223
- NT1 radium 224
- NT1 radium 226
- RT carbon 14 emission decay

**CARBON 14 EMISSION DECAY**

*INIS: 1986-03-04; ETDE: 1988-10-12*

- \*BT1 heavy ion emission decay
- RT carbon 14 decay radioisotopes

**CARBON 14 REACTIONS**

- \*BT1 heavy ion reactions
- RT carbon 14

**CARBON 14 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CARBON 15**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 carbon isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes

**CARBON 16**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 carbon isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**CARBON 16 EMISSION DECAY**

*INIS: 2000-04-12; ETDE: 1991-05-17*

- \*BT1 heavy ion emission decay

**CARBON 16 TARGET**

*INIS: 1992-09-22; ETDE: 1977-05-07*

- BT1 targets

**CARBON 17**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 carbon isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**CARBON 18**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 carbon isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**CARBON 19**

- \*BT1 carbon isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei

**CARBON 20**

- \*BT1 carbon isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei

**CARBON 21**

*2007-01-19*

- \*BT1 carbon isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes

**CARBON 22**

*INIS: 1979-02-21; ETDE: 1979-03-28*

- \*BT1 carbon isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei

**CARBON 8**

- \*BT1 carbon isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei

**CARBON 9**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 carbon isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**CARBON ADDITIONS**

*1996-11-13*

- BT1 alloys
- NT1 alloy-co43cr20fe18ni13w3
- NT2 havar
- NT1 alloy-hs-31
- NT1 alloy-in-102
- NT1 alloy-n-10m
- NT1 alloy-n-9m
- NT1 alloy-n28t3
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-s-816
- NT1 alloy-v-36
- NT1 ascology
- NT1 astroloy
- NT1 austenite
- NT1 cast iron
- NT1 discaloy
- NT1 duriron
- NT1 ferrite
- NT1 martensite
- NT1 rene 41
- NT1 rene 95
- NT1 steels
- NT2 austenitic steels
- NT3 steel-cr15ni15motib
- NT3 steel-cr16ni13monbv
- NT3 steel-cr16ni15mo3nb
- NT3 steel-cr16ni16monb
- NT3 steel-cr16ni8mo2
- NT4 stainless steel-16-8-2
- NT3 steel-cr17ni12mo3
- NT4 stainless steel-316
- NT3 steel-cr17ni12mo3-1
- NT4 stainless steel-316l
- NT4 stainless steel-zcnd17-13
- NT3 steel-cr17ni12monb
- NT3 steel-cr17ni13
- NT3 steel-cr17ni13mo2ti
- NT3 steel-cr17ni13mo3ti
- NT3 steel-cr17ni7
- NT4 stainless steel-301
- NT3 steel-cr18ni10
- NT4 stainless steel-18-10
- NT3 steel-cr18ni10-1
- NT3 steel-cr18ni10ti
- NT4 stainless steel-321
- NT3 steel-cr18ni11
- NT4 steel-x6crni1811
- NT3 steel-cr18ni11nb
- NT4 stainless steel-347
- NT3 steel-cr18ni11nbco
- NT4 stainless steel-348
- NT3 steel-cr18ni12
- NT4 stainless steel-305
- NT3 steel-cr18ni12ti
- NT3 steel-cr18ni8
- NT4 stainless steel-18-8
- NT3 steel-cr18ni9
- NT4 stainless steel-302
- NT3 steel-cr18ni9ti

- NT3 steel-cr19ni10
- NT4 stainless steel-304
- NT3 steel-cr19ni10-1
- NT4 stainless steel-304l
- NT3 steel-cr20ni11
- NT4 stainless steel-308
- NT3 steel-cr20ni11-1
- NT4 stainless steel-308l
- NT3 steel-cr21mn9ni6
- NT4 stainless steel-21-6-9
- NT3 steel-cr23ni14
- NT4 stainless steel-309
- NT4 stainless steel-309s
- NT3 steel-cr23ni18
- NT3 steel-cr25ni20
- NT4 alloy-hk-40
- NT4 stainless steel-310
- NT3 steel-ni25cr20
- NT4 stainless steel-20-25
- NT3 steel-ni26cr15ti2moyalb
- NT4 alloy-a-286
- NT2 carbon steels
- NT3 steel-astm-a105
- NT3 steel-astm-a106
- NT3 steel-astm-a212
- NT3 steel-astm-a285
- NT3 steel-astm-a516
- NT3 steel-astm-a533-b
- NT3 steel-in-787
- NT3 steel-sae-1045
- NT2 croloy
- NT3 steel-cr13
- NT4 stainless steel-410
- NT3 steel-cr16
- NT4 stainless steel-430
- NT3 steel-cr18ni10
- NT4 stainless steel-18-10
- NT3 steel-cr2mo
- NT4 steel-astm-a542
- NT3 steel-cr5mo
- NT2 ferritic steels
- NT3 steel-cr12moniv
- NT3 steel-cr13al
- NT4 stainless steel-405
- NT3 steel-cr16
- NT4 stainless steel-430
- NT3 steel-cr25
- NT4 stainless steel-446
- NT3 steel-cr9mo
- NT3 steel-cr9monbv
- NT2 high alloy steels
- NT3 stainless steels
- NT4 chromium-nickel steels
- NT5 alloy-d-9
- NT5 carpenter
- NT5 chromium-nickel-molybdenum steels
- NT6 alloy-m-813
- NT6 steel-cr11ni10mo2ti-1
- NT6 steel-cr15ni15motib
- NT6 steel-cr16ni13monbv
- NT6 steel-cr16ni15mo3nb
- NT6 steel-cr16ni16monb
- NT6 steel-cr16ni8mo2
- NT7 stainless steel-16-8-2
- NT6 steel-cr16ni9mo2
- NT6 steel-cr17ni12mo3
- NT7 stainless steel-316
- NT6 steel-cr17ni12mo3-1
- NT7 stainless steel-316l
- NT7 stainless steel-zcnd17-13
- NT6 steel-cr17ni12monb
- NT6 steel-cr17ni13mo2ti
- NT6 steel-cr17ni13mo3ti
- NT6 steel-ni26cr15ti2moyalb
- NT7 alloy-a-286
- NT5 durco
- NT5 enduro
- NT5 stainless steel-17-7ph

- NT5** stainless steel-303  
**NT5** stainless steel-329  
**NT5** stainless steel-ph-15-7-mo  
**NT5** steel-cr17ni13  
**NT5** steel-cr17ni7  
**NT6** stainless steel-301  
**NT5** steel-cr18ni10  
**NT6** stainless steel-18-10  
**NT5** steel-cr18ni10-1  
**NT5** steel-cr18ni10ti  
**NT6** stainless steel-321  
**NT5** steel-cr18ni11  
**NT6** steel-x6crni1811  
**NT5** steel-cr18ni11nb  
**NT6** stainless steel-347  
**NT5** steel-cr18ni11nbco  
**NT6** stainless steel-348  
**NT5** steel-cr18ni12  
**NT6** stainless steel-305  
**NT5** steel-cr18ni12ti  
**NT5** steel-cr18ni8  
**NT6** stainless steel-18-8  
**NT5** steel-cr18ni9  
**NT6** stainless steel-302  
**NT5** steel-cr18ni9ti  
**NT5** steel-cr19ni10  
**NT6** stainless steel-304  
**NT5** steel-cr19ni10-1  
**NT6** stainless steel-3041  
**NT5** steel-cr20ni11  
**NT6** stainless steel-308  
**NT5** steel-cr20ni11-1  
**NT6** stainless steel-3081  
**NT5** steel-cr23ni14  
**NT6** stainless steel-309  
**NT6** stainless steel-309s  
**NT5** steel-cr23ni18  
**NT5** steel-cr25ni20  
**NT6** alloy-hk-40  
**NT6** stainless steel-310  
**NT5** steel-ni25cr20  
**NT6** stainless steel-20-25  
**NT5** steel-ni36cr12ti3al-1  
**NT5** timken alloys  
**NT4** chromium steels  
**NT5** chromium-molybdenum steels  
**NT6** chromium-nickel-molybdenum steels  
**NT7** alloy-m-813  
**NT7** steel-cr11ni10mo2ti-1  
**NT7** steel-cr15ni15motib  
**NT7** steel-cr16ni13monbv  
**NT7** steel-cr16ni15mo3nb  
**NT7** steel-cr16ni16monb  
**NT7** steel-cr16ni8mo2  
**NT8** stainless steel-16-8-2  
**NT7** steel-cr16ni9mo2  
**NT7** steel-cr17ni12mo3  
**NT8** stainless steel-316  
**NT7** steel-cr17ni12mo3-1  
**NT8** stainless steel-3161  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr17ni12monb  
**NT7** steel-cr17ni13mo2ti  
**NT7** steel-cr17ni13mo3ti  
**NT7** steel-ni26cr15ti2movalb  
**NT8** alloy-a-286  
**NT5** magnet steel-ks  
**NT5** miduale  
**NT5** stainless steel-406  
**NT5** steel-cr10mo2  
**NT5** steel-cr12  
**NT6** stainless steel-403  
**NT5** steel-cr12moniv  
**NT5** steel-cr12mov  
**NT6** alloy-ht-9  
**NT5** steel-cr13  
**NT6** stainless steel-410  
**NT5** steel-cr13al  
**NT6** stainless steel-405  
**NT5** steel-cr16  
**NT6** stainless steel-430  
**NT5** steel-cr16ni  
**NT5** steel-cr17cu4ni4nb-1  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17mo  
**NT6** stainless steel-440  
**NT5** steel-cr17ni4mo3  
**NT5** steel-cr18  
**NT5** steel-cr25  
**NT6** stainless steel-446  
**NT5** steel-cr9mo  
**NT5** steel-cr9monbv  
**NT4** low carbon-high alloy steels  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr17cu4ni4nb-1  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-3161  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr18ni10-1  
**NT5** steel-cr19ni10-1  
**NT6** stainless steel-3041  
**NT5** steel-cr20ni11-1  
**NT6** stainless steel-3081  
**NT5** steel-ni36cr12ti3al-1  
**NT4** stainless steel-317  
**NT4** stainless steel-318  
**NT4** stainless steel-422  
**NT4** stainless steel-fv-548  
**NT4** stainless steel-jbk-75  
**NT4** stainless steel m-50  
**NT4** steel-cr21mn9ni6  
**NT5** stainless steel-21-6-9  
**NT4** sweetalloy  
**NT2** low alloy steels  
**NT3** steel-astm-a350  
**NT3** steel-astm-a387  
**NT3** steel-astm-a508  
**NT3** steel-astm-a533  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr5mo  
**NT3** steel-cralnimo  
**NT3** steel-crmo  
**NT3** steel-crmov  
**NT3** steel-crni  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnmo  
**NT4** steel-astm-a302  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-mnnimov  
**NT3** steel-ni3cr  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT3** steel-nimocr  
**NT2** manganese steels  
**NT2** martensitic steels  
**NT3** maraging steels  
**NT3** steel-cr10mo2  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr16ni  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr18  
**NT3** sweetalloy  
**NT2** steel-astm-a572  
**RT** carbides

**CARBON BLACK**

\*BT1 carbon

**CARBON BURNING***INIS: 1978-08-30; ETDE: 1978-10-19**Astrophysical processes only.*

BT1 star burning

RT nucleosynthesis

RT star evolution

RT star models

RT stars

**CARBON-CARBON LYASES***INIS: 1986-12-03; ETDE: 1981-01-30**Code number 4.1.*

\*BT1 lyases

NT1 aldehyde-lyases

NT1 aldolases

NT1 carboxy-lyases

NT2 carboxylase

NT2 decarboxylases

NT2 ribulose diphosphate carboxylase

**CARBON COMPLEXES**

BT1 complexes

**CARBON COMPOUNDS**

NT1 carbides

NT2 aluminium carbides

NT2 americium carbides

NT2 barium carbides

NT2 beryllium carbides

NT2 boron carbides

NT2 cadmium carbides

NT2 calcium carbides

NT2 cerium carbides

NT2 cesium carbides

NT2 chromium carbides

NT2 cobalt carbides

NT2 copper carbides

NT2 dysprosium carbides

NT2 erbium carbides

NT2 europium carbides

NT2 gadolinium carbides

NT2 gallium carbides

NT2 germanium carbides

NT2 hafnium carbides

NT2 holmium carbides

NT2 indium carbides

NT2 iridium carbides

NT2 iron carbides

NT3 cementite

NT3 ni-hard

NT2 lanthanum carbides

NT2 lead carbides

NT2 lithium carbides

NT2 lutetium carbides

NT2 magnesium carbides

NT2 manganese carbides

NT2 mercury carbides

NT2 molybdenum carbides

NT2 neodymium carbides

NT2 neptunium carbides

NT2 nickel carbides

NT2 niobium carbides

NT2 nitrogen carbides

NT2 osmium carbides

NT2 palladium carbides

NT2 platinum carbides

NT2 plutonium carbides

NT2 potassium carbides

NT2 praseodymium carbides

NT2 protactinium carbides

NT2 rhenium carbides  
 NT2 rhodium carbides  
 NT2 rubidium carbides  
 NT2 ruthenium carbides  
 NT2 samarium carbides  
 NT2 scandium carbides  
 NT2 selenium carbides  
 NT2 silicon carbides  
 NT2 sodium carbides  
 NT2 strontium carbides  
 NT2 tantalum carbides  
 NT2 technetium carbides  
 NT2 terbium carbides  
 NT2 thallium carbides  
 NT2 thorium carbides  
 NT2 thulium carbides  
 NT2 tin carbides  
 NT2 titanium carbides  
 NT2 tungsten carbides  
 NT2 uranium carbides  
 NT2 vanadium carbides  
 NT2 ytterbium carbides  
 NT2 yttrium carbides  
 NT2 zinc carbides  
 NT2 zirconium carbides  
 NT1 carbon 14 compounds  
 NT1 carbon halides  
   NT2 carbon fluorides  
 NT1 carbon nitrides  
 NT1 carbon oxides  
   NT2 carbon dioxide  
   NT2 carbon monoxide  
 NT1 carbon oxysulfide  
 NT1 carbon sulfides  
 NT1 carbonates  
   NT2 americium carbonates  
   NT2 ammonium carbonates  
   NT3 auc  
 NT2 barium carbonates  
 NT2 beryllium carbonates  
 NT2 bismuth carbonates  
 NT2 cadmium carbonates  
 NT2 calcium carbonates  
 NT2 cerium carbonates  
 NT2 cesium carbonates  
 NT2 cobalt carbonates  
 NT2 copper carbonates  
 NT2 curium carbonates  
 NT2 erbium carbonates  
 NT2 europium carbonates  
 NT2 gadolinium carbonates  
 NT2 holmium carbonates  
 NT2 iron carbonates  
 NT2 lanthanum carbonates  
 NT2 lead carbonates  
 NT2 lithium carbonates  
 NT2 lutetium carbonates  
 NT2 magnesium carbonates  
 NT2 manganese carbonates  
 NT2 molybdenum carbonates  
 NT2 neodymium carbonates  
 NT2 neptunium carbonates  
 NT2 nickel carbonates  
 NT2 plutonium carbonates  
 NT2 polycarbonates  
 NT2 potassium carbonates  
 NT2 praseodymium carbonates  
 NT2 radium carbonates  
 NT2 rhenium carbonates  
 NT2 rubidium carbonates  
 NT2 samarium carbonates  
 NT2 scandium carbonates  
 NT2 silver carbonates  
 NT2 sodium carbonates  
 NT2 strontium carbonates  
 NT2 terbium carbonates  
 NT2 thallium carbonates  
 NT2 thorium carbonates  
 NT2 uranium carbonates

NT2 uranyl carbonates  
 NT2 ytterbium carbonates  
 NT2 yttrium carbonates  
 NT2 zinc carbonates  
 NT2 zirconium carbonates  
 NT1 carbonic acid  
 NT1 carbonitrides  
 NT1 carbonium compounds  
 NT1 carboranes  
 NT1 oxycarbides  
 RT soot

### CARBON CYCLE

INIS: 1982-07-22; ETDE: 1979-03-05

RT air-water interactions  
 RT carbon dioxide fixation  
 RT carbon footprint  
 RT carbon sinks  
 RT carbon sources  
 RT deforestation  
 RT ecological concentration  
 RT ecosystems  
 RT metabolism  
 RT mineral cycling  
 RT photosynthesis  
 RT ribulose diphosphate carboxylase

### CARBON DIOXIDE

\*BT1 carbon oxides  
 RT carbon dioxide fixation  
 RT carbon footprint  
 RT carbon neutrality  
 RT carbon sequestration  
 RT greenhouse gases  
 RT inert atmosphere  
 RT landfill gas  
 RT paris agreement  
 RT phosphoenolpyruvate

### carbon dioxide acceptor process

2000-04-12

Consolidation coal company process for producing high btu gas by catalytic methanation of synthesis gas. Heat for the reaction of coal and steam is supplied by reacting the carbon dioxide formed with calcined dolomite.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification  
 USE sng processes

### CARBON DIOXIDE COOLED REACTORS

\*BT1 gas cooled reactors  
 NT1 berkeley reactor  
 NT1 bohunice a-1 reactor  
 NT1 bradwell reactor  
 NT1 bugey-1 reactor  
 NT1 calder hall a-1 reactor  
 NT1 calder hall a-2 reactor  
 NT1 calder hall b-3 reactor  
 NT1 calder hall b-4 reactor  
 NT1 cesar reactor  
 NT1 chapelcross-1 reactor  
 NT1 chapelcross-2 reactor  
 NT1 chapelcross-3 reactor  
 NT1 chapelcross-4 reactor  
 NT1 chinon-a1 reactor  
 NT1 chinon-a2 reactor  
 NT1 chinon-a3 reactor  
 NT1 connah quay-b reactor  
 NT1 dungeness-a reactor  
 NT1 dungeness-b reactor  
 NT1 el-2 reactor  
 NT1 el-4 reactor  
 NT1 g-2 reactor  
 NT1 g-3 reactor  
 NT1 hartlepool reactor  
 NT1 hector reactor

NT1 hero reactor  
 NT1 heysham-a reactor  
 NT1 heysham-b reactor  
 NT1 hinkley point-a reactor  
 NT1 hinkley point-b reactor  
 NT1 hunterston-a reactor  
 NT1 hunterston-b reactor  
 NT1 latina reactor  
 NT1 lucens reactor  
 NT1 niederaichbach reactor  
 NT1 oldbury-a reactor  
 NT1 oldbury-b reactor  
 NT1 saint laurent-a1 reactor  
 NT1 saint laurent-a2 reactor  
 NT1 sizewell-a reactor  
 NT1 tokai-mura reactor  
 NT1 torness reactor  
 NT1 trawsfynydd reactor  
 NT1 vandellos reactor  
 NT1 wagr reactor  
 NT1 wylfa reactor  
 RT agr type reactors  
 RT gcr type reactors  
 RT magnox type reactors

### CARBON DIOXIDE FIXATION

1982-02-10

UF fixation (carbon dioxide)  
 RT air  
 RT c4 species  
 RT calvin cycle species  
 RT carbon cycle  
 RT carbon dioxide  
 RT carbon sources  
 RT metabolism  
 RT photosynthesis  
 RT plant growth  
 RT ribulose diphosphate carboxylase

### CARBON DIOXIDE INJECTION

INIS: 1992-01-15; ETDE: 1978-08-07

UF co2 flooding  
 \*BT1 miscible-phase displacement  
 RT enhanced recovery  
 RT oil wells  
 RT well stimulation

### CARBON DIOXIDE LASERS

\*BT1 gas lasers  
 RT antares facility  
 RT helios facility

### CARBON FIBERS

INIS: 1983-03-15; ETDE: 1975-11-11

UF graphite fibers  
 BT1 fibers  
 RT carbon  
 RT graphite

### CARBON FLUORIDES

\*BT1 carbon halides  
 \*BT1 fluorides

### CARBON FOOTPRINT

2009-01-28

The total set of greenhouse gas emissions by an individual, organization, facility, event, product or process.

RT carbon cycle  
 RT carbon dioxide  
 RT carbon neutrality  
 RT carbon sequestration  
 RT emissions trading  
 RT environmental effects  
 RT greenhouse effect  
 RT greenhouse gases  
 RT kyoto protocol  
 RT paris agreement

**CARBON-GROUP TRANSFERASES***INIS: 1986-12-03; ETDE: 1991-08-27*

- \*BT1 transferases
- NT1 methyl transferases

**CARBON HALIDES***2012-07-19*

- BT1 carbon compounds
- \*BT1 halides
- NT1 carbon fluorides

**CARBON IONS**

- \*BT1 ions

**CARBON ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 carbon 10
- NT1 carbon 11
- NT1 carbon 12
- NT1 carbon 13
- NT1 carbon 14
- NT1 carbon 15
- NT1 carbon 16
- NT1 carbon 17
- NT1 carbon 18
- NT1 carbon 19
- NT1 carbon 20
- NT1 carbon 21
- NT1 carbon 22
- NT1 carbon 8
- NT1 carbon 9

**CARBON METERS***INIS: 1978-01-16; ETDE: 1977-08-09*

- \*BT1 meters
- RT carbon
- RT chemical analysis

**CARBON MONOXIDE**

- UF *cosorb process*
- \*BT1 carbon oxides
- RT bosch process
- RT carbonyls
- RT carboxyhemoglobin

**CARBON MONOXIDE LASERS**

- \*BT1 gas lasers

**CARBON NANOTUBES***2012-11-28*

- \*BT1 carbon
- \*BT1 nanotubes
- RT fullerenes
- RT graphene

**CARBON NEUTRALITY***2016-03-22**Goal or result of any process, facility, etc., which achieves zero net carbon emission.*

- UF *zero net carbon emission*
- RT air pollution abatement
- RT air pollution control
- RT carbon dioxide
- RT carbon footprint
- RT emissions trading
- RT greenhouse gases

**CARBON NITRIDES**

- BT1 carbon compounds
- \*BT1 nitrides

**carbon-nitrogen-oxygen cycle***INIS: 1978-09-28; ETDE: 1978-10-19*

- USE cno cycle

**carbon oxide sulfide***INIS: 2000-04-12; ETDE: 1975-09-11*

- USE carbon oxy sulfide

**CARBON OXIDES**

- BT1 carbon compounds

- \*BT1 oxides
- NT1 carbon dioxide
- NT1 carbon monoxide
- RT oxycarbides

**carbon oxychloride**

- USE phosgene

**CARBON-OXYGEN LYASES***INIS: 1986-12-03; ETDE: 1981-01-30**Code number 4.2.*

- UF *polysaccharide-lyases*
- \*BT1 lyases
- NT1 hyaluronidase
- NT1 hydro-lyases
- NT2 carbonic anhydrase

**CARBON OXSULFIDE***INIS: 2000-04-12; ETDE: 1975-09-11*

- UF *carbon oxide sulfide*
- UF *carbonyl sulfide*
- BT1 carbon compounds
- BT1 sulfur compounds
- RT carbonic acid derivatives

**CARBON SEQUESTRATION***2004-01-14**Removal of carbon and its compounds from the environment and deposition, for example, into geological formations, to keep them away from the atmosphere.*

- UF *sequestration (carbon oxides)*
- \*BT1 air pollution control
- BT1 separation processes
- RT carbon dioxide
- RT carbon footprint
- RT carbon sinks
- RT greenhouse gases
- RT oxyfuel combustion process
- RT weyburn field

**CARBON SINKS***INIS: 1992-08-28; ETDE: 1981-08-04*

- BT1 sinks
- RT carbon cycle
- RT carbon sequestration
- RT carbon sources
- RT mineral cycling

**CARBON SOURCES***INIS: 1992-08-28; ETDE: 1986-06-12*

- RT biosphere
- RT carbon cycle
- RT carbon dioxide fixation
- RT carbon sinks
- RT pollution sources

**CARBON STARS**

- \*BT1 main sequence stars

**CARBON STEELS***1996-11-13**Steels with carbon as the only alloying element.*

- UF *steel-08g2sfb*
- UF *steel-astm-a350 (gr 1)*
- UF *steel-astm-a350 (gr 2)*
- UF *steel-astm-a416*
- UF *steel-sae-1006*
- \*BT1 steels
- NT1 steel-astm-a105
- NT1 steel-astm-a106
- NT1 steel-astm-a212
- NT1 steel-astm-a285
- NT1 steel-astm-a516
- NT1 steel-astm-a533-b
- NT1 steel-in-787
- NT1 steel-sae-1045

**CARBON SULFIDES**

- UF *sulfur carbides*
- BT1 carbon compounds

- \*BT1 sulfides

**CARBON TETRACHLORIDE***1985-07-22**(Prior to August 1985**TETRACHLOROMETHANE was used.)*

- UF *tetrachloromethane*
- \*BT1 chlorinated aliphatic hydrocarbons
- RT methane
- RT organic solvents

**CARBON TETRAFLUORIDE***INIS: 1985-07-22; ETDE: 1976-08-04**(Prior to August 1985**TETRAFLUOROMETHANE was used.)*

- UF *tetrafluoromethane*
- \*BT1 fluorinated aliphatic hydrocarbons
- RT methane

**CARBONACEOUS MATERIALS***1982-07-22**Materials rich in carbon.*

- BT1 materials
- NT1 bituminous materials
- NT2 kerogen
- NT2 oil sands
- NT2 oil shales
- NT3 black shales
- NT1 coal
- NT2 black coal
- NT3 anthracite
- NT3 bituminous coal
- NT2 brown coal
- NT3 lignite
- NT2 coal fines
- NT2 high-sulfur coal
- NT2 low-sulfur coal
- NT2 sapropelic coal
- NT3 boghead coal
- NT4 torbanite
- NT3 cannel coal
- NT2 subbituminous coal
- RT organic matter

**CARBONATE MINERALS***INIS: 1996-11-13; ETDE: 1982-05-12*

- UF *andersonite*
- UF *bayleyite*
- UF *cordylite*
- UF *liebigite*
- UF *rutherfordite*
- UF *schroeckingerite*
- UF *sharpite*
- BT1 minerals
- NT1 ankerite
- NT1 aragonite
- NT1 calcite
- NT1 dawsonite
- NT1 diderichite
- NT1 dolomite
- NT1 nahcolite
- NT1 shortite
- NT1 siderite
- NT1 trona
- RT calcium carbonates
- RT cerium carbonates
- RT iron carbonates
- RT lanthanum carbonates
- RT magnesium carbonates
- RT manganese carbonates
- RT shales
- RT sodium carbonates
- RT uranium carbonates

**CARBONATE ROCKS***INIS: 1985-12-10; ETDE: 1976-08-04**Rocks composed principally of carbonates, usually more than 50% by weight. See also**CARBONATE MINERALS.*

- \*BT1 sedimentary rocks
- NT1 limestone

NT2 travertine  
 RT reservoir rock

**CARBONATES**  
 1997-06-19  
 SF ferroan  
 BT1 carbon compounds  
 BT1 oxygen compounds  
 NT1 americium carbonates  
 NT1 ammonium carbonates  
 NT2 auc  
 NT1 barium carbonates  
 NT1 beryllium carbonates  
 NT1 bismuth carbonates  
 NT1 cadmium carbonates  
 NT1 calcium carbonates  
 NT1 cerium carbonates  
 NT1 cesium carbonates  
 NT1 cobalt carbonates  
 NT1 copper carbonates  
 NT1 curium carbonates  
 NT1 erbium carbonates  
 NT1 europium carbonates  
 NT1 gadolinium carbonates  
 NT1 holmium carbonates  
 NT1 iron carbonates  
 NT1 lanthanum carbonates  
 NT1 lead carbonates  
 NT1 lithium carbonates  
 NT1 lutetium carbonates  
 NT1 magnesium carbonates  
 NT1 manganese carbonates  
 NT1 molybdenum carbonates  
 NT1 neodymium carbonates  
 NT1 neptunium carbonates  
 NT1 nickel carbonates  
 NT1 plutonium carbonates  
 NT1 polycarbonates  
 NT1 potassium carbonates  
 NT1 praseodymium carbonates  
 NT1 radium carbonates  
 NT1 rhenium carbonates  
 NT1 rubidium carbonates  
 NT1 samarium carbonates  
 NT1 scandium carbonates  
 NT1 silver carbonates  
 NT1 sodium carbonates  
 NT1 strontium carbonates  
 NT1 terbium carbonates  
 NT1 thallium carbonates  
 NT1 thorium carbonates  
 NT1 uranium carbonates  
 NT1 uranyl carbonates  
 NT1 ytterbium carbonates  
 NT1 yttrium carbonates  
 NT1 zinc carbonates  
 NT1 zirconium carbonates  
 RT acid carbonates  
 RT acid neutralizing capacity

**CARBONIC ACID**

INIS: 1982-04-14; ETDE: 1977-05-07  
 BT1 carbon compounds  
 \*BT1 inorganic acids  
 BT1 oxygen compounds

**CARBONIC ACID DERIVATIVES**

1996-10-23  
 UF guanethidine  
 BT1 organic compounds  
 NT1 carbamates  
 NT2 dedtc  
 NT2 urethane  
 NT1 carbazides  
 NT1 carbazones  
 NT2 dithizone  
 NT1 cyanamides  
 NT1 cyanates  
 NT1 dpca  
 NT1 guanidines

NT2 mibg  
 NT1 isocyanates  
 NT1 isonitriles  
 NT1 isothiocyanates  
 NT1 mercaptoethylguanidine  
 NT1 methyl nitrosourea  
 NT1 phosgene  
 NT1 semicarbazides  
 NT1 semicarbazones  
 NT1 thiocyanates  
 NT2 ammonium thiocyanates  
 NT1 thioureas  
 NT2 beta-aminoethyl isothiourae  
 NT2 thiourea  
 NT1 urea  
 RT carbon oxysulfide

**CARBONIC ACID ESTERS**

INIS: 2000-04-12; ETDE: 1975-12-16  
 UF propylene carbonate  
 \*BT1 esters

**CARBONIC ANHYDRASE**

\*BT1 hydro-lyases

**CARBONIFEROUS PERIOD**

INIS: 1992-05-22; ETDE: 1977-10-20  
 (Prior to April 1990 this material was indexed to MISSISSIPPIAN PERIOD or PENNSYLVANIAN PERIOD.)  
 UF mississippian period  
 UF pennsylvanian period  
 \*BT1 paleozoic era

**CARBONITRIDES**

1982-01-14  
 Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.  
 BT1 carbon compounds  
 BT1 nitrogen compounds  
 RT carbides  
 RT nitrides

**CARBONIUM COMPOUNDS**

INIS: 2000-04-12; ETDE: 1983-01-21  
 BT1 carbon compounds  
 RT cations

**CARBONIZATION**

\*BT1 decomposition  
 NT1 coking  
 NT1 electrocarbonization  
 RT clean coke process  
 RT coalcon process  
 RT coke ovens  
 RT consol stirred bed process  
 RT decarbonization  
 RT graphitization

**carbonyl chloride**

USE phosgene

**CARBONYL RADICALS**

BT1 radicals  
 RT carbonyls

**carbonyl sulfide**

INIS: 2000-04-12; ETDE: 1976-11-01  
 USE carbon oxysulfide

**CARBONYLATION**

INIS: 1981-09-17; ETDE: 1978-07-05  
 UF hydroformylation  
 BT1 chemical reactions

**CARBONYLS**

Only for compounds of metals with carbonyl radicals.  
 RT carbon monoxide  
 RT carbonyl radicals

RT metals

**CARBORANES**

INIS: 1978-05-19; ETDE: 1977-01-28  
 BT1 carbon compounds  
 \*BT1 organic boron compounds  
 RT boranes

**CARBOWAX**

\*BT1 polyethylene glycols  
 \*BT1 waxes

**carbox process**

INIS: 2000-04-12; ETDE: 1979-11-07  
 Dry reprocessing of U and Th carbide fuel.  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE reprocessing

**CARBOXY-LYASES**

INIS: 1993-08-03; ETDE: 1981-01-30  
 Code number 4.1.1.  
 \*BT1 carbon-carbon lyases  
 NT1 carboxylase  
 NT1 decarboxylases  
 NT1 ribulose diphosphate carboxylase

**CARBOXYHEMOGLOBIN**

INIS: 1999-04-16; ETDE: 1976-07-07  
 RT carbon monoxide  
 RT erythrocytes  
 RT heme  
 RT hemoglobin  
 RT respiration

**CARBOXYLASE**

\*BT1 carboxy-lyases

**CARBOXYLATION**

BT1 chemical reactions  
 RT decarboxylation  
 RT lyases

**CARBOXYLESTERASES**

INIS: 1986-12-03; ETDE: 1981-01-12  
 Code number 3.1.1.  
 \*BT1 esterases  
 NT1 cholinesterase  
 NT1 lipases

**CARBOXYLIC ACID ESTERS**

1996-07-23  
 (Prior to March 1997 TARTARIC ACID ESTERS was a valid ETDE descriptor.)  
 UF tartaric acid esters  
 \*BT1 esters  
 NT1 acetic acid esters  
 NT2 methyl acetate  
 NT2 polyvinyl acetate  
 NT2 vinyl acetate  
 NT1 acetoacetic acid esters  
 NT1 acrylic acid esters  
 NT1 bromosulfophthalein  
 NT1 carbamic acid esters  
 NT1 citric acid esters  
 NT1 glucoheptonate  
 NT1 malathion  
 NT1 methacrylic acid esters  
 NT1 oxalic acid esters  
 NT1 phenolphthalein  
 NT1 retinoic acid  
 RT carboxylic acids

**CARBOXYLIC ACID SALTS**

NT1 acetates  
 NT1 acetoacetates  
 NT1 acrylates  
 NT1 benzoates  
 NT1 carbamates  
 NT2 dedtc  
 NT2 urethane  
 NT1 citrates

NT1 formates  
 NT1 lactates  
 NT1 methacrylates  
 NT1 oxalates  
 NT1 phthalates  
 NT1 stearates  
 NT1 tartrates  
 NT2 rochelle salt  
 RT carboxylic acids  
 RT esters

**CARBOXYLIC ACIDS**

1996-10-23

(ACID HALIDES and TRICARBALLYLIC

ACID have been valid ETDE descriptors.)

UF acid halides  
 UF aldehydo acids  
 UF alkanolic acids  
 UF alkenolic acids  
 UF aromatic acids  
 UF fatty acids  
 UF tricarballylic acid  
 \*BT1 organic acids  
 NT1 amino acids  
 NT2 alanines  
 NT3 alanine-alpha  
 NT4 alanine-l  
 NT3 alanine-beta  
 NT2 aminobutyric acid  
 NT2 aminolevulinic acid  
 NT2 anthranilic acid  
 NT2 arginine  
 NT2 asparagine  
 NT2 aspartic acid  
 NT2 betaine  
 NT2 carnitine  
 NT2 cda  
 NT2 citrulline  
 NT2 creatine  
 NT2 cysteine  
 NT2 cystine  
 NT2 dcta  
 NT2 diiodotyrosine  
 NT2 dopa  
 NT2 dtpa  
 NT2 eddha  
 NT2 edta  
 NT2 ethionine  
 NT2 folic acid  
 NT2 glutamic acid  
 NT3 pyridoxylidene-glutamate  
 NT2 glutamine  
 NT2 glycine  
 NT2 glycyglycine  
 NT2 hedta  
 NT2 heida  
 NT2 hippuric acid  
 NT2 histidine  
 NT2 homocysteine  
 NT2 hydroxyproline  
 NT2 hydroxytryptophan  
 NT2 kynurenine  
 NT2 leucine  
 NT2 lysine  
 NT2 methionine  
 NT2 methyl red  
 NT2 methyl tyrosine  
 NT2 mimosine  
 NT2 mpg  
 NT2 nta  
 NT2 ornithine  
 NT2 paba  
 NT2 pantothenic acid  
 NT2 penicillamine  
 NT2 phenylalanine  
 NT2 phosphocreatine  
 NT2 proline  
 NT2 sarcosine  
 NT2 serine

NT2 tetaha  
 NT2 threonine  
 NT2 thyronine  
 NT2 thyroxine  
 NT2 tryptophan  
 NT2 tyrosine  
 NT2 valine  
 NT1 bile acids  
 NT2 cholic acid  
 NT1 carminic acid  
 NT1 dicarboxylic acids  
 NT2 adipic acid  
 NT2 fumaric acid  
 NT2 glutaric acid  
 NT2 itaconic acid  
 NT2 maleic acid  
 NT2 malonic acid  
 NT2 oxalic acid  
 NT2 phthalic acid  
 NT2 sebacic acid  
 NT2 succinic acid  
 NT2 terephthalic acid  
 NT1 egta  
 NT1 glyoxylic acid  
 NT1 heterocyclic acids  
 NT2 bilirubin  
 NT2 biotin  
 NT2 histidine  
 NT2 hydroxyproline  
 NT2 lysergic acid  
 NT2 nicotinic acid  
 NT2 orotic acid  
 NT2 picolinic acid  
 NT2 porphyrins  
 NT3 chlorins  
 NT3 chlorophyll  
 NT3 hematoporphyrins  
 NT3 heme  
 NT3 hemoglobin  
 NT4 methemoglobin  
 NT3 hemosiderin  
 NT3 myoglobin  
 NT3 protoporphyrins  
 NT2 proline  
 NT2 rhodamines  
 NT2 thiocetic acid  
 NT2 tryptophan  
 NT2 urocanic acid  
 NT1 hydroxy acids  
 NT2 acetylsalicylic acid  
 NT2 benzoic acid  
 NT2 carnitine  
 NT2 citric acid  
 NT2 diiodotyrosine  
 NT2 dopa  
 NT2 eddha  
 NT2 eosin  
 NT2 fluorescein  
 NT3 erythrosine  
 NT2 galacturonic acid  
 NT2 gallic acid  
 NT2 gibberellic acid  
 NT2 gluconic acid  
 NT2 glucuronic acid  
 NT2 glyceric acid  
 NT2 glycolic acid  
 NT2 hedta  
 NT2 heida  
 NT2 hydroxyproline  
 NT2 hydroxytryptophan  
 NT2 lactic acid  
 NT2 malic acid  
 NT2 mandelic acid  
 NT2 methyl tyrosine  
 NT2 mevalonic acid  
 NT2 pantothenic acid  
 NT2 rose bengal  
 NT2 salicylic acid  
 NT2 serine

NT2 shikimic acid  
 NT2 tartaric acid  
 NT2 threonine  
 NT2 thyronine  
 NT2 tyrosine  
 NT1 keto acids  
 NT2 acetoacetic acid  
 NT2 kynurenine  
 NT2 levulinic acid  
 NT2 pyruvic acid  
 NT1 mellitic acid  
 NT1 monocarboxylic acids  
 NT2 abscisic acid  
 NT2 acetic acid  
 NT2 acrylic acid  
 NT2 arachidonic acid  
 NT2 benzoic acid  
 NT2 butyric acid  
 NT2 chlorambucil  
 NT2 cinnamic acid  
 NT2 crotonic acid  
 NT2 decanoic acid  
 NT2 dodecanoic acid  
 NT2 eicosanoic acid  
 NT2 formic acid  
 NT2 glycolic acid  
 NT2 heptanoic acid  
 NT2 hexadecanoic acid  
 NT2 hexanoic acid  
 NT2 isobutyric acid  
 NT2 isovaleric acid  
 NT2 linoleic acid  
 NT2 linolenic acid  
 NT2 methacrylic acid  
 NT2 nicotinic acid  
 NT2 nonanoic acid  
 NT2 octadecanoic acid  
 NT2 octanoic acid  
 NT2 oleic acid  
 NT2 pethidine  
 NT2 pivalic acid  
 NT2 propionic acid  
 NT2 sorbic acid  
 NT2 tetradecanoic acid  
 NT2 trichloroacetic acid  
 NT2 uronic acids  
 NT2 valeric acid  
 NT1 tannic acid  
 RT alginic acid  
 RT carboxylic acid esters  
 RT carboxylic acid salts  
 RT ketenes  
 RT metabolites  
 RT nitriles

**carboxypeptidase**

1985-04-23

(Prior to April 1985 this was a valid descriptor.)

USE carboxypeptidases

**CARBOXYPEPTIDASES**

INIS: 1985-04-23; ETDE: 1981-01-30

(Prior to April 1985 the singular form was used.)

UF carboxypeptidase

\*BT1 peptide hydrolases

**carburan**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE bitumens

USE uranium minerals

**CARBURETORS**

INIS: 2000-04-12; ETDE: 1978-10-25

BT1 fuel systems

RT fuel-air ratio

RT internal combustion engines

RT spark ignition engines



**CARBURETTED WATER GAS**

2000-04-12

*Water gas enriched with gasified hydrocarbon oil.*\*BT1 intermediate btu gas  
RT water gas**CARBURIZATION**\*BT1 surface hardening  
RT decarburization**CARBYNES**

INIS: 1983-03-15; ETDE: 1982-02-11

*Triply bonded allotropes of carbon.*\*BT1 carbon  
BT1 radicals  
RT reaction intermediates**CARCINOEMBRYONIC ANTIGEN**

INIS: 1982-09-21; ETDE: 1980-10-07

UF *cea (antigen)*BT1 antigens  
RT embryos  
RT neoplasms**CARCINOGEN SCREENING**

INIS: 2000-04-12; ETDE: 1981-01-09

UF *screening (carcinogen)*RT bioassay  
RT carcinogenesis  
RT carcinogens  
RT mutagen screening  
RT testing**CARCINOGENESIS**BT1 pathogenesis  
NT1 leukemogenesis  
RT angiogenesis  
RT carcinogen screening  
RT carcinogens  
RT dna adducts  
RT neoplasms  
RT oncogenes  
RT oncogenic transformations  
RT oncogenic viruses**CARCINOGENS**UF *cycasin*  
RT acetylaminofluorenes  
RT carcinogen screening  
RT carcinogenesis  
RT dimethylbenzanthracene  
RT dna adducts  
RT environmental exposure  
RT mutagens  
RT neoplasms  
RT nitrosamines  
RT occupational exposure  
RT oncogenic transformations  
RT phorbol esters  
RT polycyclic aromatic hydrocarbons  
RT radiation equivalence  
RT radiomimetic drugs  
RT teratogens  
RT tumor promoters**CARCINOMAS**UF *adenocarcinomas*  
UF *bronchogenic carcinoma*  
UF *pulmonary cancer*  
UF *uterine cervix carcinoma*  
\*BT1 neoplasms  
NT1 adenomas  
NT1 angiomas  
NT1 epitheliomas  
NT2 melanomas  
NT1 hepatomas  
RT epithelium**card punches**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

SEE data processing

**CARDIAC GLYCOSIDES**

INIS: 2000-03-27; ETDE: 1981-04-20

UF *cardiotonic glycosides*\*BT1 cardiotonics  
\*BT1 glycosides  
NT1 digitalis glycosides  
NT2 digitoxin  
NT2 digoxin  
NT1 strophanthins  
NT2 ouabain**cardiac output**

USE blood circulation

**CARDIAC PACEMAKERS**

1995-11-15

UF *pacemakers*  
RT artificial organs  
RT electric batteries  
RT heart  
RT mechanical heart  
RT prostheses  
RT radioisotope batteries**CARDIOGRAPHY**BT1 diagnostic techniques  
NT1 radiocardiography  
RT blood circulation  
RT blood pressure  
RT electrocardiograms  
RT heart**CARDIOLIPIN**

\*BT1 phospholipids

**cardiopulmonary resuscitation**

INIS: 2000-04-12; ETDE: 1983-04-07

(Prior to September 1994, this was a valid ETDE descriptor.)

USE first aid

**cardiotonic glycosides**

USE cardiac glycosides

**CARDIOTONICS**UF *strophanthin*  
\*BT1 cardiovascular agents  
NT1 adrenaline  
NT1 cardiac glycosides  
NT2 digitalis glycosides  
NT3 digitoxin  
NT3 digoxin  
NT2 strophanthins  
NT3 ouabain  
NT1 dopamine  
NT1 noradrenaline  
RT heart  
RT steroids**CARDIOVASCULAR AGENTS**

INIS: 1984-05-24; ETDE: 1981-04-20

BT1 drugs  
NT1 antihypertensive agents  
NT2 reserpine  
NT1 cardiotonics  
NT2 adrenaline  
NT2 cardiac glycosides  
NT3 digitalis glycosides  
NT4 digitoxin  
NT4 digoxin  
NT3 strophanthins  
NT4 ouabain  
NT2 dopamine  
NT2 noradrenaline  
NT1 vasoconstrictorsNT2 angiotensin  
NT2 ephedrine  
NT1 vasodilators  
NT2 dipyridamole  
NT2 theobromine  
NT2 theophylline  
RT blood vessels  
RT cardiovascular diseases  
RT cardiovascular system  
RT heart  
RT vasoconstriction  
RT vasodilation**CARDIOVASCULAR DISEASES**UF *heart disease*  
BT1 diseases  
NT1 gas bubble disease  
NT1 myocardial infarction  
NT1 thrombosis  
NT1 vascular diseases  
NT2 arteriosclerosis  
NT2 hypertension  
NT2 ischemia  
NT2 nephrosclerosis  
NT2 telangiectasis  
NT2 thrombosis  
RT cardiovascular agents  
RT cardiovascular system  
RT emboli  
RT heart failure**CARDIOVASCULAR SYSTEM**NT1 blood vessels  
NT2 arteries  
NT3 aorta  
NT3 carotid arteries  
NT3 cerebral arteries  
NT3 coronaries  
NT2 capillaries  
NT2 veins  
NT3 portal system  
NT1 heart  
NT2 myocardium  
NT2 pericardium  
RT blood circulation  
RT blood pressure  
RT cardiovascular agents  
RT cardiovascular diseases  
RT lymphatic system  
RT organs**CAREM 25 REACTOR**

2018-03-07

*Argentina, Lima. Under construction.*\*BT1 pwr type reactors  
\*BT1 research reactors  
\*BT1 small modular reactors  
\*BT1 thermal reactors**CARGO**

INIS: 1992-06-30; ETDE: 1979-11-23

UF *freight*  
RT materials handling  
RT transport**CARIBBEAN SEA**\*BT1 atlantic ocean  
NT1 gulf of mexico  
NT2 galveston bay  
NT2 san antonio bay  
RT west indies**caribou**

USE deer

**CARIES**

INIS: 1975-09-16; ETDE: 1975-10-28

BT1 pathological changes  
RT dentistry  
RT teeth

**carl still process**

INIS: 2000-04-12; ETDE: 1979-01-30  
 Process in which ammonia water adsorbs hydrogen sulfide. The acid gas is fed to a sulfuric acid production plant.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**carlson method**

ETDE: 1975-07-29  
 USE discrete ordinate method

**carton power reactor**

USE kewaunee reactor

**CARMINIC ACID**

\*BT1 anthraquinones  
 \*BT1 carboxylic acids  
 \*BT1 hydroxy compounds  
 RT dyes

**CARNALLITE**

\*BT1 halide minerals  
 RT magnesium chlorides  
 RT potassium chlorides

**CARNATIONS**

\*BT1 magnoliopsida

**CARNITINE**

UF novain  
 UF vitamin b-t  
 \*BT1 amino acids  
 \*BT1 hydroxy acids  
 \*BT1 vitamin b group  
 RT betaine

**CARNOT CYCLE**

BT1 thermodynamic cycles  
 RT thermodynamics

**CARNOTITE**

\*BT1 uranium minerals  
 RT uranium vanadates

**carolina power light robinson-2 reactor**

1993-11-04  
 USE robinson-2 reactor

**carolinas virginia tube reactor**

1993-11-04  
 USE cvtr reactor

**carotenes**

2003-11-05  
 USE carotenoids

**CAROTENOIDS**

UF carotenes  
 \*BT1 hydrocarbons  
 BT1 pigments  
 \*BT1 terpenes  
 RT vitamin a  
 RT vitamins

**CAROTID ARTERIES**

\*BT1 arteries  
 RT head  
 RT neck

**CARPENTER**

2000-04-12  
 \*BT1 chromium-nickel steels

**carpetbag event**

1994-10-14  
 A test made during OPERATION EMERY.  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**carpocapsa pomonella**

INIS: 1975-12-19; ETDE: 1979-05-03  
 USE codling moth

**CARPOOLING**

INIS: 2000-04-12; ETDE: 1976-04-19  
 SF ridesharing  
 NT1 vanpooling  
 RT automobiles  
 RT energy conservation  
 RT land transport  
 RT roads  
 RT transportation systems

**CARR REACTOR**

2018-06-04  
 Beijing, Fangshang district, China.  
 UF china advanced research reactor  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**CARRIER DENSITY**

UF density (carrier)  
 RT charge carriers  
 RT current density

**CARRIER-FREE ISOTOPES**

1999-07-16  
 BT1 isotopes  
 RT labelled compounds  
 RT labelling  
 RT radioisotopes  
 RT trace amounts

**CARRIER LIFETIME**

BT1 lifetime  
 RT charge carriers

**CARRIER MOBILITY**

BT1 mobility  
 RT charge carriers  
 RT electric conductivity  
 RT electron transfer

**CARRIERS**

Not for CHARGE CARRIERS.  
 RT liposomes  
 RT radioisotopes  
 RT radionuclide kinetics  
 RT stable isotopes

**carrizo mountains**

1996-06-26  
 (Until June 1996 this was a valid descriptor.)  
 USE mountains

**CARROTS**

\*BT1 magnoliopsida  
 \*BT1 vegetables

**cars**

ETDE: 2002-06-13  
 USE automobiles

**cars (spectroscopy)**

INIS: 1986-04-04; ETDE: 2002-06-13  
 Coherent Anti-Stokes Raman Spectroscopy.  
 USE raman spectroscopy

**CARTELS**

INIS: 1996-08-05; ETDE: 1977-09-19  
 Voluntary, often international, combinations of independent private enterprises supplying like commodities or services that agree to limit their competitive activities.  
 RT competition  
 RT embargoes  
 RT market  
 RT monopolies  
 RT opec  
 RT trade

**CARTESIAN COORDINATES**

BT1 coordinates

**CARTILAGE**

UF disks (intervertebral)  
 UF intervertebral disks  
 \*BT1 connective tissue  
 RT bone joints

**casaccia rana reactor**

USE rana reactor

**casaccia rospo reactor**

1986-10-29  
 USE rospo reactor

**cascade (extraction)**

USE extraction columns

**CASCADE IMPACTORS**

RT aerosol monitoring  
 RT air pollution monitors  
 RT air samplers  
 RT condensation particle counters

**CASCADE MOUNTAINS**

INIS: 1997-06-17; ETDE: 1982-09-10  
 BT1 mountains  
 NT1 mt baker  
 NT1 mt hood  
 NT1 mt st helens  
 RT california  
 RT oregon  
 RT sierra nevada colorado  
 RT washington

**CASCADE REACTORS**

INIS: 1999-04-19; ETDE: 1984-05-23  
 A conceptual inertial confinement fusion reactor which uses a replenished layer of granules for wall protection, heat exchange, and fuel production.  
 \*BT1 laser fusion reactors  
 RT icf devices

**CASCADE SHOWERS**

BT1 showers  
 RT cascade theory  
 RT cosmic showers

**CASCADE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18  
 UF graded band gap solar cells  
 \*BT1 solar cells  
 RT graded band gaps

**CASCADE THEORY**

RT cascade showers  
 RT gamma cascades

**cascaes (nuclear)**

USE nuclear cascades

**CASE LAW**

INIS: 1976-12-08; ETDE: 1977-06-24  
 BT1 laws

**CASE METHOD**

BT1 calculation methods  
 RT transport theory

**CASEIN**

\*BT1 organic phosphorus compounds  
 \*BT1 proteins

**CASIMIR EFFECT**

INIS: 1986-05-27; ETDE: 1986-11-18  
 Attractive force between two uncharged, conducting, parallel plates due to vacuum fluctuations of the electromagnetic field, i.e. quantum electromagnetic zero-point energy.  
 UF casimir force  
 RT electric fields

RT vacuum polarization

### casimir force

INIS: 1986-05-27; ETDE: 2002-06-13

USE casimir effect

### CASIMIR OPERATORS

BT1 mathematical operators

RT symmetry groups

### casings

2000-04-12

USE coverings

### casings (well)

INIS: 1992-05-26; ETDE: 1981-01-27

USE well casings

### CASKS

UF flasks

UF fuel casks

BT1 containers

NT1 spent fuel casks

### CASPIAN SEA

INIS: 1976-01-28; ETDE: 1975-09-11

\*BT1 lakes

\*BT1 seas

RT azerbaijan

RT iran

RT kazakhstan

RT russian federation

RT turkmenistan

### CASSAVA

UF manioc

\*BT1 magnoliopsida

RT food

### CASSEGRAINIAN

#### CONCENTRATORS

INIS: 2000-04-12; ETDE: 1981-03-17

Solar concentrators consisting of a paraboloidal primary reflector and a confocal hyperboloidal secondary reflector.

\*BT1 solar concentrators

RT parabolic reflectors

### CAST IRON

\*BT1 carbon additions

\*BT1 iron base alloys

\*BT1 silicon alloys

RT iron carbides

RT pearlite

### CAST METHOD

INIS: 2000-04-12; ETDE: 1980-02-11

Capillary action shaping technique for ribbon crystal growth.

UF capillary action shaping technique

BT1 crystal growth methods

RT crystal growth

RT efg method

RT sheets

### CASTAGNOLI FORMULA

RT angular distribution

### caste (insects)

USE insects

USE occupations

USE populations

### castillejo-dalitz-dyson poles

USE cdd poles

### CASTING

BT1 fabrication

NT1 electroslag casting

NT1 slip casting

NT1 vacuum casting

RT casting molds

RT castings

RT crucibles

RT dies

RT foundries

RT materials working

RT melting

RT molding

### CASTING MOLDS

UF molds (casting)

RT casting

RT castings

RT dies

RT molding

### CASTINGS

1977-01-25

UF metal castings

RT casting

RT casting molds

RT degassing

RT inclusions

RT machine parts

RT solidification

### CASTLE PROJECT

UF project castle

\*BT1 nuclear explosions

RT atmospheric explosions

RT bikini

RT nuclear weapons

RT surface explosions

RT thermonuclear explosions

### CASTOR

UF ricinum communis

\*BT1 euphorbia

\*BT1 medicinal plants

RT castor oil

### CASTOR OIL

\*BT1 vegetable oils

RT castor

### CASTOR TOKAMAK

INIS: 1987-05-26; ETDE: 1987-06-09

Institute of Plasma Physics, Czech Academy of Sciences, Prague.

\*BT1 tokamak devices

### CASTRATION

\*BT1 surgery

RT androgens

RT estrogens

RT gonads

RT reproductive disorders

RT therapy

### cat-ox process

2000-04-12

Catalytic oxidation method developed by Monsanto enviro-chem systems, inc., for removing sulfur dioxide from flue gas of fossil-fuel generating stations. System consists basically of following phases: fly ash collection, conversion of sulfur dioxide to sulfur trioxide, heat recovery, removal of hydrogen sulfate, acid mist elimination, and acid storage and loading.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

### CAT SCANNING

INIS: 1978-01-16; ETDE: 1978-03-03

Computerized Axial Tomography scanning.

UF computer axial tomography scanning

UF ct scanning

\*BT1 computerized tomography

RT biomedical radiography

RT image processing

### CATABOLISM

BT1 metabolism

RT decomposition

RT glycolysis

RT proteolysis

### catacarb carbon dioxide removal

#### process

2000-04-12

USE desulfurization

### catacarb process

2000-04-12

Process for gas purification by removal of acid gases.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

### cataclysmic binary stars

INIS: 1984-05-24; ETDE: 2002-06-13

USE eruptive variable stars

### cataclysmic variable stars

INIS: 1984-05-24; ETDE: 1984-06-29

Variable close binary systems, one star of which provides the other with accretion material.

USE eruptive variable stars

### CATAGENESIS

INIS: 2000-04-12; ETDE: 1977-08-09

Changes in a sedimentary rock caused by pressure-temperature conditions quite different from those of deposition; as opposed to diagenesis in which burial depth is slight and temperature close to that of deposition temperature.

RT diagenesis

RT origin

RT sediments

### CATALASE

\*BT1 peroxidases

### CATALOGS

INIS: 1994-07-01; ETDE: 1978-01-23

(Until June 1994 this concept was indexed to INDEXES.)

BT1 document types

RT directories

### CATALYSIS

NT1 heterogeneous catalysis

NT1 homogeneous catalysis

NT1 photocatalysis

RT catalysts

RT catalytic converters

RT catalytic cracking

RT catalytic effects

RT chemical reaction kinetics

RT chemical reactions

RT coenzymes

RT electrocatalysts

RT enzyme activity

RT enzymes

RT inhibition

RT selective catalytic reduction

RT ziegler catalyst

### CATALYST SUPPORTS

INIS: 1992-01-16; ETDE: 1978-06-14

UF supports (catalyst)

RT catalysts

RT substrates

RT supports

### CATALYSTS

NT1 electrocatalysts

NT1 ziegler catalyst

RT additives

RT catalysis  
 RT catalyst supports  
 RT catalytic combustors  
 RT catalytic converters  
 RT photocatalysis  
 RT promoters

**CATALYTIC COMBUSTORS**

INIS: 2000-04-12; ETDE: 1978-04-06  
 Combustors which contain catalysts to increase efficiency and/or to reduce the emission of harmful gaseous pollutants.

BT1 combustors  
 RT air pollution control  
 RT catalysts  
 RT pollution control equipment

**CATALYTIC CONVERTERS**

1991-12-18

Air pollution control devices using a catalytic reaction to change gaseous effluents to harmless gases.

\*BT1 pollution control equipment  
 RT air pollution control  
 RT automobiles  
 RT catalysis  
 RT catalysts  
 RT exhaust gases

**CATALYTIC CRACKING**

INIS: 1998-01-28; ETDE: 1976-12-15

\*BT1 cracking  
 RT catalysis  
 RT hydrocracking  
 RT thermal cracking

**CATALYTIC EFFECTS**

1992-01-16

RT catalysis  
 RT electrocatalysts

**CATALYTIC HYDROSOLVATION PROCESS**

INIS: 2000-04-12; ETDE: 1978-08-07

Coal is impregnated with catalysts (zinc chloride, stannous chloride, and ammonium molybdate), slurried with oil, and hydrogenated under hydrogen pressures up to 4000 psi at 400 to 500 degrees C.

\*BT1 coal liquefaction  
 RT desulfurization

**catalytic-ifp ammonia scrubbing process**

INIS: 2000-04-12; ETDE: 1977-04-12

USE desulfurization

**CATALYTIC REFORMING**

INIS: 2000-04-12; ETDE: 1979-01-30

Catalytic aromatization of the paraffins and naphthenes of a naphtha to a liquid.

\*BT1 reformer processes  
 RT refining

**catalytic rich gas process**

INIS: 2000-04-12; ETDE: 1976-01-07

USE crg processes

**catania national laboratory**

2016-12-12

USE infn

**cataphoresis**

USE electrophoresis

**catapleite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE silicate minerals

**CATARACTS**

UF eye cataracts

\*BT1 sense organs diseases

RT crystalline lens

**CATAWBA-1 REACTOR**

Duke Energy Co., Rock Hill, South Carolina, USA.

\*BT1 pwr type reactors

**CATAWBA-2 REACTOR**

Duke Energy Co., Rock Hill, South Carolina, USA.

\*BT1 pwr type reactors

**catchment basins**

2001-07-26

USE watersheds

**catechol**

USE pyrocatechol

**CATECHOLAMINES**

\*BT1 amines

\*BT1 polyphenols

RT pyrocatechol

**cathepsin**

2000-04-12

(From January 1981 to August 1989, this was a valid ETDE descriptor and material from this period is so indexed.)

USE cathepsins

**CATHEPSINS**

ETDE: 1981-01-30

Code number 3.4.22.1.

UF cathepsin

\*BT1 sh-proteinases

**CATHODE FOLLOWERS**

BT1 electronic circuits

RT pulse amplifiers

**CATHODE RAY TUBE DIGITIZERS**

UF pepr devices

\*BT1 digitizers

**CATHODE RAY TUBES**

BT1 electron tubes

RT display devices

RT electron scanning

RT image tubes

RT oscillographs

**CATHODE SPUTTERING**

BT1 sputtering

RT physical vapor deposition

RT vapor plating

**CATHODES**

BT1 electrodes

NT1 hollow cathodes

NT1 photocathodes

RT cathodoluminescence

RT electron tubes

RT thermionic emitters

**CATHODIC PROTECTION**

INIS: 1999-10-08; ETDE: 1977-03-08

(Until October 1999 this concept was indexed by CORROSION PROTECTION.)

BT1 corrosion protection

RT electrochemical corrosion

RT pitting corrosion

**CATHODOLUMINESCENCE**

Cathode-ray-excited emission.

\*BT1 luminescence

RT cathodes

RT emission spectroscopy

**cation exchange capacity**

INIS: 2000-04-12; ETDE: 1979-03-27

USE cations

USE ion exchange

**CATIONS**

UF cation exchange capacity

UF positive ions

\*BT1 ions

NT1 hydrogen ions 1 plus

NT1 hydrogen ions 2 plus

NT1 hydrogen ions 3 plus

RT carbonium compounds

RT chemical state

RT electrolysis

RT ion beams

RT ion exchange materials

**CATS**

\*BT1 mammals

**CATTAILS**

INIS: 1991-12-16; ETDE: 1980-11-25

\*BT1 liliopsida

RT aquatic ecosystems

RT biomass

RT marshes

**CATTENOM-1 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

Electricite de France, Cattenom, Moselle, France

\*BT1 pwr type reactors

**CATTENOM-2 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

Electricite de France, Cattenom, Moselle, France

\*BT1 pwr type reactors

**CATTENOM-3 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

Electricite de France, Cattenom, Moselle, France

\*BT1 pwr type reactors

**CATTENOM-4 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

Electricite de France, Cattenom, Moselle, France

\*BT1 pwr type reactors

**CATTLE**

UF bovine

\*BT1 domestic animals

\*BT1 ruminants

NT1 calves

NT1 cows

RT forage

RT gramineae

RT meat

RT pastures

**CAUCASUS**

INIS: 2000-04-12; ETDE: 1978-06-14

RT armenia

RT azerbaijan

RT republic of georgia

RT russian federation

**CAUCHY PROBLEM**

1999-04-13

RT boundary conditions

RT boundary-value problems

RT partial differential equations

**cauliflower**

USE brassica

**caulking**

INIS: 2000-04-12; ETDE: 1977-11-09

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE air infiltration

SEE seals

SEE weatherization

**CAUSALITY**

- RT quantum mechanics  
RT schwinger source theory

**CAUSTIC FLOODING**

- INIS: 2000-04-12; ETDE: 1978-10-23  
Injection of alkaline solution to enhance recovery of residual petroleum.  
UF alkaline flooding  
\*BT1 waterflooding  
RT enhanced recovery

**CAVES**

- BT1 cavities  
RT geologic fissures  
RT openings  
RT rock caverns  
RT salt caverns

**CAVING**

- INIS: 1992-09-01; ETDE: 1979-06-06  
RT strata control  
RT strata movement  
RT underground mining

**CAVING MINING**

- INIS: 2000-04-12; ETDE: 1979-01-30  
\*BT1 underground mining

**CAVITATION**

- UF column separation (fluid mechanics)  
RT fluid flow  
RT ultrasonic waves

**CAVITIES**

- (From November 1976 till March 1997 UNDERGROUND SPACE was a valid ETDE descriptor.)  
SF underground space  
NT1 boreholes  
NT1 caves  
NT1 craters  
NT1 rock caverns  
NT1 salt caverns  
NT1 sinuses  
RT chimneys  
RT crystal defects  
RT excavation  
RT mine shafts  
RT nuclear explosions  
RT openings  
RT underground explosions  
RT underground storage  
RT voids  
RT water influx

**cavity ionization chambers**

- USE bragg gray chambers

**CAVITY RECEIVERS**

- INIS: 2000-04-12; ETDE: 1979-09-26  
BT1 solar receivers

**CAVITY RESONATORS**

- UF resonance cavities  
\*BT1 resonators  
NT1 superconducting cavity resonators  
RT cyclic accelerators  
RT microwave equipment  
RT rf systems  
RT tuning

**cba (brookhaven colliding beam accelerator)**

- INIS: 2000-04-12; ETDE: 1983-04-28  
USE isabelle storage rings

**cba process**

- INIS: 2000-04-12; ETDE: 1977-08-09  
USE desulfurization

**CBM DETECTOR**

- 2017-11-01  
The Compressed Baryonic Matter is a fixed target experiment designed to explore the QCD phase diagram in the region of high net-baryon densities  
UF cbm experiment  
UF compressed baryonic matter experiment  
\*BT1 radiation detectors  
RT fair accelerator complex

**cbm experiment**

- 2017-11-01  
USE cbm detector

**ccba**

- USE coupled channel born approximation

**ccd**

- INIS: 1979-09-18; ETDE: 1978-04-27  
USE charge-coupled devices

**ccms**

- INIS: 2000-04-12; ETDE: 1978-02-14  
Committee on the challenges of modern society.  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE international organizations

**cd-4mcu**

- INIS: 2000-04-12; ETDE: 1979-09-06  
USE steel-cd-4mcu

**CDC COMPUTERS**

- BT1 computers  
RT supercomputers

**CDD POLES**

- UF castillejo-dalitz-dyson poles  
RT dispersion relations  
RT partial waves

**cdf**

- INIS: 1992-01-14; ETDE: 1985-12-13  
(Prior to January 1992, this was a valid ETDE descriptor.)  
USE fermilab collider detector

**CDFR REACTOR**

- INIS: 1979-09-18; ETDE: 1979-10-23  
Plan was cancelled.  
UF commercial demonstration fast reactor  
\*BT1 lmfr type reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors

**CDTA**

- Cyclohexylenedinitrotetraacetic acid.  
UF cyclohexylenedinitrotetraacetic acid  
\*BT1 amino acids  
BT1 chelating agents

**CDTE SEMICONDUCTOR DETECTORS**

- UF cadmium telluride detectors  
\*BT1 semiconductor detectors

**CDX-U SPHEROMAK**

- INIS: 1999-07-26; ETDE: 1999-09-02  
Current Drive Experiment Upgrade, Princeton Plasma Physics Laboratory, USA.  
\*BT1 spheromak devices

**cdznte**

- 2017-02-02  
USE cdznte semiconductor detectors

**CDZNTE SEMICONDUCTOR DETECTORS**

- 2017-02-02  
UF cdznte  
UF czt  
\*BT1 semiconductor detectors

**CE ENTRAINED FUEL PROCESS**

- INIS: 2000-04-12; ETDE: 1977-05-07  
Process using a low pressure, air-blown entrained gasifier with two points of coal feed that can be modified to operate under pressure and with oxygen blowing.  
UF combustion engineering gasification process  
\*BT1 coal gasification  
RT entrainment

**ce lummus cffc process**

- INIS: 2000-04-12; ETDE: 1981-10-24  
A plug flow, expanded-bed, catalytic, hydroliquefaction process.  
(Prior to February 1995, this was a valid ETDE descriptor.)  
USE coal liquefaction

**CE STANDARD REACTOR**

- 1975-10-29  
USA.  
(Prior to 1975, PWR/80 TYPE REACTORS was used.)  
UF combustion engineering standard reactor  
UF pwr/80 type reactors  
\*BT1 pwr type reactors  
RT palo verde-1 reactor  
RT palo verde-2 reactor  
RT palo verde-3 reactor  
RT palo verde-4 reactor  
RT palo verde-5 reactor

**CEA**

- UF commissariat a l'energie atomique  
\*BT1 french organizations  
NT1 cea bruyeres-le-chatel  
NT1 cea cadarache  
NT1 cea fontenay-aux-roses  
NT1 cea grenoble  
NT1 cea la hague  
NT1 cea marcoule  
NT1 cea pierrelatte  
NT1 cea saclay  
RT areva nc  
RT france

**cea (accelerator)**

- INIS: 1984-06-21; ETDE: 2002-06-13  
USE cambridge electron accelerator

**cea (antigen)**

- INIS: 1982-09-21; ETDE: 1980-10-07  
USE carcinoembryonic antigen

**CEA-ADL DUAL ALKALI PROCESS**

- INIS: 2000-04-12; ETDE: 1978-06-14  
Flue gas is passed through an absorption section where sulfur dioxide, chlorides, and sulfur trioxide are removed via contact with a solution of sodium salts. The sodium/sulfur salts are reacted with hydrated lime in a special 2-stage reactor to regenerate the sodium. Calcium/sulfur solids produced are separated from the liquor containing regenerated sodium compounds and disposed of. The regenerated liquor is recirculated to the absorption section.  
UF limestone dual alkali desulfurization process  
\*BT1 desulfurization  
RT waste processing

**CEA BRUYERES-LE-CHATEL**

INIS: 1989-12-08; ETDE: 1990-01-03

\*BT1 cea

**CEA CADARACHE**

UF cadarache (cea)

\*BT1 cea

**CEA FONTENAY-AUX-ROSES**

UF fontenay-aux-roses (cea)

\*BT1 cea

**CEA GRENOBLE**

\*BT1 cea

**CEA LA HAGUE**

\*BT1 cea

\*BT1 fuel reprocessing plants

**CEA MARCOULE**

UF marcoule (cea)

\*BT1 cea

**CEA PIERRELATTE**

UF pierrelatte (cea)

\*BT1 cea

**CEA SACLAY**

UF saclay (cea)

\*BT1 cea

**CEBAF ACCELERATOR**

INIS: 1987-05-26; ETDE: 1987-06-09

Continuous Electron Beam Accelerator Facility.

UF jefferson laboratory

UF thomas jefferson national accelerator facility

\*BT1 linear accelerators

RT jefferson lab meic

**CEDAR COMPUTERS**

INIS: 2000-04-12; ETDE: 1987-04-08

RT array processors

RT parallel processing

RT supercomputers

RT vector processing

**CEDARS**

INIS: 1992-01-15; ETDE: 1985-12-11

UF junipers

UF juniperus

\*BT1 conifers

\*BT1 trees

**cef-or reactor**

USE or-cef reactor

**CEFR REACTOR**

INIS: 2000-02-22; ETDE: 2000-10-04

Beijing, China.

UF china experimental fast reactor

\*BT1 experimental reactors

\*BT1 fast reactors

**CEILING FANS**

INIS: 2000-04-12; ETDE: 1982-03-10

RT air conditioning

RT blowers

RT cooling systems

RT ventilation

**CEILINGS**

INIS: 2000-04-12; ETDE: 1975-09-11

RT buildings

**CELESTIN REACTOR**

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 tritium production reactors

**CELL CONSTITUENTS**

1997-06-19

UF organelles

UF subcellular organelles

NT1 cell membranes

NT2 myelin

NT1 cell nuclei

NT2 nucleoli

NT1 cell wall

NT1 chloroplasts

NT1 cytoplasm

NT1 endoplasmic reticulum

NT2 sarcoplasmic reticulum

NT1 golgi complexes

NT1 microtubules

NT1 mitochondria

NT1 phycobilisomes

NT1 plasmids

NT1 ribosomes

NT2 microsomes

RT animal cells

RT cytological techniques

RT cytology

RT liposomes

RT phagocytosis

RT plant cells

RT post-translation modification

RT subcellular distribution

RT tissue extracts

RT ultracentrifugation

RT ultrastructural changes

**CELL CULTURES**

UF cultures (cells)

NT1 clone cells

NT1 synchronous cultures

RT animal cells

RT biotechnology

RT cho cells

RT cloning

RT colony formation

RT culture media

RT hybridomas

RT in vitro

RT methanotrophic bacteria

RT microorganisms

RT mutagen screening

RT plant cells

RT tissue cultures

RT tumor cells

**CELL CYCLE**

RT cell division

RT concanavalin a

RT dna replication

RT replicons

RT synchronization

RT synchronous cultures

**CELL DIFFERENTIATION**

RT apoptosis

RT blood formation

RT gene amplification

RT genetic engineering

RT growth factors

RT ontogenesis

**CELL DIVISION**

NT1 meiosis

NT1 mitosis

RT cell cycle

RT cell proliferation

RT gametogenesis

RT healing

RT in vivo

RT mitogens

RT non-disjunction

**CELL FLOW SYSTEMS**

INIS: 1977-09-06; ETDE: 1976-08-04

Fluid flow devices in which a stream of individual cells from biological cell samples flow through a chamber enabling the screening of cytological material.

UF flow cytometers

RT animal cells

RT chromosome sorting

RT cytological techniques

RT cytology

RT plant cells

**cell growth (animal)**

USE animal cells

USE growth

**cell growth (plant)**

USE growth

USE plant cells

**CELL KILLING**

RT apoptosis

RT death

**CELL MEMBRANES**

1999-04-21

SF membrane theory

BT1 cell constituents

BT1 membranes

NT1 myelin

RT cell wall

RT golgi complexes

RT membrane pores

RT radioreceptor assay

RT subcellular distribution

**CELL NUCLEI**

UF nuclei (cells)

BT1 cell constituents

NT1 nucleoli

RT chromatin

RT chromosomes

RT human chromosomes

RT nucleic acids

RT subcellular distribution

**CELL PROLIFERATION**

UF proliferation (cell)

RT cell division

RT cloning

RT concanavalin a

RT growth factors

RT in vivo

RT phytohemagglutinin

RT replicons

**cell recycle**

INIS: 2000-04-12; ETDE: 1978-10-23

Technique of recycling yeasts or other microorganisms back into biochemical reaction vessel.

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE anaerobic digestion

SEE fermentation

**CELL TRANSFORMATIONS**

INIS: 1999-04-21; ETDE: 1985-11-19

NT1 oncogenic transformations

RT viral diseases

**CELL WALL**

UF walls (cell)

BT1 cell constituents

RT cell membranes

RT plant cells

**cellars**

INIS: 1992-08-25; ETDE: 1984-08-06

USE basements

**CELLOBIOSE**

\*BT1 disaccharides

**CELLOPHANE**

\*BT1 polysaccharides  
RT cellulose

**CELLOSOLVES**

UF glycol monoalkyl ethers  
\*BT1 ethers  
\*BT1 glycols  
\*BT1 organic solvents

**cells (animal)**

USE animal cells

**cells (bacterial)**

USE bacteria

**cells (electrolytic)**

USE electrolytic cells

**cells (immobilized)**

INIS: 2000-04-12; ETDE: 1980-09-22  
SEE immobilized cells

**cells (plant)**

USE plant cells

**cells (reactor)**

USE reactor cells

**CELLULASE**

INIS: 1996-11-13; ETDE: 1981-01-12  
Code number 3.2.1.4.  
UF cellulases  
UF cellulolytic activity  
\*BT1 o-glycosyl hydrolases  
RT enzymatic hydrolysis

**cellulases**

INIS: 2000-04-12; ETDE: 1978-03-03  
Code number 3.2.1.4.  
USE cellulase

**CELLULOID**

RT camphor  
RT cellulose esters  
RT nitrocellulose

**cellulolytic activity**

INIS: 1985-07-23; ETDE: 1979-05-25  
Measure of efficiency for cellulose biodegradation.  
(Prior to February 1997 this was a valid ETDE descriptor.)  
USE cellulase  
USE enzymatic hydrolysis

**CELLULOSE**

UF ethocel  
\*BT1 polysaccharides  
RT bagasse  
RT biomass  
RT cellophane  
RT cellulose esters  
RT cellulosic ethanol  
RT delignification  
RT hemicellulose  
RT polyacetals  
RT rayon

**CELLULOSE ESTERS**

1999-04-27  
\*BT1 esters  
NT1 nitrocellulose  
RT celluloid  
RT cellulose

**CELLULOSIC ETHANOL**

2009-04-22  
\*BT1 bioethanol  
RT cellulose

RT maize  
RT switchgrass

**CELSIUS STORAGE RING**

INIS: 1986-07-09; ETDE: 1989-08-16  
BT1 storage rings  
RT uppsala synchrocyclotron

**celtic sea**

INIS: 2000-04-12; ETDE: 1977-05-07  
USE irish sea

**CEMENT INDUSTRY**

INIS: 1994-09-13; ETDE: 1977-07-23  
BT1 industry  
RT cements  
RT portland cement

**cemented carbides**

ETDE: 2002-06-13  
USE cermetes

**CEMENTING**

INIS: 2000-06-27; ETDE: 1981-08-21  
RT bonding  
RT cements  
RT compacting  
RT grouting  
RT plugging  
RT seals  
RT well casings  
RT well completion

**CEMENTITE**

1995-11-22  
A compound, Fe<sub>3</sub>C, occurring as lamellae in steel.  
\*BT1 intermetallic compounds  
\*BT1 iron carbides  
RT martensite  
RT pearlite  
RT steels

**CEMENTS**

\*BT1 building materials  
NT1 gypsum cements  
NT1 portland cement  
RT cement industry  
RT cementing  
RT concretes  
RT grouting  
RT mortars  
RT plugging agents

**CEN**

INIS: 2004-07-16; ETDE: 2002-10-02  
UF european committee for standardization  
BT1 international organizations  
RT recommendations  
RT standardization  
RT standardized terminology  
RT standards document

**CENNA**

INIS: 1989-02-24; ETDE: 1989-03-20  
Convention on Early Notification of a Nuclear Accident.  
UF convention on early notification of nuclear accident  
UF early notification convention  
\*BT1 multilateral agreements  
RT iaea  
RT reactor accidents

**CENOZOIC ERA**

INIS: 1992-04-14; ETDE: 1977-10-19  
BT1 geologic ages  
NT1 quaternary period  
NT2 pleistocene epoch  
NT1 tertiary period  
NT2 eocene epoch

NT2 miocene epoch  
NT2 pliocene epoch

**CENTAURO-TYPE EVENTS**

INIS: 1999-03-23; ETDE: 1979-08-07  
Cosmic-ray events of high hadron multiplicity without associated neutral pions.  
RT cosmic radiation  
RT cosmic showers  
RT extensive air showers  
RT fireball model  
RT hadrons  
RT multiple production  
RT nuclear matter  
RT particle interactions  
RT quarks

**CENTER-OF-MASS SYSTEM**

UF centre-of-mass system  
RT coordinates  
RT laboratory system  
RT longitudinal momentum  
RT lorentz transformations  
RT mechanics  
RT scattering  
RT transverse momentum

**CENTRAL AFRICAN REPUBLIC**

BT1 africa  
BT1 developing countries

**CENTRAL AMERICA**

1996-07-08  
(Prior to July 1996 PANAMA CANAL ZONE was a valid ETDE descriptor.)  
UF panama canal zone  
BT1 latin america  
NT1 belize  
NT1 costa rica  
NT1 el salvador  
NT1 guatemala  
NT1 honduras  
NT1 nicaragua  
NT1 panama

**CENTRAL HEATING PLANTS**

1999-02-12  
RT district cooling  
RT district heating  
RT modular integrated utility systems  
RT solar district heating  
RT space heating  
RT steam generation plants

**central intelligence agency**

INIS: 2000-04-12; ETDE: 1980-08-25  
USE us cia

**CENTRAL NERVOUS SYSTEM**

BT1 nervous system  
NT1 brain  
NT2 cerebellum  
NT2 cerebrum  
NT3 cerebral cortex  
NT2 hippocampus  
NT2 hypothalamus  
NT2 olfactory bulbs  
NT2 thalamus  
NT1 spinal cord  
RT behavior  
RT central nervous system agents  
RT central nervous system depressants  
RT cerebrospinal fluid  
RT meninges  
RT rabies  
RT radiation syndrome  
RT receptors

**CENTRAL NERVOUS SYSTEM AGENTS**

INIS: 1984-05-24; ETDE: 1981-04-20

- BT1 drugs
- NT1 analeptics
  - NT2 amphetamines
  - NT3 benzedrine
  - NT2 caffeine
- NT1 central nervous system depressants
  - NT2 analgesics
    - NT3 acetylsalicylic acid
    - NT3 antipyrine
    - NT3 codeine
    - NT3 opium
      - NT4 morphine
      - NT5 thebaine
    - NT3 pethidine
  - NT2 anesthetics
    - NT3 barbiturates
    - NT4 nembital
    - NT4 phenobarbital
  - NT3 cocaine
  - NT3 procaine
- NT2 anticonvulsants
  - NT3 phenobarbital
- NT2 antipyretics
  - NT3 acetylsalicylic acid
  - NT3 antipyrine
  - NT3 colchicine
  - NT3 quinine
- NT2 hypnotics and sedatives
  - NT3 barbiturates
  - NT4 nembital
  - NT4 phenobarbital
- NT3 chlorpromazine
- NT3 codeine
- NT3 reserpine
- NT2 narcotics
  - NT3 heroin
  - NT3 methadone hydrochloride
  - NT3 opium
    - NT4 morphine
    - NT5 thebaine
  - NT3 pethidine
- NT1 psychotropic drugs
- NT2 antidepressants
  - NT3 cocaine
  - NT3 imipramine
- NT2 hallucinogens
  - NT3 bufotenine
- NT2 tranquilizers
  - NT3 chlorpromazine
  - NT3 reserpine
- RT behavior
- RT central nervous system
- RT mental disorders

**CENTRAL NERVOUS SYSTEM DEPRESSANTS**

INIS: 1984-05-24; ETDE: 1981-04-20

- UF *cns depressants*
- UF *depressants (central nervous system)*
- \*BT1 central nervous system agents
- NT1 analgesics
  - NT2 acetylsalicylic acid
  - NT2 antipyrine
  - NT2 codeine
  - NT2 opium
    - NT3 morphine
    - NT4 thebaine
  - NT2 pethidine
- NT1 anesthetics
  - NT2 barbiturates
  - NT3 nembital
  - NT3 phenobarbital
- NT2 cocaine
- NT2 procaine
- NT1 anticonvulsants
  - NT2 phenobarbital

- NT1 antipyretics
  - NT2 acetylsalicylic acid
  - NT2 antipyrine
  - NT2 colchicine
  - NT2 quinine
- NT1 hypnotics and sedatives
  - NT2 barbiturates
    - NT3 nembital
    - NT3 phenobarbital
  - NT2 chlorpromazine
  - NT2 codeine
  - NT2 reserpine
- NT1 narcotics
  - NT2 heroin
  - NT2 methadone hydrochloride
  - NT2 opium
    - NT3 morphine
    - NT4 thebaine
  - NT2 pethidine
- RT anesthesia
- RT behavior
- RT central nervous system
- RT endorphins
- RT sleep

**central nervous system stimulants**

INIS: 1984-05-24; ETDE: 1981-04-20

- USE analeptics

**central nuclear de zorita-1**

- USE zorita-1 reactor

**central nuclear en atucha reactor**

1993-11-04

- SEE atucha-1 reactor
- SEE atucha-2 reactor

**CENTRAL POTENTIAL**

- BT1 potentials
- RT coulomb field

**central receiver power plants**

INIS: 2000-04-12; ETDE: 1984-08-20

- USE tower focus power plants

**CENTRAL RECEIVER TEST FACILITY**

INIS: 2000-04-12; ETDE: 1980-11-25

*DOE's test facility at Sandia Laboratories.*

- UF *solar thermal test facility*
- BT1 test facilities
- RT central receivers
- RT heliostats
- RT tower focus collectors
- RT tower focus power plants

**CENTRAL RECEIVERS**

INIS: 1993-01-28; ETDE: 1976-05-17

- UF *solar central receivers*
- BT1 solar receivers
- RT advanced components test facility
- RT boilers
- RT central receiver test facility
- RT solar collectors
- RT tower focus power plants

**central region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982, this was a valid ETDE descriptor.)

- USE usa

**CENTRALLY PLANNED ECONOMIES**

INIS: 1997-08-20; ETDE: 1979-12-10

*Includes the economies of the countries in the list below.*

- RT albania
- RT bulgaria
- RT china
- RT economic development

- RT economic policy
- RT mongolian peoples republic
- RT national government
- RT nationalization
- RT north korea
- RT romania
- RT viet nam

**centre-of-mass system**

- USE center-of-mass system

**centrifugal contactors**

INIS: 2000-04-12; ETDE: 1981-10-24

- USE extraction apparatuses

**CENTRIFUGAL FAST ANALYZERS**

2000-04-12

- RT chemical analysis

**CENTRIFUGAL PUMPS**

INIS: 1994-06-27; ETDE: 1979-09-26

- \*BT1 pumps

**centrifugal separators**

INIS: 1976-10-07; ETDE: 1976-03-22

- USE inertial separators

**CENTRIFUGATION**

- BT1 separation processes
- NT1 gas centrifugation
- NT1 ultracentrifugation
- RT centrifuge enrichment plants
- RT isotope separation
- RT podbielniak contactors
- RT sedimentation
- RT ultracentrifuges

**CENTRIFUGE ENRICHMENT PLANTS**

INIS: 1978-02-23; ETDE: 1976-05-17

- UF *enrichment plants (centrifuge)*
- UF *enrichment plants (ultracentrifuge)*
- UF *ultracentrifuge enrichment plants*
- \*BT1 isotope separation plants
- NT1 portsmouth centrifuge enrichment plant
- NT1 rokkasho uranium enrichment plant
- RT centrifugation
- RT gas centrifugation
- RT ultracentrifugation

**CENTRIFUGES**

- BT1 concentrators
- NT1 gas centrifuges
- NT1 plasma centrifuges
- NT1 ultracentrifuges

**centro informazioni studi esperienze**

2002-06-21

- USE cise

**centro studi nucleari enrico fermi reactor**

1993-11-04

- USE cesnef reactor

**CENTROMERES**

1995-01-27

*Specialized portions of chromosomes used as anchoring points to secure chromosomes during cell division.*

- RT chromatin
- RT chromosomes
- RT mitosis

**cepfr-1 reactor**

2000-04-12

- USE zero power reactors



**cephalins**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE amines

USE phospholipids

**CEPHEIDS**

\*BT1 pulsating variable stars

**CERAMIC MELTERS**

INIS: 1981-02-27; ETDE: 1980-01-24

*An electric furnace for vitrifying liquid or calcined high-level radioactive wastes.*

UF glass melters

\*BT1 electric furnaces

RT high-level radioactive wastes

RT liquid wastes

RT radioactive waste processing

RT solidification

RT vitrification

**CERAMICS**

RT borides

RT carbides

RT ceramics industry

RT ceramography

RT cermets

RT clays

RT dielectric track detectors

RT enamels

RT glass

RT glazes

RT mixed nitride fuels

RT mixed oxide fuels

RT nitrides

RT oxides

RT porcelain

RT pzt

RT refractories

RT slip casting

**CERAMICS INDUSTRY**

INIS: 1992-05-05; ETDE: 1977-11-28

BT1 industry

RT ceramics

RT metal industry

RT mineral industry

**CERAMOGRAPHY**

INIS: 1978-08-30; ETDE: 1978-10-19

*Methods for the characterization of microstructural features and stereometric and topologic parameters of ceramic materials including sample preparation techniques.*

RT autoradiography

RT ceramics

RT cracks

RT electron microprobe analysis

RT etching

RT fractography

RT materials testing

RT microhardness

RT microscopy

RT microstructure

RT particle size

RT photomicrography

RT porosity

RT post-irradiation examination

RT replica techniques

RT sample preparation

RT surface properties

**CERATITIS CAPITATA**

UF mediterranean fruit fly

\*BT1 fruit flies

**cercaria**

USE platyhelminths

**cercia**

1992-02-05

*Comprehensive Environmental Response, Compensation and Liability Act.*

USE us superfund

**CEREALS**

UF grains (cereal)

\*BT1 gramineae

NT1 barley

NT1 maize

NT1 millet

NT1 oats

NT1 rice

NT1 rye

NT1 sorghum

NT1 wheat

RT buckwheat

RT crops

RT flour

RT food

RT grain disinfection

RT ustilago

RT vernalization

**CEREBELLUM**

\*BT1 brain

**CEREBRAL ARTERIES**

INIS: 1996-08-05; ETDE: 1986-02-21

\*BT1 arteries

RT brain

**CEREBRAL CORTEX**

UF cortex (cerebral)

\*BT1 cerebrum

RT behavior

RT conditioned reflexes

**CEREBROSIDES**

\*BT1 glycolipids

RT amides

RT galactose

**CEREBROSPINAL FLUID**

\*BT1 body fluids

RT central nervous system

**CEREBRUM**

\*BT1 brain

NT1 cerebral cortex

**cerianite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE oxide minerals

USE thorium minerals

**cerite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE silicate minerals

**CERIUM**

\*BT1 rare earths

NT1 cerium-alpha

NT1 cerium-beta

NT1 cerium-gamma

**CERIUM 119**

2007-01-22

\*BT1 cerium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 rare earth nuclei

**CERIUM 120**

2007-01-22

\*BT1 cerium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 rare earth nuclei

**CERIUM 121**

2002-02-27

\*BT1 beta-plus decay radioisotopes

\*BT1 cerium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**CERIUM 122**

2007-01-22

\*BT1 cerium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**CERIUM 123**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 cerium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**CERIUM 124**

INIS: 1979-02-21; ETDE: 1979-03-28

\*BT1 cerium isotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**CERIUM 125**

INIS: 1979-02-21; ETDE: 1979-03-28

\*BT1 beta-plus decay radioisotopes

\*BT1 cerium isotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**CERIUM 126**

\*BT1 cerium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**CERIUM 127**

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 beta-plus decay radioisotopes

\*BT1 cerium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**CERIUM 128**

\*BT1 beta-plus decay radioisotopes

\*BT1 cerium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

**CERIUM 129**

\*BT1 beta-plus decay radioisotopes

\*BT1 cerium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

**CERIUM 130**

\*BT1 beta-plus decay radioisotopes

\*BT1 cerium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

**CERIUM 131**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 132**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 133**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 134**

- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**CERIUM 135**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 136**

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**CERIUM 136 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**CERIUM 137**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei

**CERIUM 138**

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**CERIUM 138 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**CERIUM 139**

- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 140**

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**CERIUM 140 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**CERIUM 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**CERIUM 141 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**CERIUM 142**

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**CERIUM 142 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**CERIUM 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**CERIUM 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**CERIUM 144 TARGET**

*INIS: 1992-09-22; ETDE: 1981-08-21*  
BT1 targets

**CERIUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 147**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 148**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 149**

*INIS: 1977-06-13; ETDE: 1975-09-11*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cerium isotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei

- \*BT1 seconds living radioisotopes

**CERIUM 150**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 151**

*INIS: 1977-01-26; ETDE: 1976-11-17*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cerium isotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**CERIUM 152**

*INIS: 1990-06-25; ETDE: 1990-08-02*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cerium isotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**CERIUM 153**

*2007-01-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cerium isotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei

**CERIUM 154**

*2007-01-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cerium isotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei

**CERIUM 155**

*2007-01-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cerium isotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei

**CERIUM 156**

*2007-01-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cerium isotopes  
\*BT1 even-even nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 rare earth nuclei

**CERIUM 157**

*2007-01-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cerium isotopes  
\*BT1 even-odd nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 rare earth nuclei

**CERIUM ADDITIONS**

*1996-11-13*  
*Alloys containing not more than 1% Ce are listed here.*  
\*BT1 cerium alloys  
\*BT1 rare earth additions

**CERIUM ALLOYS**

*Alloys containing more than 1% Ce.*  
\*BT1 rare earth alloys  
NT1 cerium additions  
NT1 cerium base alloys  
NT2 misch metal

**CERIUM-ALPHA**

- \*BT1 cerium

**CERIUM ARSENIDES**

*INIS: 1978-07-17; ETDE: 1978-10-19*  
\*BT1 arsenides  
\*BT1 cerium compounds

**CERIUM BASE ALLOYS**

- \*BT1 cerium alloys
- NT1 misch metal

**CERIUM-BETA**

INIS: 1977-09-06; ETDE: 1977-06-02  
\*BT1 cerium

**CERIUM BORIDES**

- \*BT1 borides
- \*BT1 cerium compounds

**CERIUM BROMIDES**

- \*BT1 bromides
- \*BT1 cerium halides

**CERIUM CARBIDES**

- \*BT1 carbides
- \*BT1 cerium compounds

**CERIUM CARBONATES**

1996-07-18  
\*BT1 carbonates  
\*BT1 cerium compounds  
RT carbonate minerals

**CERIUM CHLORIDES**

- \*BT1 cerium halides
- \*BT1 chlorides

**CERIUM COMPLEXES**

- \*BT1 rare earth complexes

**CERIUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 cerium arsenides
- NT1 cerium borides
- NT1 cerium carbides
- NT1 cerium carbonates
- NT1 cerium halides
- NT2 cerium bromides
- NT2 cerium chlorides
- NT2 cerium fluorides
- NT2 cerium iodides
- NT1 cerium hydrides
- NT1 cerium hydroxides
- NT1 cerium nitrates
- NT1 cerium nitrides
- NT1 cerium oxides
- NT1 cerium perchlorates
- NT1 cerium phosphates
- NT1 cerium phosphides
- NT1 cerium selenides
- NT1 cerium silicates
- NT1 cerium silicides
- NT1 cerium sulfates
- NT1 cerium sulfides
- NT1 cerium tellurides
- NT1 cerium tungstates

**CERIUM FLUORIDES**

- \*BT1 cerium halides
- \*BT1 fluorides

**CERIUM-GAMMA**

- \*BT1 cerium

**CERIUM HALIDES**

2012-07-19  
\*BT1 cerium compounds  
\*BT1 halides  
NT1 cerium bromides  
NT1 cerium chlorides  
NT1 cerium fluorides  
NT1 cerium iodides

**CERIUM HYDRIDES**

- \*BT1 cerium compounds
- \*BT1 hydrides

**CERIUM HYDROXIDES**

- \*BT1 cerium compounds
- \*BT1 hydroxides

**CERIUM IODIDES**

- \*BT1 cerium halides
- \*BT1 iodides

**CERIUM IONS**

- \*BT1 ions

**CERIUM ISOTOPES**

- BT1 isotopes
- NT1 cerium 119
- NT1 cerium 120
- NT1 cerium 121
- NT1 cerium 122
- NT1 cerium 123
- NT1 cerium 124
- NT1 cerium 125
- NT1 cerium 126
- NT1 cerium 127
- NT1 cerium 128
- NT1 cerium 129
- NT1 cerium 130
- NT1 cerium 131
- NT1 cerium 132
- NT1 cerium 133
- NT1 cerium 134
- NT1 cerium 135
- NT1 cerium 136
- NT1 cerium 137
- NT1 cerium 138
- NT1 cerium 139
- NT1 cerium 140
- NT1 cerium 141
- NT1 cerium 142
- NT1 cerium 143
- NT1 cerium 144
- NT1 cerium 145
- NT1 cerium 146
- NT1 cerium 147
- NT1 cerium 148
- NT1 cerium 149
- NT1 cerium 150
- NT1 cerium 151
- NT1 cerium 152
- NT1 cerium 153
- NT1 cerium 154
- NT1 cerium 155
- NT1 cerium 156
- NT1 cerium 157

**CERIUM NITRATES**

- \*BT1 cerium compounds
- \*BT1 nitrates

**CERIUM NITRIDES**

- \*BT1 cerium compounds
- \*BT1 nitrides

**CERIUM OXIDES**

1996-06-26  
\*BT1 cerium compounds  
\*BT1 oxides  
RT oxide minerals

**CERIUM PERCHLORATES**

- \*BT1 cerium compounds
- \*BT1 perchlorates

**CERIUM PHOSPHATES**

1996-06-26  
\*BT1 cerium compounds  
\*BT1 phosphates  
RT phosphate minerals

**CERIUM PHOSPHIDES**

INIS: 1978-07-17; ETDE: 1976-12-15  
\*BT1 cerium compounds  
\*BT1 phosphides

**CERIUM SELENIDES**

INIS: 1976-10-29; ETDE: 1976-12-16  
\*BT1 cerium compounds  
\*BT1 selenides

**CERIUM SILICATES**

1996-07-18  
\*BT1 cerium compounds  
\*BT1 silicates  
RT kainosite  
RT silicate minerals

**CERIUM SILICIDES**

1975-10-29  
\*BT1 cerium compounds  
\*BT1 silicides

**CERIUM SULFATES**

- \*BT1 cerium compounds
- \*BT1 sulfates

**CERIUM SULFIDES**

- \*BT1 cerium compounds
- \*BT1 sulfides

**CERIUM TELLURIDES**

INIS: 1985-03-15; ETDE: 1980-06-23  
\*BT1 cerium compounds  
\*BT1 tellurides

**CERIUM TUNGSTATES**

INIS: 1991-09-16; ETDE: 1977-06-02  
\*BT1 cerium compounds  
\*BT1 tungstates

**CERMETS**

UF cemented carbides  
UF hard metals  
\*BT1 composite materials  
NT1 td-nickel  
NT1 td-nickel chromium  
RT ceramics  
RT refractories

**CERN**

UF european organization for nuclear research  
BT1 international organizations  
RT alice detector  
RT atlas detector  
RT cms detector  
RT compass detector  
RT lhcb detector

**cern ag synchrotron**

INIS: 1976-03-25; ETDE: 1976-01-26  
USE cern ps synchrotron

**CERN CESAR**

CERN Electron Storage and Accumulation Ring.  
BT1 storage rings

**cern ii synchrotron**

INIS: 1976-03-25; ETDE: 1976-01-26  
USE cern sps synchrotron

**cern isolate**

1994-04-12  
USE isotope separators

**CERN ISR**

CERN Intersection Storage Rings.  
BT1 storage rings

**cern large hadronic collider**

1995-10-05  
USE cern lhc

**CERN LEAR**

INIS: 1984-06-25; ETDE: 1987-05-01  
Facility for antiproton physics at low energies with intense and cold beams of antiprotons. Located in the South Experimental Hall of CERN PS.  
UF cern low energy antiproton ring  
UF lear  
RT cern ps synchrotron

**cern lep**

INIS: 1987-06-29; ETDE: 2002-06-13  
USE lep storage rings

**CERN LHC**

1995-10-05

UF cern large hadronic collider  
BT1 storage rings  
\*BT1 synchrotrons  
RT alice detector  
RT atlas detector  
RT cern lhcc  
RT cms detector  
RT lhcb detector

**CERN LHEC**

2015-09-08

Proposed electron-hadron collider at CERN  
\*BT1 linac-ring accelerators  
RT cern lhcc

**CERN LINAC**

INIS: 1978-08-30; ETDE: 1978-10-19  
\*BT1 linear accelerators

**cern low energy antiproton ring**

INIS: 1993-11-04; ETDE: 2002-06-13  
USE cern lear

**CERN PS SYNCHROTRON**

INIS: 1975-12-17; ETDE: 1976-01-26  
CERN 28-GeV Proton Synchrotron.  
UF cern ag synchrotron  
\*BT1 synchrotrons  
RT cern lear

**CERN SPS SYNCHROTRON**

INIS: 1975-12-17; ETDE: 1976-01-26  
CERN 400-GeV Proton Synchrotron.  
UF cern ii synchrotron  
\*BT1 synchrotrons  
RT compass detector

**CERN SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

**CERNAVODA-1 REACTOR**

INIS: 1982-08-27; ETDE: 1990-10-09  
Ministry of Economy and Finance, Societatea  
Nationala Nuclearelectrica S.A., Cernavoda,  
Constanta County, Romania  
\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

**CERNAVODA-2 REACTOR**

2011-01-25  
Ministry of Economy and Finance, Societatea  
Nationala Nuclearelectrica S.A., Cernavoda,  
Constanta County, Romania  
\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

**CERRO PRIETO GEOTHERMAL  
FIELD**

1992-06-04

BT1 geothermal fields  
RT geothermal hot-water systems  
RT mexico

**CERROBEND ALLOYS**

2000-04-12

\*BT1 bismuth base alloys  
\*BT1 cadmium alloys  
\*BT1 lead alloys  
\*BT1 tin alloys

**CERTIFICATION**

INIS: 1991-08-15; ETDE: 1979-02-27  
(Prior to August 1991, this concept was  
indexed to LICENSING.)  
RT licensing  
RT performance testing  
RT quality assurance  
RT standards  
RT testing

**CERULOPLASMIN**

\*BT1 copper complexes  
\*BT1 globulins-alpha  
\*BT1 metalloproteins

**CESAR REACTOR**

CEA/CEN, Cadarache, St. Paul Lez Durance,  
France. Decommissioned since 1978.  
\*BT1 carbon dioxide cooled reactors  
\*BT1 experimental reactors  
\*BT1 graphite moderated reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
RT enriched uranium reactors

**CESIUM**

UF caesium  
\*BT1 alkali metals

**CESIUM 112**

2007-10-22  
\*BT1 cesium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 proton decay radioisotopes

**CESIUM 113**

INIS: 1980-07-24; ETDE: 1980-08-12  
\*BT1 cesium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 proton decay radioisotopes

**CESIUM 114**

INIS: 1979-01-18; ETDE: 1979-02-23  
\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**CESIUM 115**

INIS: 1979-01-18; ETDE: 1979-02-23  
\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**CESIUM 116**

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**CESIUM 117**

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**CESIUM 118**

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**CESIUM 119**

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**CESIUM 120**

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**CESIUM 121**

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**CESIUM 122**

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**CESIUM 123**

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**CESIUM 124**

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**CESIUM 125**

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**CESIUM 126**

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**CESIUM 127**

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CESIUM 128**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 129**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CESIUM 130**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 131**

- \*BT1 cesium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CESIUM 131 TARGET**

*1988-02-02*

- BT1 targets

**CESIUM 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**CESIUM 132 TARGET**

*INIS: 1979-02-21; ETDE: 1979-03-28*

- BT1 targets

**CESIUM 133**

- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**CESIUM 133 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CESIUM 134**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**CESIUM 134 TARGET**

*1988-02-02*

- BT1 targets

**CESIUM 135**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes

- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**CESIUM 135 TARGET**

*INIS: 1988-02-02; ETDE: 1981-08-21*

- BT1 targets

**CESIUM 136**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes
- RT* radioisotope generators

**CESIUM 137 TARGET**

*INIS: 1988-08-02; ETDE: 1981-08-21*

- BT1 targets

**CESIUM 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 139**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 142**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei

- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 147**

*INIS: 1979-04-27; ETDE: 1978-12-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 148**

*INIS: 1979-04-27; ETDE: 1979-05-25*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 149**

*2002-01-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 150**

*2002-01-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 151**

*2007-10-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM ADDITIONS**

*Alloys containing not more than 1% Cs are listed here.*

- \*BT1 cesium alloys

**CESIUM ALLOYS**

*Alloys containing more than 1% Cs.*

- BT1 alloys
- NT1 cesium additions
- NT1 cesium base alloys

**CESIUM BASE ALLOYS**

- \*BT1 cesium alloys

**CESIUM BROMIDES**

- \*BT1 bromides
- \*BT1 cesium halides

**CESIUM CARBIDES**

- \*BT1 carbides
- \*BT1 cesium compounds

**CESIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 cesium compounds

**CESIUM CHLORIDES**

- \*BT1 cesium halides
- \*BT1 chlorides

**CESIUM COMPLEXES**

- \*BT1 alkali metal complexes

**CESIUM COMPOUNDS**

1996-06-26

- BT1 alkali metal compounds
- NT1 cesium carbides
- NT1 cesium carbonates
- NT1 cesium halides
  - NT2 cesium bromides
  - NT2 cesium chlorides
  - NT2 cesium fluorides
  - NT2 cesium iodides
- NT1 cesium hydrides
- NT1 cesium hydroxides
- NT1 cesium nitrates
- NT1 cesium nitrides
- NT1 cesium oxides
- NT1 cesium perchlorates
- NT1 cesium phosphates
- NT1 cesium selenides
- NT1 cesium silicates
- NT1 cesium silicides
- NT1 cesium sulfates
- NT1 cesium sulfides
- NT1 cesium tellurides
- NT1 cesium tungstates
- NT1 cesium uranates

**CESIUM FLUORIDES**

- \*BT1 cesium halides
- \*BT1 fluorides

**CESIUM HALIDES**

2012-07-19

- \*BT1 cesium compounds
- \*BT1 halides
- NT1 cesium bromides
- NT1 cesium chlorides
- NT1 cesium fluorides
- NT1 cesium iodides

**CESIUM HYDRIDES**

- \*BT1 cesium compounds
- \*BT1 hydrides

**CESIUM HYDROXIDES**

- \*BT1 cesium compounds
- \*BT1 hydroxides

**CESIUM IODIDES**

- \*BT1 cesium halides
- \*BT1 inorganic phosphors
- \*BT1 iodides

**CESIUM IONS**

- \*BT1 ions

**CESIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 cesium 112
- NT1 cesium 113
- NT1 cesium 114
- NT1 cesium 115
- NT1 cesium 116
- NT1 cesium 117
- NT1 cesium 118
- NT1 cesium 119
- NT1 cesium 120
- NT1 cesium 121
- NT1 cesium 122
- NT1 cesium 123
- NT1 cesium 124
- NT1 cesium 125
- NT1 cesium 126
- NT1 cesium 127
- NT1 cesium 128
- NT1 cesium 129
- NT1 cesium 130
- NT1 cesium 131
- NT1 cesium 132
- NT1 cesium 133
- NT1 cesium 134

- NT1 cesium 135
- NT1 cesium 136
- NT1 cesium 137
- NT1 cesium 138
- NT1 cesium 139
- NT1 cesium 140
- NT1 cesium 141
- NT1 cesium 142
- NT1 cesium 143
- NT1 cesium 144
- NT1 cesium 145
- NT1 cesium 146
- NT1 cesium 147
- NT1 cesium 148
- NT1 cesium 149
- NT1 cesium 150
- NT1 cesium 151

**CESIUM NITRATES**

- \*BT1 cesium compounds
- \*BT1 nitrates

**CESIUM NITRIDES**

1996-06-26

(June 1996 to November 2007 CESIUM COMPOUNDS + NITRIDES was used for this concept.)

- \*BT1 cesium compounds
- \*BT1 nitrides

**CESIUM OXIDES**

- \*BT1 cesium compounds
- \*BT1 oxides

**CESIUM PERCHLORATES**

1978-11-24

- \*BT1 cesium compounds
- \*BT1 perchlorates

**CESIUM PHOSPHATES**

- \*BT1 cesium compounds
- \*BT1 phosphates

**CESIUM SELENIDES**

INIS: 1979-09-18; ETDE: 1979-10-23

- \*BT1 cesium compounds
- \*BT1 selenides

**CESIUM SILICATES**

- \*BT1 cesium compounds
- \*BT1 silicates
- RT pollucite

**CESIUM SILICIDES**

1988-02-02

- \*BT1 cesium compounds
- \*BT1 silicides

**CESIUM SULFATES**

- \*BT1 cesium compounds
- \*BT1 sulfates

**CESIUM SULFIDES**

- \*BT1 cesium compounds
- \*BT1 sulfides

**CESIUM TELLURIDES**

INIS: 1983-02-03; ETDE: 1979-05-03

- \*BT1 cesium compounds
- \*BT1 tellurides

**CESIUM TUNGSTATES**

1978-05-19

- \*BT1 cesium compounds
- \*BT1 tungstates

**CESIUM URANATES**

1975-11-27

- \*BT1 cesium compounds
- \*BT1 uranates

**CESNEF REACTOR**

Centro Studi Nucleari E. Fermi, Milan, Italy. Shutdown since 1979. Under decommissioning.

UF centro studi nucleari enrico fermi reactor

UF enrico fermi nuclear research center reactor

UF l-54 reactor

\*BT1 aqueous homogeneous reactors

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

**CESR STORAGE RING**

INIS: 1979-01-18; ETDE: 1979-02-23

UF cornell electron-positron storage ring

BT1 storage rings

**CESTODES**

1996-11-13

(Prior to March 1997 HYMENOLEPIS was a valid ETDE descriptor.)

UF hymenolepis

UF tapeworms

BT1 parasites

\*BT1 platyhelminths

RT hydatidosis

**CETACEANS**

INIS: 1991-09-30; ETDE: 1976-05-13

The order of aquatic mammals that includes whales, dolphins, and porpoises.

UF dolphins

UF porpoises

UF whales

BT1 aquatic organisms

\*BT1 mammals

**cetane number**

2000-04-12

USE antiknock ratings

**cetene number**

2000-04-12

USE antiknock ratings

**ceylon**

USE sri lanka

**cfc**

INIS: 1992-06-19; ETDE: 1992-04-01

USE chlorofluorocarbons

**CFFC PROCESS**

INIS: 2000-04-12; ETDE: 1976-08-24

Coal liquefaction process developed by C-E Lummus, a subsidiary of Combustion Engineering to produce low sulfur, low ash, synthetic boiler fuel.

UF clean fuel from coal process

\*BT1 coal liquefaction

**cfff**

INIS: 2000-04-12; ETDE: 1979-05-09

USE mhd generator cfff

**cfg reactor**

USE anex reactor

**CFRMF REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1991.

UF coupled fast reactor measurement facility

\*BT1 fast reactors

\*BT1 zero power reactors

**cfrp program**

INIS: 1994-08-22; ETDE: 1981-03-13

USE consolidated fuel reprocessing program

**cfu (colony forming units)**

INIS: 2006-09-19; ETDE: 2005-01-28

(Prior to January 2005 CFU was a valid descriptor.)

USE colony forming units

**CHACALTAYA**

\*BT1 bolivia

**CHAD**

BT1 africa

BT1 developing countries

**CHAIN CONVEYORS**

INIS: 2000-04-12; ETDE: 1982-09-10

\*BT1 conveyors

RT mine haulage

RT mining equipment

RT transport

**CHAIN REACTIONS**

RT criticality

RT fission

RT fissioning plasma

RT natural nuclear reactors

RT nuclear reactions

RT oklo phenomenon

RT thermonuclear reactions

**CHAINS**

INIS: 1999-02-12; ETDE: 1988-01-21

RT cables

RT ropes

RT wires

**CHALCOGENIDES**

NT1 oxides

NT2 actinium oxides  
 NT2 aluminium oxides  
 NT2 americium oxides  
 NT2 antimony oxides  
 NT2 argon oxides  
 NT2 arsenic oxides  
 NT2 barium oxides  
 NT2 berkelium oxides  
 NT2 beryllium oxides  
 NT2 bismuth oxides  
 NT2 boron oxides  
 NT2 bromine oxides  
 NT2 cadmium oxides  
 NT2 calcium oxides  
 NT2 californium oxides  
 NT2 carbon oxides  
 NT3 carbon dioxide  
 NT3 carbon monoxide  
 NT2 cerium oxides  
 NT2 cesium oxides  
 NT2 chlorine oxides  
 NT2 chromium oxides  
 NT2 cobalt oxides  
 NT2 copper oxides  
 NT2 curium oxides  
 NT2 dysprosium oxides  
 NT2 einsteinium oxides  
 NT2 erbium oxides  
 NT2 europium oxides  
 NT2 fermium oxides  
 NT2 fluorine oxides  
 NT2 gadolinium oxides  
 NT2 gallium oxides  
 NT2 germanium oxides  
 NT2 gold oxides  
 NT2 hafnium oxides  
 NT2 helium oxides  
 NT2 holmium oxides  
 NT2 indium oxides

NT2 iodine oxides  
 NT2 iridium oxides  
 NT2 iron oxides  
 NT2 krypton oxides  
 NT2 lanthanum oxides  
 NT2 lead oxides  
 NT2 lithium oxides  
 NT2 lutetium oxides  
 NT2 magnesium oxides  
 NT2 manganese oxides  
 NT2 mendeleevium oxides  
 NT2 mercury oxides  
 NT2 molybdenum oxides  
 NT3 molybdenum blue  
 NT2 neodymium oxides  
 NT2 neon oxides  
 NT2 neptunium oxides  
 NT2 nickel oxides  
 NT2 niobium oxides  
 NT2 nitrogen oxides  
 NT3 nitric oxide  
 NT3 nitrogen dioxide  
 NT3 nitrous oxide  
 NT2 nobelium oxides  
 NT2 osmium oxides  
 NT2 palladium oxides  
 NT2 phosphorus oxides  
 NT2 platinum oxides  
 NT2 plutonium oxides  
 NT3 plutonium dioxide  
 NT2 polonium oxides  
 NT2 potassium oxides  
 NT2 praseodymium oxides  
 NT2 promethium oxides  
 NT2 protactinium oxides  
 NT2 radium oxides  
 NT2 radon oxides  
 NT2 rhenium oxides  
 NT2 rhodium oxides  
 NT2 rubidium oxides  
 NT2 ruthenium oxides  
 NT2 samarium oxides  
 NT2 scandium oxides  
 NT2 selenium oxides  
 NT2 silicon oxides  
 NT2 silver oxides  
 NT2 sodium oxides  
 NT3 sodium tungsten bronze  
 NT2 strontium oxides  
 NT2 sulfur oxides  
 NT3 sulfur dioxide  
 NT3 sulfur trioxide  
 NT2 tantalum oxides  
 NT2 technetium oxides  
 NT2 tellurium oxides  
 NT2 terbium oxides  
 NT2 thallium oxides  
 NT2 thorium oxides  
 NT3 thorostrast  
 NT2 thulium oxides  
 NT2 tin oxides  
 NT2 titanium oxides  
 NT2 tritium oxides  
 NT2 tungsten oxides  
 NT3 sodium tungsten bronze  
 NT2 uranium oxides  
 NT3 uranium dioxide  
 NT3 uranium oxides u3o8  
 NT3 uranium trioxide  
 NT2 vanadium oxides  
 NT2 xenon oxides  
 NT2 ytterbium oxides  
 NT2 yttrium oxides  
 NT3 alloy-in-853  
 NT2 zinc oxides  
 NT2 zirconium oxides

NT1 selenides  
 NT2 aluminium selenides  
 NT2 americium selenides

NT2 antimony selenides  
 NT2 arsenic selenides  
 NT2 berkelium selenides  
 NT2 beryllium selenides  
 NT2 bismuth selenides  
 NT2 cadmium selenides  
 NT2 californium selenides  
 NT2 cerium selenides  
 NT2 cesium selenides  
 NT2 chromium selenides  
 NT2 cobalt selenides  
 NT2 copper selenides  
 NT2 curium selenides  
 NT2 dysprosium selenides  
 NT2 erbium selenides  
 NT2 europium selenides  
 NT2 gadolinium selenides  
 NT2 gallium selenides  
 NT2 germanium selenides  
 NT2 hafnium selenides  
 NT2 holmium selenides  
 NT2 indium selenides  
 NT2 iron selenides  
 NT2 lanthanum selenides  
 NT2 lead selenides  
 NT2 lithium selenides  
 NT2 lutetium selenides  
 NT2 manganese selenides  
 NT2 mercury selenides  
 NT2 molybdenum selenides  
 NT2 neptunium selenides  
 NT2 nickel selenides  
 NT2 niobium selenides  
 NT2 palladium selenides  
 NT2 plutonium selenides  
 NT2 potassium selenides  
 NT2 praseodymium selenides  
 NT2 rhenium selenides  
 NT2 rhodium selenides  
 NT2 rubidium selenides  
 NT2 ruthenium selenides  
 NT2 samarium selenides  
 NT2 scandium selenides  
 NT2 silver selenides  
 NT2 sodium selenides  
 NT2 tantalum selenides  
 NT2 technetium selenides  
 NT2 terbium selenides  
 NT2 thallium selenides  
 NT2 thorium selenides  
 NT2 thulium selenides  
 NT2 tin selenides  
 NT2 titanium selenides  
 NT2 tungsten selenides  
 NT2 uranium selenides  
 NT2 vanadium selenides  
 NT2 ytterbium selenides  
 NT2 yttrium selenides  
 NT2 zinc selenides  
 NT2 zirconium selenides

NT1 sulfides  
 NT2 aluminium sulfides  
 NT2 americium sulfides  
 NT2 antimony sulfides  
 NT2 arsenic sulfides  
 NT2 barium sulfides  
 NT2 berkelium sulfides  
 NT2 beryllium sulfides  
 NT2 bismuth sulfides  
 NT2 boron sulfides  
 NT2 cadmium sulfides  
 NT2 calcium sulfides  
 NT2 californium sulfides  
 NT2 carbon sulfides  
 NT2 cerium sulfides  
 NT2 cesium sulfides  
 NT2 chromium sulfides  
 NT2 cobalt sulfides  
 NT2 copper sulfides

NT2 curium sulfides  
 NT2 dimethyl sulfide  
 NT2 dysprosium sulfides  
 NT2 erbium sulfides  
 NT2 europium sulfides  
 NT2 gadolinium sulfides  
 NT2 gallium sulfides  
 NT2 germanium sulfides  
 NT2 hafnium sulfides  
 NT2 holmium sulfides  
 NT2 hydrogen sulfides  
 NT2 indium sulfides  
 NT2 iron sulfides  
 NT2 lanthanum sulfides  
 NT2 lead sulfides  
 NT2 lithium sulfides  
 NT2 lutetium sulfides  
 NT2 magnesium sulfides  
 NT2 manganese sulfides  
 NT2 mercury sulfides  
 NT2 molybdenum sulfides  
 NT2 neodymium sulfides  
 NT2 neptunium sulfides  
 NT2 nickel sulfides  
 NT2 niobium sulfides  
 NT2 osmium sulfides  
 NT2 palladium sulfides  
 NT2 phosphorus sulfides  
 NT2 platinum sulfides  
 NT2 plutonium sulfides  
 NT2 potassium sulfides  
 NT2 praseodymium sulfides  
 NT2 rhenium sulfides  
 NT2 rhodium sulfides  
 NT2 rubidium sulfides  
 NT2 ruthenium sulfides  
 NT2 samarium sulfides  
 NT2 scandium sulfides  
 NT2 selenium sulfides  
 NT2 silicon sulfides  
 NT2 silver sulfides  
 NT2 sodium sulfides  
 NT2 strontium sulfides  
 NT2 tantalum sulfides  
 NT2 technetium sulfides  
 NT2 tellurium sulfides  
 NT2 terbium sulfides  
 NT2 thallium sulfides  
 NT2 thorium sulfides  
 NT2 thulium sulfides  
 NT2 tin sulfides  
 NT2 titanium sulfides  
 NT2 tungsten sulfides  
 NT2 uranium sulfides  
 NT2 vanadium sulfides  
 NT2 ytterbium sulfides  
 NT2 yttrium sulfides  
 NT2 zinc sulfides  
 NT2 zirconium sulfides  
 NT1 tellurides  
 NT2 aluminium tellurides  
 NT2 americium tellurides  
 NT2 antimony tellurides  
 NT2 arsenic tellurides  
 NT2 berkelium tellurides  
 NT2 beryllium tellurides  
 NT2 bismuth tellurides  
 NT2 cadmium tellurides  
 NT2 californium tellurides  
 NT2 cerium tellurides  
 NT2 cesium tellurides  
 NT2 chromium tellurides  
 NT2 cobalt tellurides  
 NT2 copper tellurides  
 NT2 curium tellurides  
 NT2 dysprosium tellurides  
 NT2 erbium tellurides  
 NT2 europium tellurides  
 NT2 gadolinium tellurides

NT2 gallium tellurides  
 NT2 germanium tellurides  
 NT2 gold tellurides  
 NT2 hafnium tellurides  
 NT2 holmium tellurides  
 NT2 indium tellurides  
 NT2 iridium tellurides  
 NT2 iron tellurides  
 NT2 lanthanum tellurides  
 NT2 lead tellurides  
 NT2 lithium tellurides  
 NT2 magnesium tellurides  
 NT2 manganese tellurides  
 NT2 mercury tellurides  
 NT2 molybdenum tellurides  
 NT2 neodymium tellurides  
 NT2 neptunium tellurides  
 NT2 nickel tellurides  
 NT2 niobium tellurides  
 NT2 palladium tellurides  
 NT2 platinum tellurides  
 NT2 plutonium tellurides  
 NT2 potassium tellurides  
 NT2 praseodymium tellurides  
 NT2 rhenium tellurides  
 NT2 rhodium tellurides  
 NT2 rubidium tellurides  
 NT2 ruthenium tellurides  
 NT2 samarium tellurides  
 NT2 selenium tellurides  
 NT2 silicon tellurides  
 NT2 silver tellurides  
 NT2 sodium tellurides  
 NT2 tantalum tellurides  
 NT2 technetium tellurides  
 NT2 terbium tellurides  
 NT2 thallium tellurides  
 NT2 thorium tellurides  
 NT2 thulium tellurides  
 NT2 tin tellurides  
 NT2 titanium tellurides  
 NT2 tungsten tellurides  
 NT2 uranium tellurides  
 NT2 vanadium tellurides  
 NT2 ytterbium tellurides  
 NT2 yttrium tellurides  
 NT2 zinc tellurides  
 NT2 zirconium tellurides  
 RT high-*tc* superconductors

**CHALCOPYRITE**

*A bright brass-yellow tetragonal mineral.*

\*BT1 sulfide minerals

RT copper sulfides

RT iron sulfides

**chalk**

INIS: 1984-04-04; ETDE: 2002-06-13

USE calcite

**CHALK RIVER**

\*BT1 ontario

**chalk river cyclotron**

INIS: 2000-04-12; ETDE: 1983-03-24

USE crnl superconducting cyclotron

**CHALK RIVER NUCLEAR LABS**

\*BT1 atomic energy of canada ltd

RT canada

**chalk river pool test reactor**

USE ptr reactor

**chalk river superconducting cyclotron**

INIS: 1993-11-04; ETDE: 2002-06-13

USE crnl superconducting cyclotron

**chalk river zed-2 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE zed-2 reactor

**chalks**

INIS: 2000-04-12; ETDE: 1978-06-14

USE limestone

**CHAMBER FURNACES**

INIS: 2000-04-12; ETDE: 1976-11-17

UF chamber kilns

UF chamber ovens

BT1 furnaces

**chamber kilns**

INIS: 2000-04-12; ETDE: 1976-11-17

USE chamber furnaces

**chamber ovens**

INIS: 2000-04-12; ETDE: 1976-11-17

USE chamber furnaces

**CHANDIGARH CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24

\*BT1 variable energy cyclotrons

**chandrasekhar-fermi theory**

USE chandrasekhar theory

**CHANDRASEKHAR THEORY**

UF chandrasekhar-fermi theory

RT astrophysics

RT stars

**CHANGJIANG-1 REACTOR**

2017-10-25

Hainan, China

\*BT1 pwr type reactors

**CHANGJIANG-2 REACTOR**

2017-10-25

Hainan, China

\*BT1 pwr type reactors

**CHANNELING**

UF blocking

UF coning

UF dechanneling

NT1 electron channeling

NT1 ion channeling

NT1 positron channeling

NT1 proton channeling

**channels (reactor)**

USE reactor channels

**CHAOS THEORY**

INIS: 2002-06-24; ETDE: 2002-08-05

BT1 mathematics

RT fuzzy logic

RT mathematical space

RT probability

RT statistics

RT stochastic processes

**CHAPELCROSS-1 REACTOR**

Annan, Scotland, United Kingdom.

Permanently shut down since 2004.

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

**CHAPELCROSS-2 REACTOR**

Annan, Scotland, United Kingdom.

Permanently shut down since 2004.

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors



**CHAPELCROSS-3 REACTOR**

Annan, Scotland, United Kingdom.  
 Permanently shut down since 2004.  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 plutonium production reactors  
 \*BT1 thermal reactors

**CHAPELCROSS-4 REACTOR**

Annan, Scotland, United Kingdom.  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 plutonium production reactors  
 \*BT1 thermal reactors

**chaperonins**

1994-07-14  
 USE heat-shock proteins

**CHAPMAN-ENSKOG THEORY**

RT transport theory

**CHAPMAN-FERRARO PROBLEM**

RT solar wind  
 RT transport theory

**CHAPMAN-KOLMOGOROV EQUATION**

A set of equations used in the theory of stochastic processes, giving the state of a system as a probability distribution at a certain time in terms of the known states at previous times.  
 SF kolmogorov equation  
 \*BT1 differential equations  
 RT markov process  
 RT reactor kinetics equations  
 RT stochastic processes

**char oil energy development process**

2000-04-12  
 USE coed process

**CHARCOAL**

1999-01-20  
 BT1 adsorbents  
 RT activated carbon  
 RT solid fuels  
 RT wood fuels

**CHARGE CARRIERS**

RT carrier density  
 RT carrier lifetime  
 RT carrier mobility  
 RT dember effect  
 RT electric charges  
 RT electron-hole droplets  
 RT electrons  
 RT holes  
 RT point defects

**CHARGE COLLECTION**

RT charge transport  
 RT charged particles

**charge conjugation invariance**

USE c invariance

**CHARGE CONSERVATION**

UF conservation (charge)  
 RT electric charges  
 RT gauge invariance

**CHARGE-COUPLED DEVICES**

INIS: 1979-09-18; ETDE: 1978-04-27  
 Semiconductor devices arrayed so that the electric charge at the output of one provides the input stimulus to the next.  
 UF ccd  
 BT1 semiconductor devices  
 RT dark current

**CHARGE DENSITY**

INIS: 1976-05-05; ETDE: 1976-08-24  
 UF density (charge)  
 RT electric charges  
 RT energy density

**CHARGE DISTRIBUTION**

INIS: 1982-11-29; ETDE: 1975-08-19  
 Not for CHARGE STATES.  
 (Prior to January 1983 this concept was indexed by coordination of ELECTRIC CHARGES and SPATIAL DISTRIBUTION.)  
 RT electric charges  
 RT electrostatics  
 RT ion beams  
 RT multiple production  
 RT nuclear radii  
 RT space charge  
 RT spatial distribution

**CHARGE EXCHANGE**

UF exchange (charge)  
 RT beam neutralization  
 RT beam strippers  
 RT electron capture  
 RT electron loss  
 RT hydrogen transfer  
 RT ionization  
 RT neutral particle analyzers  
 RT plasma potential

**CHARGE-EXCHANGE INTERACTIONS**

\*BT1 strong interactions  
 RT cluster emission model

**CHARGE-EXCHANGE ION SOURCES**

2018-02-26  
 BT1 ion sources

**CHARGE-EXCHANGE REACTIONS**

BT1 nuclear reactions

**CHARGE INDEPENDENCE**

BT1 invariance principles  
 RT nucleons  
 RT strong interactions

**CHARGE PLUNGER METHOD**

INIS: 1978-08-30; ETDE: 1978-10-19  
 Method for the determination of lifetimes of nuclear levels.  
 UF plunger method  
 UF recoil distance method  
 BT1 counting techniques  
 RT lifetime  
 RT time-of-flight method

**charge radius (nuclear)**

USE nuclear radii

**charge radius (particle)**

USE particle radii

**charge ratio**

INIS: 2000-04-12; ETDE: 1978-07-05  
 USE minus-plus ratio

**CHARGE RENORMALIZATION**

BT1 renormalization  
 RT electrostatics

**charge state (batteries)**

INIS: 1993-02-04; ETDE: 2002-06-13  
 USE battery charge state

**charge state distributions**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE charge states

**CHARGE STATES**

INIS: 1984-06-21; ETDE: 1984-07-10  
 NOT for electric batteries.  
 UF charge state distributions  
 RT beam strippers  
 RT charged particles  
 RT electric charges  
 RT electron capture  
 RT electron loss  
 RT ionization  
 RT ions

**CHARGE TRANSPORT**

RT charge collection  
 RT electric charges

**CHARGED-CURRENT INTERACTIONS**

INIS: 1976-08-17; ETDE: 1976-06-07  
 \*BT1 particle interactions  
 RT charged currents  
 RT fundamental interactions  
 RT weinberg angle

**CHARGED CURRENTS**

INIS: 1976-08-17; ETDE: 1976-06-07  
 \*BT1 algebraic currents  
 NT1 weak charged currents  
 RT charged-current interactions  
 RT electromagnetic interactions  
 RT neutral currents  
 RT weak interactions

**CHARGED-PARTICLE ACTIVATION ANALYSIS**

INIS: 1978-11-24; ETDE: 1991-08-20  
 For the process.  
 UF analysis (charged-particle activation)  
 \*BT1 activation analysis

**CHARGED PARTICLE DETECTION**

\*BT1 radiation detection  
 NT1 acoustic detection  
 NT1 alpha detection  
 NT1 beta detection  
 NT1 electron detection  
 NT1 ion detection  
 NT1 muon detection  
 NT1 positron detection  
 NT1 proton detection  
 RT cosmic ray detection  
 RT fission fragment detection  
 RT radiation detectors  
 RT radiation length

**CHARGED-PARTICLE PRECIPITATION**

NT1 electron precipitation  
 NT1 proton precipitation  
 RT aurorae  
 RT auroral oval  
 RT charged particles  
 RT midday aurorae  
 RT radiation belts

**CHARGED-PARTICLE REACTIONS**

2000-04-12  
 BT1 nuclear reactions  
 NT1 alpha reactions  
 NT1 deuteron reactions  
 NT2 antideuteron reactions  
 NT1 electron reactions  
 NT2 electrofission  
 NT1 helium 3 reactions  
 NT1 meson reactions  
 NT2 kaon reactions  
 NT3 kaon minus reactions  
 NT3 kaon neutral reactions  
 NT3 kaon plus reactions  
 NT2 pion reactions  
 NT3 pion minus reactions

NT3 pion plus reactions  
 NT1 muon reactions  
 NT1 proton reactions  
 NT1 triton reactions  
 RT charged particles  
 RT ions

**CHARGED-PARTICLE TRANSPORT**

UF *transport (charged-particle)*  
 BT1 radiation transport  
 NT1 proton transport  
 RT charged-particle transport theory  
 RT charged particles

**CHARGED-PARTICLE TRANSPORT THEORY**

BT1 transport theory  
 NT1 neoclassical transport theory  
 NT1 spitzer theory  
 RT charged-particle transport  
 RT charged particles  
 RT elementary particles  
 RT straggling

**CHARGED PARTICLES**

*In addition to the specific charged particles listed below, see also the list under ELEMENTARY PARTICLES.*

NT1 alpha particles  
 NT2 cosmic alpha particles  
 NT2 delayed alpha particles  
 NT2 solar alpha particles  
 NT1 beta particles  
 NT1 deuterons  
 NT2 antideuterons  
 NT1 ions  
 NT2 actinium ions  
 NT2 aluminium ions  
 NT2 americium ions  
 NT2 anions  
 NT3 heteropolyanions  
 NT3 hydrogen ions 1 minus  
 NT2 antimony ions  
 NT2 argon ions  
 NT2 arsenic ions  
 NT2 astatine ions  
 NT2 atomic ions  
 NT2 barium ions  
 NT2 berkelium ions  
 NT2 beryllium ions  
 NT2 bismuth ions  
 NT2 bohrium ions  
 NT2 boron ions  
 NT2 bromine ions  
 NT2 cadmium ions  
 NT2 calcium ions  
 NT2 californium ions  
 NT2 carbon ions  
 NT2 cations  
 NT3 hydrogen ions 1 plus  
 NT3 hydrogen ions 2 plus  
 NT3 hydrogen ions 3 plus  
 NT2 cerium ions  
 NT2 cesium ions  
 NT2 chlorine ions  
 NT2 chromium ions  
 NT2 cobalt ions  
 NT2 copernicium ions  
 NT2 copper ions  
 NT2 curium ions  
 NT2 darmstadtium ions  
 NT2 deuterium ions  
 NT2 dubnium ions  
 NT2 dysprosium ions  
 NT2 einsteinium ions  
 NT2 erbium ions  
 NT2 europium ions  
 NT2 fermium ions  
 NT2 flerovium ions  
 NT2 fluorine ions

NT2 francium ions  
 NT2 gadolinium ions  
 NT2 gallium ions  
 NT2 germanium ions  
 NT2 gold ions  
 NT2 hafnium ions  
 NT2 hassium ions  
 NT2 heavy ions  
 NT2 helium ions  
 NT3 helium ash  
 NT2 holmium ions  
 NT2 hydrogen ions  
 NT3 hydrogen ions 1 minus  
 NT3 hydrogen ions 1 plus  
 NT3 hydrogen ions 2 plus  
 NT3 hydrogen ions 3 plus  
 NT2 indium ions  
 NT2 iodine ions  
 NT2 iridium ions  
 NT2 iron ions  
 NT2 krypton ions  
 NT2 lanthanum ions  
 NT2 lawrencium ions  
 NT2 lead ions  
 NT2 light ions  
 NT2 lithium ions  
 NT2 livermorium ions  
 NT2 lutetium ions  
 NT2 magnesium ions  
 NT2 manganese ions  
 NT2 meitnerium ions  
 NT2 mendelevium ions  
 NT2 mercury ions  
 NT2 molecular ions  
 NT3 hydrogen ions 2 plus  
 NT3 hydrogen ions 3 plus  
 NT3 oxonium ions  
 NT2 molybdenum ions  
 NT2 moscovium ions  
 NT2 multicharged ions  
 NT2 muonic ions  
 NT2 neodymium ions  
 NT2 neon ions  
 NT2 neptunium ions  
 NT2 nickel ions  
 NT2 nihonium ions  
 NT2 niobium ions  
 NT2 nitrogen ions  
 NT2 nobelium ions  
 NT2 oganesson ions  
 NT2 osmium ions  
 NT2 oxygen ions  
 NT2 palladium ions  
 NT2 phosphorus ions  
 NT2 platinum ions  
 NT2 plutonium ions  
 NT2 polonium ions  
 NT2 potassium ions  
 NT2 praseodymium ions  
 NT2 promethium ions  
 NT2 protactinium ions  
 NT2 radium ions  
 NT2 radon ions  
 NT2 rhenium ions  
 NT2 rhodium ions  
 NT2 roentgenium ions  
 NT2 rubidium ions  
 NT2 ruthenium ions  
 NT2 rutherfordium ions  
 NT2 samarium ions  
 NT2 scandium ions  
 NT2 seaborgium ions  
 NT2 selenium ions  
 NT2 silicon ions  
 NT2 silver ions  
 NT2 sodium ions  
 NT2 strontium ions  
 NT2 sulfur ions  
 NT2 tail ions

NT2 tantalum ions  
 NT2 technetium ions  
 NT2 tellurium ions  
 NT2 tennessine ions  
 NT2 terbium ions  
 NT2 thallium ions  
 NT2 thorium ions  
 NT2 thulium ions  
 NT2 tin ions  
 NT2 titanium ions  
 NT2 tritium ions  
 NT2 tungsten ions  
 NT2 uranium ions  
 NT2 vanadium ions  
 NT2 xenon ions  
 NT2 ytterbium ions  
 NT2 yttrium ions  
 NT2 zinc ions  
 NT2 zirconium ions

NT1 tritons  
 NT2 antitritons  
 RT battery charge state  
 RT charge collection  
 RT charge states  
 RT charged-particle precipitation  
 RT charged-particle reactions  
 RT charged-particle transport  
 RT charged-particle transport theory  
 RT directed-energy weapons  
 RT guiding-center approximation  
 RT ion beams  
 RT lorentz force  
 RT ponderomotive force  
 RT stoermer theory  
 RT test particles

**CHARGES**

*Pecuniary burden or fees.*  
 (From November 1979 till March 1997 SURCHARGES was a valid ETDE descriptor.)

UF *assessments*  
 UF *fees*  
 UF *financial penalties*  
 UF *penalties*  
 SF *surcharges*  
 RT cost  
 RT cost overruns  
 RT cost recovery  
 RT emissions trading  
 RT income  
 RT interest rate  
 RT invoices  
 RT prices  
 RT tax credits  
 RT taxes

**charging (fission reactor)**

1982-11-29

USE reactor fueling

**charging (fusion reactor)**

INIS: 1982-11-30; ETDE: 2002-06-13

USE thermonuclear reactor fueling

**charging machines (fission reactor)**

1993-11-04

USE reactor charging machines

**chariot event**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE plowshare project

**CHARM PARTICLES**

1995-09-08

BT1 elementary particles  
 NT1 c quarks  
 NT2 c antiquarks

**NT1** charmed baryons  
**NT2** lambda c-2625 baryons  
**NT2** lambda c plus baryons  
**NT2** omega c neutral baryons  
**NT2** sigma c-2455 baryons  
**NT2** xi c neutral baryons  
**NT2** xi c plus baryons  
**NT1** charmed mesons  
**NT2** b c mesons  
**NT2** d mesons  
**NT3** d minus mesons  
**NT3** d neutral mesons  
**NT4** anti-d neutral mesons  
**NT3** d plus mesons  
**NT2** d s-2536 mesons  
**NT2** d s mesons  
**NT2** d\*-2010 mesons  
**NT2** d\*-2460 mesons  
**NT2** d\*s-2110 mesons  
**NT2** d1-2420 mesons  
*RT* charmonium  
*RT* color model  
*RT* hadrons  
*RT* hypercharge  
*RT* isospin  
*RT* quark model  
*RT* su-3 groups

**charmed baryon resonances**

*INIS: 1987-12-21; ETDE: 1978-10-19*  
 (Prior to December 1987 this was a valid descriptor.)  
 USE charmed baryons

**CHARMED BARYONS**

*INIS: 1995-07-17; ETDE: 1988-02-05*  
 (Prior to December 1987 this concept was indexed by CHARMED BARYON RESONANCES.)

*UF* charmed baryon resonances  
 \*BT1 baryons  
 \*BT1 charm particles  
**NT1** lambda c-2625 baryons  
**NT1** lambda c plus baryons  
**NT1** omega c neutral baryons  
**NT1** sigma c-2455 baryons  
**NT1** xi c neutral baryons  
**NT1** xi c plus baryons

**charmed meson resonances**

*INIS: 1988-03-08; ETDE: 1978-01-23*  
 (Prior to December 1987 this was a valid descriptor.)  
 USE charmed mesons

**CHARMED MESONS**

*INIS: 1995-07-17; ETDE: 1988-02-02*  
 (Prior to February 1988 CHARMED MESON RESONANCES was used for this concept in ETDE.)

*UF* charmed meson resonances  
*UF* d resonances  
 \*BT1 charm particles  
 \*BT1 mesons  
**NT1** b c mesons  
**NT1** d mesons  
**NT2** d minus mesons  
**NT2** d neutral mesons  
**NT3** anti-d neutral mesons  
**NT2** d plus mesons  
**NT1** d s-2536 mesons  
**NT1** d s mesons  
**NT1** d\*-2010 mesons  
**NT1** d\*-2460 mesons  
**NT1** d\*s-2110 mesons  
**NT1** d1-2420 mesons

**CHARMONIUM**

*INIS: 1995-09-08; ETDE: 1976-11-01*  
 A bound state of charm and anticharm quarks.

\*BT1 mesons  
**BT1** quarkonium  
**NT1** chi0-3415 mesons  
**NT1** chi1-3510 mesons  
**NT1** chi2-3555 mesons  
**NT1** eta c-2980 mesons  
**NT1** eta c-3590 mesons  
**NT1** j psi-3097 mesons  
**NT1** psi-3685 mesons  
**NT1** psi-3770 mesons  
**NT1** psi-4040 mesons  
**NT1** psi-4160 mesons  
**NT1** psi-4415 mesons  
*RT* bound state  
*RT* c quarks  
*RT* charm particles  
*RT* flavor model  
*RT* muonium

**charpak chambers**

USE multiwire proportional chambers

**CHARPY TEST**

\*BT1 destructive testing  
 \*BT1 impact tests

**CHARS**

1991-09-30  
*UF* coal chars  
**BT1** pyrolysis products  
*RT* by-products  
*RT* coal  
*RT* coalcon process  
*RT* consol stirred bed process

**charts**

USE diagrams

**CHASNUPP-1 REACTOR**

2017-10-30  
*Kundian, Punjab, Pakistan.*  
 \*BT1 pwr type reactors

**CHASNUPP-2 REACTOR**

2017-10-30  
*Kundian, Punjab, Pakistan.*  
 \*BT1 pwr type reactors

**CHASNUPP-3 REACTOR**

2017-10-30  
*Kundian, Punjab, Pakistan.*  
 \*BT1 pwr type reactors

**CHATTAHOOCHEE RIVER**

2000-04-12  
 \*BT1 rivers  
*RT* alabama  
*RT* florida  
*RT* georgia (u.s. state of)

**CHATTANOOGA**

2000-04-12  
 \*BT1 tennessee  
**BT1** urban areas

**CHATTANOOGA FORMATION**

*INIS: 1977-03-14; ETDE: 1976-01-23*  
*UF* chattanooga shale  
 \*BT1 appalachian basin  
**BT1** geologic formations  
*RT* alabama  
*RT* arkansas  
*RT* black shales  
*RT* geologic strata  
*RT* georgia (u.s. state of)  
*RT* illinois  
*RT* kansas  
*RT* kentucky  
*RT* mississippi

*RT* missouri  
*RT* ohio  
*RT* oil shale deposits  
*RT* oklahoma  
*RT* tennessee  
*RT* uranium deposits  
*RT* uranium ores

**chattanooga shale**

*INIS: 1977-03-14; ETDE: 2002-06-13*  
 USE chattanooga formation

**CHEESE**

\*BT1 milk products  
*RT* whey

**CHELATES**

**BT1** complexes  
*RT* chelating agents

**CHELATING AGENTS**

1996-10-23  
*UF* complexing agents  
*UF* cpdta  
*UF* cyclopentanediarninetetraacetic acid  
*UF* hexamethylenediaminetetraacetic acid  
*UF* hmdta  
*UF* tna  
*UF* trinonylamine  
*SF* chemicals  
**NT1** acetylacetone  
**NT1** cdta  
**NT1** dcta  
**NT1** dedtc  
**NT1** deferoxamine  
**NT1** dimercaprol  
**NT1** dithizone  
**NT1** dtpa  
**NT1** eddha  
**NT1** edta  
**NT1** egta  
**NT1** hedta  
**NT1** heida  
**NT1** mdpa  
**NT1** nta  
**NT1** penicillamine  
**NT1** tda  
**NT1** tetaha  
**NT1** tridodecylamine  
**NT1** trioctylamine  
*RT* chelates  
*RT* crown ethers  
*RT* decontamination  
*RT* drugs

**CHEMICAL ACTIVATION**

1999-05-04  
*UF* activation (chemical)  
*RT* activation energy  
*RT* deactivation  
*RT* enzyme reactivation  
*RT* excitation  
*RT* metabolic activation

**chemical activity**

*INIS: 1976-10-07; ETDE: 1977-06-30*  
 USE thermodynamic activity

**CHEMICAL ANALYSIS**

*UF* content analysis  
*UF* destructive chemical analysis  
*UF* determination (chemical)  
*SF* ring oven method  
**NT1** ion selective electrode analysis  
**NT1** multi-element analysis  
**NT1** nondestructive analysis  
**NT2** activation analysis  
**NT3** charged-particle activation analysis  
**NT3** neutron activation analysis

- NT3 photon activation analysis
- NT2 delayed neutron analysis
- NT2 deuteron microprobe analysis
- NT2 electron microprobe analysis
- NT2 ion microprobe analysis
- NT2 ion scattering analysis
- NT2 nuclear reaction analysis
- NT3 delayed neutron analysis
- NT2 proton microprobe analysis
- NT2 radiation absorption analysis
- NT2 radiation scattering analysis
- NT2 x-ray emission analysis
- NT3 pixe analysis
- NT3 x-ray fluorescence analysis
- NT1 qualitative chemical analysis
- NT1 quantitative chemical analysis
- NT2 gravimetric analysis
- NT3 thermal gravimetric analysis
- NT2 radio-release analysis
- NT2 radiochemical analysis
- NT2 radiometric analysis
- NT2 volumetric analysis
- NT3 titration
- NT4 amperometry
- NT4 iodometry
- NT4 potentiometry
- NT4 thermometric titration
- RT carbon meters
- RT centrifugal fast analyzers
- RT crime detection
- RT derivatization
- RT hydrogen meters
- RT icp mass spectroscopy
- RT ion probes
- RT oxygen meters
- RT polarimetry
- RT post-irradiation examination
- RT structural chemical analysis
- RT sulfur meters
- RT supercritical fluid chromatography
- RT tritium meters
- RT water chemistry

**CHEMICAL ATTRACTANTS**

INIS: 1992-04-16; ETDE: 1992-06-10

- NT1 pheromone
- RT insects
- RT odor
- RT pest control

**CHEMICAL BONDS**

- NT1 double bonds
- RT adducts
- RT binding energy
- RT bond angle
- RT bond lengths
- RT dna adducts

**CHEMICAL COATING**

- \*BT1 surface coating
- NT1 chemical vapor deposition
- NT1 electrochemical coating
- NT2 anodization

**CHEMICAL COMPOSITION**

- UF abundance (chemical)
- RT abundance
- RT ash content
- RT cosmochemistry
- RT element abundance
- RT iodine number
- RT ionic composition
- RT metallicity
- RT quantitative chemical analysis
- RT stoichiometry
- RT sulfur content
- RT water chemistry

**CHEMICAL DECLADDING**

- \*BT1 decladding

**CHEMICAL DOSEMETERS**

- UF fricke dosimeters
- \*BT1 dosimeters
- NT1 polymer gel dosimeters
- RT chemical radiation detectors

**chemical effects of nuclear transformations**

INIS: 1993-11-04; ETDE: 2002-06-13  
USE hot atom chemistry

**CHEMICAL EFFLUENTS**

1975-10-09

- UF effluents (chemical)
- \*BT1 chemical wastes
- RT gaseous wastes
- RT industrial wastes
- RT liquid wastes
- RT nonradioactive waste disposal
- RT particle resuspension
- RT pollutants
- RT pollution abatement
- RT radioactive effluents
- RT stack disposal
- RT water pollution monitors

**CHEMICAL ENGINEERING**

INIS: 1992-02-03; ETDE: 1984-09-05

- BT1 engineering
- RT chemistry

**CHEMICAL EXPLOSIONS**

1996-07-23

- UF cowboy event
- UF events (chemical explosions)
- UF middle gust event
- BT1 explosions
- RT chemical explosives
- RT contained explosions
- RT cratering explosions
- RT explosive fracturing
- RT explosive stimulation
- RT flashback
- RT underground explosions

**CHEMICAL EXPLOSIVES**

(From May 1975 till March 1997

PYROTECHNIC DEVICES was a valid ETDE descriptor. From August 1979 till March 1997 SHAPED CHARGES was a valid ETDE descriptor.)

- UF high explosives
- UF pyrotechnic devices
- UF shaped charges
- BT1 explosives
- NT1 dynamite
- NT1 nitrocellulose
- NT1 nitroglycerin
- NT1 nitromethane
- NT1 petn
- NT1 picric acid
- NT1 tatb
- NT1 tetryl
- NT1 tnt
- RT chemical explosions
- RT detonation limits

**CHEMICAL FEEDSTOCKS**

INIS: 1992-06-30; ETDE: 1977-03-04

- UF petrochemical feedstocks
- \*BT1 raw materials
- RT inorganic compounds
- RT organic compounds
- RT petrochemicals
- RT pyrolytic gases

**chemical heat pipes**

INIS: 2000-04-12; ETDE: 1982-02-09  
(Prior to December 1991 this was a valid ETDE descriptor.)  
USE heat pipes

**CHEMICAL HEAT PUMPS**

INIS: 2000-04-12; ETDE: 1979-09-26  
Systems for transporting and storing high grade thermal energy by the use of reversible, exothermic/endothermic chemical reactions.  
UF hycsos  
BT1 heat pumps  
RT cooling systems  
RT heating systems  
RT thermochemical heat storage

**chemical heat storage**

INIS: 1993-06-04; ETDE: 2002-06-13  
USE thermochemical heat storage

**CHEMICAL INDUSTRY**

INIS: 1977-10-17; ETDE: 1975-08-19  
UF chlor-alkali industry  
BT1 industry  
RT chemical plants

**CHEMICAL LASERS**

The excitation process involves the making or breaking of a chemical bond.  
BT1 lasers  
RT dye lasers

**CHEMICAL LOGGING**

INIS: 2000-04-12; ETDE: 1980-10-28  
Profiling of the concentration of chemical elements found in various geological formation fluids relative to the depth at which they are found.  
BT1 well logging

**CHEMICAL MACHINING**

UF chemical milling  
BT1 machining  
NT1 electrochemical machining

**chemical milling**

USE chemical machining

**chemical mutagens**

USE mutagens

**CHEMICAL OXYGEN DEMAND**

INIS: 1996-08-05; ETDE: 1978-03-08  
RT aquatic ecosystems  
RT biochemical oxygen demand  
RT liquid wastes  
RT oxygen

**CHEMICAL PHYSICS**

INIS: 2000-04-12; ETDE: 1984-09-05  
BT1 physics  
RT physical chemistry

**CHEMICAL PLANTS**

INIS: 1992-03-05; ETDE: 1978-12-28  
Industrial facilities operated by the chemical industry.  
BT1 industrial plants  
NT1 gasoline plants  
NT1 petrochemical plants  
RT biomass conversion plants  
RT chemical industry  
RT ethanol plants  
RT methanol plants  
RT petrochemicals

**CHEMICAL POLISHING**

\*BT1 polishing

**CHEMICAL PREPARATION**

UF preparation (chemical)  
BT1 synthesis  
RT chemical reactions

**CHEMICAL PROPERTIES**

UF properties (chemical)  
RT affinity  
RT chemical reactions

- RT chemistry  
RT thermal degradation
- CHEMICAL RADIATION DETECTORS**  
\*BT1 radiation detectors  
RT chemical dosimeters
- CHEMICAL RADIATION EFFECTS**  
UF radiation hardening (chemical)  
UF radioinduced reactions  
UF radiopolymerization  
BT1 radiation effects  
NT1 lyoluminescence  
NT1 radiation curing  
NT1 radiolysis  
NT2 autoradiolysis  
RT host-cell reactivation  
RT radiation chemistry  
RT strand breaks
- CHEMICAL REACTION KINETICS**  
\*BT1 reaction kinetics  
NT1 combustion kinetics  
RT activation energy  
RT arrhenius equation  
RT bifurcation  
RT catalysis  
RT enzyme activity  
RT limit cycle  
RT reaction intermediates
- CHEMICAL REACTION YIELD**  
UF yield (chemical reaction)  
BT1 yields  
RT chemical reactions
- CHEMICAL REACTIONS**  
UF ionic reactions  
NT1 acylation  
NT2 acetylation  
NT2 benzoylation  
NT1 alkylation  
NT1 amination  
NT1 aromatization  
NT1 arylation  
NT1 bosch process  
NT1 carbonylation  
NT1 carboxylation  
NT1 chemisorption  
NT1 claisen condensation  
NT1 corrosion  
NT2 crevice corrosion  
NT2 electrochemical corrosion  
NT2 fretting corrosion  
NT2 intergranular corrosion  
NT2 nodular corrosion  
NT2 pitting corrosion  
NT2 stress corrosion  
NT1 cyclization  
NT2 diels-alder reaction  
NT1 dealkylation  
NT1 deamination  
NT1 decarboxylation  
NT1 decarburization  
NT1 decomposition  
NT2 autolysis  
NT3 autoradiolysis  
NT2 biodegradation  
NT2 carbonization  
NT3 coking  
NT3 electrocarbonization  
NT2 depolymerization  
NT2 destructive distillation  
NT2 glycolysis  
NT2 hemolysis  
NT2 photolysis  
NT3 biophotolysis  
NT2 proteolysis  
NT3 fibrinolysis  
NT2 pyrolysis  
NT3 calcination  
NT3 cracking  
NT4 catalytic cracking  
NT4 hydrocracking  
NT4 thermal cracking  
NT3 flash hydropyrolysis process  
NT2 radiolysis  
NT3 autoradiolysis  
NT2 retorting  
NT3 in-situ retorting  
NT2 solvolysis  
NT3 acetolysis  
NT3 ammonolysis  
NT3 hydrolysis  
NT4 acid hydrolysis  
NT4 alkaline hydrolysis  
NT4 autohydrolysis  
NT4 enzymatic hydrolysis  
NT4 saccharification  
NT4 saponification  
NT1 dehalogenation  
NT2 dechlorination  
NT2 deiodination  
NT1 dehydration  
NT1 dehydrocyclization  
NT1 dehydrogenation  
NT1 denitration  
NT1 denitrification  
NT2 combined soxnox processes  
NT3 noxso process  
NT2 selective catalytic reduction  
NT1 dephenolization  
NT1 derivatization  
NT1 desulfurization  
NT2 adip process  
NT2 alkalized alumina process  
NT2 ammonia-ammonium bisulfate process  
NT2 battelle hydrothermal coal process  
NT2 beavon process  
NT2 benfield process  
NT2 bergbauforschung process  
NT2 cafb process  
NT2 cea-adl dual alkali process  
NT2 chiyoda thoroughbred process  
NT2 citrate process  
NT2 claus process  
NT2 cng process  
NT2 combined soxnox processes  
NT3 noxso process  
NT2 consol fgd process  
NT2 fmc double alkali process  
NT2 giammarco vetrocok sulfur process  
NT2 girbotol process  
NT2 gravimelt process  
NT2 gulf hds process  
NT2 holmes-stretford process  
NT2 jpl process  
NT2 ledgemont process  
NT2 lime-limestone wet scrubbing processes  
NT3 bischoff process  
NT2 magnesium slurry scrubbing process  
NT2 meyers process  
NT2 molecular sieve process  
NT2 otto process  
NT2 penelec process  
NT2 perox process  
NT2 purisol process  
NT2 rectisol process  
NT2 resox process  
NT2 ric process  
NT2 saarberg-holter process  
NT2 scot process  
NT2 selexol process  
NT2 shell-uop copper oxide process  
NT2 solinox process  
NT2 sorbent injection processes  
NT2 soxal process  
NT2 stone and webster ionics process  
NT2 stretford process  
NT2 sulf-x process  
NT2 sulfiban process  
NT2 sulfinol process  
NT2 sulfreen process  
NT2 takahax process  
NT2 thiosorbic process  
NT2 trw process  
NT2 ucap process  
NT2 unisulf process  
NT2 vacuum carbonate process  
NT2 w-1 sulfur dioxide recovery process  
NT2 walther process  
NT1 deuteration  
NT1 diazotization  
NT1 esterification  
NT1 fischer-tropsch synthesis  
NT1 friedel-crafts reaction  
NT1 halogenation  
NT2 astatination  
NT2 bromination  
NT2 chlorination  
NT3 sulfochlorination  
NT2 fluorination  
NT2 iodination  
NT1 hydridation  
NT1 hydrogenation  
NT2 gulf hds process  
NT1 hydroxylation  
NT1 isomerization  
NT1 methanation  
NT1 methylation  
NT1 nitration  
NT1 nitridation  
NT1 nitrification  
NT1 oxidation  
NT2 combustion  
NT3 cocombustion  
NT3 fluidized-bed combustion  
NT3 in-situ combustion  
NT3 oxyfuel combustion process  
NT3 pulse combustion  
NT3 reverse combustion  
NT3 spontaneous combustion  
NT3 staged combustion  
NT2 roasting  
NT1 ozonization  
NT1 partial oxidation processes  
NT1 phosphorylation  
NT1 photochemical reactions  
NT2 photolysis  
NT3 biophotolysis  
NT2 photosynthesis  
NT1 polymerization  
NT2 copolymerization  
NT2 cross-linking  
NT2 dimerization  
NT2 telomerization  
NT1 redox reactions  
NT1 reduction  
NT2 bomb reduction  
NT2 selective catalytic reduction  
NT2 thermite process  
NT1 reformer processes  
NT2 autothermal reformer processes  
NT2 catalytic reforming  
NT2 steam reformer processes  
NT1 steam-iron process  
NT1 sulfation  
NT1 sulfidation  
NT1 sulfonation  
NT2 sulfochlorination  
NT1 water gas processes  
RT acidification  
RT affinity  
RT catalysis  
RT chemical preparation

RT chemical properties  
 RT chemical reaction yield  
 RT chemical reactors  
 RT chemical state  
 RT chemistry  
 RT equilibrium  
 RT fermentation  
 RT fluidized beds  
 RT fuel-cladding interactions  
 RT fuel-coolant interactions  
 RT hydrogen transfer  
 RT isotopic exchange  
 RT molten metal-water reactions  
 RT phosphoenolpyruvate  
 RT reaction intermediates  
 RT rock-fluid interactions  
 RT seed-slag interactions  
 RT stoichiometry  
 RT thermodynamic activity  
 RT waste-rock interactions

**CHEMICAL REACTORS**

INIS: 2000-07-11; ETDE: 1975-08-19

UF vessels (chemical reactions)  
 NT1 retorts  
 RT bioreactors  
 RT chemical reactions  
 RT containers  
 RT fluidized beds  
 RT loading rate

**CHEMICAL SHIFT**

RT nuclear magnetic resonance  
 RT spectral shift

**chemical shimming**

USE fluid poison control

**CHEMICAL SPILLS**

INIS: 1991-09-30; ETDE: 1980-02-11

BT1 accidents  
 RT chemical wastes  
 RT gas spills  
 RT hazardous materials spills  
 RT natural attenuation  
 RT oil spills

**CHEMICAL STATE**

UF speciation (chemical)  
 RT anions  
 RT cations  
 RT chemical reactions  
 RT recoils

**CHEMICAL STRESS**

2014-03-28

BT1 biological stress

**CHEMICAL VAPOR DEPOSITION**

\*BT1 chemical coating  
 RT vapor deposited coatings  
 RT vapor phase epitaxy  
 RT vapor plating

**CHEMICAL WARFARE**

INIS: 1992-03-16; ETDE: 1986-02-03

BT1 warfare  
 RT chemical warfare agents

**CHEMICAL WARFARE AGENTS**

INIS: 1999-03-02; ETDE: 1986-02-03

BT1 weapons  
 RT chemical warfare  
 RT toxic materials

**CHEMICAL WASTES**

INIS: 1986-07-09; ETDE: 1982-03-11

For wastes which are of concern because of their chemical properties. See also

RADIOACTIVE WASTES.

UF waste chemicals  
 \*BT1 nonradioactive wastes

NT1 chemical effluents  
 RT chemical spills  
 RT hazardous materials  
 RT industrial wastes  
 RT municipal wastes

**chemically active fluidized bed process**

2000-04-12

USE cabf process

**chemicals**

See specific compounds or classes of compounds, e.g., CARCINOGENS, DETERGENTS, PLASTICIZERS, and ORGANIC COMPOUNDS.

SEE additives  
 SEE chelating agents  
 SEE detergents  
 SEE developers  
 SEE dyes  
 SEE indicators  
 SEE inorganic compounds  
 SEE organic compounds  
 SEE petrochemicals

**chemico process**

2000-04-12

Process using an aqueous suspension of magnesium oxide for removal of sulfur dioxide from flue gas.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**CHEMILUMINESCENCE**

1999-05-04

\*BT1 luminescence  
 RT luminol

**CHEMISORPTION**

Dissolution or adsorption followed by chemical reaction.

BT1 chemical reactions  
 BT1 separation processes  
 BT1 sorption  
 RT adsorbents  
 RT adsorption  
 RT hydrogen storage  
 RT scrubbing

**CHEMISTRY**

NT1 atmospheric chemistry  
 NT1 biochemistry  
 NT2 blood chemistry  
 NT2 cytochemistry  
 NT1 cosmochemistry  
 NT1 electrochemistry  
 NT1 geochemistry  
 NT2 biogeochemistry  
 NT1 nanochemistry  
 NT1 nuclear chemistry  
 NT1 petrochemistry  
 NT1 photochemistry  
 NT2 solar photochemistry  
 NT1 physical chemistry  
 NT2 plasma chemistry  
 NT1 radiation chemistry  
 NT1 radiochemistry  
 NT2 hot atom chemistry  
 NT3 szilard-chalmers reaction  
 NT1 soil chemistry  
 NT1 water chemistry  
 NT2 acid neutralizing capacity  
 RT chemical engineering  
 RT chemical properties  
 RT chemical reactions  
 RT qualitative chemical analysis  
 RT quantitative chemical analysis  
 RT stoichiometry

**chemistry (water)**

2000-04-12

USE water chemistry

**CHEMONUCLEAR REACTORS**

\*BT1 irradiation reactors

**CHEMORECEPTORS**

RT flavor  
 RT insects  
 RT odor  
 RT sense organs

**CHEMOSTERILANTS**

A substance producing irreversible sterility in a reproductive system.

RT alkylating agents  
 RT antimetabolites  
 RT sterilization

**CHEMOTHERAPY**

UF pharmacotherapy  
 \*BT1 therapy  
 RT antiandrogens  
 RT antimetabolic drugs  
 RT antineoplastic drugs  
 RT combined therapy  
 RT drugs  
 RT liposomes  
 RT misonidazole  
 RT neocarcinostatin  
 RT quality of life

**chemsweet process**

INIS: 2000-04-12; ETDE: 1980-05-06

Batch process for sweetening low-value sour natural gas using zinc compounds.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE desulfurization

**CHENOPODIACEAE**

INIS: 1992-01-08; ETDE: 1988-04-15

\*BT1 magnoliopsida

**cheralite**

INIS: 1984-04-04; ETDE: 2003-01-03

(Prior to January 2003 QUARTZITES was used for this concept.)

USE monazites

**CHERENKOV COUNTERS**

UF cherenkov detectors  
 \*BT1 radiation detectors  
 RT cherenkov counting  
 RT stanford linear collider detector  
 RT super-kamiokande neutrino detector

**CHERENKOV COUNTING**

INIS: 1993-05-06; ETDE: 1975-10-28

BT1 counting techniques  
 RT cherenkov counters

**cherenkov detectors**

USE cherenkov counters

**CHERENKOV RADIATION**

UF vavilov-cherenkov radiation

\*BT1 electromagnetic radiation  
 RT light cone

**CHERNOBYLSK-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

Ukraine.

\*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**CHERNOBYLSK-2 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

Ukraine. Permanent shutdown since 1991.

\*BT1 enriched uranium reactors

- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**CHERNOBYLSK-3 REACTOR**

*INIS: 1984-08-23; ETDE: 1984-09-20*  
Ukraine. Permanent shutdown since 2000.

- \*BT1 enriched uranium reactors
- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**CHERNOBYLSK-4 REACTOR**

*INIS: 1984-08-23; ETDE: 1984-09-20*  
Ukraine. Permanent shutdown since 1986.

- \*BT1 enriched uranium reactors
- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors
- RT pripet river

**chernoff faces**

*INIS: 2000-04-12; ETDE: 1979-06-06*  
Stylized faces used in analysis of many-dimensional data sets.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE computer graphics
- USE data processing

**CHEROKEE-1 REACTOR**

Duke Power Co., Blacksburg, South Carolina, USA. Canceled in 1983 before construction began.

- \*BT1 pwr type reactors

**CHEROKEE-2 REACTOR**

Duke Power Co., Blacksburg, South Carolina, USA. Canceled in 1982 before construction began.

- \*BT1 pwr type reactors

**CHEROKEE-3 REACTOR**

Duke Power Co., Blacksburg, South Carolina, USA. Canceled in 1982 before construction began.

- \*BT1 pwr type reactors

**CERRIES**

- \*BT1 fruits
- RT fruit trees
- RT rosaceae

**cherry fruit fly**

*INIS: 1996-07-23; ETDE: 1976-01-26*  
(From January 1976 till March 1997 RHAGOLETIS CERASI was used for this concept in ETDE.)

- USE fruit flies

**CHERT**

2000-04-12

- \*BT1 sedimentary rocks

**CHESAPEAKE BAY**

- \*BT1 atlantic ocean
- \*BT1 bays
- RT maryland
- RT mid-atlantic bight
- RT virginia

**cheshire event**

*INIS: 2000-04-12; ETDE: 1977-06-21*  
USE anvil project

**CHEST**

1999-04-06

- UF thorax
- BT1 body
- NT1 mediastinum
- RT diaphragm
- RT heart
- RT lungs

- RT mammary glands
- RT pleura
- RT respiratory system
- RT thymus

**CHESTNUT TREES**

*INIS: 1992-01-08; ETDE: 1978-09-11*

- \*BT1 magnoliopsida
- \*BT1 trees

**CHESTNUTS**

*INIS: 1982-01-13; ETDE: 1982-02-11*

- \*BT1 nuts

**chevron coal liquefaction process**

*INIS: 2000-04-12; ETDE: 1983-01-21*  
Processing sequence uses two separate, but close-coupled reaction zones. The first is used to contain and control dissolution reactions. The second contains and controls hydrofining reactions.

(Prior to July 1993, this was a valid ETDE descriptor.)

- USE coal liquefaction

**CHEW-LOW METHOD**

- BT1 calculation methods
- RT strong interactions

**chi-2800 resonances**

*INIS: 1988-03-08; ETDE: 1979-10-03*

(Prior to December 1987 this was a valid descriptor.)

- USE mesons

**chi-3410 resonances**

*INIS: 1987-12-21; ETDE: 1976-08-24*

(Prior to December 1987 this was a valid descriptor.)

- USE chi0-3415 mesons

**chi-3455 resonances**

*INIS: 1988-03-08; ETDE: 1977-07-23*

(Prior to December 1987 this was a valid descriptor.)

- USE mesons

**chi-3500 resonances**

*INIS: 1987-12-21; ETDE: 1977-01-28*

(Prior to December 1987 this was a valid descriptor.)

- USE chi1-3510 mesons

**chi-3550 resonances**

*INIS: 1987-12-21; ETDE: 1977-01-28*

(Prior to December 1987 this was a valid descriptor.)

- USE chi2-3555 mesons

**CHI B0-10235 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-02*

- \*BT1 bottomonium

**CHI B0-9860 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-02*

- \*BT1 bottomonium

**CHI B1-10255 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-02*

- \*BT1 bottomonium

**CHI B1-9890 MESONS**

1995-08-07

(Until July 1995 this concept was indexed by CHI B1-9895 MESONS.)

- UF chi b1-9895 mesons
- \*BT1 axial vector mesons
- \*BT1 bottomonium

**chi b1-9895 mesons**

*INIS: 1995-08-07; ETDE: 1988-02-02*

(Until July 1995 this was a valid term.)

- USE chi b1-9890 mesons

**CHI B2-10270 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-02*

- \*BT1 bottomonium

**CHI B2-9915 MESONS**

*INIS: 1995-08-07; ETDE: 1988-02-02*

- \*BT1 bottomonium
- \*BT1 tensor mesons

**chi resonances**

*INIS: 1988-03-08; ETDE: 1977-07-23*

(Prior to December 1987 this was a valid descriptor.)

- USE mesons

**CHI0-3415 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*

(Prior to December 1987 this concept was indexed by CHI-3410 RESONANCES.)

- UF chi-3410 resonances
- \*BT1 charmonium
- \*BT1 scalar mesons

**CHI1-3510 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*

(Prior to December 1987 this concept was indexed by CHI-3500 RESONANCES.)

- UF chi-3500 resonances
- \*BT1 axial vector mesons
- \*BT1 charmonium

**CHI2-3555 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*

(Prior to December 1987 this concept was indexed by CHI-3550 RESONANCES.)

- UF chi-3550 resonances
- \*BT1 charmonium
- \*BT1 tensor mesons

**chiberta event**

*INIS: 2000-04-12; ETDE: 1977-06-21*

- USE anvil project

**CHICAGO**

*INIS: 1992-07-08; ETDE: 1977-10-20*

- \*BT1 illinois
- BT1 urban areas

**chicago cyclotron**

1994-08-22

(Prior to June 1994, this was a valid ETDE descriptor.)

- USE isochronous cyclotrons

**chicago pile-2 reactor**

- USE cp-2 reactor

**chicago synchrocyclotron**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE synchrocyclotrons

**CHICKENS**

1996-07-08

- UF hens
- \*BT1 fowl
- RT ascaridae

**CHILDREN**

- BT1 age groups
- \*BT1 man
- NT1 infants
- RT adolescents
- RT education
- RT juveniles
- RT life cycle
- RT pediatrics
- RT progeny

**CHILE**

1997-06-17

- BT1 developing countries

\*BT1 south america  
 RT andes  
 RT el tatio geothermal field

**CHILEAN ORGANIZATIONS**

2004-03-31  
 BT1 national organizations

**CHIMERAS**

BT1 mosaicism  
 NT1 radiation chimeras  
 RT immunity  
 RT spleen colony formation  
 RT transplants

**CHIMNEYS**

1975-08-22  
 For gas disposal use STACKS.  
 NT1 solar chimneys  
 RT cavities  
 RT exhaust systems  
 RT explosive stimulation  
 RT fireplaces  
 RT underground explosions

**CHINA**

UF inner mongolia  
 UF peoples republic of china  
 BT1 asia  
 NT1 hong kong  
 NT1 taiwan  
 NT1 tibet  
 RT centrally planned economies  
 RT cia  
 RT yangtze river  
 RT yellow river

**china advanced research reactor**

2018-06-04  
 USE carr reactor

**china clay**

USE kaolin

**china experimental fast reactor**

INIS: 2000-02-22; ETDE: 2000-10-04  
 USE cefr reactor

**china institute of atomic energy**

INIS: 1992-08-05; ETDE: 1992-09-10  
 USE cia

**china mianyang research reactor**

2018-06-04  
 USE cmrr reactor

**CHINA SEA**

INIS: 1992-01-16; ETDE: 1981-03-16  
 UF east china sea  
 UF south china sea  
 \*BT1 pacific ocean

**CHINA SPALLATION NEUTRON SOURCE**

2016-06-09  
 Institute of High Energy Physics, Beijing, China  
 \*BT1 spallation neutron source facilities

**chinese bean oil**

USE soybean oil

**chinese hamster**

USE hamsters

**chinese hamster ovary cells**

INIS: 1984-01-18; ETDE: 1983-09-15  
 USE cho cells

**CHINESE NNSA**

INIS: 1993-03-17; ETDE: 1993-04-16  
 National Nuclear Safety Administration.  
 \*BT1 chinese organizations

**CHINESE ORGANIZATIONS**

INIS: 1987-05-26; ETDE: 1980-10-07  
 BT1 national organizations  
 NT1 chinese nnsa  
 NT1 cia

**chinese tallow tree**

INIS: 2000-04-12; ETDE: 1980-04-14  
 A hydrocarbon-producing plant; possible source of synthetic petroleum.  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE euphorbia

**chinon-1 reactor**

(Prior to August 2010 this was a valid descriptor.)  
 USE chinon-a1 reactor

**chinon-2 reactor**

(Prior to August 2010 this was a valid descriptor.)  
 USE chinon-a2 reactor

**chinon-3 reactor**

(Prior to August 2010 this was a valid descriptor.)  
 USE chinon-a3 reactor

**CHINON-A1 REACTOR**

2010-08-17  
 Electricite de France, Avoine, Indre-et-Loire, France. Permanently shut down since 1973.  
 (Prior to August 2010 CHINON-1 REACTOR was used for this reactor.)

UF chinon-1 reactor  
 UF edf-1 reactor  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 gcr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**CHINON-A2 REACTOR**

2010-08-17  
 Electricite de France, Avoine, Indre-et-Loire, France. Permanently shut down since 1987.  
 (Prior to August 2010 CHINON-2 REACTOR was used for this reactor.)

UF chinon-2 reactor  
 UF edf-2 reactor  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 gcr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**CHINON-A3 REACTOR**

2010-08-17  
 Electricite de France, Avoine, Indre-et-Loire, France. Permanently shut down since 1990.  
 (Prior to August 2010 CHINON-3 REACTOR was used for this reactor.)

UF chinon-3 reactor  
 UF edf-3 reactor  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 gcr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**CHINON-B1 REACTOR**

1995-02-15  
 Electricite de France, Avoine, Indre-et-Loire, France  
 \*BT1 pwr type reactors

**CHINON-B2 REACTOR**

2010-08-17  
 Electricite de France, Avoine, Indre-et-Loire, France  
 \*BT1 pwr type reactors

**CHINON-B3 REACTOR**

2010-08-17  
 Electricite de France, Avoine, Indre-et-Loire, France  
 \*BT1 pwr type reactors

**CHINON-B4 REACTOR**

2010-08-17  
 Electricite de France, Avoine, Indre-et-Loire, France  
 \*BT1 pwr type reactors

**chinone**

USE benzoquinones

**CHINSHAN-1 REACTOR**

INIS: 1991-11-06; ETDE: 1992-01-31  
 Taipei, Taiwan.  
 (This descriptor was spelled QINSHAN-1 REACTOR for items input in 1991, and prior to 1991 was spelled CHINSAN-1 REACTOR.)  
 \*BT1 bwr type reactors

**CHINSHAN-2 REACTOR**

INIS: 1991-11-06; ETDE: 1992-01-31  
 Taipei, Taiwan.  
 (This descriptor was spelled QINSHAN-2 REACTOR for items input in 1991, and prior to 1991 was spelled CHINSAN-2 REACTOR.)  
 \*BT1 bwr type reactors

**chipmunks**

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE rodents

**chiral molecules**

INIS: 2000-04-12; ETDE: 1976-02-23  
 USE enantiomorphs

**CHIRAL SYMMETRY**

BT1 symmetry  
 RT chirality

**CHIRALITY**

BT1 particle properties  
 RT angular momentum  
 RT chiral symmetry  
 RT helicity  
 RT quantum mechanics  
 RT spin

**CHITIN**

\*BT1 mucopolysaccharides  
 RT glucosamine  
 RT polyacetals

**CHIYODA THOROUGHbred PROCESS**

INIS: 2000-04-12; ETDE: 1977-12-22  
 Wet process capable of high SO<sub>x</sub> removal from flue gas producing gypsum for resale or disposal.  
 \*BT1 desulfurization  
 RT waste processing

**CHLAMYDOMONAS**

\*BT1 chlorophycota  
 \*BT1 unicellular algae

**chlor-alkali industry**

INIS: 2000-04-12; ETDE: 1981-04-17  
 USE chemical industry



USE chlorine  
 USE sodium carbonates  
 USE sodium hydroxides

**CHLORAL**

UF *trichloroacetaldehyde*  
 \*BT1 aldehydes  
 \*BT1 organic chlorine compounds  
 RT acetaldehyde

**CHLORAMBUCIL**

1993-08-03  
 \*BT1 amines  
 \*BT1 antineoplastic drugs  
 \*BT1 monocarboxylic acids  
 \*BT1 organic chlorine compounds

**chloramine-b**

USE chloramines

**chloramine-t**

USE chloramines

**CHLORAMINES**

UF *chloramine-b*  
 UF *chloramine-t*  
 \*BT1 amines  
 \*BT1 organic chlorine compounds  
 RT amides  
 RT sulfonic acids

**CHLORAMPHENICOL**

\*BT1 antibiotics

**CHLORANIL**

UF *tetrachlorobenzoquinone*  
 \*BT1 benzoquinones  
 \*BT1 organic chlorine compounds  
 RT chloranilic acid

**CHLORANILIC ACID**

\*BT1 benzoquinones  
 RT chloranil  
 RT organic acids

**CHLORATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 chlorine compounds  
 BT1 oxygen compounds  
 RT chloric acid

**CHLORELLA**

\*BT1 chlorophycota  
 \*BT1 unicellular algae

**CHLORIC ACID**

\*BT1 chlorine compounds  
 \*BT1 inorganic acids  
 BT1 oxygen compounds  
 RT chlorates

**CHLORIDE VOLATILITY PROCESS**

\*BT1 pyrometallurgy  
 \*BT1 reprocessing  
 RT distillation  
 RT refining  
 RT volatility

**CHLORIDES**

1996-07-18  
 \*BT1 chlorine compounds  
 \*BT1 halides  
 NT1 actinium chlorides  
 NT1 aluminium chlorides  
 NT1 americium chlorides  
 NT1 ammonium chlorides  
 NT1 antimony chlorides  
 NT1 argon chlorides  
 NT1 arsenic chlorides  
 NT1 astatine chlorides

NT1 barium chlorides  
 NT1 berkelium chlorides  
 NT1 beryllium chlorides  
 NT1 bismuth chlorides  
 NT1 boron chlorides  
 NT1 bromine chlorides  
 NT1 cadmium chlorides  
 NT1 calcium chlorides  
 NT1 californium chlorides  
 NT1 cerium chlorides  
 NT1 cesium chlorides  
 NT1 chromium chlorides  
 NT1 cobalt chlorides  
 NT1 copper chlorides  
 NT1 curium chlorides  
 NT1 dysprosium chlorides  
 NT1 einsteinium chlorides  
 NT1 erbium chlorides  
 NT1 europium chlorides  
 NT1 fermium chlorides  
 NT1 francium chlorides  
 NT1 gadolinium chlorides  
 NT1 gallium chlorides  
 NT1 germanium chlorides  
 NT1 gold chlorides  
 NT1 hafnium chlorides  
 NT1 helium chlorides  
 NT1 holmium chlorides  
 NT1 hydrogen chlorides  
 NT1 indium chlorides  
 NT1 iodine chlorides  
 NT1 iridium chlorides  
 NT1 iron chlorides  
 NT1 krypton chlorides  
 NT1 lanthanum chlorides  
 NT1 lead chlorides  
 NT1 lithium chlorides  
 NT1 lutetium chlorides  
 NT1 magnesium chlorides  
 NT1 manganese chlorides  
 NT1 mercury chlorides  
 NT1 methylene blue  
 NT1 molybdenum chlorides  
 NT1 neodymium chlorides  
 NT1 neon chlorides  
 NT1 neptunium chlorides  
 NT1 nickel chlorides  
 NT1 niobium chlorides  
 NT1 nitrogen chlorides  
 NT1 osmium chlorides  
 NT1 palladium chlorides  
 NT1 phosphorus chlorides  
 NT1 platinum chlorides  
 NT1 plutonium chlorides  
 NT1 polonium chlorides  
 NT1 potassium chlorides  
 NT1 praseodymium chlorides  
 NT1 promethium chlorides  
 NT1 protactinium chlorides  
 NT1 radium chlorides  
 NT1 rhenium chlorides  
 NT1 rhodium chlorides  
 NT1 rubidium chlorides  
 NT1 ruthenium chlorides  
 NT1 rutherfordium chlorides  
 NT1 samarium chlorides  
 NT1 scandium chlorides  
 NT1 selenium chlorides  
 NT1 silicon chlorides  
 NT1 silver chlorides  
 NT1 sodium chlorides  
 NT1 strontium chlorides  
 NT1 sulfur chlorides  
 NT1 tantalum chlorides  
 NT1 technetium chlorides  
 NT1 tellurium chlorides  
 NT1 terbium chlorides  
 NT1 tetrazolium  
 NT1 thallium chlorides

NT1 thionyl chlorides  
 NT1 thorium chlorides  
 NT1 thulium chlorides  
 NT1 tin chlorides  
 NT1 titanium chlorides  
 NT1 tungsten chlorides  
 NT1 uranium chlorides  
 NT1 uranyl chlorides  
 NT1 vanadium chlorides  
 NT1 xenon chlorides  
 NT1 ytterbium chlorides  
 NT1 yttrium chlorides  
 NT1 zinc chlorides  
 NT1 zirconium chlorides  
 RT chlorine additions  
 RT oxychlorides

**CHLORIMET**

2000-04-12  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys

**CHLORINATED ALICYCLIC HYDROCARBONS**

2000-04-12  
 \*BT1 halogenated alicyclic hydrocarbons  
 \*BT1 organic chlorine compounds  
 NT1 lindane

**CHLORINATED ALIPHATIC HYDROCARBONS**

1991-09-30  
 (Prior to October 1991, this concept was indexed by ORGANIC CHLORINE COMPOUNDS.)  
 \*BT1 halogenated aliphatic hydrocarbons  
 \*BT1 organic chlorine compounds  
 NT1 carbon tetrachloride  
 NT1 chloroform  
 NT1 methyl chloride  
 NT1 pvc  
 NT1 trichloroacetic acid  
 NT1 vinyl chloride  
 RT chlorofluorocarbons

**CHLORINATED AROMATIC HYDROCARBONS**

1991-10-01  
 \*BT1 halogenated aromatic hydrocarbons  
 \*BT1 organic chlorine compounds  
 NT1 aldrin  
 NT1 polychlorinated biphenyls

**chlorinated hydrocarbons**

ETDE: 2002-06-13  
 USE organic chlorine compounds

**CHLORINATION**

\*BT1 halogenation  
 NT1 sulfochlorination  
 RT dechlorination

**CHLORINE**

UF *chlor-alkali industry*  
 UF *chlorine chlorides*  
 \*BT1 halogens

**CHLORINE 28**

2007-01-24  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

**CHLORINE 29**

2007-01-24  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes

**CHLORINE 30**

2007-01-24

- \*BT1 chlorine isotopes
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 proton decay radioisotopes

**CHLORINE 31**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 chlorine isotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CHLORINE 32**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 chlorine isotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CHLORINE 33**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 chlorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**CHLORINE 34**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 chlorine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 light nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**CHLORINE 35**

- \*BT1 chlorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- RT chlorine 35 beams

**CHLORINE 35 BEAMS**

1975-11-27

- \*BT1 ion beams
- RT chlorine 35

**CHLORINE 35 REACTIONS**

- \*BT1 heavy ion reactions

**CHLORINE 35 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CHLORINE 36**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 chlorine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**CHLORINE 36 TARGET**

INIS: 1985-07-22; ETDE: 1985-08-08

- BT1 targets

**CHLORINE 37**

- \*BT1 chlorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- RT chlorine 37 reactions

**CHLORINE 37 BEAMS**

1993-08-03

- \*BT1 ion beams

**CHLORINE 37 REACTIONS**

ETDE: 1975-09-11

- \*BT1 heavy ion reactions
- RT chlorine 37

**CHLORINE 37 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CHLORINE 38**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chlorine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 light nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**CHLORINE 39**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chlorine isotopes
- \*BT1 light nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**CHLORINE 39 BEAMS**

INIS: 1986-12-09; ETDE: 1987-02-24

- \*BT1 radioactive ion beams

**CHLORINE 40**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chlorine isotopes
- \*BT1 light nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CHLORINE 41**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**CHLORINE 42**

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**CHLORINE 43**

INIS: 1977-03-01; ETDE: 1976-12-15

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE 44**

INIS: 1976-03-17; ETDE: 1976-02-19

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**CHLORINE 45**

INIS: 1986-04-02; ETDE: 1986-07-03

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE 46**

INIS: 1989-09-14; ETDE: 1989-10-16

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**CHLORINE 47**

INIS: 1989-09-14; ETDE: 1989-10-16

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE 48**

INIS: 1989-09-14; ETDE: 1989-10-16

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**CHLORINE 49**

INIS: 1989-09-14; ETDE: 1989-10-16

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE 50**

2007-01-24

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CHLORINE 51**

INIS: 1990-04-19; ETDE: 1990-05-16

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE ADDITIONS**

- RT chlorides
- RT crystal doping
- RT doped materials

**chlorine bromides**

- USE bromine chlorides

**chlorine chlorides**

- USE chlorine

**CHLORINE COMPLEXES**

- BT1 complexes

**CHLORINE COMPOUNDS**

- UF chlorites
- BT1 halogen compounds
- NT1 chlorates
- NT1 chloric acid
- NT1 chlorides
- NT2 actinium chlorides
- NT2 aluminium chlorides
- NT2 americium chlorides
- NT2 ammonium chlorides
- NT2 antimony chlorides
- NT2 argon chlorides
- NT2 arsenic chlorides
- NT2 astatine chlorides
- NT2 barium chlorides
- NT2 berkelium chlorides
- NT2 beryllium chlorides
- NT2 bismuth chlorides
- NT2 boron chlorides
- NT2 bromine chlorides
- NT2 cadmium chlorides
- NT2 calcium chlorides
- NT2 californium chlorides
- NT2 cerium chlorides
- NT2 cesium chlorides
- NT2 chromium chlorides
- NT2 cobalt chlorides
- NT2 copper chlorides
- NT2 curium chlorides
- NT2 dysprosium chlorides
- NT2 einsteinium chlorides
- NT2 erbium chlorides
- NT2 europium chlorides
- NT2 fermium chlorides
- NT2 francium chlorides
- NT2 gadolinium chlorides
- NT2 gallium chlorides
- NT2 germanium chlorides
- NT2 gold chlorides
- NT2 hafnium chlorides
- NT2 helium chlorides
- NT2 holmium chlorides
- NT2 hydrogen chlorides
- NT2 indium chlorides
- NT2 iodine chlorides
- NT2 iridium chlorides
- NT2 iron chlorides

NT2 krypton chlorides  
 NT2 lanthanum chlorides  
 NT2 lead chlorides  
 NT2 lithium chlorides  
 NT2 lutetium chlorides  
 NT2 magnesium chlorides  
 NT2 manganese chlorides  
 NT2 mercury chlorides  
 NT2 methylene blue  
 NT2 molybdenum chlorides  
 NT2 neodymium chlorides  
 NT2 neon chlorides  
 NT2 neptunium chlorides  
 NT2 nickel chlorides  
 NT2 niobium chlorides  
 NT2 nitrogen chlorides  
 NT2 osmium chlorides  
 NT2 palladium chlorides  
 NT2 phosphorus chlorides  
 NT2 platinum chlorides  
 NT2 plutonium chlorides  
 NT2 polonium chlorides  
 NT2 potassium chlorides  
 NT2 praseodymium chlorides  
 NT2 promethium chlorides  
 NT2 protactinium chlorides  
 NT2 radium chlorides  
 NT2 rhenium chlorides  
 NT2 rhodium chlorides  
 NT2 rubidium chlorides  
 NT2 ruthenium chlorides  
 NT2 rutherfordium chlorides  
 NT2 samarium chlorides  
 NT2 scandium chlorides  
 NT2 selenium chlorides  
 NT2 silicon chlorides  
 NT2 silver chlorides  
 NT2 sodium chlorides  
 NT2 strontium chlorides  
 NT2 sulfur chlorides  
 NT2 tantalum chlorides  
 NT2 technetium chlorides  
 NT2 tellurium chlorides  
 NT2 terbium chlorides  
 NT2 tetrazolium  
 NT2 thallium chlorides  
 NT2 thionyl chlorides  
 NT2 thorium chlorides  
 NT2 thulium chlorides  
 NT2 tin chlorides  
 NT2 titanium chlorides  
 NT2 tungsten chlorides  
 NT2 uranium chlorides  
 NT2 uranyl chlorides  
 NT2 vanadium chlorides  
 NT2 xenon chlorides  
 NT2 ytterbium chlorides  
 NT2 yttrium chlorides  
 NT2 zinc chlorides  
 NT2 zirconium chlorides  
 NT1 chlorine halides  
   NT2 chlorine fluorides  
 NT1 chlorine nitrates  
 NT1 chlorine oxides  
 NT1 chlorous acid  
 NT1 hydrochloric acid  
 NT1 hypochlorous acid  
 NT1 oxychlorides  
 NT1 perchlorates  
   NT2 aluminium perchlorates  
   NT2 americium perchlorates  
   NT2 ammonium perchlorates  
   NT2 barium perchlorates  
   NT2 cadmium perchlorates  
   NT2 calcium perchlorates  
   NT2 cerium perchlorates  
   NT2 cesium perchlorates  
   NT2 chromium perchlorates  
   NT2 cobalt perchlorates

NT2 copper perchlorates  
 NT2 dysprosium perchlorates  
 NT2 erbium perchlorates  
 NT2 europium perchlorates  
 NT2 gadolinium perchlorates  
 NT2 hafnium perchlorates  
 NT2 holmium perchlorates  
 NT2 indium perchlorates  
 NT2 iron perchlorates  
 NT2 lanthanum perchlorates  
 NT2 lead perchlorates  
 NT2 lithium perchlorates  
 NT2 lutetium perchlorates  
 NT2 magnesium perchlorates  
 NT2 manganese perchlorates  
 NT2 mercury perchlorates  
 NT2 neodymium perchlorates  
 NT2 neptunium perchlorates  
 NT2 plutonium perchlorates  
 NT2 potassium perchlorates  
 NT2 praseodymium perchlorates  
 NT2 rubidium perchlorates  
 NT2 samarium perchlorates  
 NT2 scandium perchlorates  
 NT2 silver perchlorates  
 NT2 sodium perchlorates  
 NT2 strontium perchlorates  
 NT2 terbium perchlorates  
 NT2 thallium perchlorates  
 NT2 thorium perchlorates  
 NT2 thulium perchlorates  
 NT2 uranium perchlorates  
 NT2 uranyl perchlorates  
 NT2 ytterbium perchlorates  
 NT2 yttrium perchlorates  
 NT2 zinc perchlorates  
 NT2 zirconium perchlorates  
 NT1 perchloric acid  
 RT organic chlorine compounds

### CHLORINE FLUORIDES

UF fluorine chlorides  
 \*BT1 chlorine halides  
 \*BT1 fluorides

### CHLORINE HALIDES

2012-07-19  
 \*BT1 chlorine compounds  
 \*BT1 halides  
 NT1 chlorine fluorides

### chlorine iodides

USE iodine chlorides

### CHLORINE IONS

\*BT1 ions

### CHLORINE ISOTOPES

1999-07-16  
 BT1 isotopes  
 NT1 chlorine 28  
 NT1 chlorine 29  
 NT1 chlorine 30  
 NT1 chlorine 31  
 NT1 chlorine 32  
 NT1 chlorine 33  
 NT1 chlorine 34  
 NT1 chlorine 35  
 NT1 chlorine 36  
 NT1 chlorine 37  
 NT1 chlorine 38  
 NT1 chlorine 39  
 NT1 chlorine 40  
 NT1 chlorine 41  
 NT1 chlorine 42  
 NT1 chlorine 43  
 NT1 chlorine 44  
 NT1 chlorine 45  
 NT1 chlorine 46  
 NT1 chlorine 47  
 NT1 chlorine 48

NT1 chlorine 49  
 NT1 chlorine 50  
 NT1 chlorine 51

### chlorine logs

INIS: 2000-04-12; ETDE: 1979-03-27  
 USE neutron-gamma logging

### CHLORINE NITRATES

INIS: 2000-04-12; ETDE: 1989-10-24  
 \*BT1 chlorine compounds  
 \*BT1 nitrates

### CHLORINE OXIDES

\*BT1 chlorine compounds  
 \*BT1 oxides  
 RT oxychlorides

### chlorinity

2013-08-28  
 USE salinity

### CHLORINS

INIS: 2000-04-12; ETDE: 1981-07-18  
 \*BT1 porphyrins  
 RT cytochromes

### CHLORITE MINERALS

Greenish, platyhydrous monoclinic silicates of aluminium, ferrous iron, and magnesium.  
 UF chlorites (minerals)  
 \*BT1 silicate minerals

### chlorites

INIS: 1984-04-25; ETDE: 2002-06-13  
 Salts of chlorous acid.  
 USE chlorine compounds  
 USE oxygen compounds

### chlorites (minerals)

INIS: 1984-04-25; ETDE: 2002-06-13  
 USE chlorite minerals

### chlormerodrin

ETDE: 1981-04-20  
 USE neohydrin

### chlorobutadiene

USE neoprene

### CHLOROFLUOROCARBONS

INIS: 1992-06-19; ETDE: 1992-04-01  
 UF cfc  
 \*BT1 organic chlorine compounds  
 \*BT1 organic fluorine compounds  
 RT chlorinated aliphatic hydrocarbons  
 RT fluorinated aliphatic hydrocarbons  
 RT freons  
 RT greenhouse gases  
 RT ozone layer  
 RT refrigerants

### CHLOROFORM

UF trichloromethane  
 \*BT1 chlorinated aliphatic hydrocarbons  
 RT anesthetics  
 RT methane  
 RT organic solvents

### chloromethane

INIS: 1982-02-09; ETDE: 2002-06-13  
 USE methyl chloride

### CHLOROPHYCOTA

INIS: 1991-12-11; ETDE: 1988-12-20  
 \*BT1 algae  
 NT1 acetabularia  
 NT1 chlamydomonas  
 NT1 chlorella  
 NT1 nitella  
 NT1 scenedesmus

**CHLOROPHYLL**

- \*BT1 phytochromes
- \*BT1 porphyrins
- RT chlorophyll-binding proteins
- RT chloroplasts
- RT chlorosis
- RT leaves
- RT photosynthesis
- RT photosynthetic reaction centers
- RT plants

**CHLOROPHYLL-BINDING PROTEINS**

- INIS: 2000-04-12; ETDE: 1986-11-20*
- BT1 photosynthetic reaction centers
  - \*BT1 proteins
  - RT chlorophyll
  - RT photosynthetic membranes

**CHLOROPLASTS**

- BT1 cell constituents
- RT c4 species
- RT calvin cycle species
- RT chlorophyll
- RT photosynthesis
- RT plant cells
- RT ribulose diphosphate carboxylase

**chloroprene**

- USE neoprene

**CHLOROSIS**

- INIS: 1992-06-19; ETDE: 1985-11-19*
- BT1 pathological changes
  - RT chlorophyll
  - RT leaves
  - RT plant diseases
  - RT plant tissues
  - RT symptoms

**chlorothiazide**

- 1996-07-18  
(Until July 1996 this was a valid descriptor.)
- USE diuretics

**CHLOROURACILS**

- INIS: 1983-06-02; ETDE: 1982-11-08*
- \*BT1 organic chlorine compounds
  - \*BT1 uracils

**CHLOROUS ACID**

- \*BT1 chlorine compounds
- \*BT1 inorganic acids
- BT1 oxygen compounds

**CHLORPROMAZINE**

- \*BT1 amines
- \*BT1 hypnotics and sedatives
- \*BT1 organic chlorine compounds
- \*BT1 phenothiazines
- \*BT1 tranquilizers

**chlortetracycline**

- 1996-10-22  
(Until October 1996 this was a valid descriptor.)
- USE tetracyclines

**CHO CELLS**

- INIS: 1984-01-18; ETDE: 1983-09-15*
- UF chinese hamster ovary cells
  - \*BT1 somatic cells
  - RT cell cultures

**CHOLANTHRENE**

- \*BT1 polycyclic aromatic hydrocarbons

**CHOLECALCIFEROL**

- UF vitamin d-3
- \*BT1 vitamin d

**CHOLERA**

- \*BT1 bacterial diseases

**CHOLESTEROL**

- 1996-10-23
- \*BT1 sterols
  - RT lipids
  - RT myelin

**CHOLIC ACID**

- \*BT1 bile acids

**CHOLINE**

- \*BT1 alcohols
- \*BT1 lipotropic factors
- \*BT1 quaternary ammonium compounds
- RT acetylcholine
- RT lecithins
- RT lipids

**CHOLINESTERASE**

- Code number 3.1.1.7 and 3.1.1.8.*
- \*BT1 carboxylesterases
  - RT acetylcholine

**CHONDRITES**

- \*BT1 stone meteorites

**CHONDROITIN**

- \*BT1 mucopolysaccharides
- RT mucoproteins

**chondrosarcomas**

- USE sarcomas
- USE skeletal diseases

**CHOOZ-A REACTOR**

- Electricite de France, Chooz, Ardennes, France. Permanent shutdown since 1991.*  
(Prior to August 2010 ARDENNES REACTOR was used for this reactor.)
- UF ardennes reactor
  - UF sena reactor
  - \*BT1 pwr type reactors

**CHOOZ-B1 REACTOR**

- INIS: 1984-07-23; ETDE: 1984-09-05*  
*Electricite de France, Chooz, Ardennes, France*  
(Prior to August 2010 ARDENNES B-1 REACTOR was used for this reactor.)
- UF ardennes b-1 reactor
  - \*BT1 pwr type reactors

**CHOOZ-B2 REACTOR**

- 2004-05-11  
*Electricite de France, Chooz, Ardennes, France*  
(Prior to August 2010 ARDENNES B-2 REACTOR was used for this reactor.)
- UF ardennes b-2 reactor
  - \*BT1 pwr type reactors

**choppers (beam)**

- INIS: 2000-04-12; ETDE: 1979-05-03*
- USE beam pulsers

**choppers (neutron)**

- USE neutron choppers

**chordates**

- INIS: 2000-04-12; ETDE: 1981-06-15*
- USE vertebrates

**chorioallantoic membrane**

- USE fetal membranes

**choroid**

- USE uvea

**christmas trees**

- INIS: 2000-04-12; ETDE: 1986-02-21*  
*Assemblies of valves, tees, crosses, and other fittings at wellheads, used to control oil or gas production and to give access to the well tubing.*
- USE wellheads

**CHROMATES**

- Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*
- \*BT1 chromium compounds
  - BT1 oxygen compounds
  - RT chromic acid
  - RT chromium oxides

**CHROMATIC ABERRATIONS**

- RT beam optics

**chromatid deletions**

- USE chromosomal aberrations

**CHROMATIDS**

- RT chromatid
- RT chromosomes
- RT human chromosomes
- RT sister chromatid exchanges

**CHROMATIN**

- 1995-01-27
- NT1 heterochromatin
  - NT1 nucleosomes
  - NT1 sex chromatin
  - RT achromatic lesions
  - RT cell nuclei
  - RT centromeres
  - RT chromatids
  - RT chromosomes
  - RT human chromosomes

**chromatographic columns**

- INIS: 1984-04-04; ETDE: 1984-05-10*
- USE extraction columns

**CHROMATOGRAPHY**

- UF paper chromatography
- UF partition chromatography
- BT1 separation processes
- NT1 extraction chromatography
- NT1 gas chromatography
- NT1 gel permeation chromatography
- NT1 ion exchange chromatography
- NT1 liquid column chromatography
- NT2 high-performance liquid chromatography
- NT1 radiochromatography
- NT1 supercritical fluid chromatography
- NT1 thermochromatography
- NT1 thin-layer chromatography
- RT counter current

**chrome violet**

- 1996-10-22  
(Prior to March 1997 ALUMINON was used for this concept in ETDE.)
- USE hydroxy acids
  - USE triphenylmethane dyes

**CHROMEL**

- 1996-01-25
- \*BT1 nickel base alloys
  - NT1 alloy-ni60fe24cr16
  - NT2 nichrome
  - NT1 alloy-ni80cr20

**chromel a**

- INIS: 1983-11-07; ETDE: 2002-06-13*
- USE alloy-ni80cr20

**chromel c***INIS: 1983-11-07; ETDE: 2002-06-13*

USE alloy-ni60fe24cr16

**CHROMIC ACID**

- \*BT1 chromium compounds
- \*BT1 inorganic acids
- BT1 oxygen compounds
- RT chromates
- RT chromium oxides

**CHROMITES***1996-07-16*

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 chromium compounds
- BT1 oxygen compounds
- RT chromium oxides

**CHROMIUM**

- \*BT1 transition elements

**CHROMIUM 42***INIS: 1988-11-16; ETDE: 1988-12-02*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**CHROMIUM 43**

- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CHROMIUM 44**

- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**CHROMIUM 45**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 46**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 47**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 48**

- \*BT1 chromium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**CHROMIUM 49**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**CHROMIUM 50**

- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CHROMIUM 50 TARGET***ETDE: 1976-07-09*

- BT1 targets

**CHROMIUM 51**

- \*BT1 chromium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CHROMIUM 52**

- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CHROMIUM 52 REACTIONS***INIS: 1977-04-07; ETDE: 1977-06-02*

- \*BT1 heavy ion reactions

**CHROMIUM 52 TARGET***ETDE: 1976-07-09*

- BT1 targets

**CHROMIUM 53**

- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CHROMIUM 53 TARGET***ETDE: 1976-07-09*

- BT1 targets

**CHROMIUM 54**

- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CHROMIUM 54 REACTIONS***INIS: 1978-02-23; ETDE: 1978-04-28*

- \*BT1 heavy ion reactions

**CHROMIUM 54 TARGET***ETDE: 1976-07-09*

- BT1 targets

**CHROMIUM 55**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**CHROMIUM 56**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**CHROMIUM 56 TARGET***INIS: 1981-07-13; ETDE: 1981-08-04*

- BT1 targets

**CHROMIUM 57**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CHROMIUM 58**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CHROMIUM 59***1980-11-07*

- \*BT1 beta-minus decay radioisotopes

- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CHROMIUM 60***INIS: 1986-08-19; ETDE: 1981-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 61***INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CHROMIUM 62***INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 63***2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 64***2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 65***2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes

**CHROMIUM 66***2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes

**CHROMIUM 67***2007-10-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 68***2009-06-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**CHROMIUM ADDITIONS**

*Alloys containing not more than 1% Cr are listed here.*

- \*BT1 chromium alloys
- NT1 alloy-ni65mo28fe5

NT2 hastelloy b  
 NT1 alloy-zr98sn-2  
 NT2 zircaloy 2  
 NT1 alloy-zr98sn-4  
 NT2 zircaloy 4  
 NT1 steel-crmo  
 NT1 steel-crni  
 NT1 steel-mncumo  
 NT2 steel-astm-a537  
 NT1 steel-ni3cr  
 NT1 steel-nicr  
 NT1 steel-nicrmo  
 NT1 steel-nimocr

**CHROMIUM ALLOYS**

1996-11-13

*Alloys containing more than 1% Cr.*

UF alloy-50kh4n6g12f2v  
 UF alloy-co64cr29w4  
 UF alloy-co66cr26w6  
 UF alloy-ehi 868  
 UF alloy-ehp-567  
 UF alloy-fe48cr24ni24  
 UF alloy-in-519  
 UF alloy-khn60b  
 UF alloy-khn60v  
 UF alloy-ni60cr25w15  
 UF alloy-ni65mo16cr15w4  
 UF alloy-ni78cr16al4  
 UF alloy-vzh98  
 UF in 519  
 UF inconel 702  
 UF manaurite 900  
 UF nickel-chromium steels  
 UF refractaloy  
 UF rezistal  
 UF sichromal alloys  
 UF steel-000kh20n20  
 UF steel-1-kh18n20t3p  
 UF steel-37khn3t  
 UF steel-40kh2n5sm  
 UF steel-kh12n20t3p  
 UF steel-kh18n22v2t2  
 UF steel-khn35vt  
 UF steel-n26kht1  
 UF steel-vzh102  
 UF stellite 156  
 SF alloy-0kh12n13m  
 SF steel-60kh3g8n8v

\*BT1 transition element alloys

NT1 alloy-b-1900  
 NT1 alloy-co36cr22ni22w15fe3  
 NT2 haynes 188 alloy  
 NT1 alloy-co43cr20fe18ni13w3  
 NT2 havar  
 NT1 alloy-co54cr20w15ni10  
 NT2 alloy-hs-25  
 NT2 haynes 25 alloy  
 NT1 alloy-co60cr30w4  
 NT2 stellite 6  
 NT1 alloy-d-979  
 NT1 alloy-fe40ni35cr22  
 NT1 alloy-fe44ni33cr21  
 NT2 incoloy 800h  
 NT1 alloy-fe46ni33cr21  
 NT2 incoloy 800  
 NT2 incoloy 802  
 NT1 alloy-in-102  
 NT1 alloy-khn50mbvyu  
 NT1 alloy-mar-m246  
 NT1 alloy-mn-21  
 NT1 alloy-mo-re-1  
 NT1 alloy-mp35n  
 NT1 alloy-ni41fe40cr16nb3  
 NT2 inconel 706  
 NT1 alloy-ni43fe30cr22mo3  
 NT2 incoloy 825  
 NT1 alloy-ni43fe33cr16mo3  
 NT2 nimonic pe16

NT1 alloy-ni45fe34cr20  
 NT1 alloy-ni46cr23co19ti5al4  
 NT2 alloy-in-939  
 NT1 alloy-ni49cr22fe18mo9  
 NT2 hastelloy x  
 NT1 alloy-ni50co20cr15al5mo5  
 NT2 nimonic 105  
 NT1 alloy-ni50cr22fe18mo9  
 NT2 hastelloy xr  
 NT1 alloy-ni50mo32cr15si3  
 NT1 alloy-ni51cr48  
 NT2 inconel 671  
 NT1 alloy-ni53cr19fe19nb5mo3  
 NT2 inconel 718  
 NT1 alloy-ni54cr22co13mo9  
 NT2 inconel 617  
 NT1 alloy-ni54mo17cr16fe6w4  
 NT2 hastelloy c  
 NT1 alloy-ni55co17cr15mo5al4ti4  
 NT2 astroloy  
 NT1 alloy-ni55cr19co11mo10ti3  
 NT2 rene 41  
 NT1 alloy-ni58cr20co14mo4ti3  
 NT2 waspaloy  
 NT1 alloy-ni59cr20co17ti2  
 NT1 alloy-ni59cr30fe9  
 NT2 inconel 690  
 NT1 alloy-ni60co15cr10al6ti5mo3  
 NT2 alloy-in-100  
 NT1 alloy-ni60fe24cr16  
 NT2 nichrome  
 NT1 alloy-ni61cr16co9al3ti3w3  
 NT2 alloy-in-738  
 NT1 alloy-ni61cr22mo9nb4fe3  
 NT2 inconel 625  
 NT1 alloy-ni61cr23fe14  
 NT1 alloy-ni62cr16mo15fe3  
 NT2 hastelloy s  
 NT1 alloy-ni65cr25mo10  
 NT2 nimonic 86  
 NT1 alloy-ni70mo17cr7fe5  
 NT2 hastelloy n  
 NT2 inor-8  
 NT1 alloy-ni73cr15fe7ti3  
 NT2 inconel x750  
 NT1 alloy-ni73cr20mn3nb3  
 NT2 inconel 82  
 NT1 alloy-ni74cr13al6mo4  
 NT2 inconel 713c  
 NT1 alloy-ni75cr12al6mo5  
 NT2 inconel 713c  
 NT1 alloy-ni76cr15fe8  
 NT2 inconel 600  
 NT1 alloy-ni76cr20ti2  
 NT2 nimonic 80a  
 NT1 alloy-ni77cr20ti2  
 NT1 alloy-ni78cr21  
 NT1 alloy-ni80cr20  
 NT1 alloy-ra-333  
 NT1 alloy-s-590  
 NT1 alloy-s-816  
 NT1 alloy-ti78cr11mo7al3  
 NT1 alloy-ti88mo8al3  
 NT1 alloy-ti91al5cr2  
 NT1 alloy-v-36  
 NT1 alloy-v87cr9fe3  
 NT1 ascology  
 NT1 chromium additions  
 NT2 alloy-ni65mo28fe5  
 NT3 hastelloy b  
 NT2 alloy-zr98sn-2  
 NT3 zircaloy 2  
 NT2 alloy-zr98sn-4  
 NT3 zircaloy 4  
 NT2 steel-crmo  
 NT2 steel-crni  
 NT2 steel-mncumo  
 NT3 steel-astm-a537  
 NT2 steel-ni3cr

NT2 steel-nicr  
 NT2 steel-nicrmo  
 NT2 steel-nimocr  
 NT1 chromium base alloys  
 NT2 alloy-mo-re-2  
 NT1 chromium-nickel steels  
 NT2 alloy-d-9  
 NT2 carpenter  
 NT2 chromium-nickel-molybdenum steels  
 NT3 alloy-m-813  
 NT3 steel-cr11ni10mo2ti-1  
 NT3 steel-cr15ni15motib  
 NT3 steel-cr16ni13monbv  
 NT3 steel-cr16ni15mo3nb  
 NT3 steel-cr16ni16monb  
 NT3 steel-cr16ni8mo2  
 NT4 stainless steel-16-8-2  
 NT3 steel-cr16ni9mo2  
 NT3 steel-cr17ni12mo3  
 NT4 stainless steel-316  
 NT3 steel-cr17ni12mo3-1  
 NT4 stainless steel-316l  
 NT4 stainless steel-zcnd17-13  
 NT3 steel-cr17ni12monb  
 NT3 steel-cr17ni13mo2ti  
 NT3 steel-cr17ni13mo3ti  
 NT3 steel-ni26cr15ti2movalb  
 NT4 alloy-a-286  
 NT2 durco  
 NT2 enduro  
 NT2 stainless steel-17-7ph  
 NT2 stainless steel-303  
 NT2 stainless steel-329  
 NT2 stainless steel-ph-15-7-mo  
 NT2 steel-cr17ni13  
 NT2 steel-cr17ni7  
 NT3 stainless steel-301  
 NT2 steel-cr18ni10  
 NT3 stainless steel-18-10  
 NT2 steel-cr18ni10-1  
 NT2 steel-cr18ni10ti  
 NT3 stainless steel-321  
 NT2 steel-cr18ni11  
 NT3 steel-x6crni1811  
 NT2 steel-cr18ni11nb  
 NT3 stainless steel-347  
 NT2 steel-cr18ni11nbco  
 NT3 stainless steel-348  
 NT2 steel-cr18ni12  
 NT3 stainless steel-305  
 NT2 steel-cr18ni12ti  
 NT2 steel-cr18ni8  
 NT3 stainless steel-18-8  
 NT2 steel-cr18ni9  
 NT3 stainless steel-302  
 NT2 steel-cr18ni9ti  
 NT2 steel-cr19ni10  
 NT3 stainless steel-304  
 NT2 steel-cr19ni10-1  
 NT3 stainless steel-304l  
 NT2 steel-cr20ni11  
 NT3 stainless steel-308  
 NT2 steel-cr20ni11-1  
 NT3 stainless steel-308l  
 NT2 steel-cr23ni14  
 NT3 stainless steel-309  
 NT3 stainless steel-309s  
 NT2 steel-cr23ni18  
 NT2 steel-cr25ni20  
 NT3 alloy-hk-40  
 NT3 stainless steel-310  
 NT2 steel-ni25cr20  
 NT3 stainless steel-20-25  
 NT2 steel-ni36cr12ti3al-1  
 NT2 timken alloys  
 NT1 chromium steels  
 NT2 chromium-molybdenum steels

**NT3** chromium-nickel-molybdenum steels  
**NT4** alloy-m-813  
**NT4** steel-cr11ni10mo2ti-1  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr16ni9mo2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-1  
**NT5** stainless steel-3161  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-ni26cr15ti2mova1b  
**NT5** alloy-a-286  
**NT2** magnet steel-ks  
**NT2** miduale  
**NT2** stainless steel-406  
**NT2** steel-cr10mo2  
**NT2** steel-cr12  
**NT3** stainless steel-403  
**NT2** steel-cr12moniv  
**NT2** steel-cr12mov  
**NT3** alloy-ht-9  
**NT2** steel-cr13  
**NT3** stainless steel-410  
**NT2** steel-cr13al  
**NT3** stainless steel-405  
**NT2** steel-cr16  
**NT3** stainless steel-430  
**NT2** steel-cr16ni  
**NT2** steel-cr17cu4ni4nb-1  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17mo  
**NT3** stainless steel-440  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr18  
**NT2** steel-cr25  
**NT3** stainless steel-446  
**NT2** steel-cr9mo  
**NT2** steel-cr9monbv  
**NT1** colmonoy  
**NT1** discaloy  
**NT1** ge 2541  
**NT1** hoskins 875  
**NT1** illium  
**NT1** incoloy 901  
**NT1** kanthal  
**NT1** konel  
**NT1** magnesium alloy-zr  
**NT1** misco metal  
**NT1** ni-hard  
**NT1** ni-o-nel  
**NT1** microbraz 50  
**NT1** nimonic 115  
**NT1** rene-100  
**NT1** rene 80  
**NT1** rene 95  
**NT1** sicromo 9m  
**NT1** steel-cd-4mcu  
**NT1** steel-cr21mn9ni6  
**NT2** stainless steel-21-6-9  
**NT1** steel-cr2mo  
**NT2** steel-astm-a542  
**NT1** steel-cr2moninb  
**NT1** steel-cr2mov  
**NT1** steel-cr2nimov  
**NT1** steel-cr5mo  
**NT1** steel-cralnimo  
**NT1** steel-crmov  
**NT1** steel-ni3crmo  
**NT2** steel-astm-a543  
**NT1** steel-ni3crmov

**NT1** steel-ni4crw  
**NT1** supertherm  
**NT1** sweetalloy  
**NT1** td-nickel chromium  
**NT1** tophet  
**NT1** tribaloy 400  
**NT1** tribaloy 800  
**NT1** udimet alloys  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** udimet 500  
**NT1** vitallium

**CHROMIUM BASE ALLOYS**

\*BT1 chromium alloys  
**NT1** alloy-mo-re-2

**CHROMIUM BORIDES**

\*BT1 borides  
\*BT1 chromium compounds

**CHROMIUM BROMIDES**

\*BT1 bromides  
\*BT1 chromium halides

**CHROMIUM CARBIDES**

\*BT1 carbides  
\*BT1 chromium compounds

**CHROMIUM CHLORIDES**

\*BT1 chlorides  
\*BT1 chromium halides

**CHROMIUM COMPLEXES**

\*BT1 transition element complexes

**CHROMIUM COMPOUNDS**

1996-07-15

BT1 transition element compounds  
**NT1** chromates  
**NT1** chromic acid  
**NT1** chromites  
**NT1** chromium borides  
**NT1** chromium carbides  
**NT1** chromium halides  
**NT2** chromium bromides  
**NT2** chromium chlorides  
**NT2** chromium fluorides  
**NT2** chromium iodides  
**NT1** chromium hydrides  
**NT1** chromium hydroxides  
**NT1** chromium nitrates  
**NT1** chromium nitrides  
**NT1** chromium oxides  
**NT1** chromium perchlorates  
**NT1** chromium phosphates  
**NT1** chromium selenides  
**NT1** chromium silicates  
**NT1** chromium silicides  
**NT1** chromium sulfates  
**NT1** chromium sulfides  
**NT1** chromium tellurides  
**NT1** dichromates

**CHROMIUM FLUORIDES**

\*BT1 chromium halides  
\*BT1 fluorides

**CHROMIUM HALIDES**

2012-07-19

\*BT1 chromium compounds  
\*BT1 halides  
**NT1** chromium bromides  
**NT1** chromium chlorides  
**NT1** chromium fluorides  
**NT1** chromium iodides

**CHROMIUM HYDRIDES**

1978-07-03

\*BT1 chromium compounds  
\*BT1 hydrides

**CHROMIUM HYDROXIDES**

\*BT1 chromium compounds  
\*BT1 hydroxides

**CHROMIUM IODIDES**

\*BT1 chromium halides  
\*BT1 iodides

**CHROMIUM IONS**

\*BT1 ions

**CHROMIUM ISOTOPES**

1999-07-16

BT1 isotopes  
**NT1** chromium 42  
**NT1** chromium 43  
**NT1** chromium 44  
**NT1** chromium 45  
**NT1** chromium 46  
**NT1** chromium 47  
**NT1** chromium 48  
**NT1** chromium 49  
**NT1** chromium 50  
**NT1** chromium 51  
**NT1** chromium 52  
**NT1** chromium 53  
**NT1** chromium 54  
**NT1** chromium 55  
**NT1** chromium 56  
**NT1** chromium 57  
**NT1** chromium 58  
**NT1** chromium 59  
**NT1** chromium 60  
**NT1** chromium 61  
**NT1** chromium 62  
**NT1** chromium 63  
**NT1** chromium 64  
**NT1** chromium 65  
**NT1** chromium 66  
**NT1** chromium 67  
**NT1** chromium 68

**CHROMIUM-MOLYBDENUM STEELS**

1994-09-30

*Steels containing Cr and Mo as main alloying elements; Cr content is higher than Mo content.*

(Until November 1983 this was a valid descriptor. From November 1983 until September 1994 the concept was indexed to CHROMIUM ALLOYS, MOLYBDENUM ALLOYS and the most specific appropriate term from the STEELS hierarchy.)

UF steel-15khg2sfmr

UF steel-20khmf

UF steel-2kh8v8m2k8

UF steel-38kh5msfa

UF steel-z10cdv7

\*BT1 chromium steels

\*BT1 molybdenum alloys

**NT1** chromium-nickel-molybdenum steels

**NT2** alloy-m-813

**NT2** steel-cr11ni10mo2ti-1

**NT2** steel-cr15ni15motib

**NT2** steel-cr16ni13monbv

**NT2** steel-cr16ni15mo3nb

**NT2** steel-cr16ni16monb

**NT2** steel-cr16ni8mo2

**NT3** stainless steel-16-8-2

**NT2** steel-cr16ni9mo2

**NT2** steel-cr17ni12mo3

**NT3** stainless steel-316

**NT2** steel-cr17ni12mo3-1

**NT3** stainless steel-3161

**NT3** stainless steel-zcnd17-13

**NT2** steel-cr17ni12monb

**NT2** steel-cr17ni13mo2ti

**NT2** steel-cr17ni13mo3ti

**NT2** steel-ni26cr15ti2mova1b

NT3 alloy-a-286

**CHROMIUM-NICKEL-MOLYBDENUM STEELS**

INIS: 1996-11-13; ETDE: 1988-12-16  
Cr-Ni steels containing Mo.

- UF steel-13cr6nimo
- UF steel-42kh2gsum
- UF steel-cr13ni6mo-1
- UF steel-ehp699
- UF steel-kh14k9n6m5
- UF steel-kh15n20m2t2
- UF steel-kh17n5m3
- UF steel-ni17cr14moti-1

\*BT1 chromium-molybdenum steels  
\*BT1 chromium-nickel steels

- NT1 alloy-m-813
- NT1 steel-cr11ni10mo2ti-1
- NT1 steel-cr15ni15motib
- NT1 steel-cr16ni13monbv
- NT1 steel-cr16ni15mo3nb
- NT1 steel-cr16ni16monb
- NT1 steel-cr16ni8mo2
- NT2 stainless steel-16-8-2
- NT1 steel-cr16ni9mo2
- NT1 steel-cr17ni12mo3
- NT2 stainless steel-316
- NT1 steel-cr17ni12mo3-1
- NT2 stainless steel-316l
- NT2 stainless steel-zcnd17-13
- NT1 steel-cr17ni12monb
- NT1 steel-cr17ni13mo2ti
- NT1 steel-cr17ni13mo3ti
- NT1 steel-ni26cr15ti2moyalb
- NT2 alloy-a-286

**CHROMIUM-NICKEL STEELS**

1996-11-13

High alloy steels containing Cr and Ni as important alloying elements.  
(Prior to November 1983 this descriptor included only steels in which the Cr content was higher than the Ni content.)

- UF stainless steel-330
- UF stainless steel-z2cn18-10n
- UF stainless steel-z3cmn18-8-6n
- UF stainless steel-z3cnd18-13
- UF stainless steel-z6cnd17-13b
- UF stainless steel-z6cnd17-13b
- UF stainless steel-z6cnt18-12b
- UF steel-000kh18n13
- UF steel-000kh20n16ag6
- UF steel-03kh11n10m2tk6
- UF steel-0kh19nt
- UF steel-18kh16n6
- UF steel-1kh16n14v2br ehp17
- UF steel-1kh16n4b
- UF steel-20kh2n2m
- UF steel-20khn3mf
- UF steel-2kh18n8v2
- UF steel-3kh15n13yu3
- UF steel-40kh13n8g8
- UF steel-4kh12n8g8mfb
- UF steel-4kh14nv2m
- UF steel-cr13mn8ni8
- UF steel-din-1-4449
- UF steel-kh14n8yum2
- UF steel-kh15n7yum2
- UF steel-kh15n9yu
- UF steel-kh18n8
- UF steel-ni36cr18

\*BT1 chromium alloys

\*BT1 nickel alloys

\*BT1 stainless steels

NT1 alloy-d-9

NT1 carpenter

NT1 chromium-nickel-molybdenum steels

- NT2 alloy-m-813
- NT2 steel-cr11ni10mo2ti-1
- NT2 steel-cr15ni15motib

NT2 steel-cr16ni13monbv

NT2 steel-cr16ni15mo3nb

NT2 steel-cr16ni16monb

NT2 steel-cr16ni8mo2  
NT3 stainless steel-16-8-2

NT2 steel-cr16ni9mo2

NT2 steel-cr17ni12mo3

NT3 stainless steel-316

NT2 steel-cr17ni12mo3-1

NT3 stainless steel-316l

NT3 stainless steel-zcnd17-13

NT2 steel-cr17ni12monb

NT2 steel-cr17ni13mo2ti

NT2 steel-cr17ni13mo3ti

NT2 steel-ni26cr15ti2moyalb

NT3 alloy-a-286

NT1 durco

NT1 enduro

NT1 stainless steel-17-7ph

NT1 stainless steel-303

NT1 stainless steel-329

NT1 stainless steel-ph-15-7-mo

NT1 steel-cr17ni13

NT1 steel-cr17ni7

NT2 stainless steel-301

NT1 steel-cr18ni10

NT2 stainless steel-18-10

NT1 steel-cr18ni10-1

NT1 steel-cr18ni10ti

NT2 stainless steel-321

NT1 steel-cr18ni11

NT2 steel-x6cmi1811

NT1 steel-cr18ni11nb

NT2 stainless steel-347

NT1 steel-cr18ni11nbco

NT2 stainless steel-348

NT1 steel-cr18ni12

NT2 stainless steel-305

NT1 steel-cr18ni12ti

NT1 steel-cr18ni8

NT2 stainless steel-18-8

NT1 steel-cr18ni9

NT2 stainless steel-302

NT1 steel-cr18ni9ti

NT1 steel-cr19ni10

NT2 stainless steel-304

NT1 steel-cr19ni10-1

NT2 stainless steel-304l

NT1 steel-cr20ni11

NT2 stainless steel-308

NT1 steel-cr20ni11-1

NT2 stainless steel-308l

NT1 steel-cr23ni14

NT2 stainless steel-309

NT2 stainless steel-309s

NT1 steel-cr23ni18

NT1 steel-cr25ni20

NT2 alloy-hk-40

NT2 stainless steel-310

NT1 steel-ni25cr20

NT2 stainless steel-20-25

NT1 steel-ni36cr12ti3al-1

NT1 timken alloys

RT nickel steels

**CHROMIUM NITRATES**

\*BT1 chromium compounds

\*BT1 nitrates

**CHROMIUM NITRIDES**

\*BT1 chromium compounds

\*BT1 nitrides

**CHROMIUM ORES**

BT1 ores

**CHROMIUM OXIDES**

1996-07-15

UF lanthanum chromites

\*BT1 chromium compounds

\*BT1 oxides

RT chromates

RT chromic acid

RT chromites

RT dichromates

**CHROMIUM PERCHLORATES**

INIS: 1983-06-02; ETDE: 1977-04-12

\*BT1 chromium compounds

\*BT1 perchlorates

**CHROMIUM PHOSPHATES**

\*BT1 chromium compounds

\*BT1 phosphates

**CHROMIUM SELENIDES**

INIS: 1976-11-17; ETDE: 1976-08-24

\*BT1 chromium compounds

\*BT1 selenides

**CHROMIUM SILICATES**

\*BT1 chromium compounds

\*BT1 silicates

**CHROMIUM SILICIDES**

1982-04-14

\*BT1 chromium compounds

\*BT1 silicides

**CHROMIUM STEELS**

1996-11-13

High alloy steels containing Cr as main alloying element.

- UF crocar
- UF stainless steel-44ln
- UF steel-0kh21n5t
- UF steel-0kh22n5t
- UF steel-1kh12v2mf
- UF steel-40k14g18f
- UF steel-9khs
- UF steel-cr21ni5ti
- UF steel-cr22ni5ti
- UF steel-cr26ni5mo-1
- UF steel-kh13s2yu2bt
- UF steel-r18

\*BT1 chromium alloys

\*BT1 stainless steels

NT1 chromium-molybdenum steels  
NT2 chromium-nickel-molybdenum steels

NT3 alloy-m-813

NT3 steel-cr11ni10mo2ti-1

NT3 steel-cr15ni15motib

NT3 steel-cr16ni13monbv

NT3 steel-cr16ni15mo3nb

NT3 steel-cr16ni16monb

NT3 steel-cr16ni8mo2

NT4 stainless steel-16-8-2

NT3 steel-cr16ni9mo2

NT3 steel-cr17ni12mo3

NT4 stainless steel-316

NT3 steel-cr17ni12mo3-1

NT4 stainless steel-316l

NT4 stainless steel-zcnd17-13

NT3 steel-cr17ni12monb

NT3 steel-cr17ni13mo2ti

NT3 steel-cr17ni13mo3ti

NT3 steel-ni26cr15ti2moyalb

NT4 alloy-a-286

NT1 magnet steel-ks

NT1 miduale

NT1 stainless steel-406

NT1 steel-cr10mo2

NT1 steel-cr12

NT2 stainless steel-403

NT1 steel-cr12moniv

NT1 steel-cr12mov

NT2 alloy-ht-9

NT1 steel-cr13

NT2 stainless steel-410

NT1 steel-cr13al



- NT2 stainless steel-405
- NT1 steel-cr16
- NT2 stainless steel-430
- NT1 steel-cr16ni
- NT1 steel-cr17cu4ni4nb-1
- NT2 stainless steel-17-4ph
- NT1 steel-cr17mo
- NT2 stainless steel-440
- NT1 steel-cr17ni4mo3
- NT1 steel-cr18
- NT1 steel-cr25
- NT2 stainless steel-446
- NT1 steel-cr9mo
- NT1 steel-cr9monbv

**CHROMIUM SULFATES**

- \*BT1 chromium compounds
- \*BT1 sulfates

**CHROMIUM SULFIDES**

- \*BT1 chromium compounds
- \*BT1 sulfides

**CHROMIUM TELLURIDES**

- INIS: 1978-11-24; ETDE: 1978-06-14
- \*BT1 chromium compounds
- \*BT1 tellurides

**chromizing**

- USE diffusion coating

**chromodynamics**

- INIS: 2000-04-12; ETDE: 1977-11-28
- USE quantum chromodynamics

**chromone**

- INIS: 2000-04-12; ETDE: 1979-10-23
- (Prior to September 1994, this was a valid ETDE descriptor.)
- USE pyrones

**CHROMOPHYCOTA**

- INIS: 1991-12-11; ETDE: 1988-12-20
- \*BT1 algae
- NT1 diatoms
- NT1 fucus
- NT1 laminaria

**CHROMOSOMAL ABERRATIONS**

- 1998-02-16
- UF abnormalities (chromosomal)
- UF chromatid deletions
- UF chromosome aberrations
- UF chromosome exchanges
- UF chromosome fragments
- UF deletions (chromosomal)
- UF reciprocal translocations
- BT1 mutations
- NT1 chromosome breakage
- NT1 sister chromatid exchanges
- RT acrocentric chromosomes
- RT banding techniques
- RT biological indicators
- RT chromosomes
- RT dicentric chromosomes
- RT dna damages
- RT downs syndrome
- RT genetic control
- RT hereditary diseases
- RT heterochromosomes
- RT human chromosomes
- RT karyotype
- RT telomeres

**chromosome aberrations**

- USE chromosomal aberrations

**CHROMOSOME BREAKAGE**

- \*BT1 chromosomal aberrations
- RT heterochromatin

**chromosome exchanges**

- USE chromosomal aberrations

**chromosome fragments**

- USE chromosomal aberrations

**CHROMOSOME LOSSES**

- INIS: 1976-05-05; ETDE: 1976-06-07
- BT1 losses
- RT chromosomes
- RT genetic radiation effects

**CHROMOSOME SORTING**

- INIS: 1988-04-15; ETDE: 1987-04-24
- The physical separation of a karyotype to provide large quantities of an individual chromosome.

- BT1 cytological techniques
- RT cell flow systems
- RT chromosomes
- RT human chromosomes

**CHROMOSOMES**

1997-06-17

- NT1 acrocentric chromosomes
- NT1 dicentric chromosomes
- NT1 heterochromosomes
- NT2 x chromosome
- NT3 human x chromosome
- NT2 y chromosome
- NT3 human y chromosome
- NT1 human chromosomes
- NT2 human chromosome 1
- NT2 human chromosome 12
- NT2 human chromosome 13
- NT2 human chromosome 14
- NT2 human chromosome 15
- NT2 human chromosome 16
- NT2 human chromosome 17
- NT2 human chromosome 18
- NT2 human chromosome 19
- NT2 human chromosome 2
- NT2 human chromosome 21
- NT2 human chromosome 22
- NT2 human chromosome 3
- NT2 human chromosome 5
- NT2 human chromosome 6
- NT2 human chromosome 7
- NT2 human chromosome 8
- NT2 human chromosome 9
- NT2 human x chromosome
- NT2 human y chromosome
- NT2 philadelphia chromosome
- NT1 ring chromosomes
- RT banding techniques
- RT cell nuclei
- RT centromeres
- RT chromatids
- RT chromatin
- RT chromosomal aberrations
- RT chromosome losses
- RT chromosome sorting
- RT contigs
- RT crossing-over
- RT dna
- RT dna repair
- RT gene operons
- RT gene regulation
- RT genes
- RT genetic effects
- RT genetic mapping
- RT in-situ hybridization
- RT karyotype
- RT mitosis
- RT nucleoli
- RT rflps
- RT telomeres

**CHROMOSPHERE**

- \*BT1 solar atmosphere

- RT photosphere
- RT plages
- RT solar flares
- RT sun

**CHROMOTROPIC ACID**

- \*BT1 hydroxy compounds
- \*BT1 sulfonic acids
- RT dyes

**chronic administration**

- USE chronic intake

**CHRONIC EXPOSURE**

- INIS: 1985-12-10; ETDE: 1978-06-14
- For chronic exposure to radiation use CHRONIC IRRADIATION.

- NT1 chronic irradiation
- RT biological effects
- RT biological stress
- RT environmental exposure
- RT toxicity

**CHRONIC INTAKE**

- UF chronic administration
- UF continuous intake
- UF long term intake
- BT1 intake
- RT chronic irradiation

**CHRONIC IRRADIATION**

- UF continuous irradiation
- UF long term irradiation
- UF protracted irradiation
- BT1 chronic exposure
- BT1 irradiation
- RT chronic intake
- RT low dose irradiation
- RT radiation syndrome
- RT temporal dose distributions

**chronic radiation effects**

- USE delayed radiation effects

**CHRONOTRONS**

- 1996-07-08
- (Prior to August 1996 VERNIER CHRONOTRONS was a valid ETDE descriptor.)
- UF vernier chronotrons
- \*BT1 time interval analyzers

**CHRYSENE**

- \*BT1 polycyclic aromatic hydrocarbons

**CHRYSOBERYL**

- INIS: 2000-04-12; ETDE: 1980-06-23
- Beryllium aluminate.
- \*BT1 oxide minerals
- RT aluminium oxides
- RT beryllium oxides

**chrysothamnus nauseosus**

- INIS: 2000-04-12; ETDE: 1982-03-11
- USE shrubs

**CHS TORSATRON**

- 1991-02-11
- National Institute for Fusion Science, Nagoya, Japan.
- UF compact helical system torsatron
- \*BT1 torsatron stellarators

**chubu-1 reactor**

- USE hamaoka-1 reactor

**chubu-2 reactor**

- USE hamaoka-2 reactor

**chubu-3 reactor**

- USE hamaoka-3 reactor

**chubu-4 reactor**

1992-11-03

USE hamaoka-4 reactor

**chubu-5 reactor**

2000-01-31

USE hamaoka-5 reactor

**chugoku electric power company reactor**

1993-11-04

USE shimane-1 reactor

**CHUKCHI SEA**

INIS: 1997-08-20; ETDE: 1985-07-19

*Part of Arctic Ocean north of Bering Strait between Asia and North America.*

\*BT1 arctic ocean

RT alaska

RT arctic regions

RT siberia

**chukotka reactor**

USE bilibin reactor

**CHYLOMICRONS**

RT blood plasma

RT lipids

**CHYMOTRYPSIN**

Code numbers 3.4.21.1 and 3.4.21.2.

\*BT1 serine proteinases

RT digestion

RT pancreas

**CIAE**

INIS: 1992-08-05; ETDE: 1992-09-10

UF china institute of atomic energy

\*BT1 chinese organizations

RT china

RT mnsr-ciae reactor

**cigarettes**

INIS: 2000-04-12; ETDE: 1980-01-15

SEE tobacco products

**cii computers**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE digital computers

**CILIATA**

INIS: 1993-07-13; ETDE: 1981-06-17

\*BT1 protozoa

NT1 paramecium

NT1 tetrahymena

**CIM MODEL**

INIS: 1978-08-14; ETDE: 1978-04-27

*Constituent interchange model shows importance of forces involving the interchange of constituents of hadrons and accounts for very strong binding force in color singlet states.*

UF constituent interchange model

\*BT1 composite models

RT exchange interactions

RT hadrons

RT quantum chromodynamics

RT quark-hadron interactions

RT strong interactions

**cimarron plutonium plant**

INIS: 1994-08-12; ETDE: 2002-06-13

USE cimarron plutonium production plant

**CIMARRON PLUTONIUM PRODUCTION PLANT**

1994-08-12

(Until August 1994 this descriptor in INIS was spelled CIMARRON PLUTONIUM PLANT.)

UF cimarron plutonium plant

\*BT1 fuel fabrication plants

BT1 industrial plants

RT cimarron uranium fuel plant

**CIMARRON URANIUM FUEL PLANT**

INIS: 1994-08-12; ETDE: 1975-11-28

(Until August 1994 this descriptor was spelled CIMARRON URANIUM PLANT.)

UF cimarron uranium plant

\*BT1 fuel fabrication plants

BT1 industrial plants

RT cimarron plutonium production plant

**cimarron uranium plant**

INIS: 1994-08-12; ETDE: 1976-05-17

(Until August 1994 this was a valid descriptor.)

USE cimarron uranium fuel plant

**cinchonine**

1996-07-18

See also ANTIMICROBIAL AGENTS and ANTIPYRETICS.

(Until July 1996 this was a valid descriptor.)

USE alkaloids

**CINDA**

Computer Index of Nuclear Data.

BT1 information systems

RT cross sections

RT data

RT neutrons

RT nuclear data collections

RT nuclear reactions

**CINEMATOGRAPHY**

INIS: 1986-01-21; ETDE: 1986-03-04

*Motion picture photography.*

BT1 photography

**cinnabar**

INIS: 2000-04-12; ETDE: 1977-03-08

*HgS mineral.*

(Prior to February 1995, this was a valid ETDE descriptor.)

USE sulfide minerals

**CINNAMIC ACID**

UF phenylacrylic acid-beta

\*BT1 monocarboxylic acids

**cir reactor**

USE cirus reactor

**circadian variations**

USE daily variations

**CIRCE DEVICES**

1996-07-18

\*BT1 magnetic mirrors

**CIRCLE CLIFFS DEPOSIT**

INIS: 2000-04-12; ETDE: 1983-07-07

\*BT1 oil sand deposits

RT oil sands

RT utah

**CIRCUIT BREAKERS**

UF breakers (circuit)

\*BT1 electrical equipment

BT1 equipment protection devices

RT current limiters

RT electric fuses

RT electronic circuits

RT insulating oils

RT lightning arresters

RT switches

RT switching circuits

**CIRCUIT THEORY**

RT electronic circuits

RT network analysis

**circuits (electronic)**

USE electronic circuits

**circuits (magnetic)**

USE magnetic circuits

**CIRCULAR CONFIGURATION**

BT1 configuration

**circular point collectors**

INIS: 1992-03-30; ETDE: 1978-10-25

USE parabolic dish collectors

**circulating fluidized bed boilers**

INIS: 2000-04-12; ETDE: 1993-01-20

USE circulating systems

USE fluidized bed boilers

**circulating fluidized beds**

INIS: 1993-02-18; ETDE: 2002-06-13

USE circulating systems

USE fluidized beds

**CIRCULATING SYSTEMS**

INIS: 1993-02-18; ETDE: 1979-11-07

*Fluid systems in which the process fluid is taken from and pumped back into the system.*

UF circulating fluidized bed boilers

UF circulating fluidized beds

NT1 self-pumping systems

RT coolant loops

RT pumping

RT pumps

RT thermosiphon effect

**circulation (blood)**

USE blood circulation

**CIRENE REACTOR***Cirene, Latina, Italy. Construction cancelled in 1988.*

\*BT1 hwlwr type reactors

\*BT1 pressure tube reactors

\*BT1 thermal reactors

**CIRUS REACTOR***Bhabha Atomic Research Centre, Trombay, Maharashtra, India. permanent shutdown since 2010.*

UF canada-india reactor

UF cir reactor

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 water cooled reactors

**CISE**

UF centro informazioni studi esperienze

\*BT1 italian organizations

**cistrons**

USE genes

**cit synchrotron**

1996-07-18

*Caltech Synchrotron.*

USE synchrotrons

**cities**

USE urban areas

**CITRATE PROCESS**

2000-04-12

Process for clean up of tail gas emissions from sulfur recovery plants, e.g, Claus Process plant.

\*BT1 desulfurization

**CITRATES**

UF sodium citrates

BT1 carboxylic acid salts

RT citric acid esters

**citrex process**

INIS: 2000-04-12; ETDE: 1983-03-23

Flue gas desulfurization process licensed by Peabody.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

USE waste processing

**CITRIC ACID**

\*BT1 hydroxy acids

**CITRIC ACID ESTERS**

\*BT1 carboxylic acid esters

RT citrates

**CITROVORUM FACTOR**

UF folic acid

UF leucovorin

RT folic acid

RT vitamin b group

**CITRULLINE**

UF ureidoaminovaleric acid

\*BT1 amino acids

RT urea

**CITRUS**

\*BT1 magnoliopsida

RT fruit trees

RT grapefruits

RT lemons

RT oranges

**CIVAUX-1 REACTOR**

2004-05-11

Electricite de France, Civaux, Vienne, France

\*BT1 pwr type reactors

**CIVAUX-2 REACTOR**

2004-05-11

Electricite de France, Civaux, Vienne, France

\*BT1 pwr type reactors

**CIVEX PROCESS**

INIS: 1978-11-24; ETDE: 1978-06-14

\*BT1 reprocessing

RT fbr type reactors

RT nuclear materials diversion

RT plutonium recycle

RT solvent extraction

**CIVIL DEFENSE**

BT1 national defense

RT evacuation

RT human populations

RT local fallout

RT nuclear explosions

RT nuclear weapons

RT population relocation

RT radiation protection

RT safety

RT shelters

RT subsurface structures

**CIVIL ENGINEERING**

INIS: 1991-10-01; ETDE: 1982-08-11

BT1 engineering

**CIVIL LIABILITY**

BT1 liabilities

RT bcoclmcnm

RT bcolons

RT bcstpc

RT pcotpl

RT price-anderson act

RT solas convention

RT vcoclnd

RT workmens compensation

**CLADDING**

For the process only.

\*BT1 surface coating

RT accident-tolerant nuclear fuels

RT canning

RT decladding

RT fuel cans

RT hard facing

RT plating

RT rolling

**cladding-fuel interactions**

USE fuel-cladding interactions

**CLAISEN CONDENSATION**

BT1 chemical reactions

RT esters

**CLAMS**

INIS: 1986-12-18; ETDE: 1981-06-17

\*BT1 molluscs

**CLARKEITE**

\*BT1 oxide minerals

\*BT1 uranium minerals

RT potassium oxides

RT sodium oxides

RT uranium oxides

**clasp device**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE stellarators

**CLASSICAL MECHANICS**

UF newton mechanics

BT1 mechanics

RT hamiltonian function

**CLASSIFICATION**

INIS: 1999-02-12; ETDE: 1976-04-19

NT1 standard industrial classification

RT particle size classifiers

RT sorting

**CLASSIFIED INFORMATION**

INIS: 1991-12-11; ETDE: 1980-04-14

BT1 information

RT cyber attacks

RT declassification

RT national security

RT secrecy protection

RT security

**CLATHRATES**

UF inclusion complexes

UF intercalates

UF occlusion complexes

RT adducts

RT crystals

RT matrix isolation

RT organic compounds

RT rare gases

**CLAUS PROCESS**

2000-04-12

A process for recovery of elemental sulfur from hydrogen sulfide gas. Oxygen reacts with the hydrogen sulfide to produce dry sulfur and steam.

\*BT1 desulfurization

RT ucap process

**claviceps**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE eumycota

USE parasites

**CLAYS**

\*BT1 silicate minerals

NT1 attapulgite

NT1 bentonite

NT1 boom clay

NT1 clinoptilolite

NT1 fullers earth

NT1 illite

NT1 kaolin

NT1 montmorillonite

NT1 opalinus clay

NT1 sepiolite

NT1 smectite

RT adobe

RT alluvial deposits

RT ceramics

RT decontamination

RT ground water

RT loam

RT marlstone

RT radionuclide migration

RT sand

RT shales

RT soils

**CLEAN AIR ACTS**

INIS: 1994-01-24; ETDE: 1993-08-10

(Prior to November 1991 this concept in ETDE was indexed to CLEAN AIR ACT.

From November 1991 to August 1993 this concept in ETDE was indexed to US CLEAN AIR ACT.)

UF us clean air act

\*BT1 pollution laws

RT air pollution

RT air quality

RT environment

RT environmental policy

RT pollution regulations

**CLEAN COKE PROCESS**

INIS: 2000-04-12; ETDE: 1976-03-11

Process that combines carbonization and hydrogenation reactions to convert nonmetallurgical-grade coal to low-sulfur metallurgical coke, chemical feedstocks, and liquid and gaseous fuels. Carbonization is carried out at 650 to 760 degrees C with a fluidizing gas containing 33% hydrogen.

RT carbonization

RT coal liquefaction

RT coking

RT hydrogenation

**clean fuel from coal process**

INIS: 2000-04-12; ETDE: 1976-08-24

USE cffc process

**CLEAN ROOMS**

INIS: 1983-02-03; ETDE: 1979-08-07

RT contamination

RT controlled atmospheres

RT remote handling

**CLEAN WATER ACTS**

INIS: 1994-01-24; ETDE: 1993-08-10

(Prior to April 1980 this concept in ETDE was indexed to FEDERAL WATER POLLUTION CONTROL ACT. From April 1980 to December 1991 this was a valid ETDE descriptor. From December 1991 to August 1993 this concept in ETDE was indexed to US CLEAN WATER ACT.)

UF federal water pollution control act

UF *fwpca*  
 UF *us clean water act*  
 UF *us water pollution control act*  
 \*BT1 pollution laws  
 RT environment  
 RT environmental policy  
 RT pollution regulations  
 RT water pollution  
 RT water quality

**cleanair process**

2000-04-12

*Process for recovery of 99.9% of S from Claus plant tail gas, leaving no more than 200 ppm sulfur dioxide equivalent in the effluent.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**CLEANING**

NT1 air cleaning  
 NT1 decontamination  
 NT1 surface cleaning  
 NT1 washing  
 RT coal preparation  
 RT coolant cleanup systems  
 RT deashing  
 RT decarbonization  
 RT detergents  
 RT dishwashers  
 RT electropolishing  
 RT heavy media separation  
 RT purification  
 RT scrubbing  
 RT stains

**CLEARANCE**

NT1 blood-plasma clearance  
 NT1 excretion  
 NT2 exhalation  
 NT2 lung clearance  
 NT2 renal clearance  
 RT nuclear medicine

**clearance (renal)**

2000-04-12

USE renal clearance

**CLEAVAGE**

BT1 microstructure  
 RT crystal growth  
 RT crystallization

**CLEBSCH-GORDAN COEFFICIENTS**

UF *3j-symbols*  
 RT angular momentum  
 RT group theory  
 RT racah coefficients  
 RT wigner coefficients

**CLEMENTINE REACTOR**

*LASL, Los Alamos, New Mexico, USA. Shut down in 1953.*

\*BT1 fast reactors  
 \*BT1 mercury cooled reactors  
 \*BT1 plutonium reactors  
 \*BT1 research reactors

**CLEO STELLARATOR**

\*BT1 stellarators  
 RT proto-cleo stellarators

**clerical personnel**

INIS: 2000-04-12; ETDE: 1980-08-25

(Prior to April 1994, this was a valid ETDE descriptor.)

USE personnel

**CLEVELAND**

2000-04-12

\*BT1 ohio  
 BT1 urban areas

**clic**

2015-10-02

USE compact linear collider

**CLIFFORD ALGEBRA**

RT group theory  
 RT spinors

**climate feedback**

2013-12-13

USE climatic change  
 USE feedback

**CLIMATE MODELS**

INIS: 1991-12-18; ETDE: 1986-01-24

BT1 mathematical models  
 RT ambient temperature  
 RT atmospheric circulation  
 RT box models  
 RT climates  
 RT general circulation models  
 RT meteorology  
 RT paleoclimatology  
 RT seasonal variations

**CLIMATES**

NT1 microclimates  
 RT antarctic regions  
 RT arctic regions  
 RT atmospheric circulation  
 RT atmospheric precipitations  
 RT boreal regions  
 RT climate models  
 RT degree days  
 RT deserts  
 RT droughts  
 RT little ice age  
 RT meteorology  
 RT nuclear winter  
 RT outdoors  
 RT paleoclimatology  
 RT phenology  
 RT seasons  
 RT temperate zones  
 RT tropical regions  
 RT tundra  
 RT weather  
 RT wind  
 RT wmo

**CLIMATIC CHANGE**

INIS: 1999-05-05; ETDE: 1991-10-28

UF *climate feedback*  
 UF *global climate change*  
 NT1 greenhouse effect  
 RT acid rain  
 RT ambient temperature  
 RT emissions tax  
 RT emissions trading  
 RT environmental protection  
 RT kyoto protocol  
 RT ozone layer  
 RT paleoclimatology  
 RT paris agreement  
 RT rio declaration  
 RT unfccc

**CLINCH RIVER**

1997-06-19

\*BT1 rivers  
 RT tennessee  
 RT tennessee valley region

**CLINCH RIVER BREEDER REACTOR**

*Project Management Corp./US DOE/TVA, Oak Ridge, Tennessee, USA. Canceled in 1983 after site preparation but before construction began.*

UF *crbr reactor*  
 \*BT1 lmfbr type reactors

\*BT1 power reactors  
 \*BT1 sodium cooled reactors  
 RT enriched uranium reactors  
 RT plutonium reactors

**CLINICAL TRIALS**

2002-08-01

BT1 testing  
 RT diagnostic uses  
 RT drugs

**CLINOPTILOLITE**

*A zeolite mineral.*

\*BT1 clays  
 \*BT1 zeolites

**CLINTON-1 REACTOR**

*AmerGen Energy Co., LLC, Clinton, Illinois, USA.*

\*BT1 bwr type reactors

**CLINTON-2 REACTOR**

*Illinois Power Co., Clinton, Illinois, USA.*

*Canceled in 1983 before construction began.*

\*BT1 bwr type reactors

**clinton p. anderson meson physics facility**

2000-04-12

USE lampf linac

**clipping circuits**

USE pulse shapers

**CLONE CELLS**

BT1 cell cultures  
 RT animal cells  
 RT cloning  
 RT hela cells  
 RT in vitro  
 RT l cells  
 RT monoclonal antibodies  
 RT plant cells  
 RT plaque formation

**CLONING**

INIS: 1977-10-17; ETDE: 1977-11-10

NT1 dna-cloning  
 NT1 vegetative propagation  
 RT cell cultures  
 RT cell proliferation  
 RT clone cells  
 RT colony formation

**close-in fallout**

USE local fallout

**CLOSED CONFIGURATIONS**

1996-01-24

UF *magnetic traps (closed)*  
 BT1 magnetic field configurations  
 NT1 minimum average-b configurations  
 NT1 multipolar configurations  
 NT2 hexapolar configurations  
 NT2 octupolar configurations  
 NT2 quadrupolar configurations  
 NT1 toroidal configuration  
 RT closed plasma devices

**CLOSED-CYCLE COOLING SYSTEMS**

1977-09-06

UF *dry-type cooling towers*  
 \*BT1 cooling systems  
 RT closed-cycle systems  
 RT coolant loops  
 RT cooling towers  
 RT reactor cooling systems

**CLOSED-CYCLE MHD GENERATORS**

\*BT1 mhd generators

- NT1 liquid-metal mhd generators  
RT open-cycle mhd generators

**CLOSED-CYCLE SYSTEMS**

INIS: 1999-05-05; ETDE: 1975-12-16  
RT closed-cycle cooling systems

**CLOSED FUEL CYCLE**

2018-03-05

Nuclear fuel cycle with reprocessed or partly reused spent fuel.

- BT1 fuel cycle  
NT1 plutonium recycle  
NT1 uranium recycle  
RT away-from-reactor storage  
RT open fuel cycle  
RT reprocessing  
RT spent fuels

**CLOSED-LOOP CONTROL**

INIS: 1976-09-06; ETDE: 1976-11-01  
With feedback.

- BT1 control  
RT feedback

**CLOSED PLASMA DEVICES**

- BT1 thermonuclear devices  
NT1 astron  
NT1 blascon devices  
NT1 compact torus  
NT2 field-reversed theta pinch devices  
NT2 rotamak devices  
NT1 heliotron  
NT1 internal ring devices  
NT2 fm devices  
NT2 levitron devices  
NT2 lm devices  
NT2 spherator  
NT2 tokapole devices  
NT2 tornado devices  
NT1 lhd device  
NT1 stellarators  
NT2 cleo stellarator  
NT2 heliac stellarators  
NT3 h-1 heliac  
NT3 hsx stellarator  
NT3 sheila heliac  
NT3 tj-ii heliac  
NT2 heliotron-e stellarator  
NT2 ims stellarator  
NT2 jipp stellarator  
NT2 jippt-2 device  
NT2 l-2 stellarator  
NT2 proto-cleo stellarators  
NT2 sirius device  
NT2 stellarator model c  
NT2 torsatron stellarators  
NT3 atf torsatron  
NT3 chs torsatron  
NT3 tj-ii torsatron  
NT3 vint torsatron  
NT2 uragan stellarator  
NT2 wega stellarator  
NT2 wendelstein-2b stellarator  
NT2 wendelstein-7 stellarator  
NT1 tokamak devices  
NT2 act devices  
NT2 aditya tokamak  
NT2 alcator device  
NT2 asdex tokamak  
NT2 atc devices  
NT2 castor tokamak  
NT2 columbia high-beta tokamak  
NT2 compact ignition tokamak  
NT2 compass-d tokamak  
NT2 continuous current tokamak  
NT2 ct-6b tokamak  
NT2 dante tokamak  
NT2 dite tokamak  
NT2 doublet-2 device

- NT2 doublet-3 device  
NT2 etf tokamak  
NT2 ft tokamak  
NT2 hl-1 tokamak  
NT2 hl-1m tokamak  
NT2 hl-2 tokamak  
NT2 hl-2a tokamak  
NT2 ht-2 tokamak  
NT2 ht-6b tokamak  
NT2 ht-6m tokamak  
NT2 ht-7 tokamak  
NT2 ht-7u tokamak  
NT2 hybtok tokamaks  
NT2 ignition spherical torus  
NT2 intor tokamak  
NT2 isttok tokamak  
NT2 isx tokamak  
NT2 iter tokamak  
NT2 jet tokamak  
NT2 jft-2 tokamak  
NT2 jft-2a tokamak  
NT2 jft-2m tokamak  
NT2 jippt-2 device  
NT2 jt-60 tokamak  
NT2 jt-60u tokamak  
NT2 jxfr tokamak  
NT2 kt-2 tokamak  
NT2 lt-3 tokamak  
NT2 lt-4 tokamak  
NT2 mt-1 tokamak  
NT2 mtx tokamak  
NT2 net tokamak  
NT2 ormak devices  
NT2 pbx devices  
NT2 pdx devices  
NT2 petula tokamak  
NT2 phaedrus-t tokamak  
NT2 plt devices  
NT2 pulsator devices  
NT2 rtp tokamak  
NT2 sinp tokamak  
NT2 spheromak devices  
NT3 cdx-u spheromak  
NT3 ctz spheromak  
NT3 globus-m spheromak  
NT3 mast tokamak  
NT3 nstx device  
NT3 sspcx device  
NT3 sunist spheromak  
NT3 ts-3 device  
NT2 st tokamak  
NT2 starfire tokamak  
NT2 start tokamak  
NT2 stor-m tokamak  
NT2 stx devices  
NT2 surmac tokamak  
NT2 t-10 tokamak  
NT2 t-14 tokamak  
NT2 t-15 tokamak  
NT2 t-7 tokamak  
NT2 tbr tokamak  
NT2 tca tokamak  
NT2 tcabr tokamak  
NT2 tcv tokamak  
NT2 text devices  
NT2 textor tokamak  
NT2 tfr tokamak  
NT2 tfr tokamak  
NT2 tiber-x tokamak  
NT2 tj-1 tokamak  
NT2 tnt-a tokamak  
NT2 tokapole devices  
NT2 tokoloshe tokamak  
NT2 tore supra tokamak  
NT2 tormac devices  
NT2 tortus tokamak  
NT2 torus-ii tokamak  
NT2 tosca tokamak  
NT2 tpx device

- NT2 triam-1 tokamak  
NT2 tuman devices  
NT2 two-component torus  
NT2 uwmak devices  
NT2 varennes tokamak  
NT2 versator tokamak  
NT2 wt-3 tokamak  
NT1 toroidal pinch devices  
NT2 reversed-field pinch devices  
NT3 artemis device  
NT3 extrap-t2 device  
NT3 hbtx devices  
NT3 mst device  
NT3 rfx device  
NT3 tpe-1rm15 device  
NT3 tpe-rx device  
NT3 zt-40 devices  
NT3 zt-p devices  
NT2 tlp devices  
NT3 zeta devices  
NT2 toroidal screw pinch devices  
NT3 stp-3m device  
NT3 tpe-2 device  
NT2 toroidal theta pinch devices  
NT3 scyllac devices  
RT aspect ratio  
RT closed configurations  
RT trapped-particle instability

**CLOSTRIDIUM**

1997-06-17

- \*BT1 bacteria  
NT1 clostridium acetobutylicum  
NT1 clostridium botulinum  
NT1 clostridium butyricum  
NT1 clostridium perfringens  
NT1 clostridium thermocellum  
NT1 clostridium thermosaccharolyticum  
RT proteolysis  
RT toxins

**CLOSTRIDIUM ACETOBUTYLICUM**

INIS: 1985-09-09; ETDE: 1981-07-18

- \*BT1 clostridium  
\*BT1 methanogenic bacteria

**CLOSTRIDIUM BOTULINUM**

- \*BT1 clostridium

**CLOSTRIDIUM BUTYRICUM**

INIS: 1985-09-09; ETDE: 1981-07-18

- \*BT1 clostridium

**CLOSTRIDIUM PERFRINGENS**

- UF clostridium welchii  
\*BT1 clostridium

**CLOSTRIDIUM THERMOCELLUM**

INIS: 2000-04-12; ETDE: 1979-10-23

- \*BT1 clostridium  
RT enzymatic hydrolysis  
RT fermentation

**CLOSTRIDIUM****THERMOSACCHAROLYTICUM**

INIS: 2000-04-12; ETDE: 1981-07-18

- \*BT1 clostridium

**clostridium welchii**

- USE clostridium perfringens

**CLOSURES**

- UF plugs  
RT joints  
RT seals  
RT valves

**CLOTHES DRYERS**

INIS: 1993-07-29; ETDE: 1977-06-21

- BT1 dryers  
\*BT1 electric appliances  
RT clothes washers

*RT* clothing  
*RT* gas appliances

**CLOTHES WASHERS**

*INIS:* 1993-07-29; *ETDE:* 1977-06-21

*UF* washers, clothes  
 \*BT1 electric appliances  
*RT* clothes dryers  
*RT* clothing  
*RT* washing

**CLOTHING**

*UF* laundries  
*UF* shoes  
 NT1 protective clothing  
 NT2 gloves  
*RT* clothes dryers  
*RT* clothes washers  
*RT* consumer products  
*RT* textiles

**CLOUD CHAMBERS**

\*BT1 gas track detectors  
 NT1 diffusion chambers  
 NT1 expansion chambers

**CLOUD COVER**

1992-03-25  
*UF* cloudiness (meteorology)  
*RT* clouds  
*RT* meteorology  
*RT* sky  
*RT* storms

**cloudiness (meteorology)**

1992-03-25  
 USE cloud cover

**CLOUDS**

Limited to clouds in the earth atmosphere; for interstellar clouds see *COSMIC DUST* or *COSMIC GASES*.

NT1 noctilucent clouds  
 NT1 radioactive clouds  
*RT* atmospheric precipitations  
*RT* cloud cover  
*RT* meteorology  
*RT* sky  
*RT* storms  
*RT* water  
*RT* weather

**CLOUDY CRYSTAL BALL MODEL**

\*BT1 nuclear models  
*RT* optical models

**CLOVER**

\*BT1 leguminosae  
*RT* forage

**CLUFF LAKE MINE**

*INIS:* 1981-02-27; *ETDE:* 1981-03-13

\*BT1 uranium mines  
*RT* saskatchewan

**CLUSTER ANALYSIS**

2017-04-21  
 \*BT1 data analysis  
*RT* algorithms  
*RT* pattern recognition

**CLUSTER BEAM INJECTION**

BT1 beam injection  
*RT* cluster beams

**CLUSTER BEAMS**

*INIS:* 1976-03-25; *ETDE:* 1976-08-24

BT1 beams  
*RT* atomic clusters  
*RT* cluster beam injection  
*RT* molecular clusters

**CLUSTER EMISSION MODEL**

*INIS:* 1976-02-11; *ETDE:* 1975-10-01  
 A particle interaction model describing the emission of clusters having the potential to transfer charge from one center of mass hemisphere to the other, depending upon the rapidities of the clusters.

*UF* cluster model (particle)  
*UF* hadronic clusters  
 \*BT1 multiperipheral model  
 NT1 space-time model  
*RT* charge-exchange interactions  
*RT* fireball model  
*RT* multiple production  
*RT* pionization

**CLUSTER EXPANSION**

A virial expansion in which the virial coefficients (of inverse powers of the volume of the gas in question) are obtained from integrals, over positions of a small number of molecules, of functions involving intermolecular potentials.

BT1 series expansion  
*RT* differential equations

**CLUSTER MODEL**

*UF* alpha particle model  
*UF* cluster model (nuclear)  
 \*BT1 nuclear models  
*RT* quartet model  
*RT* vibron model

**cluster model (nuclear)**

*INIS:* 1976-02-11; *ETDE:* 2002-06-13  
 USE cluster model

**cluster model (particle)**

*INIS:* 1976-02-11; *ETDE:* 2002-06-13  
 USE cluster emission model

**clusters (fuel elements)**

USE fuel element clusters

**clusters (galaxy)**

USE galaxy clusters

**clusters (ion)**

USE ion pairs

**clusters (solid)**

USE solid clusters

**clusters (star)**

USE star clusters

**cmb radiation**

2003-05-30  
 USE relict radiation

**cmea**

*ETDE:* 1979-05-03  
 USE comecon

**CML REACTOR**

Battelle Pacific Northwest Laboratories, Richland, Washington, USA. Shut down in 1988.

*UF* critical mass laboratory pnl  
*UF* pnl-cml reactor  
 \*BT1 zero power reactors

**cmni**

*INIS:* 1996-10-22; *ETDE:* 1981-09-22  
 5-chloro-1-methyl-4-nitroimidazole. (Until October 1996 this was a valid descriptor.)  
 USE imidazoles

**CMOS CIRCUITS**

2018-02-07  
 Complementary Metal Oxide Semiconductor Circuits.

\*BT1 integrated circuits  
*RT* mosfet

**CMPO**

1993-06-10  
 Octyl(phenyl)-N, N-diisobutylcarbamoylmethylphosphine oxide.  
 \*BT1 organic phosphorus compounds  
 \*BT1 phosphine oxides  
*RT* solvent extraction  
*RT* trux process

**CMRR REACTOR**

2018-06-04  
 Mianyang, Sichuan Province, China.  
*UF* china mianyang research reactor  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**CMS DETECTOR**

2015-10-27  
*UF* cms experiment  
 \*BT1 radiation detectors  
*RT* cern  
*RT* cern lhc

**cms experiment**

2015-10-27  
 USE cms detector

**cn method**

*INIS:* 1984-04-04; *ETDE:* 1984-05-10  
 USE spherical harmonics

**cna reactor**

SEE atucha-1 reactor  
 SEE atucha-2 reactor

**cnea (argentina)**

*INIS:* 1993-10-01; *ETDE:* 1993-11-08  
 USE argentine cnea

**cnea (paraguay)**

2005-07-06  
 USE paraguayan cnea

**CNEN**

Name changed to Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative in April 1982, and more recent material should be indexed to *ITALIAN ENEA*.

*UF* comitato nazionale per l'energia nucleare

\*BT1 italian enea

**cnen brazil**

*INIS:* 1982-08-27; *ETDE:* 1982-09-10  
 USE brazilian cnen

**CNG PROCESS**

*INIS:* 2000-04-12; *ETDE:* 1983-03-23  
 Proprietary process for removing hydrogen sulfide, carbon dioxide, sulfur compounds, and trace elements from fuel gas.

\*BT1 desulfurization  
 BT1 separation processes  
*RT* coal gasification

**CNIDARIA**

\*BT1 coelenterata  
 NT1 corals  
 NT1 hydra

**CNO CYCLE**

*INIS:* 1978-09-28; *ETDE:* 1978-10-19  
 Astrophysical processes only.  
*UF* bethe-weizsaecker cycle

UF carbon-nitrogen-oxygen cycle  
 BT1 star burning  
 RT main sequence stars  
 RT nucleosynthesis  
 RT star evolution  
 RT star models

### CNRS SOLAR FACILITY

INIS: 2000-04-12; ETDE: 1982-02-08  
 The Solar Furnace Facility at the National Center for Scientific Research (CNRS) at Odeillo, France.

BT1 test facilities  
 RT france  
 RT solar furnaces

### cns depressants

INIS: 1984-05-28; ETDE: 2002-06-13  
 USE central nervous system depressants

### cns stimulants

INIS: 1984-05-24; ETDE: 1981-04-20  
 USE analeptics

### co-generation

INIS: 1982-12-03; ETDE: 1977-01-28  
 (Prior to November 1980 this was a valid ETDE descriptor.)  
 USE cogeneration

### co2 flooding

INIS: 1992-01-15; ETDE: 1978-08-08  
 USE carbon dioxide injection

### COAGULANTS

INIS: 1984-05-24; ETDE: 1981-04-20  
 (From April 1981 to March 1997 HEMOSTATICS and HEPARIN ANTAGONISTS were valid ETDE descriptors.)

UF hemostatics  
 UF heparin antagonists  
 \*BT1 hematologic agents  
 NT1 protamines  
 RT anticoagulants  
 RT blood substitutes  
 RT fibrinolytic agents  
 RT hematinics

### coagulation (blood)

USE blood coagulation

### coagulation (colloid)

USE flocculation

### COAL

1997-06-19

UF coal-oil mixtures  
 SF rexco process  
 \*BT1 carbonaceous materials  
 \*BT1 fossil fuels  
 NT1 black coal  
 NT2 anthracite  
 NT2 bituminous coal  
 NT1 brown coal  
 NT2 lignite  
 NT1 coal fines  
 NT1 high-sulfur coal  
 NT1 low-sulfur coal  
 NT1 sapropelic coal  
 NT2 boghead coal  
 NT3 torbanite  
 NT2 cannel coal  
 NT1 subbituminous coal  
 RT ash content  
 RT chars  
 RT coal deposits  
 RT coal extracts  
 RT coal-fired mhd generators  
 RT coal gas  
 RT coal gasification

RT coal liquefaction  
 RT coal pastes  
 RT coal rank  
 RT coal reserves  
 RT coalification  
 RT coke  
 RT coking  
 RT culm  
 RT fluidized-bed combustion  
 RT fluidized-bed combustors  
 RT gasification  
 RT lithotypes  
 RT macerals  
 RT national coal model  
 RT peat  
 RT slurry pipelines  
 RT solid fuels  
 RT solvent-refined coal  
 RT soot  
 RT stokers  
 RT volatile matter

### COAL BURNING APPLIANCES

INIS: 1993-01-22; ETDE: 1982-03-29  
 UF stoves (coal burning)  
 \*BT1 appliances  
 RT stoves

### coal chars

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE chars

### coal chemicals

INIS: 2000-04-12; ETDE: 1979-09-27  
 SEE coal extracts  
 SEE petrochemicals

### COAL DEPOSITS

1991-10-01  
 UF coalbed methane  
 BT1 geologic deposits  
 \*BT1 mineral resources  
 NT1 coal seams  
 RT coal  
 RT coal producing districts  
 RT coal reserves  
 RT geophysical surveys  
 RT illinois basin  
 RT powder river basin

### coal-derived gases

INIS: 2000-04-12; ETDE: 1993-10-07  
 USE coal gas

### coal-derived liquids

INIS: 1993-06-01; ETDE: 1976-12-16  
 USE coal liquids

### COAL EXTRACTS

2000-04-12  
 SF coal chemicals  
 RT coal

### COAL FINES

1992-04-02  
 \*BT1 coal  
 RT briquets  
 RT pulverized fuels

### COAL-FIRED GAS TURBINES

INIS: 1992-03-10; ETDE: 1980-03-04  
 (Prior to February 1980 GAS TURBINES was used for this concept in ETDE.)  
 \*BT1 gas turbines  
 RT coal gasification  
 RT combined-cycle power plants  
 RT fossil-fuel power plants  
 RT gas turbine engines  
 RT gas turbine power plants

### COAL-FIRED MHD GENERATORS

1993-03-10  
 \*BT1 mhd generators  
 NT1 mhd generator cdif  
 NT1 mhd generator cfff  
 NT1 mhd generator etf  
 NT1 mhd generator utsi  
 RT coal  
 RT seed-slag interactions  
 RT spent seed

### COAL FUEL CELLS

1992-05-20  
 \*BT1 fuel cells

### COAL GAS

1991-10-02  
 UF coal-derived gases  
 UF coke-oven gas  
 \*BT1 gases  
 BT1 pyrolysis products  
 RT coal  
 RT fuel gas  
 RT town gas

### COAL GASIFICATION

1997-06-17  
 UF atgas process  
 UF avg process  
 UF bcr process  
 UF bublag-didier process  
 UF carbon dioxide acceptor process  
 UF conoco gasification process  
 UF csiro process  
 UF fw-stoic process  
 UF hoffman process  
 UF hyflex process  
 UF lichtenberg process  
 UF liquid phase methanation process  
 UF mcdowell-wellman process  
 UF merc process  
 UF migas process  
 UF panindco process  
 UF patgas process  
 UF riley-morgan process  
 UF rockgas process  
 UF rombach process  
 UF schmalfeldt-wintershall process  
 UF selox process  
 UF simplex process  
 UF stone and webster coal solution gasification process  
 UF stone and webster gasification process  
 UF tri-gas process  
 UF wilputte process  
 UF zhuravlev process  
 SF cs-sr process  
 SF fischer-tropsch/mobil process  
 SF thyssen-galoccy process  
 \*BT1 gasification  
 NT1 agglomerating ash process  
 NT1 arc coal process  
 NT1 babcock and wilcox-dupont process  
 NT1 beacon process  
 NT1 bgc-lurgi slagging process  
 NT1 bi-gas process  
 NT1 ce entrained fuel process  
 NT1 coalcon process  
 NT1 cogas process  
 NT1 combined-cycle fw process  
 NT1 consol synthetic gas process  
 NT1 cs-r process  
 NT1 dow gasification process  
 NT1 exxon gasification process  
 NT1 flash hydrolysis process  
 NT1 gegas process  
 NT1 gkt process  
 NT1 htw process  
 NT1 humboldt gasification process

**NT1** hydrane process  
**NT1** hygas process  
**NT1** i g process  
**NT1** kbw gasification process  
**NT1** kellogg process  
**NT1** kilngas process  
**NT1** kloekner-iron bath coal gasification process  
**NT1** koppers process  
**NT1** koppers-totzek process  
**NT1** krw gasification process  
**NT1** lurgi cfb gasification process  
**NT1** lurgi process  
**NT1** lurgi slagging process  
**NT1** molten iron puregas process  
**NT1** molten salt coal gasification process  
**NT1** moving-burden process  
**NT1** occidental flash pyrolysis process  
**NT1** otto rummel slag bath process  
**NT1** peatgas process  
**NT1** prenflo process  
**NT1** ruhr 100 gasification process  
**NT1** saarberg-otto gasification process  
**NT1** seacoal process  
**NT1** shell-koppers gasification process  
**NT1** synthane process  
**NT1** texaco gasification process  
**NT1** toscodyne process  
**NT1** toscal process  
**NT1** u-gas process  
**NT1** wellman-galusha process  
**NT1** wellman-incandescent process  
**NT1** westinghouse gasification process  
**NT1** woodall-duckham process  
**RT** cng process  
**RT** coal  
**RT** coal-fired gas turbines  
**RT** coal gasification plants  
**RT** fluidized bed refuse gasification  
**RT** gasoline plants  
**RT** hot gas cleanup  
**RT** in-situ gasification  
**RT** methanol plants  
**RT** shift processes  
**RT** sng processes  
**RT** synthetic fuels  
**RT** thunderbird project

**COAL GASIFICATION PLANTS**

*INIS: 1991-10-02; ETDE: 1975-11-26*

**BT1** industrial plants  
**RT** coal gasification

**COAL INDUSTRY**

*1991-10-02*

**BT1** industry  
**RT** mineral industry

**COAL LIQUEFACTION**

*1982-12-03*

**UF** *adl process*  
**UF** *arthur d little coal liquefaction process*  
**UF** *ce lummus cfc process*  
**UF** *chevron coal liquefaction process*  
**UF** *coil process*  
**UF** *consol synthetic fuel process*  
**UF** *csf process*  
**UF** *friambient process*  
**UF** *lcffc process*  
**UF** *lummus clean fuel firm coal process*  
**UF** *pott-broche process*  
**UF** *riser cracking*  
**UF** *uhde-pfirrmann process*  
**UF** *zinc halide process*  
**SF** *cresap process*  
**SF** *cs-sr process*  
**SF** *fischer-tropsch/mobil process*  
**\*BT1** liquefaction  
**NT1** bcl process

**NT1** bergius process  
**NT1** catalytic hydrosolvation process  
**NT1** cffc process  
**NT1** coed process  
**NT1** costeam process  
**NT1** dow liquefaction process  
**NT1** Exxon liquefaction process  
**NT1** flash hydrolysis process  
**NT1** h-coal process  
**NT1** liquid phase methanol process  
**NT1** occidental flash pyrolysis process  
**NT1** pamco process  
**NT1** pyrosol process  
**NT1** sasol-ii process  
**NT1** sasol process  
**NT1** src-ii process  
**NT1** synthoil process  
**NT1** synthol process  
**NT1** tsl process  
**RT** clean coke process  
**RT** coal  
**RT** coal liquefaction plants  
**RT** coal liquids  
**RT** supercritical gas extraction  
**RT** synthetic fuels

**COAL LIQUEFACTION PLANTS**

*INIS: 1994-07-01; ETDE: 1976-02-19*

**BT1** industrial plants  
**RT** coal liquefaction

**COAL LIQUIDS**

*INIS: 1993-06-01; ETDE: 1976-02-19*

(Until June 1993, this concept was indexed by HYDROCARBONS.)

**UF** *coal-derived liquids*  
**\*BT1** liquids  
**RT** coal liquefaction  
**RT** lc-fining  
**RT** liquid fuels  
**RT** pyrolytic oils  
**RT** supercritical gas extraction  
**RT** synthetic petroleum

**COAL MINERS**

*INIS: 1992-05-08; ETDE: 1976-03-11*

**\*BT1** miners

**COAL MINES**

*1991-08-09*

**UF** *colleries*  
**UF** *mine-mouth generating plants*  
**\*BT1** mines  
**RT** abandoned shafts  
**RT** backfilling  
**RT** coal mining  
**RT** heading machines  
**RT** mine draining  
**RT** rock dusting

**COAL MINING**

*1991-08-09*

**BT1** mining  
**RT** acid mine drainage  
**RT** advance mining  
**RT** belt conveyors  
**RT** coal mines  
**RT** coal producing districts  
**RT** cutter loaders  
**RT** cutting machines  
**RT** longwall mining  
**RT** mining engineering  
**RT** retreat mining  
**RT** room and pillar mining  
**RT** shearer loaders  
**RT** shortwall mining  
**RT** slice mining  
**RT** surface mining  
**RT** underground mining  
**RT** us osm

**coal-oil mixtures**

*INIS: 2000-04-12; ETDE: 1980-12-08*

**USE** coal  
**USE** fuel oils  
**USE** fuel slurries

**COAL PASTES**

*2000-04-12*

**RT** coal

**coal planers**

*INIS: 2000-04-12; ETDE: 1979-06-06*

**USE** coal plows

**coal ploughs**

*INIS: 2000-04-12; ETDE: 1979-06-06*

**USE** coal plows

**COAL PLOWS**

*INIS: 2000-04-12; ETDE: 1979-06-06*

**UF** coal planers

**UF** coal ploughs

**UF** plows (coal)

**\*BT1** cutter loaders

**COAL PREPARATION**

*INIS: 1999-05-06; ETDE: 1975-08-19*

*Grinding, screening, powdering, cleaning, etc., to prepare coal for industrial uses.*

**UF** convertol process

**SF** *syracuse chemical comminution process*

**NT1** licado process

**RT** cleaning

**RT** coal preparation plants

**RT** comminution

**RT** crushing

**RT** drying

**RT** flotation

**RT** heavy media separation

**RT** jpl process

**RT** rhodococcus

**RT** trw process

**RT** us clean coal technology program

**RT** washing

**RT** water removal

**COAL PREPARATION PLANTS**

*INIS: 1997-06-19; ETDE: 1976-06-07*

**SF** *solvent-refining coal plants*

**BT1** industrial plants

**RT** coal preparation

**RT** solvent-refined coal

**COAL PRODUCING DISTRICTS**

*INIS: 1992-04-08; ETDE: 1979-09-27*

**RT** coal deposits

**RT** coal mining

**COAL RANK**

*1991-10-02*

*The degree of metamorphosis that the original plant debris has undergone during the geological ages since it was deposited.*

**RT** coal

**RT** coalification

**COAL RESERVES**

*1991-10-02*

**\*BT1** reserves

**RT** coal

**RT** coal deposits

**COAL SEAMS**

*INIS: 1991-10-01; ETDE: 1978-05-03*

**\*BT1** coal deposits

**RT** geologic strata

**RT** inclined strata

**RT** water influx

**COAL TAR**

**\*BT1** bitumens



RT bituminous materials  
 RT coal tar acids  
 RT coal tar bases  
 RT coal tar oils  
 RT creosote

**COAL TAR ACIDS**

INIS: 2000-04-12; ETDE: 1976-04-19

\*BT1 organic acids  
 RT coal tar  
 RT coal tar oils

**COAL TAR BASES**

INIS: 2000-04-12; ETDE: 1976-04-19

BT1 bases  
 BT1 organic compounds  
 RT coal tar  
 RT coal tar oils

**COAL TAR OILS**

1992-07-22

\*BT1 oils  
 RT coal tar  
 RT coal tar acids  
 RT coal tar bases

**coalbed methane**

INIS: 2000-04-12; ETDE: 1994-10-20

USE coal deposits  
 USE methane

**COALCON PROCESS**

INIS: 2000-04-12; ETDE: 1975-11-28

*Low-temperature, intermediate-pressure process for hydrocarbonization of finely divided low-rank coal or high-boiling tars in a fluidized bed to produce chars, tars, and gases. It was originally designed for a subbituminous coal having high tar and potentially high phenolic yields during carbonization, but it is currently being developed for high-sulfur, high-volatile bituminous coals.*

\*BT1 coal gasification  
 RT carbonization  
 RT chars

**COALESCENCE**

RT adhesion  
 RT agglomeration  
 RT blood coagulation  
 RT bonding  
 RT coprecipitation

**COALIFICATION**

INIS: 2000-04-12; ETDE: 1977-07-23

RT coal  
 RT coal rank  
 RT diagenesis  
 RT geochemistry  
 RT petrology

**coaltek process**

INIS: 2000-04-12; ETDE: 1976-07-07

USE fuel feeding systems

**coarse control rods**

USE shim rods

**coarse mesh method**

INIS: 1984-04-04; ETDE: 1984-05-10

USE finite difference method

**COARSE PARTICLES**

2014-08-20

*Particles with an aerodynamic diameter from 2500 to 10000 nm.*

BT1 particles

**coast**

USE shores

**COASTAL REGIONS**

INIS: 1997-06-17; ETDE: 1976-02-19

*Land areas of unspecified dimensions near sea or lake coastlines.*

NT1 river deltas  
 NT1 shores  
 RT coastal waters  
 RT coastal zone management acts  
 RT flood control

**COASTAL WATERS**

1997-06-19

*For use only in its geographic connotation; for the legal connotation use TERRITORIAL WATERS.*

BT1 surface waters  
 NT1 bays  
 NT2 bay of biscay  
 NT2 bay of fundy  
 NT2 biscayne bay  
 NT2 chesapeake bay  
 NT2 delaware bay  
 NT2 galveston bay  
 NT2 matagorda bay  
 NT2 onslow bay  
 NT2 prudhoe bay  
 NT2 sequim bay  
 NT1 estuaries  
 NT2 fiords  
 NT2 long island sound  
 RT coastal regions  
 RT coastal zone management acts  
 RT continental margin  
 RT continental shelf  
 RT continental slope  
 RT mid-atlantic bight  
 RT offshore sites  
 RT seas  
 RT shores  
 RT south atlantic bight  
 RT territorial waters

**coastal zone management act**

INIS: 2000-04-12; ETDE: 1994-08-18

USE coastal zone management acts

**COASTAL ZONE MANAGEMENT ACTS**

INIS: 2000-04-12; ETDE: 1994-08-17

*Before August 1994, this term was used in the singular form.*

UF coastal zone management act  
 BT1 laws  
 RT coastal regions  
 RT coastal waters  
 RT continental shelf

**COATED FUEL PARTICLES**

BT1 fuel particles  
 RT amoeba effect

**coating (surface)**

USE surface coating

**coating processes**

USE surface coating

**COATINGS**

NT1 antireflection coatings  
 NT1 black coatings  
 NT2 black nickel  
 NT1 diffusion coatings  
 NT1 dipped coatings  
 NT1 electrodeposited coatings  
 NT1 enamels  
 NT1 glazes  
 NT1 lacquers  
 NT1 paints  
 NT2 luminous paints  
 NT1 protective coatings  
 NT1 reflective coatings

NT1 sprayed coatings  
 NT1 vapor deposited coatings  
 NT1 varnishes  
 RT corrosion protection  
 RT coverings  
 RT deposits  
 RT films  
 RT heat mirrors  
 RT latex  
 RT masking  
 RT screen printing  
 RT solar absorbers  
 RT solar control films  
 RT surface coating  
 RT surface finishing  
 RT thin films  
 RT waterproofing

**COAXIAL CABLES**

\*BT1 electric cables

**COAXIAL FLOW REACTORS**

\*BT1 gas fueled reactors

**COBALT**

\*BT1 transition elements

**COBALT 49**

2007-01-24

\*BT1 cobalt isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes

**COBALT 50**

INIS: 1992-09-22; ETDE: 1984-05-08

\*BT1 cobalt isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

**COBALT 51**

2007-01-24

\*BT1 cobalt isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**COBALT 52**

1995-02-27

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cobalt isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

**COBALT 53**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cobalt isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes

**COBALT 54**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cobalt isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**COBALT 55**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cobalt isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**COBALT 56**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**COBALT 56 TARGET**

*INIS: 1982-10-28; ETDE: 1982-11-30*  
BT1 targets

**COBALT 57**

- \*BT1 cobalt isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COBALT 57 TARGET**

*INIS: 1977-01-25; ETDE: 1977-04-13*  
BT1 targets

**COBALT 58**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei

**COBALT 58 TARGET**

*INIS: 1976-07-06; ETDE: 1976-08-24*  
BT1 targets

**COBALT 59**

- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**COBALT 59 REACTIONS**

*1984-11-30*  
\*BT1 heavy ion reactions

**COBALT 59 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**COBALT 60**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**COBALT 60 TARGET**

*INIS: 1975-12-09; ETDE: 1976-07-12*  
BT1 targets

**COBALT 61**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COBALT 62**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**COBALT 63**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**COBALT 64**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**COBALT 65**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**COBALT 66**

*INIS: 1986-01-21; ETDE: 1986-02-21*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**COBALT 67**

*INIS: 1986-01-21; ETDE: 1986-02-21*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**COBALT 68**

*INIS: 1986-08-19; ETDE: 1986-09-05*  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei

**COBALT 69**

*INIS: 1986-08-19; ETDE: 1986-09-05*  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

**COBALT 70**

*INIS: 1986-08-19; ETDE: 1986-09-05*  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei

**COBALT 71**

*2007-01-24*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**COBALT 72**

*2007-01-24*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**COBALT 73**

*2007-01-24*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**COBALT 74**

*2007-01-24*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei

**COBALT 75**

*2007-01-24*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

**COBALT ADDITIONS**

*Alloys containing not more than 1% Co are listed here.*

\*BT1 cobalt alloys  
NT1 alloy-ni43fe33cr16mo3  
NT2 nimonic pe16  
NT1 alloy-ni62cr16mo15fe3  
NT2 hastelloy s  
NT1 steel-cr18ni11nbco  
NT2 stainless steel-348

**COBALT ALLOYS**

*1996-11-13*  
*Alloys containing more than 1% Co.*

\*BT1 transition element alloys  
NT1 alloy-b-1900  
NT1 alloy-fe44ni33cr21  
NT2 incoloy 800h  
NT1 alloy-fe53ni29co18  
NT2 kovar  
NT1 alloy-mar-m246  
NT1 alloy-mp35n  
NT1 alloy-ni46cr23co19ti5al4  
NT2 alloy-in-939  
NT1 alloy-ni49cr22fe18mo9  
NT2 hastelloy x  
NT1 alloy-ni50co20cr15al5mo5  
NT2 nimonic 105  
NT1 alloy-ni54cr22co13mo9  
NT2 inconel 617  
NT1 alloy-ni54mo17cr16fe6w4  
NT2 hastelloy c  
NT1 alloy-ni55co17cr15mo5al4ti4  
NT2 astroloy  
NT1 alloy-ni55cr19co11mo10ti3  
NT2 rene 41  
NT1 alloy-ni58cr20co14mo4ti3  
NT2 waspaloy  
NT1 alloy-ni59cr20co17ti2  
NT1 alloy-ni60co15cr10al6ti5mo3  
NT2 alloy-in-100  
NT1 alloy-ni61cr16co9al3ti3w3  
NT2 alloy-in-738  
NT1 alloy-ni65mo28fe5  
NT2 hastelloy b  
NT1 alloy-ra-333  
NT1 alloy-s-590  
NT1 alloy-s-816  
NT1 alloy-v-36  
NT1 alloy-yundk 25ba  
NT1 alnico alloys  
NT1 carboloy  
NT1 cobalt additions  
NT2 alloy-ni43fe33cr16mo3  
NT3 nimonic pe16  
NT2 alloy-ni62cr16mo15fe3  
NT3 hastelloy s  
NT2 steel-cr18ni11nbco  
NT3 stainless steel-348  
NT1 cobalt base alloys  
NT2 alloy-co43cr20fe18ni13w3  
NT3 havar  
NT2 alloy-co50fe50  
NT3 permendur  
NT2 alloy-co52fe35v10  
NT2 haynes alloys  
NT3 alloy-co36cr22ni22w15fe3  
NT4 haynes 188 alloy  
NT3 alloy-co54cr20w15ni10  
NT4 alloy-hs-25  
NT4 haynes 25 alloy  
NT3 alloy-co60cr30w4

**NT4** stellite 6  
**NT2** mar-m509 alloys  
**NT2** stellite  
**NT3** alloy-co54cr20w15ni10  
**NT4** alloy-hs-25  
**NT4** haynes 25 alloy  
**NT3** alloy-co60cr30w4  
**NT4** stellite 6  
**NT3** alloy-hs-31  
**NT2** tribaloy 400  
**NT2** tribaloy 800  
**NT1** cunico  
**NT1** hiperco  
**NT1** kanthal  
**NT1** konel  
**NT1** magnet steel-ks  
**NT1** nimonic 115  
**NT1** rene-100  
**NT1** rene 80  
**NT1** rene 95  
**NT1** supertherm  
**NT1** timken alloys  
**NT1** udimet alloys  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** udimet 500  
**NT1** vitallium

**COBALT ARSENIDES**

*INIS: 1991-09-16; ETDE: 1976-08-04*

\*BT1 arsenides  
 \*BT1 cobalt compounds

**COBALT BASE ALLOYS**

*1996-11-13*

(The UF terms below have been valid ETDE descriptors.)

*UF alloy-co52cr17fe15mo3si3*

*UF alloy-co52fe35v13*

*UF alloy-l-605*

*UF vikalloy 1*

*UF vikalloy 2*

\*BT1 cobalt alloys

**NT1** alloy-co43cr20fe18ni13w3

**NT2** havar

**NT1** alloy-co50fe50

**NT2** permendur

**NT1** alloy-co52fe35v10

**NT1** haynes alloys

**NT2** alloy-co36cr22ni22w15fe3

**NT3** haynes 188 alloy

**NT2** alloy-co54cr20w15ni10

**NT3** alloy-hs-25

**NT3** haynes 25 alloy

**NT2** alloy-co60cr30w4

**NT3** stellite 6

**NT1** mar-m509 alloys

**NT1** stellite

**NT2** alloy-co54cr20w15ni10

**NT3** alloy-hs-25

**NT3** haynes 25 alloy

**NT2** alloy-co60cr30w4

**NT3** stellite 6

**NT2** alloy-hs-31

**NT1** tribaloy 400

**NT1** tribaloy 800

**COBALT BORIDES**

\*BT1 borides

\*BT1 cobalt compounds

**COBALT BROMIDES**

\*BT1 bromides

\*BT1 cobalt halides

**COBALT CARBIDES**

\*BT1 carbides

\*BT1 cobalt compounds

**COBALT CARBONATES**

\*BT1 carbonates

\*BT1 cobalt compounds

**COBALT CHLORIDES**

\*BT1 chlorides

\*BT1 cobalt halides

**COBALT COMPLEXES**

\*BT1 transition element complexes

**COBALT COMPOUNDS**

*1997-06-17*

BT1 transition element compounds

NT1 cobalt arsenides

NT1 cobalt borides

NT1 cobalt carbides

NT1 cobalt carbonates

NT1 cobalt halides

**NT2** cobalt bromides

**NT2** cobalt chlorides

**NT2** cobalt fluorides

**NT2** cobalt iodides

NT1 cobalt hydrides

NT1 cobalt hydroxides

NT1 cobalt nitrates

NT1 cobalt oxides

NT1 cobalt perchlorates

NT1 cobalt phosphates

NT1 cobalt phosphides

NT1 cobalt selenides

NT1 cobalt silicates

NT1 cobalt silicides

NT1 cobalt sulfates

NT1 cobalt sulfides

NT1 cobalt tellurides

NT1 cobalt tungstates

**COBALT FLUORIDES**

\*BT1 cobalt halides

\*BT1 fluorides

**COBALT HALIDES**

*2012-07-19*

\*BT1 cobalt compounds

\*BT1 halides

NT1 cobalt bromides

NT1 cobalt chlorides

NT1 cobalt fluorides

NT1 cobalt iodides

**COBALT HYDRIDES**

\*BT1 cobalt compounds

\*BT1 hydrides

**COBALT HYDROXIDES**

\*BT1 cobalt compounds

\*BT1 hydroxides

**COBALT IODIDES**

\*BT1 cobalt halides

\*BT1 iodides

**COBALT IONS**

\*BT1 ions

**COBALT ISOTOPES**

*1999-07-16*

BT1 isotopes

NT1 cobalt 49

NT1 cobalt 50

NT1 cobalt 51

NT1 cobalt 52

NT1 cobalt 53

NT1 cobalt 54

NT1 cobalt 55

NT1 cobalt 56

NT1 cobalt 57

NT1 cobalt 58

NT1 cobalt 59

NT1 cobalt 60

NT1 cobalt 61

NT1 cobalt 62

NT1 cobalt 63

NT1 cobalt 64

NT1 cobalt 65

NT1 cobalt 66

NT1 cobalt 67

NT1 cobalt 68

NT1 cobalt 69

NT1 cobalt 70

NT1 cobalt 71

NT1 cobalt 72

NT1 cobalt 73

NT1 cobalt 74

NT1 cobalt 75

**COBALT NITRATES**

\*BT1 cobalt compounds

\*BT1 nitrates

**COBALT ORES**

BT1 ores

**COBALT OXIDES**

\*BT1 cobalt compounds

\*BT1 oxides

RT kirchheimerite

RT oxide minerals

**COBALT PERCHLORATES**

*INIS: 2000-04-12; ETDE: 1975-12-16*

\*BT1 cobalt compounds

\*BT1 perchlorates

**COBALT PHOSPHATES**

\*BT1 cobalt compounds

\*BT1 phosphates

**COBALT PHOSPHIDES**

*INIS: 1977-07-05; ETDE: 1975-09-11*

\*BT1 cobalt compounds

\*BT1 phosphides

**COBALT SELENIDES**

*INIS: 1991-09-16; ETDE: 1980-03-04*

\*BT1 cobalt compounds

\*BT1 selenides

**COBALT SILICATES**

\*BT1 cobalt compounds

\*BT1 silicates

**COBALT SILICIDES**

*1978-08-30*

\*BT1 cobalt compounds

\*BT1 silicides

**COBALT SULFATES**

\*BT1 cobalt compounds

\*BT1 sulfates

**COBALT SULFIDES**

\*BT1 cobalt compounds

\*BT1 sulfides

**COBALT TELLURIDES**

*INIS: 1991-09-16; ETDE: 1978-06-14*

\*BT1 cobalt compounds

\*BT1 tellurides

**COBALT TUNGSTATES**

*INIS: 1991-09-16; ETDE: 1978-07-05*

\*BT1 cobalt compounds

\*BT1 tungstates

**COBOL**

BT1 programming languages

**cobordism theory**

*2000-04-12*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE topology

**cobra reactor**

*1995-01-11*

USE kbr-1 reactor

**COCAINE**

- \*BT1 alkaloids
- \*BT1 anesthetics
- \*BT1 antidepressants

**COCKROFT-WALTON****ACCELERATORS**

- \*BT1 electrostatic accelerators

**COCKROACHES**

- \*BT1 dictyoptera

**cocoa beans**

INIS: 1977-01-26; ETDE: 2002-06-13

USE cocoa products

**COCOA PRODUCTS**

- UF cocoa beans
- BT1 food
- RT cacao trees

**COCOMBUSTION**

INIS: 1991-10-03; ETDE: 1981-08-04

The simultaneous burning of two fuels in a boiler, e.g., coal and biomass.

- UF cofiring
- \*BT1 combustion

**COCONUT PALMS**

- \*BT1 liliopsida
- \*BT1 trees
- RT coconuts

**COCONUTS**

- \*BT1 fruits
- RT coconut palms

**CODEINE**

1996-07-08

- \*BT1 alkaloids
- \*BT1 analgesics
- \*BT1 hypnotics and sedatives
- RT heroin
- RT morphine

**codeinone**

INIS: 1984-04-04; ETDE: 1978-07-06

(Prior to April 1994, this was a valid ETDE descriptor.)

USE alkaloids

**CODFISH**

- \*BT1 fishes

**coding circuits**

USE digital circuits

**CODLING MOTH**

- UF carpocapsa pomonella
- \*BT1 moths
- RT apples

**CODONS**

- RT gene operons
- RT gene regulation
- RT genes
- RT nucleotides
- RT ribosomes

**COED PROCESS**

2000-04-12

FMC corporation process that converts coal to synthetic crude oil, gas, and char in four fluidized-bed gasification stages at 315, 450, 540, and 840 degrees C.

- UF char oil energy development process
- \*BT1 coal liquefaction

**COEFFICIENT OF PERFORMANCE**

INIS: 2000-04-12; ETDE: 1979-01-30

- RT air conditioners
- RT efficiency
- RT heat pumps

- RT performance
- RT refrigerating machinery
- RT refrigerators
- RT thermodynamics

**COELENTERATA**

ETDE: 1977-01-28

(Prior to October 1990 this subject was indexed to CNIDARIA.)

- UF coelenterates
- \*BT1 invertebrates
- NT1 cnidaria
- NT2 corals
- NT2 hydra

**coelenterates**

INIS: 1975-09-12; ETDE: 2002-06-13

USE coelenterata

**coenzyme i**

USE nad

**coenzyme ii**

USE nadp

**COENZYMES**

- NT1 nad
- NT1 nadh2
- NT1 nadp
- NT1 ubiquinone
- RT apolipoproteins
- RT biochemistry
- RT biosynthesis
- RT catalysis
- RT cytochromes
- RT enzymes
- RT isoalloxazines
- RT metabolism
- RT pyridoxal
- RT redox process
- RT vitamin b group

**coercion**

INIS: 2000-04-12; ETDE: 1983-03-23

Compulsion, constraint, or compelling by force.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE legal aspects

**COERCIVE FORCE**

- RT magnetic properties

**coesite**

INIS: 2000-04-12; ETDE: 1978-07-06

A polymorph of silicon dioxide.

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE oxide minerals
- USE silicon oxides

**COEXTRUSION**

- \*BT1 extrusion

**coffee**

USE beverages

**COFFEE BEANS**

INIS: 1978-11-24; ETDE: 1978-12-20

- BT1 seeds
- RT beverages
- RT coffee plants

**COFFEE PLANTS**

- \*BT1 magnoliopsida
- RT coffee beans

**COFFINITE**

- \*BT1 silicate minerals
- \*BT1 uranium minerals

**cofiring**

INIS: 1991-10-03; ETDE: 1981-10-24

USE cocombustion

**COFRENTES REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-02

Cofrentes, Valencia, Spain.

- \*BT1 bwr type reactors

**COGAS PROCESS**

2000-04-12

A two step coal conversion process involving pyrolysis followed by gasification of the resultant char.

- \*BT1 coal gasification

**cogema**

INIS: 1977-03-29; ETDE: 1977-06-02

(Prior to April 2010 this was a valid descriptor.)

USE areva nc

**cogema la hague**

INIS: 1977-03-29; ETDE: 1977-06-02

(Prior to April 2010 this was a valid descriptor.)

USE areva nc la hague

**cogema marcoule**

INIS: 1977-03-29; ETDE: 1977-06-03

(Prior to April 2010 this was a valid descriptor.)

USE areva nc marcoule

**cogema pierrelatte**

INIS: 1977-03-29; ETDE: 1977-06-03

(Prior to April 2010 this was a valid descriptor.)

USE areva nc pierrelatte

**COGENERATION**

INIS: 1982-12-03; ETDE: 1980-10-27

(Prior to November 1980, this concept in ETDE was indexed to co-generation. From November 1978 till February 1997 DEUS was a valid ETDE descriptor.)

- UF co-generation
- UF combined heat-power generation
- UF combined steam-power generation
- UF deus
- UF dual energy use systems
- BT1 power generation
- BT1 steam generation
- RT district heating
- RT dual-purpose power plants
- RT energy systems
- RT refuse-fueled power plants
- RT thermal transmission ices
- RT total energy systems
- RT waste heat
- RT waste heat boilers
- RT waste heat utilization
- RT waste product utilization

**cogeneration plants**

INIS: 2000-04-12; ETDE: 1981-06-13

USE dual-purpose power plants

**COHERENCE LENGTH**

1999-07-20

The range of interaction between the electrons of a Cooper pair.

- \*BT1 length
- RT cooper pairs
- RT ginzburg-landau theory
- RT superconductivity

**COHERENT ACCELERATORS**

1985-12-10

(Prior to 1986 COLLECTIVE

ACCELERATORS was used for this concept.)

BT1 accelerators

RT collective accelerators

**coherent anti-stokes raman spectroscopy**

INIS: 1986-04-04; ETDE: 1983-03-07

USE raman spectroscopy

**COHERENT PRODUCTION**

\*BT1 particle interactions

BT1 particle production

RT coherent tube model

**COHERENT RADIATION**

\*BT1 electromagnetic radiation

**COHERENT SCATTERING**

BT1 scattering

NT1 brillouin effect

NT1 diffraction

NT2 atomic beam diffraction

NT2 diffuse scattering

NT2 electron diffraction

NT2 neutron diffraction

NT2 x-ray diffraction

NT1 rayleigh scattering

RT anharmonic crystals

RT elastic scattering

**coherent states**

INIS: 1984-04-04; ETDE: 2002-06-13

*Eigenstates of annihilation operators.*

USE annihilation operators

USE eigenstates

**COHERENT TUBE MODEL**

INIS: 1977-06-13; ETDE: 1977-10-20

UF collective tube model

UF tube model

\*BT1 nuclear models

\*BT1 particle models

RT coherent production

RT incoherent production

RT multiple production

RT nuclear reactions

RT particle interactions

**coil process**

INIS: 2000-04-12; ETDE: 1978-04-06

*A process for hydrogenating a mixture of petroleum and coal.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal liquefaction

**coils (electric)**

USE electric coils

**coils (magnetic)**

USE magnet coils

**COINCIDENCE CIRCUITS**

BT1 electronic circuits

RT anticoincidence

RT coincidence methods

RT pulse circuits

RT telescope counters

RT time measurement

**COINCIDENCE METHODS**

BT1 counting techniques

NT1 coincidence spectrometry

NT1 tagged photon method

RT coincidence circuits

RT positron cameras

RT synchronization

**COINCIDENCE SPECTROMETRY**

\*BT1 coincidence methods

RT radiation detection

RT spectrometers

**COKE**

1999-07-09

UF beehive coke

UF petroleum coke

NT1 coke breeze

NT1 oven coke

RT coal

RT coke ovens

RT coking

RT formed coke processes

RT fossil fuels

RT semicoke

RT semicoking

RT solid fuels

**COKE BREEZE**

INIS: 2000-04-12; ETDE: 1979-12-10

BT1 coke

**coke-oven gas**

1991-10-02

USE coal gas

**COKE OVENS**

INIS: 1992-06-30; ETDE: 1975-07-29

*Ovens for carbonization of coal to produce coke.*

UF slot ovens

RT carbonization

RT coke

RT coking

RT coking plants

RT formed coke processes

**COKING**

1991-10-03

*Destructive distillation of coal to make coke.*

\*BT1 carbonization

RT clean coke process

RT coal

RT coke

RT coke ovens

RT coking plants

RT retorting

RT semicoke

RT semicoking

**COKING PLANTS**

INIS: 1991-10-03; ETDE: 1979-06-06

BT1 industrial plants

RT coke ovens

RT coking

**colby event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**COLCHICINE**

\*BT1 alkaloids

\*BT1 antimitotic drugs

\*BT1 antipyretics

RT polyploidy

**COLD CATHODE TUBES**

BT1 electron tubes

**COLD EFFLUENTS**

INIS: 2000-04-12; ETDE: 1976-08-04

RT thermal effluents

**COLD FISSION**

INIS: 1992-05-07; ETDE: 1992-08-12

\*BT1 fission

RT heavy ion emission decay

RT kinetic energy

**COLD FUSION**

1991-07-02

BT1 nuclear reactions

RT thermonuclear reactions

**COLD LAKE DEPOSIT**

1992-03-05

\*BT1 oil sand deposits

RT alberta

RT canada

RT oil sands

RT saskatchewan

**COLD NEUTRONS***Neutrons of less velocity than thermal neutrons; at 15 c their energy is below 0.01 eV.*

\*BT1 neutrons

NT1 ultracold neutrons

**COLD PLASMA**

BT1 plasma

**COLD PRESSING**

\*BT1 pressing

RT cold working

**cold recovery**

INIS: 2000-04-12; ETDE: 1981-05-18

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE heat sinks

SEE refrigeration

**COLD STORAGE**

INIS: 1993-01-18; ETDE: 1979-02-23

\*BT1 energy storage

RT evaporative cooling

RT heat storage

RT rock beds

RT solar cooling systems

**COLD TRAPS**

BT1 traps

BT1 vapor condensers

**COLD-WATER PROCESSES**

INIS: 2000-04-12; ETDE: 1976-06-07

*Processes used for recovery of bitumens from tar sands using various types of cationic, anionic and nonanionic wetting agents.*

BT1 fluid injection processes

RT bitumens

RT oil sands

**COLD WORKING**

\*BT1 materials working

NT1 shot peening

RT cold pressing

RT dislocation pinning

RT drawing

RT extrusion

RT forging

RT hardening

RT rolling

RT strain aging

RT strain hardening

RT surface hardening

**COLEOPTERA**

INIS: 1993-07-13; ETDE: 1981-06-16

\*BT1 insects

NT1 beetles

NT2 boll weevil

NT2 tribolium

**COLEOPTILE**

RT germination

RT seedlings

**coleus**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE herbs

USE magnoliopsida

**COLIFORMS***Restricted to papers on water purity analysis.*

\*BT1 bacteria

RT aerobacter

RT escherichia coli

**COLLAGEN**

\*BT1 scleroproteins

RT connective tissue

RT fibroblasts

RT hydroxyproline

RT proline

**collapse (gravitational)**

INIS: 1984-02-22; ETDE: 2002-06-13

USE gravitational collapse

**COLLECTIVE ACCELERATORS**

BT1 accelerators

NT1 electron-ring accelerators

NT1 ionization front accelerators

NT1 plasma betatrons

RT coherent accelerators

**COLLECTIVE EXCITATIONS**

1985-12-10

*See also COLLECTIVE MODEL.*

\*BT1 excitation

RT superconductivity

**COLLECTIVE MODEL**UF *collective motion (in nuclei)*

\*BT1 nuclear models

NT1 rotation-vibration model

RT boson expansion

RT davydov-filipov model

RT hill-wheeler theory

RT quasiparticle-phonon model

**collective motion (in nuclei)**

INIS: 1975-11-27; ETDE: 2002-06-13

USE collective model

**collective states (rotational)**

INIS: 1984-06-25; ETDE: 2002-06-13

USE rotational states

**collective states (vibrational)**

INIS: 1993-11-04; ETDE: 2002-06-13

USE vibrational states

**collective tube model**

INIS: 2000-04-12; ETDE: 1980-03-04

USE coherent tube model

**collector module test facility**

INIS: 2000-04-12; ETDE: 1980-11-08

USE msstf

**collector properties**

INIS: 2000-04-12; ETDE: 1984-03-06

*For reservoir rock.*

USE permeability

USE porosity

**collector properties (rocks)**

INIS: 2000-04-12; ETDE: 1984-02-23

USE permeability

USE porosity

**collectors (dust)**

INIS: 1976-10-07; ETDE: 2002-06-13

USE dust collectors

**collectrons**

USE self-powered neutron detectors

**college station texas training reactor**

INIS: 1993-11-04; ETDE: 2002-06-13

USE nscr reactor

**colleges**

INIS: 1983-06-30; ETDE: 1983-07-20

USE educational facilities

**collider detector at fermilab**

INIS: 1991-12-17; ETDE: 1985-12-13

USE fermilab collider detector

**COLLIDING BEAMS**UF *crossed beams*UF *intersecting beams*

BT1 beams

RT beam-beam interactions

RT beam luminosity

RT interactions

RT linear colliders

**collieries**

INIS: 2000-04-12; ETDE: 1977-06-24

USE coal mines

**COLLIMATORS**

RT beam optics

RT radiotherapy

RT shielding

RT shutters

RT tomography

**COLLISION INTEGRALS**

BT1 integrals

RT boltzmann equation

RT collision probability method

**collision matrix**

USE s matrix

**COLLISION PROBABILITY METHOD**

2005-02-25

*Numerical method for solving integral neutron transport equations.*

BT1 calculation methods

\*BT1 numerical solution

RT boltzmann equation

RT collision integrals

RT neutron transport theory

**COLLISIONAL HEATING**

\*BT1 magnetic-pumping heating

**COLLISIONAL PLASMA**

BT1 plasma

RT pfirsch-schlueter regime

**collisionless boltzmann equation**

INIS: 2000-04-12; ETDE: 1995-09-22

USE boltzmann-vlasov equation

**COLLISIONLESS PLASMA**

BT1 plasma

**COLLISIONS***For low-energy interactions involving photons, electrons, ions, atoms, and molecules; not for the concept covered by NUCLEAR REACTIONS. For collisions with elementary particles and radiations, see also INTERACTIONS.*

NT1 atom collisions

NT2 atom-atom collisions

NT2 atom-molecule collisions

NT2 electron-atom collisions

NT2 ion-atom collisions

NT2 muon-atom collisions

NT2 photon-atom collisions

NT2 positron-atom collisions

NT1 electron collisions

NT2 electron-atom collisions

NT2 electron-electron collisions

NT2 electron-ion collisions

NT2 electron-molecule collisions

NT2 electron-positron collisions

NT2 photon-electron collisions

NT1 ion collisions

NT2 electron-ion collisions

NT2 ion-atom collisions

NT2 ion-ion collisions

NT2 ion-molecule collisions

NT2 photon-ion collisions

NT2 positron-ion collisions

NT1 molecule collisions

NT2 atom-molecule collisions

NT2 electron-molecule collisions

NT2 ion-molecule collisions

NT2 molecule-molecule collisions

NT2 photon-molecule collisions

NT2 positron-molecule collisions

NT1 photon collisions

NT2 photon-atom collisions

NT2 photon-electron collisions

NT2 photon-ion collisions

NT2 photon-molecule collisions

NT2 photon-positron collisions

NT1 positron collisions

NT2 electron-positron collisions

NT2 photon-positron collisions

NT2 positron-atom collisions

NT2 positron-ion collisions

NT2 positron-molecule collisions

NT2 positron-positron collisions

RT brownian movement

RT colloids

RT coupled channel theory

RT dynamics

RT interactions

RT kinetic equations

RT kinetics

RT landau-zener formula

RT particle kinematics

RT pss method

RT scattering

RT sudden approximation

**collodion**

USE nitrocellulose

**colloid coagulation**

USE flocculation

**COLLOIDS**

BT1 dispersions

NT1 agar

NT1 alginic acid

NT1 emulsions

NT2 microemulsions

NT2 photographic emulsions

NT1 foams

NT2 plastic foams

NT2 urea-formaldehyde foams

NT1 gelatin

NT1 gels

NT2 hydrogels

NT2 hydrophylic polymers

NT1 radiocolloids

NT2 thorotrast

NT1 sols

NT2 aerosols

NT3 radioactive aerosols

NT3 smokes

NT4 tobacco smokes

RT brownian movement

RT collisions

RT deflocculating agents

RT dialysis

RT gelation

*RT* gums  
*RT* micellar systems  
*RT* particle size  
*RT* particles  
*RT* sol-gel process  
*RT* superconducting colloid detectors

**COLMONOY**

\*BT1 boron alloys  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 iron alloys  
 \*BT1 nickel base alloys  
 \*BT1 silicon alloys

**cologne spirits**

USE ethanol

**COLOMBIA**

BT1 developing countries  
 \*BT1 south america  
*RT* andes

**COLOMBIAN ORGANIZATIONS**

*INIS: 1987-04-28; ETDE: 1987-06-09*

BT1 national organizations  
 NT1 ian

**colon**

USE large intestine

**colonies**

USE populations

**COLONY FORMATION**

*INIS: 1976-07-30; ETDE: 1976-11-01*

NT1 spleen colony formation  
*RT* animal cells  
*RT* cell cultures  
*RT* cloning

**COLONY FORMING UNITS**

*ETDE: 2005-01-28*

Limited to colony formation on spleen.

(Prior to January 2005 CFU was used for this concept.)

*UF* cfu (colony forming units)  
*RT* spleen colony formation  
*RT* stem cells

**COLOR**

\*BT1 optical properties  
 BT1 organoleptic properties  
*RT* dichroism  
*RT* electrochromism

**COLOR CENTERS**

*1996-07-23*

(B CENTERS and Q CENTERS have also been valid ETDE descriptors.)

*UF* b centers  
*UF* q centers  
 \*BT1 vacancies  
 NT1 a centers  
 NT1 e centers  
 NT1 f centers  
 NT1 h centers  
 NT1 i centers  
 NT1 m centers  
 NT1 r centers  
 NT1 s centers  
 NT1 u centers  
 NT1 v centers  
 NT1 x centers  
 NT1 z centers

**COLOR MODEL**

*1975-09-16*

\*BT1 quark model  
*RT* charm particles  
*RT* glueballs  
*RT* preons

*RT* quantum chromodynamics

**COLORADO**

*1997-06-19*

*UF* crystal river  
 \*BT1 usa  
 NT1 mahogany zone  
 NT1 sand wash basin  
*RT* colorado river basin  
*RT* green river formation  
*RT* gunnison river  
*RT* north platte river basin  
*RT* paradox basin  
*RT* permian basin  
*RT* piceance creek  
*RT* piceance creek basin  
*RT* rio blanco oil shale project  
*RT* rio grande rift  
*RT* rio grande river  
*RT* rocky flats plant  
*RT* uinta basin  
*RT* uinta formation  
*RT* us naval oil shale reserves  
*RT* wasatch formation  
*RT* white river  
*RT* yellow creek  
*RT* yellow creek basin

**COLORADO PLATEAU**

BT1 mountains

**COLORADO RIVER**

\*BT1 rivers  
*RT* colorado river basin

**COLORADO RIVER BASIN**

*1991-10-03*

BT1 watersheds  
*RT* colorado  
*RT* colorado river

**COLORADO TRIGA-MK-3 REACTOR**

*2000-04-12*

*SF* triga-mk-3 reactor  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**COLORATION**

*RT* bleaching

**COLORIMETRIC DOSEMETERS**

\*BT1 dosimeters  
*RT* dyes  
*RT* glass  
*RT* polymers

**colorimetry**

USE absorption spectroscopy

**columbia generating station**

*2005-09-15*

USE wnp-2 reactor

**COLUMBIA HIGH-BETA TOKAMAK**

*INIS: 1991-08-12; ETDE: 1991-09-13*

*UF* hbt-ep  
 \*BT1 tokamak devices

**columbia missouri research reactor**

*INIS: 1984-06-21; ETDE: 2002-06-13*

USE murr reactor

**COLUMBIA RIVER**

\*BT1 rivers  
*RT* columbia river basin  
*RT* washington

**COLUMBIA RIVER BASIN**

*INIS: 1991-10-03; ETDE: 1978-10-23*

BT1 watersheds  
 NT1 pasco basin  
*RT* columbia river

*RT* idaho  
*RT* oregon  
*RT* washington

**columbium**

USE niobium

**COLUMN PACKING**

*UF* berl saddles  
*UF* packing (column)  
*UF* raschig rings  
 BT1 packings  
*RT* extraction columns

**column separation (fluid mechanics)**

*INIS: 1990-12-07; ETDE: 2002-06-13*  
 (Prior to December 1990, this was a valid descriptor.)

USE cavitation

**column separation (isotopes)**

*INIS: 1990-12-07; ETDE: 2002-06-13*

USE isotope separation

**columns (extraction)**

USE extraction columns

**columns (mechanical)**

*2000-04-12*

USE mechanical structures

**columns (structural)**

*INIS: 1983-09-06; ETDE: 2002-06-13*  
 (Prior to October 1983 MECHANICAL STRUCTURES was used for this concept.)  
 USE supports

**columns (thermal)**

USE thermal columns

**COMANCHE PEAK-1 REACTOR**

*TXU Generation Co. LP, Glen Rose, Texas, USA.*

\*BT1 pwr type reactors

**COMANCHE PEAK-2 REACTOR**

*TXU Generation Co. LP, Glen Rose, Texas, USA.*

\*BT1 pwr type reactors

**COMBINED COLLECTORS**

*INIS: 2000-04-12; ETDE: 1978-09-11*  
*Combined photovoltaic/thermal collectors.*

\*BT1 solar collectors  
*RT* photovoltaic cells  
*RT* solar cells

**COMBINED-CYCLE FW PROCESS**

*INIS: 2000-04-12; ETDE: 1977-05-07*  
*Process using a two-stage entrained gasifier similar to the bi-gas design, operating at moderate pressure and using air, that can be modified to oxygen blowing.*

*UF* foster wheeler gasification process  
 \*BT1 coal gasification  
*RT* entrainment

**COMBINED-CYCLE POWER PLANTS**

*INIS: 1991-10-03; ETDE: 1976-03-11*

(Prior to March 1976 the descriptors COMBINED CYCLES and FOSSIL-FUEL POWER PLANTS or THERMAL POWER PLANTS were used for indexing this concept in ETDE.)

*UF* combined gas and steam cycle power plants

\*BT1 thermal power plants  
 NT1 mhd generator etf  
*RT* coal-fired gas turbines  
*RT* combined cycles  
*RT* gas turbine power plants

- RT hot gas cleanup  
RT toso-co-dyne process

**COMBINED CYCLES**

1991-10-03

- BT1 thermodynamic cycles  
RT combined-cycle power plants  
RT electric power  
RT power plants  
RT total energy systems

**combined gas and steam cycle power plants**

INIS: 1991-10-03; ETDE: 1976-03-11

Combined gas and steam cycle power plants.

USE combined-cycle power plants

**combined heat-power generation**

INIS: 1982-12-03; ETDE: 2002-06-13

USE cogeneration

**combined pinch devices (linear)**

USE linear screw pinch devices

**COMBINED SOX/NOX PROCESSES**

INIS: 1992-07-20; ETDE: 1990-05-15

Processes capable of removing SOX and NOX from flue gas.

UF argonox process

UF desonox process

\*BT1 denitrification

\*BT1 desulfurization

NT1 noxso process

**combined steam-power generation**

INIS: 1982-12-03; ETDE: 1977-05-07

USE cogeneration

**COMBINED THERAPY**

INIS: 1993-08-04; ETDE: 1986-01-16

The use of both radiotherapy and chemotherapy to achieve a synergistic effect.

\*BT1 therapy

RT antineoplastic drugs

RT chemotherapy

RT neoplasms

RT quality of life

RT radiotherapy

RT side effects

**COMBUSTION**

UF incineration

\*BT1 oxidation

BT1 thermochemical processes

NT1 cocombustion

NT1 fluidized-bed combustion

NT1 in-situ combustion

NT1 oxyfuel combustion process

NT1 pulse combustion

NT1 reverse combustion

NT1 spontaneous combustion

NT1 staged combustion

RT afterburners

RT burners

RT calorific value

RT combustion instability

RT combustion kinetics

RT combustion products

RT combustion properties

RT combustion waves

RT detonation waves

RT dry ashing

RT exhaust recirculation systems

RT fire prevention

RT fires

RT flames

RT flammability

RT flaring

RT fuel-air ratio

RT fuel injection systems

RT gas burners

- RT ignition  
RT ignition quality  
RT ignition systems  
RT incinerators  
RT knock control  
RT oil burners  
RT spark ignition engines  
RT stratified charge engines  
RT wet ashing

**COMBUSTION CHAMBERS**

1997-06-19

Containers in which the actual burning of fuel takes place.

- RT combustors  
RT engines  
RT fuel injection systems  
RT furnaces  
RT pulse combustion  
RT pulse combustors  
RT spark ignition engines

**COMBUSTION CONTROL**

INIS: 1997-06-19; ETDE: 1979-03-28

Control of factors (temperature, preheating, draft, excess or deficient air, etc.) which affect combustion efficiency.

- BT1 control  
RT boilers  
RT combustors  
RT fuel-air ratio  
RT oxyfuel combustion process  
RT pulse combustion  
RT pulse combustors

**combustion engineering gasification process**

INIS: 2000-04-12; ETDE: 1977-05-07

USE ce entrained fuel process

**combustion engineering standard reactor**

1999-04-21

USE ce standard reactor

**combustion gases**

INIS: 1976-07-16; ETDE: 2002-06-13

USE flue gas

**COMBUSTION HEAT**

UF heat of combustion

BT1 combustion properties

\*BT1 heat

\*BT1 reaction heat

RT calorific value

**COMBUSTION INSTABILITY**

INIS: 2000-04-12; ETDE: 1976-08-24

BT1 instability

RT combustion

**COMBUSTION KINETICS**

INIS: 1991-10-03; ETDE: 1976-08-24

\*BT1 chemical reaction kinetics

RT combustion

RT flame propagation

**COMBUSTION PRODUCTS**

INIS: 1983-03-15; ETDE: 1975-10-01

NT1 ashes

NT2 fly ash

NT1 soot

RT 3-methylcholanthrene

RT combustion

RT exhaust gases

RT flue gas

RT gaseous wastes

RT pyrolysis products

RT solid wastes

**COMBUSTION PROPERTIES**

INIS: 1992-07-10; ETDE: 1975-11-11

UF flame temperature

UF flash point

NT1 calorific value

NT1 combustion heat

NT1 flammability

RT combustion

RT thermodynamic properties

**COMBUSTION WAVES**

INIS: 2000-06-27; ETDE: 1976-09-14

Narrow zones of burning propagated through a combustible medium.

- RT combustion  
RT detonation waves  
RT explosions  
RT ignition  
RT shock waves

**COMBUSTORS**

INIS: 1997-06-19; ETDE: 1976-11-01

Combustion chambers together with their associated burners, igniters, and fuel injection devices.

- NT1 catalytic combustors  
NT1 cyclone combustors  
NT1 fluidized-bed combustors  
NT1 pulse combustors  
RT burners  
RT combustion chambers  
RT combustion control  
RT ignition systems

**COMECON**

UF cmea

UF council for mutual economic assistance

BT1 international organizations

**COMETS**

NT1 halley comet

RT solar system

**comissao nacional energia nuclear de brazil**

INIS: 1993-11-05; ETDE: 2002-06-13

USE brazilian cnen

**comitato nazionale energia nucleare e alternative**

INIS: 1993-11-05; ETDE: 2002-06-13

Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative.

USE italian enea

**comitato nazionale per l'energia nucleare**

INIS: 1999-05-06; ETDE: 1976-06-07

USE cnen

**commensalism**

INIS: 1984-12-04; ETDE: 1980-01-15

USE symbiosis

**commerce**

INIS: 2000-04-12; ETDE: 1977-12-22

USE trade

**commerce (nuclear)**

INIS: 1976-12-08; ETDE: 1978-03-03

USE nuclear trade

**COMMERCIAL BUILDINGS**

1993-01-28

UF banks

UF stores

BT1 buildings

NT1 hotels

NT1 shopping centers



RT apartment buildings  
 RT commercial sector  
 RT office buildings  
 RT restaurants  
 RT skating rinks

### commercial demonstration fast reactor

INIS: 1999-04-19; ETDE: 1979-10-23  
 USE cdf reactor

### commercial licenses

INIS: 1994-08-12; ETDE: 1996-02-09  
 (Until August 1994 this was a valid descriptor.)  
 USE licenses

### commercial nuclear ships

INIS: 1976-11-17; ETDE: 1976-08-24  
 USE nuclear merchant ships

### COMMERCIAL SECTOR

INIS: 1986-07-09; ETDE: 1976-12-15  
 SF end use sector  
 RT commercial buildings  
 RT commercialization  
 RT economic development  
 RT market  
 RT marketers  
 RT resellers  
 RT residential sector  
 RT restaurants  
 RT retailers  
 RT sectoral analysis  
 RT service sector  
 RT small businesses  
 RT trade

### COMMERCIALIZATION

INIS: 1984-10-23; ETDE: 1977-03-04  
 Establishment of a new technology for large-scale use after research, development, and demonstration.  
 SF technology development  
 RT biotechnology  
 RT commercial sector  
 RT demonstration programs  
 RT economic development  
 RT feasibility studies  
 RT gasoline plants  
 RT industry  
 RT manufacturers  
 RT market  
 RT technology impacts  
 RT technology transfer  
 RT technology utilization

### COMMINUTION

1999-05-06  
 UF pulverization  
 NT1 crushing  
 NT1 grinding  
 RT coal preparation  
 RT fracturing  
 RT fragmentation  
 RT pulverizers

### commissariat a l'energie atomique

INIS: 1993-11-05; ETDE: 2002-06-13  
 USE cea

### COMMISSIONING

1996-04-29  
 NT1 reactor commissioning  
 RT decommissioning

### commissioning (reactor)

USE reactor commissioning

### commodities

INIS: 2000-04-12; ETDE: 1975-07-29  
 (Prior to February 1997 this was a valid ETDE descriptor.)  
 SEE sales

### common market

1997-01-28  
 (Until December 1994 this was a valid descriptor.)  
 USE internal market

### COMMUNICATIONS

(From July 1984 till April 1997 CRYPTOGRAPHY was a valid ETDE descriptor.)  
 NT1 data transmission  
 NT2 telemetry  
 RT advertising  
 RT cryptography  
 RT data transmission systems  
 RT information theory  
 RT man-machine systems  
 RT radio equipment  
 RT redundancy  
 RT signals  
 RT speech  
 RT telephones  
 RT television

### COMMUNITIES

1992-03-17  
 (From September 1977 till March 1997 PLANNED COMMUNITIES was a valid ETDE descriptor.)  
 SF planned communities  
 RT human populations  
 RT ices program  
 RT residential sector  
 RT socio-economic factors

### communities (ecological)

USE ecosystems

### COMMUTATION RELATIONS

RT canonical dimension  
 RT current algebra  
 RT mathematical operators  
 RT quantum mechanics

### COMMUTATORS

\*BT1 quantum operators  
 NT1 current commutators  
 NT2 sigma terms  
 RT current algebra

### COMPACT COMMISSIONS

INIS: 1992-08-20; ETDE: 1984-03-19  
 Joint negotiating and coordinating body for a compact's member states.  
 RT intergovernmental cooperation  
 RT low-level radioactive wastes  
 RT radioactive waste management  
 RT state government

### compact helical system torsatron

1991-02-11  
 USE chs torsatron

### COMPACT IGNITION TOKAMAK

INIS: 1987-04-28; ETDE: 1986-11-20  
 A tokamak proposed as a next step after TFTR.  
 \*BT1 tokamak devices  
 \*BT1 tokamak type reactors  
 RT thermonuclear ignition

### COMPACT LINEAR COLLIDER

2015-09-08  
 a proposed linear electron-positron collider with collision energy up to 5 TeV.  
 UF clic

\*BT1 linear colliders

### compact reprocessing of advanced fuels in lead cell

2009-12-23  
 USE coral reprocessing plant

### compact toroids

INIS: 1990-12-07; ETDE: 2002-06-13  
 USE compact torus

### COMPACT TORUS

INIS: 1983-03-15; ETDE: 1982-10-05  
 Torus with aspect ratio nearly equal to one.  
 UF compact toroids  
 \*BT1 closed plasma devices  
 BT1 tori  
 NT1 field-reversed theta pinch devices  
 NT1 rotamak devices  
 RT ignition spherical torus  
 RT plasma  
 RT plasma rings  
 RT toroidal configuration

### COMPACTIFICATION

INIS: 1985-10-23; ETDE: 1985-11-19  
 Process by which the number of space-time dimensions may be reduced.  
 UF dimensional compactification  
 RT dimensions  
 RT kaluza-klein theory  
 RT space-time  
 RT supergravity  
 RT symmetry breaking

### COMPACTING

BT1 fabrication  
 RT agglomeration  
 RT briquetting  
 RT caking  
 RT cementing  
 RT compactors  
 RT compacts  
 RT pelletizing  
 RT powder metallurgy  
 RT pressing  
 RT rolling

### COMPACTORS

INIS: 1992-08-20; ETDE: 1977-06-21  
 BT1 equipment  
 RT compacting  
 RT compacts

### COMPACTS

RT compacting  
 RT compactors  
 RT powders

### compagnie generale des matieres nucleaires

1977-03-29  
 SEE areva nc

### COMPARATIVE EVALUATIONS

Use in coordination with the concepts being compared. In the case of numerical data see also EVALUATED DATA or COMPILED DATA.

BT1 evaluation  
 RT bioassay  
 RT correlations  
 RT cost benefit analysis  
 RT data  
 RT efficiency  
 RT errors  
 RT feasibility studies  
 RT functional models  
 RT hypothesis  
 RT interlaboratory comparisons  
 RT mathematical models

- RT measuring methods  
 RT radiation effects  
 RT resolution  
 RT structural models

**COMPARATOR CIRCUITS**

Provide indication of agreement or disagreement between signals.

- BT1 electronic circuits

**COMPARTMENTS**

- RT biophysics  
 RT extracellular space  
 RT radionuclide kinetics  
 RT retention  
 RT retention functions

**COMPASS-D TOKAMAK**

INIS: 1999-03-24; ETDE: 1999-08-30

Culham Science Center, Abingdon, Oxfordshire, UK.

- \*BT1 tokamak devices

**COMPASS DETECTOR**

2015-10-27

- UF compass experiment  
 \*BT1 radiation detectors  
 RT cern  
 RT cern sps synchrotron

**compass experiment**

2015-10-27

- USE compass detector

**COMPATIBILITY**

Mutual behaviour of 2 or more materials joined or mixed together.

- RT interchangeability  
 RT joining  
 RT joints  
 RT mixtures

**compatibility (immunological)**

- USE immunity

**compensation (workmens)**

- USE workmens compensation

**COMPETITION**

INIS: 1986-07-09; ETDE: 1976-07-07

Contest among individuals; may be used in any field.

- UF market shares  
 RT antitrust laws  
 RT behavior  
 RT cartels  
 RT ecological succession  
 RT economics  
 RT horizontal integration  
 RT marketers  
 RT population dynamics  
 RT resellers  
 RT retailers  
 RT sales  
 RT trade  
 RT vertical divestiture  
 RT vertical integration

**competitive protein binding**

- USE cpb

**COMPILED DATA**

INIS: 1978-10-20; ETDE: 1979-02-27

Use only in conjunction with literary indicator N for data flagging.

- \*BT1 numerical data  
 RT data acquisition  
 RT data compilation  
 RT nuclear data collections

**COMPLEMENT**

A system of 18 proteins found in blood which plays a central role in the organism's response to microbial infection.

- UF properdin  
 \*BT1 proteins  
 RT antibodies  
 RT antigen-antibody reactions  
 RT blood plasma  
 RT hemolysins  
 RT immune system diseases  
 RT lymphokines  
 RT zymosan

**COMPLETE INTEGRABILITY**

2018-02-16

- BT1 integrability

**COMPLEX MANIFOLDS**

- BT1 mathematical manifolds

**COMPLEX TERRAIN**

INIS: 1992-06-05; ETDE: 1983-03-07

Land sites that are made up of a combination of mountains, valleys, plateaus, watersheds, etc.

- RT mountains  
 RT topography  
 RT valleys  
 RT watersheds

**COMPLEXES**

1996-07-23

- NT1 actinide complexes  
 NT2 actinium complexes  
 NT2 americium complexes  
 NT2 berkelium complexes  
 NT2 californium complexes  
 NT2 curium complexes  
 NT2 einsteinium complexes  
 NT2 fermium complexes  
 NT2 lawrencium complexes  
 NT2 mendelevium complexes  
 NT2 neptunium complexes  
 NT3 neptunyl complexes  
 NT2 nobelium complexes  
 NT2 plutonium complexes  
 NT3 plutonyl complexes  
 NT2 protactinium complexes  
 NT2 thorium complexes  
 NT2 uranium complexes  
 NT3 uranyl complexes  
 NT1 alkali metal complexes  
 NT2 cesium complexes  
 NT2 francium complexes  
 NT2 lithium complexes  
 NT2 potassium complexes  
 NT2 rubidium complexes  
 NT2 sodium complexes  
 NT1 alkaline earth metal complexes  
 NT2 barium complexes  
 NT2 beryllium complexes  
 NT2 calcium complexes  
 NT2 magnesium complexes  
 NT2 radium complexes  
 NT2 strontium complexes  
 NT1 aluminium complexes  
 NT1 amines  
 NT1 ammonium complexes  
 NT1 antimony complexes  
 NT1 argon complexes  
 NT1 arsenic complexes  
 NT1 astatine complexes  
 NT1 bismuth complexes  
 NT1 boron complexes  
 NT1 bromine complexes  
 NT1 cadmium complexes  
 NT1 carbon complexes  
 NT1 chelates  
 NT1 chlorine complexes

- NT1 fluorine complexes  
 NT1 gallium complexes  
 NT1 germanium complexes  
 NT1 helium complexes  
 NT1 heteropolyanions  
 NT1 hydrogen complexes  
 NT1 indium complexes  
 NT1 iodine complexes  
 NT1 krypton complexes  
 NT1 lawrencium complexes  
 NT1 lead complexes  
 NT1 mercury complexes  
 NT1 neon complexes  
 NT1 nitrogen complexes  
 NT1 oxygen complexes  
 NT1 phosphorus complexes  
 NT1 polonium complexes  
 NT1 radon complexes  
 NT1 rare earth complexes  
 NT2 cerium complexes  
 NT2 dysprosium complexes  
 NT2 erbium complexes  
 NT2 europium complexes  
 NT2 gadolinium complexes  
 NT2 holmium complexes  
 NT2 lanthanum complexes  
 NT2 lutetium complexes  
 NT2 neodymium complexes  
 NT2 praseodymium complexes  
 NT2 promethium complexes  
 NT2 samarium complexes  
 NT2 terbium complexes  
 NT2 thulium complexes  
 NT2 ytterbium complexes  
 NT1 selenium complexes  
 NT1 silicon complexes  
 NT1 sulfur complexes  
 NT1 tellurium complexes  
 NT1 thallium complexes  
 NT1 tin complexes  
 NT1 transition element complexes  
 NT2 chromium complexes  
 NT2 cobalt complexes  
 NT2 copper complexes  
 NT3 ceruloplasmin  
 NT2 gold complexes  
 NT2 hafnium complexes  
 NT2 iridium complexes  
 NT2 iron complexes  
 NT3 ferricyanides  
 NT3 ferritin  
 NT3 ferrocene  
 NT3 ferrocyanides  
 NT2 manganese complexes  
 NT2 molybdenum complexes  
 NT2 nickel complexes  
 NT2 niobium complexes  
 NT2 osmium complexes  
 NT2 palladium complexes  
 NT2 platinum complexes  
 NT2 rhenium complexes  
 NT2 rhodium complexes  
 NT2 ruthenium complexes  
 NT2 scandium complexes  
 NT2 silver complexes  
 NT2 tantalum complexes  
 NT2 technetium complexes  
 NT2 titanium complexes  
 NT2 tungsten complexes  
 NT2 vanadium complexes  
 NT2 yttrium complexes  
 NT2 zirconium complexes  
 NT1 transuranium complexes  
 NT2 americium complexes  
 NT2 berkelium complexes  
 NT2 californium complexes  
 NT2 curium complexes  
 NT2 einsteinium complexes  
 NT2 fermium complexes

**NT2** mendelevium complexes  
**NT2** neptunium complexes  
**NT3** neptunyl complexes  
**NT2** nobelium complexes  
**NT2** plutonium complexes  
**NT3** plutonyl complexes  
**NT2** transplutonium complexes  
**NT3** lawrencium complexes  
**NT3** transactinide complexes  
**NT4** rutherfordium complexes  
**NT1** xenon complexes  
**NT1** zinc complexes  
*RT* adducts  
*RT* complexometry  
*RT* coordination number  
*RT* coordination valences  
*RT* crown ethers  
*RT* ligands  
*RT* ligases  
*RT* metalloproteins

**complexing agents**

*INIS: 2000-04-12; ETDE: 1985-05-31*  
 USE chelating agents

**COMPLEXOMETRY**

*RT* complexes

**COMPLIANCE**

*INIS: 1993-07-28; ETDE: 1976-11-01*  
*SF* escrow accounts  
*RT* administrative procedures  
*RT* enforcement  
*RT* laws  
*RT* legal aspects  
*RT* recommendations  
*RT* regulations  
*RT* standards  
*RT* violations

**COMPLIANCE AUDITS**

*INIS: 1994-09-29; ETDE: 1983-05-21*  
**BT1** audits

**component cooling systems**

2000-04-12  
 USE auxiliary water systems

**COMPOSITE MATERIALS**

*UF* materials (composite)  
**BT1** materials  
**NT1** cermets  
**NT2** td-nickel  
**NT2** td-nickel chromium  
**NT1** concrete-plastic composites  
**NT1** fiberglass  
**NT1** prestressed concrete  
**NT1** reinforced concrete  
**NT1** superconducting composites  
**NT1** wood-plastic composites  
*RT* building materials  
*RT* reinforced materials

**COMPOSITE MODELS**

*UF* rishon model  
**\*BT1** particle models  
**NT1** bootstrap model  
**NT1** cim model  
**NT1** quark model  
**NT2** bag model  
**NT2** color model  
**NT2** flavor model  
**NT2** string models  
**NT3** superstring models  
*RT* preons  
*RT* quarks

**COMPOST**

*INIS: 1992-03-17; ETDE: 1981-07-18*  
**\*BT1** organic wastes  
*RT* composting

*RT* sewage

**COMPOSTING**

*INIS: 1992-03-17; ETDE: 1975-09-11*  
**\*BT1** waste processing  
*RT* compost  
*RT* decomposition

**COMPOUND NUCLEI**

*RT* hauser-feshbach theory  
*RT* jackson model  
*RT* nuclear models  
*RT* peierls method  
*RT* porter-thomas distribution

**COMPOUND-NUCLEUS REACTIONS**

**BT1** nuclear reactions  
*RT* deep inelastic heavy ion reactions  
*RT* evaporation model  
*RT* heavy ion fusion reactions  
*RT* incomplete fusion reactions  
*RT* quasi-fission

**COMPOUND PARABOLIC CONCENTRATORS**

*INIS: 2000-04-12; ETDE: 1976-11-17*  
*UF* winston collectors  
**\*BT1** solar concentrators  
*RT* parabolic reflectors

**compounds (inorganic)**

*INIS: 1986-07-10; ETDE: 1980-11-25*  
 USE inorganic compounds

**compounds (organic)**

USE organic compounds

**COMPREGNACITE**

2000-04-12  
**\*BT1** oxide minerals  
**\*BT1** uranium minerals  
*RT* uranium oxides

**COMPRESSED AIR**

1992-01-16  
**\*BT1** air  
**\*BT1** compressed gases  
*RT* compressed air energy storage  
*RT* compressed air energy storage equipment  
*RT* compressed air storage power plants  
*RT* piston effect

**COMPRESSED AIR ENERGY STORAGE**

*INIS: 1993-01-27; ETDE: 1976-09-28*  
*UF* caes  
**\*BT1** energy storage  
*RT* compressed air  
*RT* compressed air energy storage equipment  
*RT* compressed air storage power plants  
*RT* compressed gases

**COMPRESSED AIR ENERGY STORAGE EQUIPMENT**

*INIS: 2000-04-12; ETDE: 1977-09-19*  
**BT1** equipment  
*RT* compressed air  
*RT* compressed air energy storage  
*RT* compressed air storage power plants  
*RT* compressed gases  
*RT* energy storage systems  
*RT* peaking power plants

**COMPRESSED AIR STORAGE POWER PLANTS**

*INIS: 1993-01-27; ETDE: 1978-09-13*  
*Compressed air storage power plants.*  
*UF* caes plant  
**\*BT1** peaking power plants  
*RT* compressed air

*RT* compressed air energy storage  
*RT* compressed air energy storage equipment  
*RT* compressed gases

**compressed baryonic matter experiment**

2017-11-01  
 USE cbm detector

**COMPRESSED GASES**

*INIS: 1985-01-17; ETDE: 1976-03-11*  
**\*BT1** gases  
**NT1** compressed air  
**NT1** compressed natural gas  
*RT* compressed air energy storage equipment  
*RT* compressed air energy storage power plants  
*RT* compressibility  
*RT* compression  
*RT* gas compressors

**COMPRESSED NATURAL GAS**

2015-03-31  
**\*BT1** compressed gases  
**\*BT1** natural gas

**compressed work week**

*INIS: 2000-04-12; ETDE: 1984-05-08*  
 USE alternative work schedules

**COMPRESSIBILITY**

**BT1** mechanical properties  
*RT* compressed gases  
*RT* dilatancy  
*RT* grueneisen constant

**COMPRESSIBLE FLOW**

**BT1** fluid flow  
*RT* aerodynamics  
*RT* gas flow  
*RT* subsonic flow  
*RT* supersonic flow  
*RT* transonic flow

**COMPRESSION**

**NT1** magnetic compression  
*RT* compressed gases  
*RT* compression ratio  
*RT* pressurization

**COMPRESSION RATIO**

*INIS: 2000-04-12; ETDE: 1981-03-17*  
*In internal combustion engines, the ratio between the volume displaced by the piston plus the clearance space to the volume of the clearance space.*  
**BT1** dimensionless numbers  
*RT* compression  
*RT* internal combustion engines

**COMPRESSION STRENGTH**

*UF* strength (compression)  
**BT1** mechanical properties  
*RT* tensile properties

**COMPRESSOR BLADES**

*INIS: 1999-03-02; ETDE: 1975-10-01*  
 (Until March 1999, this concept was indexed by the combination of COMPRESSORS and TURBINE BLADES.)  
*UF* blades (compressor)  
*RT* compressors  
*RT* turbine blades

**COMPRESSORS**

*SF* condensers  
**NT1** gas compressors  
**NT1** magnetoplasma compressors  
**NT1** superchargers  
**NT2** turbochargers

RT blowers  
 RT compressor blades  
 RT pressurizers  
 RT pumps  
 RT reactor cooling systems  
 RT turbomachinery

**COMPTON DIODE DETECTORS**

\*BT1 radiation detectors  
 RT gamma detection  
 RT self-powered detectors

**COMPTON EFFECT**

1998-02-18

UF *compton scattering*  
 \*BT1 elastic scattering  
 \*BT1 electromagnetic interactions  
 RT compton scattering tomography  
 RT compton wavelength  
 RT klein-nishina formula

***compton scattering***

USE compton effect

**COMPTON SCATTERING TOMOGRAPHY**

INIS: 1980-04-02; ETDE: 1980-05-06

*Based on the detection by a gamma camera of the 90 degree Compton scattering of a planar gamma beam produced by an external source.*

\*BT1 tomography  
 RT biomedical radiography  
 RT compton effect  
 RT gamma cameras

**COMPTON SPECTROMETERS**

\*BT1 gamma spectrometers

**COMPTON WAVELENGTH**

1998-02-18

*Wavelength characteristic of particles; its value is  $h/(mc)$ .*

RT compton effect

***computational fluid dynamics***

2006-04-25

USE computerized simulation  
 USE fluid mechanics

***computed tomography***

INIS: 1980-04-02; ETDE: 1980-05-07

USE computerized tomography

**COMPUTER-AIDED DESIGN**

INIS: 1977-07-05; ETDE: 1976-02-19

BT1 design  
 RT computer-aided manufacturing  
 RT computer graphics  
 RT computer-graphics devices  
 RT computers  
 RT mathematical models  
 RT planning

***computer-aided instruction***

2016-06-24

(Prior June 2016 this was a valid descriptor.)

USE e-learning

**COMPUTER-AIDED MANUFACTURING**

INIS: 1984-01-18; ETDE: 1983-07-07

UF *cam*  
 BT1 manufacturing  
 RT automation  
 RT computer-aided design  
 RT fabrication  
 RT machine tools  
 RT on-line control systems  
 RT production

**COMPUTER ARCHITECTURE**

INIS: 1987-02-25; ETDE: 1986-07-25

*Assembly of logical elements to form a computing system.*

RT array processors  
 RT computer output devices  
 RT computers  
 RT digital systems  
 RT distributed structures  
 RT electronic equipment  
 RT equipment interfaces  
 RT neural networks  
 RT real time systems

***computer axial tomography scanning***

INIS: 1978-01-16; ETDE: 1978-03-03

USE cat scanning

**COMPUTER CALCULATIONS**

*Methods, not results.*

UF *calculations (computer)*  
 RT boundary element method  
 RT computer graphics  
 RT computer-graphics devices  
 RT computerized simulation  
 RT computers  
 RT data analysis  
 RT data visualization  
 RT mathematical models  
 RT mesh generation  
 RT numerical analysis  
 RT sensitivity analysis

**COMPUTER CODES**

*Computer codes are indexed by their initial letter and CODES, e.g., A CODES. If the code name begins with a number the code is indexed to NUMBER CODES.*

UF *computer programs*  
 SF *random number generators*  
 SF *text editors*  
 NT1 a codes  
 NT1 b codes  
 NT1 c codes  
 NT1 d codes  
 NT1 e codes  
 NT1 executive codes  
 NT1 f codes  
 NT1 g codes  
 NT1 h codes  
 NT1 i codes  
 NT1 j codes  
 NT1 k codes  
 NT1 l codes  
 NT1 m codes  
 NT1 n codes  
 NT1 number codes  
 NT1 o codes  
 NT1 p codes  
 NT1 q codes  
 NT1 r codes  
 NT1 s codes  
 NT1 t codes  
 NT1 translators  
 NT1 u codes  
 NT1 v codes  
 NT1 w codes  
 NT1 x codes  
 NT1 y codes  
 NT1 z codes  
 RT algorithms  
 RT computer program documentation  
 RT programming  
 RT programming languages  
 RT speech synthesizers

**COMPUTER GRAPHICS**

1982-12-03

*The technique of combining computer calculations with various display devices,*

*printers, plotters, etc., to render information in graphical or pictorial format.*

UF *chernoff faces*  
 RT computer-aided design  
 RT computer calculations  
 RT computer-graphics devices  
 RT computer output devices  
 RT data visualization  
 RT diagrams  
 RT display devices  
 RT interactive display devices  
 RT plotters

**COMPUTER-GRAPHICS DEVICES**

BT1 computer output devices  
 NT1 display devices  
 NT2 interactive display devices  
 NT1 plotters  
 RT computer-aided design  
 RT computer calculations  
 RT computer graphics  
 RT diagrams

***computer languages***

USE programming languages

**COMPUTER NETWORKS**

INIS: 1995-10-27; ETDE: 1976-11-01

*A complex consisting of two or more interconnected computing units.*

UF *networks (computer)*  
 NT1 internet  
 NT1 local area networks  
 RT computers  
 RT cyber attacks  
 RT data transmission  
 RT information systems  
 RT on-line systems  
 RT real time systems

**COMPUTER OUTPUT DEVICES**

INIS: 1990-12-06; ETDE: 1976-03-22

NT1 computer-graphics devices  
 NT2 display devices  
 NT3 interactive display devices  
 NT2 plotters  
 RT computer architecture  
 RT computer graphics  
 RT computers

**COMPUTER PROGRAM DOCUMENTATION**

INIS: 1987-09-22; ETDE: 1987-10-23

*Use only in conjunction with literary indicator V for indexing the actual documentation which enables the installation and use of a computer code.*

RT computer codes  
 RT manuals  
 RT programming  
 RT programming languages

***computer programming***

USE programming

***computer programs***

USE computer codes

***computer simulation***

INIS: 1984-04-04; ETDE: 2002-06-13

USE computerized simulation

**COMPUTERIZED CONTROL SYSTEMS**

INIS: 1991-10-07; ETDE: 1980-03-04

\*BT1 on-line control systems  
 NT1 adaptive systems  
 RT computers  
 RT control equipment  
 RT cyber attacks  
 RT energy management systems

- RT fault tolerant computers  
RT redundancy

**COMPUTERIZED SIMULATION**

INIS: 1996-04-16; ETDE: 1979-04-11

Computer calculated representation of a process, device or concept in mathematical form.

- UF computational fluid dynamics  
UF computer simulation  
BT1 simulation  
NT1 large-eddy simulation  
RT computer calculations  
RT data processing  
RT data visualization  
RT energy models  
RT molecular dynamics method  
RT numerical analysis

**COMPUTERIZED TOMOGRAPHY**

INIS: 1980-04-02; ETDE: 1980-05-06

An imaging technique in which transmission measurements of a narrow beam of rays, photons or particles made at several different angles around an object may be used with a computer program to obtain a clear image of one plane of the object.

- UF computed tomography  
\*BT1 tomography  
NT1 cat scanning  
NT1 emission computed tomography  
NT2 ecat scanning  
NT2 positron computed tomography  
NT2 single photon emission computed tomography  
NT1 photon computed tomography  
NT1 proton computed tomography  
RT biomedical radiography  
RT ct-guided radiotherapy  
RT data visualization  
RT image processing  
RT image scanners  
RT sequential scanning

**COMPUTERS**

1996-11-13

(Most UF terms below have been valid ETDE descriptors.)

- UF amdahl computers  
UF atlas computers  
UF burroughs computers  
UF denelcor computers  
UF ferranti computers  
UF fluidic computers  
UF ge computers  
UF illiac computers  
UF kdf computers  
UF maniac computers  
UF midas computer  
UF on-line computers  
UF optical computers  
UF orion computers  
UF philco computers  
UF servers (computers)  
UF tosbac computers  
UF ural computers  
UF varian computers  
UF xds computers  
UF xerox data systems computers  
NT1 analog computers  
NT1 apple computers  
NT1 besm computers  
NT1 cdc computers  
NT1 cray computers  
NT1 dec computers  
NT2 pdp computers  
NT1 digital computers  
NT2 array processors  
NT2 calculators  
NT2 fault tolerant computers

- NT2 microcomputers  
NT3 personal computers  
NT2 supercomputers  
NT1 es computers  
NT1 facom computers  
NT1 fujitsu computers  
NT1 hitachi computers  
NT1 honeywell computers  
NT1 hp computers  
NT1 hybrid computers  
NT1 hypercube computers  
NT1 ibm computers  
NT1 icl computers  
NT1 minsk computers  
NT1 nec computers  
NT1 nord computers  
NT1 process computers  
NT1 quantum computers  
NT1 razdan computers  
NT1 sds computers  
NT1 siemens computers  
NT1 univac computers  
RT analog systems  
RT artificial intelligence  
RT camac system  
RT computer-aided design  
RT computer architecture  
RT computer calculations  
RT computer networks  
RT computer output devices  
RT computerized control systems  
RT data-flow processing  
RT data processing  
RT digital systems  
RT electronic equipment  
RT equipment interfaces  
RT fastbus system  
RT machine translations  
RT magnetic cores  
RT memory management  
RT microprocessors  
RT nuclear instrument modules  
RT parallel processing  
RT programming  
RT real time systems  
RT vector processing

**CONCANAVALIN A**

INIS: 1981-02-27; ETDE: 1981-03-13

(Prior to November 1990, this material was indexed to CONCANAVALIN.)

- \*BT1 hemagglutinins  
BT1 lectins  
RT cell cycle  
RT cell proliferation  
RT lymphocytes  
RT mitosis

**concentrates (ore)**

1982-08-27

USE ore concentrates

**CONCENTRATING COLLECTORS**

INIS: 1992-03-11; ETDE: 1977-06-21

- \*BT1 solar collectors  
NT1 fixed mirror collectors  
NT1 parabolic collectors  
NT2 parabolic dish collectors  
NT2 parabolic trough collectors  
NT1 slit type collectors  
NT1 tower focus collectors  
NT1 v trough collectors  
RT solar concentrators  
RT solar receivers

**concentration**

INIS: 2000-04-12; ETDE: 1978-12-20

- SEE abundance  
SEE concentration ratio  
SEE ecological concentration

**concentration (analytical)**

2000-03-27

SEE abundance

**concentration dependence**

2000-03-27

SEE abundance

**concentration processes (ecological)**

INIS: 1993-11-05; ETDE: 2002-06-13

USE ecological concentration

**CONCENTRATION RATIO**

INIS: 1993-07-12; ETDE: 1978-04-06

See also ISOTOPE RATIO.

(Until July 1993, this concept was indexed in INIS by QUANTITY RATIO.)

- UF quantity ratio  
SF concentration  
BT1 dimensionless numbers  
RT abundance  
RT concentrator solar cells  
RT ecological concentration  
RT quantitative chemical analysis  
RT radioecological concentration  
RT radionuclide kinetics  
RT solar concentrators  
RT thermodynamic activity

**concentrations (radionuclides)**

USE radioactivity

**CONCENTRATOR SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1979-07-18

(Prior to July 1979 SOLAR CELLS or specific solar cells descriptors and solar concentrators were used to index this concept in ETDE.)

- \*BT1 solar cells  
RT concentration ratio  
RT solar concentrators  
RT solar receivers

**CONCENTRATORS**

INIS: 1994-06-27; ETDE: 1976-02-19

- NT1 centrifuges  
NT2 gas centrifuges  
NT2 plasma centrifuges  
NT2 ultracentrifuges  
NT1 cyclone separators  
NT1 dewatering equipment  
NT1 jigs  
NT1 magnetic separators  
RT screens  
RT separation processes  
RT sorting

**CONCRETE BLOCKS**

INIS: 2000-04-12; ETDE: 1979-07-18

- \*BT1 building materials  
RT concretes

**CONCRETE-PLASTIC COMPOSITES**

1975-11-27

- \*BT1 composite materials  
RT concretes  
RT organic polymers  
RT plastics

**CONCRETE STRINGERS**

RT reinforced concrete

**CONCRETES**

- \*BT1 building materials  
NT1 prestressed concrete  
NT1 reinforced concrete  
RT cements  
RT concrete blocks  
RT concrete-plastic composites  
RT mortars  
RT pavements  
RT sand

RT shielding materials

**CONCRETIONS**

2000-01-20

*Bodies within host rocks representing local concentrations of cementing materials.*

BT1 geologic deposits

RT minerals

RT rocks

**CONDENSATES**

NT1 gas condensates

RT vapor condensation

**condensation (organic compounds)**

INIS: 2000-04-12; ETDE: 1983-04-28

USE dehydrocyclization

**condensation (vapor)**

USE vapor condensation

**CONDENSATION CHAMBERS**

RT control equipment

RT pressure suppression

RT reactor components

RT reactor cooling systems

RT reactor safety

RT vapor condensation

**CONDENSATION NUCLEI**

INIS: 1981-09-17; ETDE: 1978-04-06

*Small particles upon which gases can condense, such as dust in the earth's atmosphere.*

RT aerosols

RT aitken nuclei

RT meteorology

RT particles

RT vapor condensation

**CONDENSATION PARTICLE COUNTERS**

2013-12-13

\*BT1 air pollution monitors

RT aerosol monitoring

RT aerosols

RT cascade impactors

**condensed aromatics**

1996-07-08

*Till April 2017 was a valid term.*

USE polycyclic aromatic hydrocarbons

**condensed cycloalkanes**

INIS: 2000-04-12; ETDE: 1976-12-16

*(Prior to February 1995, this was a valid ETDE descriptor.)*

USE cycloalkanes

**CONDENSER COOLING SYSTEMS**

1980-07-24

*For heat dissipation in either nuclear or fossil fueled power plants. May be of open circuit or closed cycle design.*

\*BT1 auxiliary water systems

\*BT1 cooling systems

RT reactor cooling systems

**CONDENSER IONIZATION CHAMBERS**

UF pocket chambers

\*BT1 dosimeters

\*BT1 ionization chambers

RT electrometers

**condensers**

2000-04-12

*(Prior to January 1995, this was a valid ETDE descriptor.)*

SEE compressors

SEE heat exchangers

SEE vapor condensers

**condensers (electric)**

USE capacitors

**condensers (steam)**

USE steam condensers

**condensers (using ice)**

INIS: 1977-01-25; ETDE: 2002-06-13

*Steam condensers using ice as the heat sink.*

USE ice condensers

**condensers (vapor)**

USE vapor condensers

**CONDENSING BOILERS**

2007-07-27

BT1 boilers

RT flue gas

RT vapor condensers

**condiments**

2000-04-12

*(Prior to September 1994, this was a valid*

*ETDE descriptor.)*

USE food

**condition ratio**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**CONDITIONED REFLEXES**

BT1 reflexes

RT avoidance

RT cerebral cortex

RT learning

**conduction (thermal)**

INIS: 1978-09-28; ETDE: 2002-06-13

USE thermal conduction

**conductivity (electric)**

USE electric conductivity

**conductivity (thermal)**

USE thermal conductivity

**CONDUCTOR DEVICES**

\*BT1 electrical equipment

NT1 connectors

NT1 electric cables

NT2 coaxial cables

NT2 cryogenic cables

NT2 gas-insulated cables

NT2 mineral-insulated cables

NT2 oil-filled cables

NT2 superconducting cables

NT1 electric fuses

RT electric conductors

RT resistors

**conductors (electric)**

USE electric conductors

**CONES**

1983-09-05

RT shape

**conferences**

USE meetings

**CONFIGURATION**

*For the relative arrangement of component parts; for electron configuration in atoms and molecules use ELECTRONIC STRUCTURE; for nuclear configuration use NUCLEAR STRUCTURE; for molecular configuration use MOLECULAR STRUCTURE.*

UF fuel rod consolidation

NT1 annular space

NT2 toroidal configuration

NT1 circular configuration

NT1 conical configuration

NT1 cylindrical configuration

NT1 elliptical configuration

NT1 helical configuration

NT1 hexagonal configuration

NT1 hyperbolic configuration

NT1 prismatic configuration

NT1 rectangular configuration

NT2 square configuration

NT1 spherical configuration

NT1 spiral configuration

NT1 triangular configuration

RT anisotropy

RT asymmetry

RT crystal structure

RT geometry

RT isotropy

RT mass distribution

RT morphology

RT network analysis

RT orientation

RT reactor lattices

RT rings

RT shape

RT symmetry

**CONFIGURATION CONTROL**

1999-05-12

*Reactor control by varying the configuration of the fuel, reflector, coolant or moderator.*

BT1 control

NT1 spectral shift control

RT moderators

RT neutron reflectors

RT reactor control systems

RT reactor lattices

RT reflector savings

**configuration dependence**

INIS: 2000-04-12; ETDE: 1979-08-07

USE space dependence

**CONFIGURATION INTERACTION**

*Not for interactions of elementary particles; for which see INTERACTIONS.*

RT atomic models

RT conformational changes

RT electronic structure

RT molecular structure

**CONFIGURATION MIXING**

BT1 interactions

RT kobayashi-maskawa matrix

**CONFINEMENT**

NT1 plasma confinement

NT2 inertial confinement

NT2 magnetic confinement

NT3 h-mode plasma confinement

NT3 l-mode plasma confinement

RT electron rings

RT energy balance

RT ion rings

RT magnetic field configurations

RT magnetic insulation

RT mass balance

**CONFINEMENT TIME**

RT h-mode plasma confinement

RT lawson criterion

RT plasma confinement

RT plasma disruption

RT thermonuclear devices

RT thermonuclear reactors

RT time dependence

**CONFLICTS OF INTEREST**

INIS: 1993-07-28; ETDE: 1980-08-25

RT antitrust laws

RT contracts

RT legal aspects

**CONFORMAL GROUPS**

- \*BT1 lie groups
- RT conformal invariance
- RT conformal mapping

**CONFORMAL INVARIANCE**

- BT1 invariance principles
- RT conformal groups
- RT scale dimension
- RT scale invariance

**CONFORMAL MAPPING**

- \*BT1 topological mapping
- RT conformal groups
- RT mathematics
- RT smooth manifolds

**CONFORMATIONAL CHANGES**

- INIS: 1993-09-01; ETDE: 1980-02-11
- RT configuration interaction
- RT electronic structure
- RT molecular structure

**CONGENITAL DISEASES**

- UF *xeroderma pigmentosum*
- BT1 diseases
- NT1 downs syndrome
- RT congenital malformations
- RT hereditary diseases

**CONGENITAL MALFORMATIONS**

- \*BT1 malformations
- NT1 downs syndrome
- RT congenital diseases
- RT delayed radiation effects
- RT fetuses
- RT genetic effects
- RT mutations
- RT pediatrics
- RT teratogenesis
- RT teratogens

**CONGLOMERATES**

- Limited to geological formations.
- \*BT1 sedimentary rocks
- NT1 calcretes
- RT graywacke

**congo democratic republic**

- (Prior to September 1997 ZAIRE REPUBLIC was used for this concept in ETDE.)
- USE democratic republic of the congo

**congo kinshasa triga reactor**

- USE trico reactor

**CONGO PEOPLES REPUBLIC**

- BT1 africa
- BT1 developing countries
- NT1 brazzaville

**congo red**

- 1996-10-22
- (Until October 1996 this was a valid descriptor.)
- USE amines
- USE azo dyes
- USE indicators
- USE sulfonic acids

**congressional hearings**

- INIS: 2000-04-12; ETDE: 1975-11-11
- USE hearings

**CONGRESSIONAL INQUIRIES**

- INIS: 2000-04-12; ETDE: 1983-03-23
- Requests by members of congress for information; not to be used for CONGRESSIONAL HEARINGS.
- RT information

**CONICAL CONFIGURATION**

- ETDE: 1975-09-11
- BT1 configuration

**CONIDIA**

- BT1 spores
- RT fungi

**CONIFERS**

- 1997-06-17
- \*BT1 pinophyta
- NT1 cedars
- NT1 firs
- NT1 hemlocks
- NT1 larches
- NT1 pines
- NT1 spruces
- RT shrubs
- RT trees

**coning**

- INIS: 2000-04-12; ETDE: 1976-03-11
- USE channeling

**conjugate points**

- USE geomagnetic conjugacy

**CONJUNCTIVA**

- \*BT1 eyes
- \*BT1 mucous membranes
- RT conjunctivitis
- RT epithelium

**CONJUNCTIVITIS**

- \*BT1 sense organs diseases
- RT conjunctiva

**CONNAH QUAY-B REACTOR**

- \*BT1 agr type reactors
- \*BT1 carbon dioxide cooled reactors
- \*BT1 power reactors

**connate water**

- 2000-04-12
- Water entrapped in the interstices of a sedimentary or extrusive igneous rock at the time of its deposition.
- (Prior to February 1997 this was a valid ETDE descriptor.)

- USE interstitial water

**CONNECTICUT**

- 1997-06-17
- \*BT1 usa
- RT connecticut river
- RT connecticut river basin
- RT long island sound
- RT us east coast

**CONNECTICUT RIVER**

- 1997-06-17
- \*BT1 rivers
- RT connecticut
- RT connecticut river basin
- RT massachusetts
- RT new hampshire
- RT vermont

**CONNECTICUT RIVER BASIN**

- INIS: 2000-04-12; ETDE: 1977-09-19
- BT1 watersheds
- RT connecticut
- RT connecticut river
- RT massachusetts
- RT new hampshire
- RT vermont

**CONNECTICUT YANKEE REACTOR**

- Connecticut Yankee Atomic Co., Haddam Neck, Connecticut, USA. Shut down in 1996. Decommissioned.
- UF haddam neck reactor

- UF yankee connecticut reactor

- \*BT1 pwr type reactors

**connecting**

- USE fastening

**connections**

- USE joints

**CONNECTIVE TISSUE**

- \*BT1 animal tissues
- NT1 adipose tissue
- NT1 bone tissues
- NT2 antlers
- NT2 trabecular bone
- NT1 cartilage
- NT1 fascia
- NT1 ligaments
- NT1 tendons
- RT blood
- RT collagen
- RT connective tissue cells
- RT fibrosis
- RT reticuloendothelial system

**CONNECTIVE TISSUE CELLS**

- UF *osteoblasts*
- \*BT1 somatic cells
- NT1 bone cells
- NT1 bone marrow cells
- NT1 fat cells
- NT1 fibroblasts
- NT1 lymphocytes
- NT1 macrophages
- NT1 mast cells
- NT1 plasma cells
- RT connective tissue

**CONNECTORS**

- SF *junctions*
- \*BT1 conductor devices
- RT potheads
- RT switches

**conoco gasification process**

- INIS: 2000-04-12; ETDE: 1981-06-13
- The process is based on British gas/Lurgi slagging gasification technology and shift/methanation technology developed by Conoco inc.
- (Prior to July 1993, this was a valid ETDE descriptor.)

- USE coal gasification

**conoco process**

- INIS: 2000-04-12; ETDE: 1976-11-01
- Desulfurization of low btu gas from coal gasification by reacting hydrogen sulfide with calcium carbonate magnesiumoxide at 1775 degrees F and 15 atm to form calcium sulfide magnesium oxide.
- (Prior to March 1994, this was a valid ETDE descriptor.)
- USE desulfurization

**consent orders**

- INIS: 2000-04-12; ETDE: 1979-12-10
- (Prior to March 1997 this was a valid ETDE descriptor.)
- USE orders

**conservation (charge)**

- INIS: 1982-12-03; ETDE: 2002-06-13
- USE charge conservation

**conservation (energy)**

- INIS: 1982-12-03; ETDE: 1979-11-23
- USE energy conservation

**conservation (resource)**

- INIS: 2000-04-12; ETDE: 1975-09-11
- USE resource conservation

**conservation (resources)**

INIS: 1982-12-03; ETDE: 2002-06-13

USE resource conservation

**CONSERVATION LAWS**

RT continuity equations  
 RT fundamental interactions  
 RT invariance principles  
 RT particle kinematics

**CONSOL FGD PROCESS**

INIS: 2000-04-12; ETDE: 1977-08-24

Concentrated aqueous solution of potassium thiosulfate is circulated through a pump-around loop containing a packed bed scrubber for sulfur dioxide removal and an external reaction drum.

\*BT1 desulfurization  
 RT scrubbers

**CONSOL STIRRED BED PROCESS**

INIS: 2000-04-12; ETDE: 1975-11-28

Fluidized-bed carbonization of ground coal in vessel equipped with stirrer blades.

RT carbonization  
 RT chars

**consol synthetic fuel process**

2000-04-12

USE coal liquefaction

**CONSOL SYNTHETIC GAS****PROCESS**

2000-04-12

Coarse caking coal and non-caking pellets are gasified conventionally in a fixed bed to produce a low btu gas with air or a synthesis gas with oxygen.

\*BT1 coal gasification

**CONSOLES**

RT control rooms  
 RT display devices  
 RT electronic equipment

**consolidated edison thorium reactor**

1993-11-05

USE indian point-1 reactor

**CONSOLIDATED FUEL REPROCESSING PROGRAM**

INIS: 1994-08-22; ETDE: 1980-10-27

A comprehensive program to develop and demonstrate breeder reprocessing and recycle.

(Until August 1994 this descriptor was spelled CFRP PROGRAM.)

UF cfrp program

\*BT1 coordinated research programs  
 RT hef  
 RT reprocessing

**consolidation (sand)**

INIS: 2000-04-12; ETDE: 1981-05-18

USE sand consolidation

**CONSORT-2 REACTOR**

Imperial College of Science and Technology for Univ. of London, Ascot, Berkshire, United Kingdom.

\*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**CONSPIRACY RELATIONS**

RT regge poles  
 RT scattering

**CONSTANTAN**

1993-10-03

\*BT1 alloy-cu52ni47

**CONSTIPATION**

BT1 symptoms  
 RT diarrhea  
 RT digestive system diseases  
 RT intestines

**constituent interchange model**

INIS: 1978-08-14; ETDE: 1978-04-27

USE cim model

**constraints**

INIS: 2000-04-12; ETDE: 1981-07-18  
 Used to denote all barriers to development. (Until March 1996 this was a valid ETDE descriptor.)  
 SEE limiting values

**CONSTRUCTION**

2000-04-03

For manufacturing see FABRICATION.

UF building (constructing)

NT1 cwip  
 RT afudc  
 RT building codes  
 RT buildings  
 RT construction industry  
 RT contracts  
 RT excavation  
 RT foundations  
 RT installation  
 RT mechanical structures  
 RT mine drivage  
 RT modifications  
 RT modular structures  
 RT nuclear industry  
 RT planning  
 RT retrofitting  
 RT schedules  
 RT structural beams  
 RT vernacular architecture

**CONSTRUCTION INDUSTRY**

INIS: 1992-04-06; ETDE: 1977-09-19

BT1 industry  
 RT architects  
 RT builders  
 RT buildings  
 RT construction  
 RT engineers  
 RT modular structures

**CONSTRUCTION PERMITS**

INIS: 1976-12-08; ETDE: 1978-03-08

BT1 licenses

**construction work in progress**

INIS: 2000-04-03; ETDE: 1978-11-14

USE cwip

**CONSTRUCTIVE FIELD THEORY**

INIS: 1977-11-21; ETDE: 1978-03-08

UF euclidean quantum field theory

\*BT1 quantum field theory  
 NT1 lattice field theory

**CONSULTANTS**

INIS: 1999-08-19; ETDE: 1980-07-09

BT1 personnel  
 RT contracts

**consultation mechanism on sea dumping**

INIS: 1993-11-05; ETDE: 2002-06-13  
 Multilateral Consultation and surveillance Mechanism for Sea Dumping of Radioactive Waste.

USE oecd mcmsdrw

**consumer guides**

INIS: 2000-04-12; ETDE: 1977-06-21

Use DIRECTORIES or RECOMMENDATIONS and the descriptor below.

(Prior to February 1997 this was a valid ETDE descriptor.)

USE consumer products

**consumer price index**

INIS: 2000-04-12; ETDE: 1979-09-27

(Prior to March 1996 this was a valid ETDE descriptor.)

USE retail prices

**consumer prices**

INIS: 2000-04-12; ETDE: 1996-03-28

USE retail prices

**CONSUMER PRODUCTS**

INIS: 1980-09-12; ETDE: 1977-10-20

Articles of commerce available to the general public. When possible, use descriptors for the specific products, e.g., food, clothing, instruments and pharmaceuticals.

UF consumer guides  
 UF cosmetics  
 RT advertising  
 RT clothing  
 RT consumer protection  
 RT drugs  
 RT food

**CONSUMER PROTECTION**

INIS: 1992-02-03; ETDE: 1977-06-21

RT consumer products  
 RT interest groups  
 RT legal aspects  
 RT product labeling  
 RT public relations  
 RT regulations  
 RT us natural gas policy act  
 RT warranties

**consumers michigan palisades reactor**

USE palisades-1 reactor

**consumers power company midland-1**

2000-04-12

USE midland-1 reactor

**consumers power company midland-1 reactor**

INIS: 1993-11-05; ETDE: 2002-06-13

USE midland-1 reactor

**consumers power company midland-2**

2000-04-12

USE midland-2 reactor

**consumers power company midland-2 reactor**

INIS: 1993-11-05; ETDE: 2002-06-13

USE midland-2 reactor

**CONSUMPTION RATES**

1993-06-03

For actions, ratios, percentages; not for consumption as a function of time.

RT energy consumption  
 RT fuel consumption

**CONTACT HANDLING**

INIS: 1985-12-10; ETDE: 1984-10-24

Handling by touch, perhaps made allowable because of low surface radiation dose rate.

RT materials handling



RT materials handling equipment  
RT remote handling

**contact radiotherapy**

USE radiotherapy

**contactors**

USE switches

**contacts (electric)**

USE electric contacts

**CONTAINED EXPLOSIONS**

1996-07-16

UF monique event

UF pokhran event

UF wagon wheel event

\*BT1 underground explosions

RT anvil project

RT bedrock project

RT chemical explosions

RT crosstie operation

RT grommet operation

RT latchkey operation

RT mandrel operation

RT mining

RT nougat operation

RT nuclear explosions

RT praetorian project

RT sun beam operation

RT surface mining

RT toggle operation

RT whetstone operation

**CONTAINERS**

UF canisters

UF vessels

NT1 calandrias

NT1 capsules

NT1 casks

NT2 spent fuel casks

NT1 dewars

NT1 gas cylinders

NT1 hoppers

NT1 pressure vessels

NT1 reactor vessels

NT1 tanks

NT2 floating roof tanks

NT2 hydraulic accumulators

RT chemical reactors

RT containment

RT coverings

RT liners

RT packaging

RT radiation sources

RT reactor components

RT shielding

RT transport

**CONTAINMENT**

*Means and methods for preventing the escape of radioactive materials to the biosphere, particularly in the case of reactor accidents and including entombment.*

UF entombment (radioactive materials)

NT1 containment buildings

NT1 containment shells

NT1 containment systems

NT2 containment spray systems

RT containers

RT containment mockup facility

RT containment research installation

RT fission product release

RT fission products

RT gloveboxes

RT leaks

RT radiation protection

RT reactor components

RT reactor safety

RT sealed sources

RT source terms

**CONTAINMENT BUILDINGS**

UF buildings (containment)

BT1 buildings

BT1 containment

**CONTAINMENT MOCKUP FACILITY**

BT1 reactor safety experiments

RT containment

**CONTAINMENT RESEARCH INSTALLATION**

BT1 reactor safety experiments

RT containment

**CONTAINMENT SHELLS**

UF shells (containment)

BT1 containment

**CONTAINMENT SPRAY SYSTEMS**

UF spray systems (containment)

\*BT1 containment systems

RT pressure suppression

RT reactor safety

**CONTAINMENT SYSTEMS**

BT1 containment

BT1 engineered safety systems

NT1 containment spray systems

RT containment systems experiment

RT fission products

RT ice condensers

**CONTAINMENT SYSTEMS****EXPERIMENT**

BT1 reactor safety experiments

RT containment systems

**CONTAMINATION**

*For radioactive contamination only; see also POLLUTION.*

NT1 indoor air contamination

NT1 surface contamination

NT1 transfrontier contamination

RT body burden

RT clean rooms

RT contamination regulations

RT environment

RT environmental degradation

RT fallout

RT fission product release

RT fouling

RT global aspects

RT impurities

RT lcmpdpw

RT liquid contamination monitors

RT maximum acceptable contamination

RT medical surveillance

RT oecd mcmsdrw

RT pollutants

RT radioactive wastes

RT radioactivity

RT radioactivity range

RT radioactivity transport

RT radioecological concentration

RT radiological dispersal devices

RT remedial action

**contamination (internal)**

USE radionuclide kinetics

**contamination (surface)**

2000-04-12

USE surface contamination

**CONTAMINATION REGULATIONS**

*Regulations for radioactive contamination only; see also POLLUTION REGULATIONS.*

\*BT1 regulations

NT1 maximum acceptable contamination

RT contamination

RT pollution regulations

RT transfrontier contamination

**content analysis**

USE chemical analysis

**CONTIGS**

INIS: 2000-04-12; ETDE: 1994-02-24

*Chromosomal fragments produced by cleavage of a chromosome into overlapping sections of DNA of 0.5 to 5 million base pairs.*

\*BT1 dna

RT chromosomes

RT endonucleases

RT genetic mapping

**CONTINENTAL CRUST**

INIS: 1981-09-18; ETDE: 1977-09-19

BT1 earth crust

RT earth planet

RT oceanic crust

**CONTINENTAL MARGIN**

INIS: 1991-10-07; ETDE: 1978-12-11

*The ocean floor that is between the shoreline and the abyssal ocean floor including the continental borderland, the continental shelf, the continental slope, and the continental rise.*

NT1 continental shelf

NT1 continental slope

RT coastal waters

**CONTINENTAL SHELF**

1997-06-19

UF outer continental shelf

BT1 continental margin

RT coastal waters

RT coastal zone management acts

RT continental slope

RT mid-atlantic bight

RT new york bight

RT santa barbara channel

RT south atlantic bight

RT submarine canyons

RT territorial waters

**CONTINENTAL SLOPE**

INIS: 1991-10-07; ETDE: 1978-06-14

*That part of the continental margin that is between the continental shelf and the continental rise.*

BT1 continental margin

RT coastal waters

RT continental shelf

RT submarine canyons

**CONTINUED FRACTIONS**

*Finite or infinite.*

RT analytic functions

RT series expansion

**CONTINUITY EQUATIONS**

\*BT1 partial differential equations

RT conservation laws

RT electromagnetism

RT fluid flow

RT heat transfer

**CONTINUOUS CULTURE**

INIS: 1997-06-19; ETDE: 1978-06-14

RT aerobic digestion

RT anaerobic digestion

RT batch culture

RT culture media

RT fermentation

RT semibatch culture

RT single cell protein

**CONTINUOUS CURRENT TOKAMAK**

INIS: 1991-08-12; ETDE: 1991-09-13

\*BT1 tokamak devices

**continuous intake**

USE chronic intake

**continuous irradiation**

USE chronic irradiation

**CONTINUOUS MINERS**

INIS: 2000-04-12; ETDE: 1978-05-03

\*BT1 cutter loaders

**continuous vacuum casting**

USE vacuum casting

**continuum shell model**

INIS: 1976-01-28; ETDE: 2002-06-13

USE shell models

**contract administration**

INIS: 2000-04-12; ETDE: 1983-03-24

USE contract management

**CONTRACT MANAGEMENT**

INIS: 1993-03-23; ETDE: 1980-09-05

(Prior to March 1983 this concept in ETDE was indexed to PROGRAM MANAGEMENT.)

UF contract administration

\*BT1 program management

RT contractors

RT contracts

RT schedules

**contracting of energy services**

2004-02-11

Delivery of energy services (energy supplied in the form of heat and/or power) to a user by a third party under contract.

USE contractors

USE energy supplies

**CONTRACTION**

RT expansion

RT expansion joints

RT shrinkage

RT thermal expansion

**CONTRACTOR PERSONNEL**

INIS: 1993-07-28; ETDE: 1983-03-23

Persons employed by a contractor.

BT1 personnel

RT contractors

RT contracts

**CONTRACTORS**

INIS: 1986-07-09; ETDE: 1983-03-23

Persons or companies which supply services under contract.

UF contracting of energy services

UF subcontractors

RT contract management

RT contractor personnel

RT contracts

**CONTRACTS**

UF fixed-price contracts

NT1 leases

RT agreements

RT conflicts of interest

RT construction

RT consultants

RT contract management

RT contractor personnel

RT contractors

RT delivery

RT leasing

RT proposals

RT third-party use

RT time delay

**contractual liability**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

USE liabilities

**CONTRAST MEDIA**

1996-10-23

UF diodrast

UF iodopyracet

NT1 hippuran

NT1 iohexol

NT1 iopamidol

NT1 lipiodol

NT1 metrizamide

NT1 thorotrast

RT biomedical radiography

RT nuclear magnetic resonance

**CONTROL**

Regulating a process, property or component in a qualitative or quantitative sense. Not to be confused with MONITORING which refers only to detection or measurement.

UF attitude control

NT1 atomic energy control

NT2 international control

NT2 national control

NT1 closed-loop control

NT1 combustion control

NT1 configuration control

NT2 spectral shift control

NT1 erosion control

NT1 flood control

NT1 fluid poison control

NT1 frequency control

NT1 humidity control

NT1 knock control

NT1 mode control

NT1 open-loop control

NT1 optimal control

NT1 pest control

NT2 genetic control

NT2 pest eradication

NT1 pollution control

NT2 air pollution control

NT3 carbon sequestration

NT2 land pollution control

NT2 noise pollution control

NT2 oil pollution containment

NT2 water pollution control

NT1 pressure control

NT1 process control

NT1 quality control

NT1 remote control

NT1 scale control

NT1 temperature control

NT1 traffic control

RT bifurcation

RT control systems

RT control theory

RT cybernetics

RT decision tree analysis

RT detection

RT fault tree analysis

RT feedback

RT mitigation

RT monitoring

RT optimization

**control (inspection)**

USE inspection

**control (radioactivity)**

USE radiation monitoring

**CONTROL ELEMENTS**

UF control rods

UF reactor control rods

UF rods (control)

BT1 reactor components

NT1 regulating rods

NT1 scram rods

NT1 shim rods

RT burnable poisons

RT control rod drives

RT control rod worths

RT guide tubes

RT neutron absorbers

RT reactor control systems

RT reactor cores

RT reactor kinetics

RT rod drop accidents

RT rod drop method

RT rod ejection accidents

**CONTROL EQUIPMENT**

BT1 equipment

NT1 electric controllers

NT1 flow regulators

NT2 baffles

NT2 valves

NT3 relief valves

NT3 water faucets

NT1 fluidic control devices

NT1 humidistats

NT1 hydraulic control devices

NT1 pneumatic controllers

NT1 pressure regulators

NT1 servomechanisms

NT1 speed regulators

NT1 thermostats

NT2 cryostats

RT actuators

RT computerized control systems

RT condensation chambers

RT control rooms

RT control systems

RT excitation systems

RT knock control

RT reactor components

RT robots

RT solar tracking

**CONTROL ROD DRIVES**

BT1 reactor components

RT control elements

RT reactor control systems

**control rod effectiveness**

USE control rod worths

**CONTROL ROD WORTHS**

UF control rod effectiveness

RT control elements

RT nordheim-scalett method

RT reactor kinetics

**control rods**

USE control elements

**CONTROL ROOMS**

INIS: 1979-12-20; ETDE: 1977-08-09

In the sense of the fully instrumented complex of control equipment, displays and instruments and their layout in a room at a particular facility and not in the limited sense of a part of a building.

RT consoles

RT control equipment

RT display devices

RT man-machine systems

RT reactor control systems

RT reactor instrumentation

RT reactor simulators

**CONTROL SYSTEMS**

For automated processes including feedback.

NT1 electronic guidance

NT1 energy management systems

NT1 entry control systems

**NT1** on-line control systems  
**NT2** computerized control systems  
**NT3** adaptive systems  
**NT1** reactor control systems  
**NT1** var control systems  
**RT** control  
**RT** control equipment  
**RT** heliostats  
**RT** identification systems  
**RT** interlocks  
**RT** man-machine systems  
**RT** optimization  
**RT** power conditioning circuits  
**RT** real time systems  
**RT** robots  
**RT** systems analysis

**CONTROL THEORY**

*INIS: 1976-09-06; ETDE: 1976-11-01*

**RT** control  
**RT** differential equations  
**RT** feedback  
**RT** optimization

**control theory (fission reactor)**

*INIS: 1993-11-05; ETDE: 2002-06-13*

USE reactor kinetics

**control theory (reactor)**

2000-04-12

USE reactor kinetics

**CONTROLLED AREAS**

*INIS: 1976-12-08; ETDE: 1978-03-08*

*Areas designated by radiation protection regulations for special monitoring.*

**RT** nuclear facilities  
**RT** radiation monitoring  
**RT** radiation protection

**CONTROLLED ATMOSPHERES**

1999-03-17

**BT1** atmospheres  
**NT1** inert atmosphere  
**NT2** cover gas  
**RT** clean rooms  
**RT** environment  
**RT** exposure chambers  
**RT** heat treatments

**controlled fusion**

2018-04-06

USE controlled thermonuclear fusion

**controlled terminology**

USE standardized terminology

**CONTROLLED THERMONUCLEAR FUSION**

2018-04-06

**UF** controlled fusion  
**BT1** thermonuclear devices  
**\*BT1** thermonuclear reactions

**conv assist nuc acc/rad emerg**

*INIS: 1989-02-24; ETDE: 2002-06-13*

USE canare

**CONVECTION**

*Heat transfer by convection.*

**\*BT1** heat transfer  
**BT1** mass transfer  
**NT1** forced convection  
**NT1** natural convection  
**NT1** thermosyphon effect  
**RT** advection  
**RT** richardson number

**CONVECTIVE INSTABILITIES**

*A class of plasma instabilities growing exponentially with time in velocity space.*

**\*BT1** plasma instability

**RT** absolute instabilities

**RT** briggs criterion

**convective loop houses**

*INIS: 1992-08-25; ETDE: 1981-06-13*

USE double envelope buildings

**CONVECTORS**

2006-03-31

**BT1** heat exchangers  
**\*BT1** space heaters

**convention on early notification of nuclear accident**

*INIS: 1993-11-05; ETDE: 1989-03-20*

USE cenna

**convention on nuclear safety**

*INIS: 2002-01-22; ETDE: 1999-12-15*

USE international convention on nuclear safety

**convention on physical protection of nuclear material**

1993-11-05

USE cppnm

**convention on supplementary****compensation for nuclear damage**

2000-10-18

USE cscnd

**convention on the physical protection of nuclear materials**

*INIS: 2000-04-12; ETDE: 1990-11-26*

USE cppnm

**CONVENTIONAL NEUTRINOS**

2018-06-19

**\*BT1** atmospheric neutrinos

**CONVENTIONAL WARFARE**

*INIS: 2000-04-12; ETDE: 1986-02-03*

**BT1** warfare

**conventions**

USE agreements

**CONVERGENCE**

1982-12-07

*Approach to a limit, e.g.*

(by an infinite sequence; prior to December 1982 this concept was indexed by SERIES EXPANSION.)

**RT** mathematics  
**RT** series expansion  
**RT** superconvergence relations

**CONVERSION**

**NT1** energy conversion

**NT2** direct energy conversion

**NT3** photovoltaic conversion

**NT3** thermionic conversion

**NT3** thermoelectric conversion

**NT3** thermomagnetic conversion

**NT3** thermophotovoltaic conversion

**NT2** electrochemical energy conversion

**NT2** geothermal energy conversion

**NT2** heat production

**NT2** solar energy conversion

**NT3** ocean thermal energy conversion

**NT3** solar thermal conversion

**NT1** external conversion

**NT1** internal conversion

**NT2** k conversion

**NT2** l conversion

**NT2** m conversion

**conversion (nuclear fuel)**

USE nuclear fuel conversion

**CONVERSION RATIO**

**BT1** dimensionless numbers

**NT1** breeding ratio

**RT** nuclear fuel conversion

**converters (analog-digital)**

USE analog-to-digital converters

**converters (digital-analog)**

USE digital-to-analog converters

**converters (electric)**

*INIS: 2000-04-12; ETDE: 1977-05-07*

USE dc to dc converters

**converters (image)**

USE image converters

**converters (pulse)**

USE pulse converters

**convertol process**

*INIS: 2000-04-12; ETDE: 1977-06-24*

*Process developed in Germany for cleaning and dewatering coal-washery slurries.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE coal preparation

**CONVEX MANIFOLDS**

*INIS: 1976-09-06; ETDE: 1976-11-01*

**BT1** mathematical manifolds

**CONVEYORS**

*INIS: 1985-12-10; ETDE: 1977-03-04*

**\*BT1** haulage equipment

**NT1** belt conveyors

**NT1** chain conveyors

**RT** materials handling

**RT** mining equipment

**RT** transport

**cony**

1996-07-08

(Prior to July 1996 PIKAS was a valid ETDE descriptor.)

USE mammals

**COOK-1 REACTOR**

*Indiana Michigan Power Co., Bridgman, Michigan, USA.*

**UF** donald c. cook-1 reactor

**\*BT1** pwr type reactors

**COOK-2 REACTOR**

*Indiana Michigan Power Co., Bridgman, Michigan, USA.*

**UF** donald c. cook-2 reactor

**\*BT1** pwr type reactors

**cook inlet**

*INIS: 1992-06-04; ETDE: 1977-01-28*

USE gulf of alaska

**cooking**

*INIS: 2000-04-12; ETDE: 1979-12-10*

SEE food processing

**cooking (food)**

*INIS: 1984-04-04; ETDE: 2002-06-13*

USE food processing

**COOLANT CLEANUP SYSTEMS**

1977-10-17

**\*BT1** primary coolant circuits

**RT** cleaning

**RT** decontamination

**RT** extraction apparatuses

**RT** filters

**RT** purification

**coolant-fuel interactions**

USE fuel-coolant interactions

**COOLANT LOOPS**

For reactors use *REACTOR COOLING SYSTEMS* or *IN PILE LOOPS*.

UF loops (coolant)

\*BT1 cooling systems

RT auxiliary water systems

RT bypasses

RT circulating systems

RT closed-cycle cooling systems

RT cooling

RT heat transfer fluids

RT heating loops

RT open-cycle cooling systems

**COOLANTS**

See also *specific coolant materials*.

NT1 organic coolants

RT cooling

RT cutting fluids

RT fuel-coolant interactions

RT gases

RT heavy water

RT lead-bismuth eutectic

RT liquid metals

RT loss of coolant

RT molten salts

RT oils

RT reactor cooling systems

RT reactor materials

RT refrigerants

RT steam

RT water

RT water chemistry

**coolers**

USE heat exchangers

**COOLING**

SF heat dissipation

NT1 district cooling

NT1 evaporative cooling

NT1 film cooling

NT1 fog cooling

NT1 gas cooling

NT1 radiative cooling

NT1 refrigeration

NT2 geothermal refrigeration

NT2 helium dilution refrigeration

NT2 solar refrigeration

NT1 splat cooling

NT1 spray cooling

NT1 subcooling

NT1 sublimation cooling

NT1 supercooling

RT air conditioning

RT coolant loops

RT coolants

RT cooling ponds

RT cooling systems

RT cooling time

RT cooling towers

RT fuel cooling time

RT heat exchangers

RT heat extraction

RT heat pumps

RT heat transfer

RT heating

RT ice condensers

RT once-through cooling systems

RT reactor cooling systems

RT temperature control

RT temperature noise

RT vapor condensation

RT water

RT water coolers

**COOLING LOAD**

INIS: 2000-04-12; ETDE: 1975-10-01

RT air conditioning

RT heat gain

RT heating load

RT solar heating

RT sun shades

**COOLING PONDS**

1992-06-05

UF ponds (cooling)

UF spray ponds

\*BT1 ponds

\*BT1 water reservoirs

RT cooling

RT cooling systems

RT lakes

**COOLING SYSTEMS**

1976-02-11

SF thermally active structural components

BT1 energy systems

NT1 closed-cycle cooling systems

NT1 condenser cooling systems

NT1 coolant loops

NT1 once-through cooling systems

NT1 open-cycle cooling systems

NT1 reactor cooling systems

NT2 direct cycle cooling systems

NT2 dual cycle cooling systems

NT2 integrated cooling systems

NT2 primary coolant circuits

NT3 coolant cleanup systems

NT2 rcic systems

NT2 rhr systems

NT2 secondary coolant circuits

NT2 shrouds

NT2 tertiary coolant circuits

NT1 thermonuclear reactor cooling systems

RT absorption refrigeration cycle

RT ceiling fans

RT chemical heat pumps

RT cooling

RT cooling ponds

RT cooling towers

RT discharge canals

RT evaporative cooling

RT intake structures

RT legionella pneumophila

RT refrigerating machinery

RT refrigerators

RT vapor compression refrigeration cycle

**cooling systems (fission reactor)**

1993-11-05

USE reactor cooling systems

**cooling systems (fusion reactor)**

INIS: 1993-11-05; ETDE: 2002-06-13

USE thermonuclear reactor cooling systems

**COOLING TIME**

INIS: 1984-04-04; ETDE: 1979-09-26

NT1 fuel cooling time

RT cooling

RT heat extraction

**cooling tower packing grids**

2000-04-12

USE packings

**COOLING TOWERS**

UF counterflow cooling towers

UF crossflow cooling towers

UF dry-type cooling towers

UF forced draft cooling towers

UF mechanical draft cooling towers

UF natural draft cooling towers

UF wet-type cooling towers

SF towers

RT closed-cycle cooling systems

RT cooling

RT cooling systems

RT counterflow systems

RT crossflow systems

RT evaporative cooling

RT heat exchangers

RT open-cycle cooling systems

RT packings

RT reactor components

RT vapor condensers

**cooling water chemical treatment**

1993-11-05

USE water chemistry

**COOPER PAIRS**

RT bose-einstein statistics

RT coherence length

RT electrons

RT fermi level

RT superconductivity

**COOPER REACTOR**

Nebraska Public Power District, Brownville, Nebraska, USA.

\*BT1 bwr type reactors

**COOPERATION**

INIS: 1986-07-10; ETDE: 1979-12-17

NT1 interagency cooperation

NT1 intergovernmental cooperation

NT1 international cooperation

NT1 joint ventures

NT1 regional cooperation

RT agreements

RT cooperatives

RT coordinated research programs

RT interlaboratory comparisons

**cooperative spontaneous emission**

INIS: 1993-11-05; ETDE: 2002-06-13

USE superradiance

**COOPERATIVES**

INIS: 2000-06-27; ETDE: 1980-01-15

To be used in coordination with the descriptor for the pertinent industry or utility.

UF agricultural cooperatives

UF electric cooperatives

UF petroleum cooperatives

RT cooperation

RT electric utilities

RT farms

RT market

RT monopolies

RT small businesses

RT socio-economic factors

**COORDINATED RESEARCH PROGRAMS**

Research based on a common plan but carried out in various locations. This descriptor to be used in coordination with descriptors for the institutions or countries involved.

UF large coil program

BT1 research programs

NT1 consolidated fuel reprocessing program

NT1 ifip

RT cooperation

RT duman project

RT interlaboratory comparisons

RT international agreements

RT international cooperation

RT international organizations

RT planning

**COORDINATES**

(From December 1975 till February 1997 AZIMUTH was a valid ETDE descriptor.)

UF grids (coordinates)

UF position (optical)

*UF* position (radio)  
*SF* azimuth  
**NT1** cartesian coordinates  
**NT1** curvilinear coordinates  
**NT2** magnetic flux coordinates  
**NT1** geomagnetic coordinates  
**NT1** hylleraas coordinates  
*RT* center-of-mass system  
*RT* global positioning system  
*RT* laboratory system  
*RT* mathematics  
*RT* mesh generation  
*RT* position operators  
*RT* space dependence  
*RT* sun charts

**COORDINATION NUMBER**

*RT* complexes  
*RT* coordination valences  
*RT* ligands

**COORDINATION VALENCES**

**BT1** valence  
*RT* complexes  
*RT* coordination number  
*RT* crystal lattices  
*RT* structural chemical analysis

**copaiba**

*INIS: 2000-04-12; ETDE: 1983-02-09*  
 (Prior to March 1997 COPAIFERA was used for this concept in ETDE.)  
 USE trees

**copaifera**

*INIS: 2000-04-12; ETDE: 1981-06-17*  
*Trees that produce an oil which can be used directly, without processing, in diesel engines.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE trees

**COPEPODS**

*INIS: 1992-07-17; ETDE: 1976-05-13*  
 (Until July 1992, this concept was indexed to CRUSTACEANS.)  
**\*BT1** crustaceans  
*RT* zooplankton

**COPERNICIUM**

2010-05-19  
 (Prior to May 2010 ELEMENT 112 was used for this element.)  
*UF* *eka-mercury*  
*UF* *element 112*  
*UF* *ununbium*  
**\*BT1** transactinide elements

**COPERNICIUM 277**

2010-05-19  
 (Prior to May 2010 ELEMENT 112 277 was used for this concept.)  
*UF* *element 112 277*  
**\*BT1** alpha decay radioisotopes  
**\*BT1** copernicium isotopes  
**\*BT1** even-odd nuclei  
**\*BT1** heavy nuclei  
**\*BT1** microseconds living radioisotopes

**COPERNICIUM 278**

2010-05-19  
**\*BT1** copernicium isotopes  
**\*BT1** even-even nuclei  
**\*BT1** heavy nuclei  
**\*BT1** microseconds living radioisotopes

**COPERNICIUM 282**

2010-05-19  
**\*BT1** copernicium isotopes  
**\*BT1** even-even nuclei  
**\*BT1** heavy nuclei  
**\*BT1** microseconds living radioisotopes

**\*BT1** spontaneous fission radioisotopes

**COPERNICIUM 283**

2010-05-19  
 (Prior to May 2010 ELEMENT 112 283 was used for this concept.)  
*UF* *element 112 283*  
**\*BT1** copernicium isotopes  
**\*BT1** even-odd nuclei  
**\*BT1** heavy nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** spontaneous fission radioisotopes

**COPERNICIUM 284**

2010-05-19  
**\*BT1** copernicium isotopes  
**\*BT1** even-even nuclei  
**\*BT1** heavy nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** spontaneous fission radioisotopes

**COPERNICIUM 285**

2010-05-19  
**\*BT1** alpha decay radioisotopes  
**\*BT1** copernicium isotopes  
**\*BT1** even-odd nuclei  
**\*BT1** heavy nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** seconds living radioisotopes

**COPERNICIUM COMPOUNDS**

2010-05-19  
 (Prior to May 2010 ELEMENT 112 COMPOUNDS was used for this concept.)  
*UF* *element 112 compounds*  
**\*BT1** transactinide compounds

**COPERNICIUM IONS**

2018-01-24  
**\*BT1** ions

**COPERNICIUM ISOTOPES**

2010-05-19  
 (Prior to May 2010 ELEMENT 112 COMPOUNDS was used for this concept.)  
*UF* *element 112 isotopes*  
**BT1** isotopes  
**NT1** copernicium 277  
**NT1** copernicium 278  
**NT1** copernicium 282  
**NT1** copernicium 283  
**NT1** copernicium 284  
**NT1** copernicium 285

**COPOLYMERIZATION**

*Polymerization of molecules of different types.*  
**\*BT1** polymerization

**COPOLYMERS**

*INIS: 1975-11-07; ETDE: 1975-12-16*  
**\*BT1** organic polymers

**COPPER**

**\*BT1** transition elements

**COPPER 52**

2007-10-22  
**\*BT1** copper isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-odd nuclei  
**\*BT1** proton decay radioisotopes

**COPPER 53**

2007-10-22  
**\*BT1** copper isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei  
**\*BT1** proton decay radioisotopes

**COPPER 54**

2007-10-22  
**\*BT1** copper isotopes  
**\*BT1** intermediate mass nuclei

**\*BT1** odd-odd nuclei  
**\*BT1** proton decay radioisotopes

**COPPER 55**

2007-10-22  
**\*BT1** copper isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** odd-even nuclei

**COPPER 56**

*INIS: 2001-09-05; ETDE: 2002-02-06*  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** copper isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** odd-odd nuclei

**COPPER 57**

*INIS: 1980-05-14; ETDE: 1977-11-09*  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** copper isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** odd-even nuclei

**COPPER 58**

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** copper isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-odd nuclei  
**\*BT1** seconds living radioisotopes

**COPPER 59**

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** copper isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-even nuclei

**COPPER 60**

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** copper isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-odd nuclei

**COPPER 61**

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** copper isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** hours living radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei

**COPPER 61 TARGET**

*ETDE: 1976-07-09*  
**BT1** targets

**COPPER 62**

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** copper isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-odd nuclei

**COPPER 63**

**\*BT1** copper isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei  
**\*BT1** stable isotopes  
*RT* copper 63 reactions

**COPPER 63 BEAMS**

*INIS: 1978-11-24; ETDE: 1979-05-03*  
**\*BT1** ion beams

**COPPER 63 REACTIONS**

**\*BT1** heavy ion reactions

RT copper 63

### COPPER 63 TARGET

ETDE: 1976-07-09

BT1 targets

### COPPER 64

\*BT1 beta-minus decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei

### COPPER 64 TARGET

INIS: 1978-04-21; ETDE: 1978-07-06

BT1 targets

### COPPER 65

\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 stable isotopes

### COPPER 65 REACTIONS

\*BT1 heavy ion reactions

### COPPER 65 TARGET

ETDE: 1976-07-09

BT1 targets

### COPPER 66

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

### COPPER 67

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 days living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

### COPPER 68

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

### COPPER 69

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

### COPPER 70

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

### COPPER 71

1982-07-22

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

### COPPER 72

1982-07-22

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

### COPPER 73

1982-07-22

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

### COPPER 74

1989-07-19

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

### COPPER 75

INIS: 1990-05-17; ETDE: 1990-06-01

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

### COPPER 76

1992-03-17

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

### COPPER 77

1992-03-18

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

### COPPER 78

1992-03-18

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

### COPPER 79

1992-03-18

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

### COPPER 80

2007-10-22

\*BT1 beta-minus decay radioisotopes  
\*BT1 copper isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

### COPPER ADDITIONS

1996-07-17

Alloys containing not more than 1% Cu are listed here.

\*BT1 copper alloys  
NT1 alloy-ni43fe33cr16mo3  
NT2 nimonic pe16  
NT1 alloy-ni60co15cr10al6ti5mo3  
NT2 alloy-in-100  
NT1 duranickel  
NT1 steel-cr2mov  
NT1 steel-cr2nimov  
NT1 steel-crmov  
NT1 steel-crmi  
NT1 steel-mncumo  
NT2 steel-astm-a537

NT1 steel-ni3cr  
NT1 steel-ni4crw  
NT1 steel-nicr  
NT1 steel-nicrmo

### COPPER ALLOYS

1996-11-13

Alloys containing more than 1% Cu.

UF alloy-ge

\*BT1 transition element alloys  
NT1 alloy-al95cu4  
NT2 duralumin  
NT1 alloy-ni43fe30cr22mo3  
NT2 incoloy 825  
NT1 alloy-ni66cu32  
NT2 monel 400  
NT1 alloy-yundk 25ba  
NT1 bondur  
NT1 copper additions  
NT2 alloy-ni43fe33cr16mo3  
NT3 nimonic pe16  
NT2 alloy-ni60co15cr10al6ti5mo3  
NT3 alloy-in-100  
NT2 duranickel  
NT2 steel-cr2mov  
NT2 steel-cr2nimov  
NT2 steel-crmov  
NT2 steel-crmi  
NT2 steel-mncumo  
NT3 steel-astm-a537  
NT2 steel-ni3cr  
NT2 steel-ni4crw  
NT2 steel-nicr  
NT2 steel-nicrmo  
NT1 copper base alloys  
NT2 alloy-cu52ni47  
NT3 constantan  
NT2 alloy-cu70ni30  
NT2 alloy-cu90ni10  
NT2 brass  
NT3 brass-alpha  
NT3 brass-beta  
NT2 bronze  
NT2 heusler alloys  
NT2 manganin  
NT2 muntz metal  
NT2 nickeline alloy  
NT2 ounce metal  
NT2 tungsten bronze  
NT1 cunico  
NT1 heddur  
NT1 illium  
NT1 lynite  
NT1 magnalium  
NT1 ni-o-nel  
NT1 steel-cd-4mcu  
NT1 steel-cr17cu4ni4nb-1  
NT2 stainless steel-17-4ph  
NT1 steel-in-787  
NT1 zamak

### COPPER ARSENIDES

INIS: 1991-09-16; ETDE: 1985-09-24

\*BT1 arsenides  
\*BT1 copper compounds

### COPPER BASE ALLOYS

1996-06-28

UF german silver  
UF nickel silver  
UF resistal  
UF white copper  
\*BT1 copper alloys  
NT1 alloy-cu52ni47  
NT2 constantan  
NT1 alloy-cu70ni30  
NT1 alloy-cu90ni10  
NT1 brass  
NT2 brass-alpha  
NT2 brass-beta

NT1 bronze  
 NT1 heusler alloys  
 NT1 manganin  
 NT1 muntz metal  
 NT1 nickeline alloy  
 NT1 ounce metal  
 NT1 tungsten bronze

**COPPER BORIDES**

\*BT1 borides  
 \*BT1 copper compounds

**COPPER BROMIDES**

\*BT1 bromides  
 \*BT1 copper halides

**COPPER CARBIDES**

\*BT1 carbides  
 \*BT1 copper compounds

**COPPER CARBONATES**

\*BT1 carbonates  
 \*BT1 copper compounds

**COPPER CHLORIDES**

\*BT1 chlorides  
 \*BT1 copper halides

**COPPER COMPLEXES**

\*BT1 transition element complexes  
 NT1 ceruloplasmin  
 RT phthalocyanines

**COPPER COMPOUNDS**

BT1 transition element compounds  
 NT1 copper arsenides  
 NT1 copper borides  
 NT1 copper carbides  
 NT1 copper carbonates  
 NT1 copper halides  
 NT2 copper bromides  
 NT2 copper chlorides  
 NT2 copper fluorides  
 NT2 copper iodides  
 NT1 copper hydrides  
 NT1 copper hydroxides  
 NT1 copper nitrates  
 NT1 copper nitrides  
 NT1 copper oxides  
 NT1 copper perchlorates  
 NT1 copper phosphates  
 NT1 copper phosphides  
 NT1 copper selenides  
 NT1 copper silicates  
 NT1 copper silicides  
 NT1 copper sulfates  
 NT1 copper sulfides  
 NT1 copper tellurides  
 NT1 copper tungstates  
 NT1 cuprates

**COPPER FLUORIDES**

\*BT1 copper halides  
 \*BT1 fluorides

**COPPER HALIDES**

1986-04-03

\*BT1 copper compounds  
 \*BT1 halides  
 NT1 copper bromides  
 NT1 copper chlorides  
 NT1 copper fluorides  
 NT1 copper iodides

**COPPER HYDRIDES**

\*BT1 copper compounds  
 \*BT1 hydrides

**COPPER HYDROXIDES**

\*BT1 copper compounds  
 \*BT1 hydroxides

**COPPER IODIDES**

\*BT1 copper halides  
 \*BT1 iodides

**COPPER IONS**

\*BT1 ions

**COPPER ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 copper 52  
 NT1 copper 53  
 NT1 copper 54  
 NT1 copper 55  
 NT1 copper 56  
 NT1 copper 57  
 NT1 copper 58  
 NT1 copper 59  
 NT1 copper 60  
 NT1 copper 61  
 NT1 copper 62  
 NT1 copper 63  
 NT1 copper 64  
 NT1 copper 65  
 NT1 copper 66  
 NT1 copper 67  
 NT1 copper 68  
 NT1 copper 69  
 NT1 copper 70  
 NT1 copper 71  
 NT1 copper 72  
 NT1 copper 73  
 NT1 copper 74  
 NT1 copper 75  
 NT1 copper 76  
 NT1 copper 77  
 NT1 copper 78  
 NT1 copper 79  
 NT1 copper 80

**COPPER NITRATES**

\*BT1 copper compounds  
 \*BT1 nitrates

**COPPER NITRIDES**

1989-12-08

\*BT1 copper compounds  
 \*BT1 nitrides

**COPPER ORES**

BT1 ores

**COPPER OXIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-08-04

\*BT1 solar cells

**COPPER OXIDES**

\*BT1 copper compounds  
 \*BT1 oxides  
 RT cuprates  
 RT oxide minerals  
 RT sengierite

**COPPER PERCHLORATES**

\*BT1 copper compounds  
 \*BT1 perchlorates

**COPPER PHOSPHATES**

\*BT1 copper compounds  
 \*BT1 phosphates  
 RT phosphate minerals  
 RT torbernite

**COPPER PHOSPHIDES**

1991-09-16

\*BT1 copper compounds  
 \*BT1 phosphides

**COPPER SELENIDE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

\*BT1 solar cells

**COPPER SELENIDES**

INIS: 1976-07-08; ETDE: 1975-10-01

\*BT1 copper compounds  
 \*BT1 selenides

**COPPER SILICATES**

1996-11-13

\*BT1 copper compounds  
 \*BT1 silicates

**COPPER SILICIDES**

1977-01-26

\*BT1 copper compounds  
 \*BT1 silicides

**COPPER SULFATES**

1996-07-18

\*BT1 copper compounds  
 \*BT1 sulfates  
 RT sulfate minerals

**COPPER SULFIDE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

\*BT1 solar cells

**COPPER SULFIDES**

\*BT1 copper compounds  
 \*BT1 sulfides  
 RT chalcopyrite  
 RT sulfide minerals

**COPPER TELLURIDES**

1978-02-23

\*BT1 copper compounds  
 \*BT1 tellurides

**COPPER TUNGSTATES**

\*BT1 copper compounds  
 \*BT1 tungstates

**copper vapor lasers**

INIS: 1984-04-04; ETDE: 1984-05-10

(Until August 1992, this was indexed by GAS LASERS.)

USE metal vapor lasers

**COPPICES**

INIS: 1993-07-14; ETDE: 1981-10-24

Forests or thickets originating mainly from shoots or root suckers of stumps rather than from seed.

BT1 forests  
 RT biomass plantations  
 RT forest litter

**COPRECIPITATION**

\*BT1 precipitation  
 RT coalescence  
 RT flocculation

**COPROCESSING**

INIS: 2000-06-27; ETDE: 1988-02-26

Processing coal and petroleum residues together.

BT1 processing

**CORAL-1 REACTOR**

Uncooled. Junta de Energia Nuclear, Madrid, Spain.

\*BT1 enriched uranium reactors  
 \*BT1 fast reactors  
 \*BT1 research reactors  
 \*BT1 zero power reactors

**CORAL REEFS**

2013-11-27

\*BT1 reefs  
 RT corals

**CORAL REPROCESSING PLANT**

2009-12-23

COmpact Reprocessing of Advanced fuels in Lead cell, Indira Gandhi Centre for Atomic

*Energy, Kalpakkam, India. Demonstration plant for breeder reactor fuel reprocessing.*  
 UF compact reprocessing of advanced fuels in lead cell  
 BT1 demonstration plants  
 \*BT1 fuel reprocessing plants  
 RT kalpakkam lmfr reactor  
 RT mixed carbide fuels

**CORALS**

\*BT1 cnidaria  
 RT coral reefs

**CORCHORUS**

\*BT1 magnoliopsida  
 NT1 jute

**cordillera de los andes**

USE andes

**CORDOBA REACTOR**

*INIS: 1978-02-23; ETDE: 1978-04-28*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors

**cordova quad cities-1 reactor**

USE quad cities-1 reactor

**cordova quad cities-2 reactor**

USE quad cities-2 reactor

**cordylite**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE carbonate minerals  
 USE radioactive minerals

**core (earth)**

*INIS: 1988-02-02; ETDE: 2002-06-13*  
 USE earth core

**core barrel**

*INIS: 2000-04-12; ETDE: 1978-07-05*  
 (Prior to April 1997 CORING EQUIPMENT was used for this concept in ETDE.)  
 USE drilling equipment

**CORE CATCHERS**

*Structures under core for retaining molten debris following meltdown accident.*  
 BT1 reactor components  
 RT corium  
 RT melt-through  
 RT meltdown  
 RT reactor cores

**CORE FLOODING SYSTEMS**

\*BT1 eccs  
 RT loss of coolant

**core melt**

2017-07-18  
 USE meltdown

**core polarization (nuclei)**

*INIS: 1984-04-04; ETDE: 2000-11-20*  
 USE excitation  
 USE nuclear cores

**CORE SPRAY SYSTEMS**

\*BT1 eccs  
 RT fog cooled reactors  
 RT fog cooling  
 RT loss of coolant

**cores (drill)**

USE drill cores

**cores (magnet)**

USE magnet cores

**cores (magnetic)**

USE magnetic cores

**cores (nuclear)**

USE nuclear cores

**cores (reactor)**

USE reactor cores

**coring equipment**

*INIS: 2000-04-12; ETDE: 1978-07-05*  
 (Prior to April 1997 this was a valid ETDE descriptor.)  
 USE drilling equipment

**CORING FLUIDS**

*INIS: 2000-04-12; ETDE: 1981-12-14*  
 RT cuttings removal  
 RT drill cores  
 RT drilling fluids

**CORIOLIS FORCE**

RT backbending  
 RT rotation

**CORIUM**

*INIS: 1977-10-17; ETDE: 1977-06-02*  
*Molten mixture of fuel, cladding and other core structural material resulting from a meltdown accident.*  
 RT core catchers  
 RT meltdown  
 RT reactor accidents  
 RT reactor cores

**CORK**

RT bark  
 RT wood

**corn (maize)**

USE maize

**CORN OIL**

UF maize oil  
 \*BT1 triglycerides  
 \*BT1 vegetable oils

**corn stover**

*INIS: 2000-04-12; ETDE: 1979-04-11*  
 USE agricultural wastes  
 USE maize

**CORNEA**

\*BT1 eyes

**CORNELL 10-GEV SYNCHROTRON**

\*BT1 synchrotrons

**cornell electron-positron storage ring**

*INIS: 1979-01-18; ETDE: 1979-02-23*  
 USE cesr storage ring

**CORNELL TRIGA-MK-2 REACTOR**

*Cornell, Univ., Ithaca, New York, USA.*  
 UF triga-2-cornell reactor  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**cornell university zero power reactor**

1993-11-05  
 USE zpr reactor

**corona (solar)**

USE solar corona

**CORONA COUNTERS**

\*BT1 radiation detectors  
 RT proportional counters  
 RT spark counters

**CORONA DISCHARGES**

BT1 electric discharges  
 RT lichtenberg figures

**coronae (stellar)**

*INIS: 1984-02-22; ETDE: 2002-06-13*  
 USE stellar coronae

**CORONARIES**

\*BT1 arteries  
 RT heart  
 RT heart failure  
 RT myocardial infarction  
 RT myocardium

**corporation law**

*INIS: 1990-12-15; ETDE: 2002-06-13*  
 (Prior to December 1990, this was a valid descriptor.)  
 USE laws

**corps of engineers**

*INIS: 2000-04-12; ETDE: 1980-08-25*  
 (Prior to December 1991 this was a valid ETDE descriptor.)  
 USE us corps of engineers

**corral canyon nuclear power reactor-1**

2000-04-12  
 USE malibu-1 reactor

**CORRECTIONS**

See also REMEDIAL ACTION.  
 NT1 coulomb correction  
 NT1 radiative corrections  
 NT1 rydberg correction  
 RT errors  
 RT modifications

**CORRELATED-PARTICLE MODELS**

\*BT1 particle models  
 RT correlation functions  
 RT multiple production

**correlation energy**

USE electron correlation

**CORRELATION FUNCTIONS**

BT1 functions  
 RT correlated-particle models  
 RT reactor noise

**CORRELATIONS**

NT1 angular correlation  
 NT2 perturbed angular correlation  
 NT3 differential pac  
 NT3 integral pac  
 NT1 electron correlation  
 NT1 kramers-kronig correlation  
 RT comparative evaluations  
 RT multivariate analysis  
 RT regression analysis

**CORROSION**

BT1 chemical reactions  
 NT1 crevice corrosion  
 NT1 electrochemical corrosion  
 NT1 fretting corrosion  
 NT1 intergranular corrosion  
 NT1 nodular corrosion  
 NT1 pitting corrosion  
 NT1 stress corrosion  
 RT antifoulants  
 RT corrosion denting  
 RT corrosion fatigue  
 RT corrosion pickling  
 RT corrosion products  
 RT corrosion protection  
 RT corrosion resistance  
 RT corrosive effects  
 RT erosion  
 RT failures  
 RT fouling  
 RT materials testing



RT oxidation  
 RT passivity  
 RT scaling  
 RT surface properties  
 RT thermochemical diagrams  
 RT weathering

**CORROSION DENTING**

INIS: 1979-05-28; ETDE: 1979-09-06

UF denting (corrosion)  
 BT1 deformation  
 RT corrosion  
 RT tubes  
 RT water chemistry

**CORROSION FATIGUE**

INIS: 1981-07-06; ETDE: 1975-12-16

\*BT1 fatigue  
 RT corrosion

**corrosion inhibition**

USE corrosion protection

**CORROSION INHIBITORS**

UF inhibitors (corrosion)  
 RT corrosion protection

**CORROSION PICKLING**

\*BT1 pickling  
 RT corrosion

**CORROSION PRODUCTS**

RT corrosion  
 RT electromagnetic filters  
 RT oxidation  
 RT oxides  
 RT scaling

**CORROSION PROTECTION**

UF anticorrosion  
 UF corrosion inhibition  
 UF protection (corrosion)  
 NT1 anodization  
 NT1 cathodic protection  
 RT coatings  
 RT corrosion  
 RT corrosion inhibitors  
 RT corrosion resistance  
 RT paints  
 RT passivation  
 RT scale control  
 RT surface coating

**CORROSION RESISTANCE**

RT corrosion  
 RT corrosion protection  
 RT passivity

**CORROSION RESISTANT ALLOYS**

1996-11-13

BT1 alloys  
 NT1 alloy-co36cr22ni22w15fe3  
 NT2 haynes 188 alloy  
 NT1 alloy-co54cr20w15ni10  
 NT2 alloy-hs-25  
 NT2 haynes 25 alloy  
 NT1 alloy-co60cr30w4  
 NT2 stellite 6  
 NT1 alloy-fe44ni33cr21  
 NT2 incoloy 800h  
 NT1 alloy-fe46ni33cr21  
 NT2 incoloy 800  
 NT2 incoloy 802  
 NT1 alloy-mo99  
 NT2 alloy-tzm  
 NT2 alloy-zm-2a  
 NT1 alloy-ni41fe40cr16nb3  
 NT2 inconel 706  
 NT1 alloy-ni43fe30cr22mo3  
 NT2 incoloy 825  
 NT1 alloy-ni43fe33cr16mo3  
 NT2 nimonic pe16

NT1 alloy-ni45fe34cr20  
 NT1 alloy-ni46cr23co19ti5al4  
 NT2 alloy-in-939  
 NT1 alloy-ni49cr22fe18mo9  
 NT2 hastelloy x  
 NT1 alloy-ni50co20cr15al5mo5  
 NT2 nimonic 105  
 NT1 alloy-ni50cr22fe18mo9  
 NT2 hastelloy xr  
 NT1 alloy-ni50mo32cr15si3  
 NT1 alloy-ni51cr48  
 NT2 inconel 671  
 NT1 alloy-ni53co19cr15mo5al4ti3  
 NT2 udimet 700  
 NT1 alloy-ni53cr19fe19nb5mo3  
 NT2 inconel 718  
 NT1 alloy-ni54cr22co13mo9  
 NT2 inconel 617  
 NT1 alloy-ni54mo17cr16fe6w4  
 NT2 hastelloy c  
 NT1 alloy-ni55cr19co11mo10ti3  
 NT2 rene 41  
 NT1 alloy-ni58cr20co14mo4ti3  
 NT2 waspaloy  
 NT1 alloy-ni59cr20co17ti2  
 NT1 alloy-ni59cr30fe9  
 NT2 inconel 690  
 NT1 alloy-ni60co15cr10al6ti5mo3  
 NT2 alloy-in-100  
 NT1 alloy-ni60fe24cr16  
 NT2 nichrome  
 NT1 alloy-ni61cr16co9al3ti3w3  
 NT2 alloy-in-738  
 NT1 alloy-ni61cr22mo9nb4fe3  
 NT2 inconel 625  
 NT1 alloy-ni62cr16mo15fe3  
 NT2 hastelloy s  
 NT1 alloy-ni65cr25mo10  
 NT2 nimonic 86  
 NT1 alloy-ni65mo28fe5  
 NT2 hastelloy b  
 NT1 alloy-ni70mo17cr7fe5  
 NT2 hastelloy n  
 NT2 inor-8  
 NT1 alloy-ni73cr15fe7ti3  
 NT2 inconel x750  
 NT1 alloy-ni73cr20mn3nb3  
 NT2 inconel 82  
 NT1 alloy-ni74cr13al6mo4  
 NT2 inconel 713c  
 NT1 alloy-ni75cr12al6mo5  
 NT2 inconel 713lc  
 NT1 alloy-ni76cr15fe8  
 NT2 inconel 600  
 NT1 alloy-ni76cr20ti2  
 NT2 nimonic 80a  
 NT1 alloy-ni77cr20ti2  
 NT1 alloy-ra-333  
 NT1 alloy-zr98sn-2  
 NT2 zircaloy 2  
 NT1 alloy-zr98sn-4  
 NT2 zircaloy 4  
 NT1 colmonoy  
 NT1 heusler alloys  
 NT1 incoloy 901  
 NT1 rene 80  
 NT1 rene 95  
 NT1 steel-cd-4mcu  
 NT1 steel-cr11ni10mo2ti-1  
 NT1 steel-cr12  
 NT2 stainless steel-403  
 NT1 steel-cr12moniv  
 NT1 steel-cr12mov  
 NT2 alloy-ht-9  
 NT1 steel-cr13  
 NT2 stainless steel-410  
 NT1 steel-cr13al  
 NT2 stainless steel-405  
 NT1 steel-cr15ni15motib

NT1 steel-cr16  
 NT2 stainless steel-430  
 NT1 steel-cr16ni  
 NT1 steel-cr16ni13monbv  
 NT1 steel-cr16ni15mo3nb  
 NT1 steel-cr16ni16monb  
 NT1 steel-cr16ni8mo2  
 NT2 stainless steel-16-8-2  
 NT1 steel-cr17cu4ni4nb-1  
 NT2 stainless steel-17-4ph  
 NT1 steel-cr17mo  
 NT2 stainless steel-440  
 NT1 steel-cr17ni12mo3  
 NT2 stainless steel-316  
 NT1 steel-cr17ni12mo3-1  
 NT2 stainless steel-316l  
 NT2 stainless steel-zcnd17-13  
 NT1 steel-cr17ni12monb  
 NT1 steel-cr17ni13  
 NT1 steel-cr17ni13mo2ti  
 NT1 steel-cr17ni13mo3ti  
 NT1 steel-cr17ni4mo3  
 NT1 steel-cr17ni7  
 NT2 stainless steel-301  
 NT1 steel-cr18  
 NT1 steel-cr18ni10  
 NT2 stainless steel-18-10  
 NT1 steel-cr18ni10-1  
 NT1 steel-cr18ni10ti  
 NT2 stainless steel-321  
 NT1 steel-cr18ni11  
 NT2 steel-x6crni1811  
 NT1 steel-cr18ni11nb  
 NT2 stainless steel-347  
 NT1 steel-cr18ni11nbco  
 NT2 stainless steel-348  
 NT1 steel-cr18ni12  
 NT2 stainless steel-305  
 NT1 steel-cr18ni12ti  
 NT1 steel-cr18ni8  
 NT2 stainless steel-18-8  
 NT1 steel-cr18ni9  
 NT2 stainless steel-302  
 NT1 steel-cr18ni9ti  
 NT1 steel-cr19ni10  
 NT2 stainless steel-304  
 NT1 steel-cr19ni10-1  
 NT2 stainless steel-304l  
 NT1 steel-cr20ni11  
 NT2 stainless steel-308  
 NT1 steel-cr20ni11-1  
 NT2 stainless steel-308l  
 NT1 steel-cr21mn9ni6  
 NT2 stainless steel-21-6-9  
 NT1 steel-cr23ni14  
 NT2 stainless steel-309  
 NT2 stainless steel-309s  
 NT1 steel-cr23ni18  
 NT1 steel-cr25  
 NT2 stainless steel-446  
 NT1 steel-cr25ni20  
 NT2 alloy-hk-40  
 NT2 stainless steel-310  
 NT1 steel-ni25cr20  
 NT2 stainless steel-20-25  
 NT1 steel-ni26cr15ti2moyalb  
 NT2 alloy-a-286  
 NT1 steel-ni36cr12ti3al-1  
 NT1 tribaloy 800  
 RT austenitic steels  
 RT ferritic steels  
 RT hastelloys  
 RT stainless steels

**CORROSIVE EFFECTS**

1992-03-12

RT corrosion

**cortex (adrenal)**

USE adrenal glands

**cortex (cerebral)**

USE cerebral cortex

**corticoids**

USE corticosteroids

**CORTICOSTEROIDS**

UF corticoids

\*BT1 adrenal hormones

\*BT1 hydroxy compounds

\*BT1 ketones

\*BT1 pregnanes

\*BT1 steroid hormones

NT1 glucocorticoids

NT2 corticosterone

NT2 cortisone

NT2 dexamethasone

NT2 hydrocortisone

NT2 prednisolone

NT2 prednisone

NT1 mineralocorticoids

NT2 aldosterone

RT acth

RT androgens

RT cushing syndrome

**CORTICOSTERONE**

\*BT1 glucocorticoids

**cortisol**

USE hydrocortisone

**CORTISONE**

\*BT1 glucocorticoids

**CORUNDUM**

\*BT1 oxide minerals

NT1 ruby

NT1 sapphire

RT aluminium oxides

**CORVUSITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 radioactive minerals

RT vanadium oxides

**CORYNEBACTERIUM FASCIANS**

INIS: 1993-07-14; ETDE: 1983-05-21

\*BT1 bacteria

RT microbial eor

**CORYNEBACTERIUM PARVUM**

INIS: 1978-09-28; ETDE: 1978-06-14

\*BT1 bacteria

RT immunotherapy

**cosmetics**

INIS: 1984-04-04; ETDE: 1984-05-10

USE consumer products

**COSMIC ALPHA PARTICLES**

1983-03-14

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and ALPHA PARTICLES.)

\*BT1 alpha particles

\*BT1 primary cosmic radiation

**COSMIC DUST**

BT1 dusts

RT dusty plasma

RT interstellar grains

RT interstellar space

RT nebulae

RT star accretion

**COSMIC ELECTRONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and ELECTRONS.)

\*BT1 electrons

\*BT1 secondary cosmic radiation

**COSMIC GAMMA BURSTS**

\*BT1 primary cosmic radiation

RT cosmic gamma sources

RT cosmic x-ray bursts

**cosmic gamma rays**

INIS: 2000-04-12; ETDE: 1979-02-23

USE cosmic photons

**COSMIC GAMMA SOURCES**

BT1 cosmic ray sources

RT cosmic gamma bursts

RT cosmic photons

RT gamma astronomy

RT gamma radiation

RT primary cosmic radiation

**COSMIC GASES**

\*BT1 gases

RT interstellar grains

RT interstellar space

RT nebulae

RT optical depth curve

RT spectroscopic curve of growth

**cosmic inflation**

2014-02-26

USE inflationary universe

**COSMIC KAONS**

INIS: 1985-12-10; ETDE: 1975-07-29

(Prior to July 1975 KAONS was used for this concept in ETDE.)

\*BT1 kaons

\*BT1 secondary cosmic radiation

**cosmic microwave background**

2003-05-30

USE relic radiation

**COSMIC MUONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and MUONS.)

\*BT1 muons

\*BT1 secondary cosmic radiation

**COSMIC NEUTRINOS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to July 1975 NEUTRINOS was used for this concept in ETDE.)

\*BT1 cosmic radiation

\*BT1 neutrinos

**COSMIC NEUTRONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and NEUTRONS.)

\*BT1 neutrons

\*BT1 secondary cosmic radiation

**cosmic noise**

USE radio noise

**COSMIC NUCLEI**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and NUCLEI.)

BT1 nuclei

\*BT1 primary cosmic radiation

**cosmic particles**

USE cosmic radiation

**COSMIC PHOTONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to July 1975 PHOTONS was used for this concept in ETDE.)

UF cosmic gamma rays

UF cosmic x rays

\*BT1 cosmic radiation

\*BT1 photons

RT cosmic gamma sources

RT cosmic x-ray sources

RT x-ray galaxies

**COSMIC PIONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to July 1975 PIONS was used for this concept in ETDE.)

\*BT1 pions

\*BT1 secondary cosmic radiation

**COSMIC POSITRONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and POSITRONS.)

\*BT1 positrons

\*BT1 secondary cosmic radiation

**COSMIC PROTONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to July 1975 PROTONS was used for this concept in ETDE.)

\*BT1 cosmic radiation

\*BT1 protons

**COSMIC RADIATION**

1996-07-08

Not for radiation from the sun for which see SOLAR RADIATION.

UF cosmic particles

SF positive excess

\*BT1 ionizing radiations

NT1 cosmic neutrinos

NT1 cosmic photons

NT1 cosmic protons

NT1 hard component

NT1 primary cosmic radiation

NT2 cosmic alpha particles

NT2 cosmic gamma bursts

NT2 cosmic nuclei

NT2 cosmic x-ray bursts

NT1 secondary cosmic radiation

NT2 cosmic electrons

NT2 cosmic kaons

NT2 cosmic muons

NT2 cosmic neutrons

NT2 cosmic pions

NT2 cosmic positrons

NT2 cosmic showers

NT3 extensive air showers

NT1 soft component

RT background radiation

RT centauro-type events

RT cosmic radio sources

RT cosmic ray detection

RT cosmic ray flux

RT cosmic ray propagation

RT cosmic x-ray sources

RT east-west asymmetry

RT forrush decrease

RT gamma astronomy

RT north-south asymmetry

RT relict radiation

RT solar radiation

RT space flight

RT stellar activity

RT stellar radiation

RT supersonic transport

RT threshold rigidity

RT x-ray galaxies

**COSMIC RADIO SOURCES**

- NT1 bl lacertae objects
- NT1 h1 regions
- NT1 h2 regions
- NT1 pulsars
- NT1 quasars
- NT2 blue stellar objects
- NT1 radio galaxies
- NT1 supernova remnants
- NT2 crab nebula
- RT cosmic radiation
- RT cosmic ray sources
- RT markarian galaxies
- RT radioastronomy
- RT radiowave radiation

**COSMIC RAY DETECTION**

- \*BT1 radiation detection
- RT charged particle detection
- RT cosmic radiation
- RT cosmic ray spectrometers
- RT muon detection
- RT radiation detectors
- RT shower counters
- RT telescope counters

**COSMIC RAY FLUX**

- UF flux (cosmic ray)
- BT1 radiation flux
- RT cosmic radiation
- RT cosmic ray propagation

**COSMIC RAY PROPAGATION**

- RT cosmic radiation
- RT cosmic ray flux

**COSMIC RAY SOURCES**

- NT1 cosmic gamma sources
- NT1 cosmic x-ray sources
- NT2 cosmic x-ray bursts
- NT2 x-ray galaxies
- RT cosmic radio sources
- RT primary cosmic radiation

**COSMIC RAY SPECTROMETERS**

- \*BT1 spectrometers
- RT cosmic ray detection

**COSMIC SHOWERS**

- \*BT1 secondary cosmic radiation
- BT1 showers
- NT1 extensive air showers
- RT cascade showers
- RT centauro-type events

**COSMIC X-RAY BURSTS**

INIS: 1983-02-04; ETDE: 1981-03-17

- \*BT1 cosmic x-ray sources
- \*BT1 primary cosmic radiation
- RT cosmic gamma bursts
- RT x radiation

**COSMIC X-RAY SOURCES**

- BT1 cosmic ray sources
- NT1 cosmic x-ray bursts
- NT1 x-ray galaxies
- RT accretion disks
- RT cosmic photons
- RT cosmic radiation
- RT gamma astronomy
- RT x radiation

**cosmic x rays**

INIS: 2000-04-12; ETDE: 1979-02-23

- USE cosmic photons

**COSMIDS**

INIS: 2000-04-12; ETDE: 1988-04-15

DNA-cloning vectors constructed of both plasmid sequences and phage factors.

- RT bacteriophages
- RT dna-cloning

**COSMOCHEMISTRY**

- BT1 chemistry
- RT chemical composition
- RT element abundance
- RT metallicity
- RT nucleosynthesis

**cosmogony**

- USE cosmology

**COSMOLOGICAL CONSTANT**

INIS: 1984-04-04; ETDE: 1984-05-08

Multiplicative constant for a term proportional to the metric in Einstein's equation relating the curvature of space to the energy-momentum tensor.

- RT einstein field equations
- RT general relativity theory
- RT space-time

**COSMOLOGICAL CRITICAL****DENSITY**

2014-02-26

- RT cosmological models
- RT universe

**COSMOLOGICAL INFLATION**

2015-06-05

The exponential expansion of space in the early universe.

- UF inflation (cosmological)
- RT branes
- RT cosmological models
- RT galactic evolution
- RT inflationary universe
- RT quantum gravity
- RT string theory

**COSMOLOGICAL MODELS**

UF einstein-de sitter model

UF models (cosmological)

BT1 mathematical models

NT1 inflationary universe

- RT branes
- RT cosmological critical density
- RT cosmological inflation
- RT expansion
- RT galactic evolution
- RT general relativity theory
- RT m-theory
- RT planet-system accretion
- RT protoplanets
- RT protostars
- RT solar nebula
- RT star accretion
- RT universe
- RT vortex theory

**COSMOLOGY**

UF cosmogony

NT1 dirac cosmology

NT1 quantum cosmology

- RT astrophysics
- RT black holes
- RT fundamental constants
- RT galactic evolution
- RT general relativity theory
- RT high-energy limit
- RT hubble effect
- RT low-energy limit
- RT mach principle
- RT matter
- RT origin
- RT red shift
- RT schwarzschild metric
- RT space-time
- RT star evolution
- RT universe
- RT white holes

**cosmos**

- USE universe

**COSMOTRON**

- \*BT1 synchrotrons

**COSO HOT SPRINGS**

INIS: 1992-06-04; ETDE: 1979-07-18

- \*BT1 california

**cosorb process**

INIS: 2000-04-12; ETDE: 1975-09-11

Process for the separation of CO from gaseous mixtures by selective adsorption in unique solvent.

(Prior to February 1995, this was a valid

ETDE descriptor.)

- USE carbon monoxide
- USE solvent extraction

**COST**

- UF excess costs
- SF values
- NT1 capitalized cost
- NT1 cost overruns
- NT1 external cost
- NT1 life-cycle cost
- NT1 operating cost
- RT budgets
- RT capital
- RT charges
- RT cost benefit analysis
- RT cost effectiveness analysis
- RT cost estimation
- RT cost recovery
- RT economics
- RT energy expenses
- RT expenditures
- RT financing
- RT fuel cycle
- RT inflation
- RT investment
- RT nuclear materials management
- RT payback period
- RT present worth method
- RT prices
- RT procurement

**COST BENEFIT ANALYSIS**

Method to calculate and compare costs and benefits of a project, decision or government policy

- \*BT1 economic analysis
- RT comparative evaluations
- RT cost
- RT cost effectiveness analysis
- RT cost estimation
- RT cost overruns
- RT external cost
- RT life-cycle cost
- RT technology impacts

**COST EFFECTIVENESS ANALYSIS**

2013-08-26

Method to compare the costs and outcomes (effects) of a project, decision or government policy

- \*BT1 economic analysis
- RT cost
- RT cost benefit analysis
- RT cost overruns
- RT efficiency
- RT performance

**COST ESTIMATION**

INIS: 1985-12-10; ETDE: 1982-08-11

- UF appraisal
- RT cost
- RT cost benefit analysis
- RT forecasting
- RT life-cycle cost

**COST OVERRUNS**

INIS: 1985-12-10; ETDE: 1983-03-24

- BT1 cost
- RT charges
- RT cost benefit analysis
- RT cost effectiveness analysis
- RT procurement

**COST RECOVERY**

INIS: 1992-04-09; ETDE: 1983-03-23

- UF reimbursement
- RT charges
- RT cost
- RT financing

**COSTA RICA**

- \*BT1 central america
- BT1 developing countries

**COSTEAM PROCESS**

2000-04-12

A process involving the pumping of a slurry consisting of pulverized coal in lignite-derived oil and a stream of carbon monoxide and/or synthesis gas into a stirred reactor at 400 degrees-450 degrees C and 4, 000 psig.

- \*BT1 coal liquefaction

**COSTER-KRONIG TRANSITIONS**

- BT1 auger effect
- BT1 energy-level transitions

**COSY STORAGE RING**

INIS: 1992-04-16; ETDE: 1992-08-12

Cooled synchrotron storage ring at KFZ Juelich, Federal Republic of Germany.

- UF juelich storage ring
- BT1 storage rings
- \*BT1 synchrotrons

**COTE D'IVOIRE**

INIS: 1997-01-07; ETDE: 1996-12-24

(Until January 1997 this concept was indexed to IVORY COAST.)

- UF ivory coast
- BT1 africa
- BT1 developing countries

**COTTON**

- RT cotton plants
- RT fibers
- RT textiles

**cotton-mouton effect**

- USE voigt effect

**COTTON PLANTS**

- \*BT1 magnoliopsida
- RT boll weevil
- RT bollworm
- RT cotton
- RT cottonseed oil

**COTTONSEED OIL**

INIS: 1981-08-06; ETDE: 1980-09-22

- \*BT1 vegetable oils
- RT cotton plants

**COTTONWOODS**

INIS: 1992-01-10; ETDE: 1979-03-27

- \*BT1 poplars
- RT aspens

**COUETTE FLOW**

- \*BT1 viscous flow

**coulomb attraction**

- USE coulomb field

**coulomb barrier**

- USE coulomb field

**COULOMB CORRECTION**

- BT1 corrections
- RT electromagnetic interactions

**COULOMB ENERGY**

- BT1 energy
- RT binding energy
- RT nolen-schiffer anomaly

**COULOMB EXCITATION**

- \*BT1 excitation
- RT coulomb scattering

**COULOMB FIELD**

- UF coulomb attraction
- UF coulomb barrier
- UF coulomb potential
- UF coulomb repulsion
- BT1 electric fields
- RT astrophysical s factor
- RT central potential
- RT coulomb ionization
- RT nuclear screening
- RT ponderomotive force

**COULOMB IONIZATION**

INIS: 1977-09-15; ETDE: 1977-11-10

Ionization produced by Coulomb forces between a projectile and the target.

- BT1 ionization
- RT coulomb field
- RT inner-shell ionization

**coulomb potential**

- USE coulomb field

**coulomb repulsion**

- USE coulomb field

**COULOMB SCATTERING**

- \*BT1 elastic scattering
- \*BT1 electromagnetic interactions
- RT coulomb excitation
- RT electron cooling
- RT potential scattering

**coulometry**

- USE voltametry

**COUMARIN**

- SF coumarins
- \*BT1 anticoagulants
- \*BT1 lactones
- \*BT1 pyrans
- RT psoralen

**coumarins**

INIS: 2000-04-12; ETDE: 1981-04-20

(Prior to March 1994, this was a valid ETDE descriptor.)

- SEE anticoagulants
- SEE coumarin

**council for mutual economic assistance**

1993-11-05

- USE comecon

**council on environmental quality**

INIS: 2000-04-12; ETDE: 1981-03-17

- USE us ceq

**COUNTER CURRENT**

- RT chromatography
- RT counterflow systems
- RT solvent extraction

**counterflow cooling towers**

1985-12-10

- USE cooling towers
- USE counterflow systems

**COUNTERFLOW SYSTEMS**

1985-12-10

- UF counterflow cooling towers
- RT cooling towers
- RT counter current
- RT evaporators
- RT hydrodynamics
- RT vapor condensers

**counters (radiation)**

- USE radiation detectors

**COUNTING CIRCUITS**

- BT1 electronic circuits
- RT counting ratemeters
- RT counting tubes
- RT pulse circuits
- RT pulse techniques
- RT radiation detection
- RT radiation detectors
- RT scalars
- RT switching circuits

**COUNTING RATEMETERS**

- UF ratemeters (counting)
- \*BT1 electronic equipment
- NT1 linear ratemeters
- NT1 logarithmic ratemeters
- RT counting circuits
- RT counting rates
- RT exposure ratemeters
- RT pulse integrators
- RT pulse techniques

**COUNTING RATES**

- RT counting ratemeters

**COUNTING TECHNIQUES**

- NT1 absolute counting
- NT1 charge plunger method
- NT1 cherenkov counting
- NT1 coincidence methods
- NT2 coincidence spectrometry
- NT2 tagged photon method
- NT1 dsa method
- NT1 four-pi counting
- NT1 low level counting
- NT1 photoelectron counting
- NT1 radioisotope scanning
- NT2 scintiscanning
- NT3 radioimmunoscintigraphy
- NT1 scintillation counting
- NT1 sequential scanning
- NT1 whole-body counting
- RT activity meters
- RT anticoincidence
- RT electronic circuits
- RT electronic equipment
- RT hodoscopes
- RT position sensitive detectors
- RT pulse techniques
- RT radiation detectors
- RT radioassay
- RT recording systems
- RT telescope counters

**COUNTING TUBES**

- UF dekatrons
- UF trochotrons
- BT1 electron tubes
- RT counting circuits
- RT pulse techniques
- RT scalars

**county buildings**

INIS: 2000-04-12; ETDE: 1981-01-09

- USE public buildings

**couple corrosion**

- USE electrochemical corrosion

**COUPLED CHANNEL BORN APPROXIMATION**

UF *ccba*  
 \*BT1 born approximation  
 RT coupled channel theory  
 RT nuclear reaction kinetics  
 RT nuclear reactions  
 RT scattering

**COUPLED CHANNEL THEORY**

RT collisions  
 RT coupled channel born approximation  
 RT nuclear reactions

**coupled fast reactor measurement facility**

1993-11-05  
 USE cfrmf reactor

**COUPLED REACTOR CORES**

\*BT1 reactor cores

**COUPLING**

*Not for the concept covered by JOINING.*

NT1 electron-electron coupling  
 NT1 electron-hole coupling  
 NT1 electron-ion coupling  
 NT1 electron-phonon coupling  
 NT1 intermediate coupling  
 NT2 j-j coupling  
 NT2 l-s coupling  
 NT1 pseudovector coupling  
 NT1 ruderman-kittel coupling  
 RT aligned coupling scheme  
 RT bootstrap model  
 RT bound state  
 RT coupling constants  
 RT decoupling  
 RT goldberger-treiman relation  
 RT impulse approximation  
 RT interactions  
 RT particle-core coupling model  
 RT quasibound state  
 RT strong-coupling model  
 RT weak-coupling model

**COUPLING CONSTANTS**

RT coupling

**COUPLINGS**

INIS: 1996-04-22; ETDE: 1976-09-28  
 (Until April 1996 this concept was indexed to MACHINE PARTS.)  
 RT fasteners  
 RT joining

**couplings (machine parts)**

INIS: 2000-04-12; ETDE: 1984-05-10  
 USE machine parts

**court buildings**

INIS: 2000-04-12; ETDE: 1981-01-09  
 USE public buildings

**COURTS**

INIS: 1976-12-08; ETDE: 1977-06-24  
 RT dispute settlements  
 RT hearings  
 RT lawsuits

**COVALENCE**

UF *covalency*  
 RT binding energy

**covalency**

USE covalence

**COVER GAS**

*The inert gas blanket over the liquid metal in a liquid metal cooled reactor.*  
 \*BT1 gases  
 \*BT1 inert atmosphere

**COVERINGS**

1999-05-27  
 UF *casings*  
 RT coatings  
 RT containers  
 RT double glazing  
 RT glazing materials  
 RT masking  
 RT shells  
 RT shutters  
 RT triple glazing  
 RT tubes

**cow-milkers**

USE radioisotope generators

**cowboy event**

1997-01-28  
 (Prior to February 1996 this was a valid ETDE descriptor.)  
 USE chemical explosions  
 USE vela project

**cowpea plants**

INIS: 1992-05-07; ETDE: 2002-06-13  
 USE vigna

**COWS**

\*BT1 cattle  
 RT milk

**COYOTES**

INIS: 1993-02-18; ETDE: 1981-04-17  
 UF *canis latrans*  
 \*BT1 mammals  
 RT foxes  
 RT wild animals  
 RT wolves

**cp-11 reactor**

USE argonaut reactor

**CP-2 REACTOR**

ANL, Argonne, Illinois, USA. Shut down in 1954.  
 UF *chicago pile-2 reactor*  
 \*BT1 graphite moderated reactors  
 \*BT1 materials testing reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**cp-3' reactor**

2000-04-12  
 USE cp-3m reactor

**CP-3 REACTOR**

ANL, Argonne, Illinois, USA. Shut down in 1963.  
 UF *argonne heavy water reactor*  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**CP-3M REACTOR**

2000-04-12  
 ANL, Argonne, Illinois, USA.  
 UF *argonne heavy water modified reactor*  
 UF *cp-3' reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**CP-5 REACTOR**

ANL, Argonne, Illinois, USA. Shut down in 1979.  
 UF *argonne research reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**CP-6 REACTOR**

2000-04-12  
 ANL, Argonne, Illinois, USA.  
 UF *ahfr reactor*  
 UF *argonne advanced research reactor*  
 UF *argonne high flux reactor*  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**CP INVARIANCE**

BT1 invariance principles  
 RT kobayashi-maskawa matrix

**CPB**

UF *competitive protein binding*  
 \*BT1 biochemical reaction kinetics  
 RT antigen-antibody reactions  
 RT enzyme immunoassay  
 RT pbi  
 RT proteins  
 RT radioimmunoassay  
 RT radiopharmaceuticals

**cpdta**

1996-07-18  
*Cyclopentanediaminetetraacetic acid.*  
 (Until July 1996 this was a valid descriptor.)  
 USE amino acids  
 USE chelating agents

**cpm**

INIS: 1985-10-23; ETDE: 2002-06-13  
*Critical Path Method.*  
 USE pert method

**CPPNM**

INIS: 1985-06-10; ETDE: 1990-11-26  
*Convention on the Physical Protection of Nuclear Materials.*

UF *convention on physical protection of nuclear material*  
 UF *convention on the physical protection of nuclear materials*  
 UF *nuclear materials, convention on physical protection*  
 UF *physical protection of nuclear material, convention*  
 \*BT1 multilateral agreements  
 RT nuclear materials diversion  
 RT nuclear materials management  
 RT physical protection

**cpr**

INIS: 2000-04-12; ETDE: 1983-04-07  
 USE first aid

**CPT THEOREM**

BT1 invariance principles

**cpu-400 combustion plant**

INIS: 2000-04-12; ETDE: 1976-01-23  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE waste processing plants

**CRAB NEBULA**

BT1 nebulae  
 \*BT1 supernova remnants  
 RT pulsars

**CRABS***INIS: 1993-07-14; ETDE: 1981-06-15*

- \*BT1 decapods
- RT seafood

**crack growth***INIS: 1980-09-12; ETDE: 1980-10-07*

- USE crack propagation

**CRACK PROPAGATION***INIS: 1980-09-12; ETDE: 1980-10-07*

- UF crack growth
- SF failure propagation
- RT brittleness
- RT cracks
- RT fatigue
- RT fracture mechanics
- RT fractures
- RT stress intensity factors

**CRACKING***1998-01-28*

- \*BT1 pyrolysis
- NT1 catalytic cracking
- NT1 hydrocracking
- NT1 thermal cracking
- RT petrochemistry

**CRACKS**

- RT ceramography
- RT crack propagation
- RT defects
- RT fracture mechanics
- RT fracture properties
- RT fractures
- RT geologic fissures
- RT geologic fractures
- RT hydraulic fractures
- RT notches
- RT stress intensity factors
- RT thermal fractures

**CRACOW AIC-144 CYCLOTRON***INIS: 1982-07-22; ETDE: 1982-08-11*

- UF aic-144 cyclotron
- \*BT1 isochronous cyclotrons

**cracow c-48 cyclotron***INIS: 1996-07-18; ETDE: 1979-02-23**(Until July 1996 this was a valid descriptor.)*

- USE isochronous cyclotrons

**CRACOW U-120 CYCLOTRON***INIS: 1979-04-27; ETDE: 1979-05-25*

- \*BT1 cyclotrons
- \*BT1 heavy ion accelerators

**CRAFTSMEN***INIS: 1996-05-15; ETDE: 1978-08-07*

- UF artisans
- BT1 personnel
- RT builders
- RT occupations

**CRANES**

- \*BT1 remote handling equipment
- RT hoists
- RT materials handling

**CRANKING MODEL**

- \*BT1 nuclear models
- RT deformed nuclei
- RT governor model

**CRATERING EXPLOSIONS***1996-07-23*

- UF cabriolet event
- UF danny boy event
- UF palanquin event
- UF schooner event
- BT1 explosions
- NT1 sedan event

- RT chemical explosions
- RT craters
- RT mining
- RT nuclear excavation
- RT nuclear explosions
- RT plowshare project
- RT surface explosions
- RT surface mining
- RT underground explosions
- RT underground mining

**CRATERS**

- BT1 cavities
- RT cratering explosions
- RT excavation
- RT openings
- RT surface explosions
- RT underground explosions

**CRAY COMPUTERS***INIS: 1980-04-02; ETDE: 1977-07-23*

- BT1 computers
- RT supercomputers

**crbr reactor***INIS: 1977-04-07; ETDE: 2002-06-13*

- USE clinch river breeder reactor

**cre**

- USE cumulative radiation effects

**CREATINE**

- \*BT1 amino acids
- RT creatinine
- RT guanidines
- RT phosphocreatine

**CREATININE**

- \*BT1 imidazoles
- \*BT1 imines
- RT creatine

**CREATION OPERATORS**

- \*BT1 quantum operators
- RT second quantization
- RT vacuum states

**credit accounts***INIS: 2000-04-12; ETDE: 1983-05-21*  
*(Prior to March 1996 this was a valid ETDE descriptor.)*

- SEE financing

**credit cards***INIS: 2000-04-12; ETDE: 1979-11-23*  
*(Prior to February 1995, this was a valid ETDE descriptor.)*

- SEE financing

**credits***INIS: 2000-04-12; ETDE: 1979-12-10*

- SEE financial data

**creeks**

- USE streams

**CREEP**

- BT1 mechanical properties
- RT plasticity
- RT ratcheting
- RT stress relaxation

**CREOSOTE***INIS: 1991-10-08; ETDE: 1980-01-24*  
*A yellowish oily liquid containing a mixture of phenolic compounds obtained by distillation of coal or wood tars.*

- RT coal tar
- RT cresols
- RT preservatives
- RT wood

**CREPIS**

- \*BT1 magnoliopsida

**cresap process***INIS: 2000-04-12; ETDE: 1979-11-07*

- SEE coal liquefaction

**CRESOLS**

- UF cresylic acid
- UF hydroxytoluenes
- UF methyl phenols
- \*BT1 phenols
- RT creosote

**cresylic acid**

- USE cresols

**CRETACEOUS PERIOD***INIS: 1992-04-14; ETDE: 1977-10-19*

- \*BT1 mesozoic era

**CREVICE CORROSION***1980-11-07*

- \*BT1 corrosion

**creys-malville reactor***INIS: 1977-03-01; ETDE: 2002-06-13*

- USE superphenix reactor

**CRG PROCESSES***INIS: 2000-04-12; ETDE: 1976-03-22*

- UF british gas corporation process
- UF catalytic rich gas process
- RT high btu gas
- RT synthetic fuels

**cricketulus**

- USE hamsters

**CRIME***INIS: 1993-02-18; ETDE: 1983-05-21*

- NT1 cyber attacks
- NT1 fraud
- NT1 theft
- RT crime detection
- RT criminology

**CRIME DETECTION**

- UF forensic science
- BT1 detection
- NT1 nuclear forensics
- RT activation analysis
- RT chemical analysis
- RT crime
- RT criminology
- RT tracer techniques

**CRIMEA***INIS: 2000-04-12; ETDE: 1978-07-05*

- \*BT1 ukraine

**CRIMINOLOGY***INIS: 2000-04-12; ETDE: 1976-11-17*

- RT crime
- RT crime detection

**CRISTOBALITE***A mineral like quartz present in many siliceous volcanic rocks.*

- \*BT1 oxide minerals
- \*BT1 silicate minerals
- RT quartz
- RT silicon oxides

**critical assemblies**

- USE zero power reactors

**CRITICAL CURRENT**

- \*BT1 electric currents
- RT superconductivity

**critical experiments facility oak ridge**

1993-11-05

USE or-cef reactor

**CRITICAL FIELD**BT1 magnetic fields  
RT superconductivity**CRITICAL FLOW***Fluid flow at a critical velocity, e.g. flow at the point at which it changes from laminar to turbulent.*BT1 fluid flow  
RT critical velocity  
RT laminar flow  
RT turbulent flow**CRITICAL FREQUENCY**

1982-10-29

*The frequency below which radiation emitted at any angle from an antenna on the earth is reflected back.*RT ionosphere  
RT radiowave radiation**critical group (icrp)**

INIS: 1984-04-04; ETDE: 1984-05-10

*Out of a general population, the group of persons most highly exposed to radiation by virtue of their occupations, diets, habits, etc.*

USE icrp critical group

**critical heat flow**

USE departure nucleate boiling

**CRITICAL HEAT FLUX**BT1 heat flux  
RT heat transfer**CRITICAL MASS**BT1 mass  
RT criticality  
RT reflector savings**critical mass laboratory pnl**

USE cml reactor

**CRITICAL ORGANS**\*BT1 organs  
RT annual limit of intake  
RT internal irradiation  
RT nonuniform irradiation  
RT radiation doses  
RT radionuclide kinetics  
RT retention**critical path method**

USE pert method

**CRITICAL PRESSURE**UF pressure (critical)  
\*BT1 thermodynamic properties  
RT supercritical state**CRITICAL SIZE**BT1 size  
RT criticality  
RT reflector savings**CRITICAL TEMPERATURE***For superconducting transition use TRANSITION TEMPERATURE.*\*BT1 transition temperature  
RT heat treatments  
RT phase diagrams  
RT phase transformations  
RT supercritical state**CRITICAL VELOCITY**BT1 velocity  
RT critical flow**CRITICALITY**UF criticality accidents  
UF subcriticality  
RT buckling  
RT chain reactions  
RT critical mass  
RT critical size  
RT fission  
RT multiplication factors  
RT natural nuclear reactors  
RT oklo phenomenon  
RT reactor kinetics  
RT reactor safety  
RT reactors  
RT reflector savings  
RT response matrix method**criticality accidents**USE criticality  
USE radiation accidents**CRNL MP TANDEM ACCELERATOR**

INIS: 1976-06-23; ETDE: 1976-08-24

UF mp tandem accelerator

\*BT1 tandem electrostatic accelerators  
\*BT1 van de graaff accelerators**CRNL SUPERCONDUCTING CYCLOTRON**

INIS: 1982-09-21; ETDE: 1982-10-20

UF chalk river cyclotron

UF chalk river superconducting cyclotron

\*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons**CROATIA**

1993-01-14

SF yugoslavia

\*BT1 eastern europe  
RT alps**CROATIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**crocar**

2000-04-12

USE chromium steels

**CROCUS REACTOR***Atomic Engineering Lab. of the Lausanne Federal Polytechnic School, Lausanne, Switzerland.*\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 zero power reactors**CROLOY**

1996-07-23

*For unspecified Croloy alloys.*\*BT1 steels  
NT1 steel-cr13  
NT2 stainless steel-410  
NT1 steel-cr16  
NT2 stainless steel-430  
NT1 steel-cr18ni10  
NT2 stainless steel-18-10  
NT1 steel-cr2mo  
NT2 steel-astm-a542  
NT1 steel-cr5mo**croloy 12**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr13

**croloy 18**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr16

**croloy 2**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr2mo

**croloy 299**

INIS: 1996-07-23; ETDE: 1997-03-17

USE stainless steels

**croloy 3035**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr18ni10

**croloy 5**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr5mo

**cropping systems**

INIS: 1981-08-31; ETDE: 1981-09-22

USE cultivation techniques

**CROPS**NT1 energy crops  
RT agriculture  
RT biomass plantations  
RT cereals  
RT cultivation  
RT cultivation techniques  
RT food  
RT fruits  
RT ground cover  
RT harvesting  
RT hydroponic culture  
RT soil conservation  
RT sugar cane  
RT tobacco  
RT vegetables  
RT vernalization**CROSS-LINKING**\*BT1 polymerization  
RT radiation curing**cross-ridge mining**

INIS: 2000-04-12; ETDE: 1978-07-05

*Mining beginning and progressing perpendicularly to the long axis of a mountain ridge.*

(Prior to February 1995, this was a valid ETDE descriptor.)

USE surface mining

**CROSS SECTIONS***Whenever appropriate see the more specific descriptors listed below.*NT1 differential cross sections  
NT2 excitation functions  
NT1 group constants  
NT1 integral cross sections  
NT1 total cross sections  
RT breit-wigner formula  
RT cinda  
RT detailed balance principle  
RT four momentum transfer  
RT giant resonance  
RT giant resonance model  
RT intermediate resonance  
RT intermediate structure  
RT mean free path  
RT multilevel analysis  
RT nuclear reactions  
RT peierls method  
RT reciprocal v law  
RT rosenbluth formula  
RT shadow effect  
RT transfer matrix method**crossed beams**

INIS: 2000-04-12; ETDE: 1978-11-14

USE colliding beams

**CROSSED FIELDS**

- UF* fields (crossed)  
*RT* electric fields  
*RT* magnetic fields

**crossflow cooling towers**

- 1985-12-10  
*USE* cooling towers  
*USE* crossflow systems

**CROSSFLOW SYSTEMS**

- 1985-12-10  
*UF* crossflow cooling towers  
*RT* cooling towers  
*RT* evaporators  
*RT* hydrodynamics  
*RT* vapor condensers

**CROSSING-OVER**

- RT* chromosomes  
*RT* gene recombination  
*RT* gene recombination proteins  
*RT* meiosis  
*RT* mitosis  
*RT* recombinant dna

**CROSSING SYMMETRY**

- BT1* symmetry  
*RT* scattering amplitudes

**CROSSROADS PROJECT**

- 1999-05-19  
*UF* project crossroads  
*\*BT1* nuclear explosions  
*RT* atmospheric explosions  
*RT* underwater explosions

**CROSSTIE OPERATION**

- INIS*: 2000-04-12; *ETDE*: 1979-11-23  
*\*BT1* nuclear explosions  
*\*BT1* underground explosions  
*NT1* gasbuggy event  
*RT* contained explosions

**croton oil**

- 1996-10-22  
 (Until October 1996 this was a valid descriptor.)  
*USE* triglycerides  
*USE* vegetable oils

**CROTONIC ACID**

- \*BT1* monocarboxylic acids

**CROWDIONS**

- \*BT1* line defects  
*RT* interstitials

**crowfoot**

- USE* ranunculaceae

**CROWN ETHERS**

- INIS*: 1992-01-28; *ETDE*: 1992-02-14  
*\*BT1* ethers  
*RT* chelating agents  
*RT* complexes  
*RT* ligands  
*RT* solvent extraction

**CRUAS-1 REACTOR**

- 2010-08-17  
*Electricite de France, Cruas / Meysse, Ardeche, France*  
*UF* cruas meysse-1 reactor  
*\*BT1* pwr type reactors

**CRUAS-2 REACTOR**

- INIS*: 1989-11-24; *ETDE*: 1989-12-08  
*Electricite de France, Cruas / Meysse, Ardeche, France*  
*UF* cruas meysse-2 reactor  
*\*BT1* pwr type reactors

**CRUAS-3 REACTOR**

- INIS*: 1989-11-24; *ETDE*: 1989-12-08  
*Electricite de France, Cruas / Meysse, Ardeche, France*  
*UF* cruas meysse-3 reactor  
*\*BT1* pwr type reactors

**CRUAS-4 REACTOR**

- 1992-09-07  
*Electricite de France, Cruas / Meysse, Ardeche, France*  
*UF* cruas meysse-4 reactor  
*\*BT1* pwr type reactors

**cruas meysse-1 reactor**

- 2010-08-17  
*USE* cruas-1 reactor

**cruas meysse-2 reactor**

- 2010-08-17  
*USE* cruas-2 reactor

**cruas meysse-3 reactor**

- 2010-08-17  
*USE* cruas-3 reactor

**cruas meysse-4 reactor**

- 2010-08-17  
*USE* cruas-4 reactor

**CRUCIBLES**

- RT* casting  
*RT* furnaces  
*RT* melting

**crude carriers**

- INIS*: 2000-04-12; *ETDE*: 1976-08-04  
*USE* tanker ships

**crude oil**

- USE* petroleum

**CRUISE MISSILES**

- INIS*: 2000-04-12; *ETDE*: 1979-05-02  
*BT1* missiles

**CRUSHING**

- (Prior to February 1992, this descriptor was used to index the concept of pulverizing, which is now indexed by COMMINUTION.)  
*BT1* comminution  
*RT* coal preparation  
*RT* fragmentation  
*RT* ore processing  
*RT* pulverizers

**CRUSTACEANS**

- BT1* aquatic organisms  
*\*BT1* arthropods  
*NT1* branchiopods  
*NT2* artemia  
*NT2* daphnia  
*NT1* copepods  
*NT1* decapods  
*NT2* crabs  
*NT2* lobsters  
*NT2* prawns  
*NT2* shrimp  
*RT* zooplankton

**CRYOBIOLOGY**

- INIS*: 2000-04-12; *ETDE*: 1981-04-17  
*BT1* biology  
*RT* cryogenics  
*RT* freezing  
*RT* thawing

**cryocables**

- 1985-12-10  
*USE* cryogenic cables

**CRYOGENIC BUBBLE CHAMBERS**

- \*BT1* bubble chambers

**CRYOGENIC CABLES**

- 1985-12-10  
 (Prior to 1986 SUPERCONDUCTING CABLES was used for this concept.)  
*UF* cryocables  
*\*BT1* electric cables  
*RT* superconducting cables

**CRYOGENIC FLUIDS**

- INIS*: 1976-03-25; *ETDE*: 1975-10-28  
*UF* cryogens  
*BT1* fluids  
*RT* cryogenics  
*RT* helium  
*RT* hydrogen  
*RT* liquefied gases  
*RT* methane  
*RT* nitrogen  
*RT* oxygen  
*RT* refrigerants

**CRYOGENIC STORAGE DEVICES**

- BT1* memory devices

**CRYOGENICS**

- RT* adiabatic demagnetization  
*RT* cryobiology  
*RT* cryogenic fluids  
*RT* cryopumps  
*RT* cryostats  
*RT* cryotrons  
*RT* dewars  
*RT* freons  
*RT* helium dilution refrigeration  
*RT* hydrogen storage  
*RT* magnetic refrigerators  
*RT* superconductivity  
*RT* superfluidity  
*RT* temperature range 0000-0013 k  
*RT* temperature range 0013-0065 k  
*RT* temperature range 0065-0273 k  
*RT* temperature zero k

**cryogens**

- INIS*: 1976-03-25; *ETDE*: 1975-10-28  
*USE* cryogenic fluids

**CRYOPUMPS**

- \*BT1* vacuum pumps  
*RT* cryogenics

**CRYOSCOPY**

- Measurement of freezing-point depression produced in a solvent by a solute to determine molecular weight of the solute or properties of solutions.*  
*UF* freezing point depression  
*RT* molecular weight

**CRYOSPHERE**

- INIS*: 2000-04-12; *ETDE*: 1993-05-28  
*The portion of the climate system consisting of the world's ice masses and snow deposits, which include the continental ice sheets, mountain glaciers, sea ice, surface snow cover, and lake and river ice.*  
*NT1* polar regions  
*NT2* antarctic regions  
*NT3* antarctica  
*NT2* arctic regions  
*RT* boreal regions  
*RT* glaciers  
*RT* hydrosphere  
*RT* ice  
*RT* ice caps  
*RT* icebergs  
*RT* snow

**CRYOSTATS**

- \*BT1* thermostats  
*RT* cryogenics



RT equipment protection devices  
 RT helium dilution refrigerators  
 RT magnetic refrigerators  
 RT refrigerators

**CRYOTRONS**

*Switching devices based on the magnetic control of superconductivity.*

BT1 superconducting devices  
 \*BT1 switches  
 RT cryogenics

**CRYPT CELLS**

\*BT1 somatic cells  
 RT epithelium  
 RT intestines

**CRYPTOGRAPHY**

*INIS: 2000-04-12; ETDE: 1984-07-20*

*The enciphering and deciphering of messages in secret code.*

(Prior to April 1997 this was a valid ETDE descriptor; it is re-introduced into the Joint Thesaurus in October 2005.)

NT1 quantum cryptography  
 RT communications  
 RT data transmission  
 RT information  
 RT secrecy protection  
 RT security

**CRYSTAL COUNTERS**

UF diamond counters  
 \*BT1 radiation detectors  
 NT1 filament crystal counters  
 RT bulk semiconductor detectors

**CRYSTAL DEFECTS**

*1996-01-24*

UF lattice defects  
 BT1 crystal structure  
 NT1 line defects  
 NT2 crowdions  
 NT2 dislocations  
 NT3 edge dislocations  
 NT3 screw dislocations  
 NT1 point defects  
 NT2 interstitials  
 NT3 i centers  
 NT2 vacancies  
 NT3 color centers  
 NT4 a centers  
 NT4 e centers  
 NT4 f centers  
 NT4 h centers  
 NT4 i centers  
 NT4 m centers  
 NT4 r centers  
 NT4 s centers  
 NT4 u centers  
 NT4 v centers  
 NT4 x centers  
 NT4 z centers  
 NT3 frenkel defects  
 NT3 schottky defects

NT1 stacking faults  
 RT cavities  
 RT crystal lattices  
 RT inclusions  
 RT internal friction  
 RT microstructure  
 RT radiation effects  
 RT thermal spikes

**CRYSTAL DOPING**

UF doping (crystal)  
 RT bromine additions  
 RT chlorine additions  
 RT doped materials  
 RT fluorine additions  
 RT ion implantation

RT trace amounts

**crystal faces**

*INIS: 1995-12-11; ETDE: 1979-06-06*

USE crystals  
 USE surfaces

**CRYSTAL FIELD**

RT crystal structure  
 RT electronic structure

**CRYSTAL GROWTH**

*1996-04-15*

UF growth (crystal)  
 RT bridgman method  
 RT cast method  
 RT cleavage  
 RT crystal growth methods  
 RT crystallization  
 RT crystals  
 RT czochralski method  
 RT dendritic web growth method  
 RT efg method  
 RT epitaxy  
 RT grain growth  
 RT heat exchanger method  
 RT inverted stepanov method  
 RT liquid phase epitaxy  
 RT molecular beam epitaxy  
 RT nucleation  
 RT ribbon-to-ribbon method  
 RT stockbarger method  
 RT vapor phase epitaxy  
 RT verneuil method  
 RT zone melting

**CRYSTAL GROWTH METHODS**

*INIS: 1996-04-15; ETDE: 1980-02-11*

UF lass growth method  
 UF low-angle silicon-sheet growth method  
 NT1 bridgman method  
 NT1 cast method  
 NT1 czochralski method  
 NT1 dendritic web growth method  
 NT1 efg method  
 NT1 epitaxy  
 NT2 liquid phase epitaxy  
 NT2 molecular beam epitaxy  
 NT2 vapor phase epitaxy  
 NT1 heat exchanger method  
 NT1 inverted stepanov method  
 NT1 ribbon-to-ribbon method  
 NT1 ribbon-to-sheet method  
 NT1 stockbarger method  
 NT1 verneuil method  
 NT1 zone melting  
 RT crystal growth

**CRYSTAL LATTICES**

UF lattices (crystal)  
 UF space lattices  
 BT1 crystal structure  
 NT1 three-dimensional lattices  
 NT2 cubic lattices  
 NT3 bcc lattices  
 NT3 fcc lattices  
 NT2 hexagonal lattices  
 NT3 hcp lattices  
 NT2 monoclinic lattices  
 NT2 orthorhombic lattices  
 NT2 pentagonal lattices  
 NT2 tetragonal lattices  
 NT2 triclinic lattices  
 NT2 trigonal lattices  
 NT1 two-dimensional systems  
 NT2 hexagonal systems  
 NT2 pentagonal systems  
 RT coordination valences  
 RT crystal defects  
 RT crystallography

RT crystals  
 RT diffraction methods  
 RT electron channeling  
 RT electron-phonon coupling  
 RT habit planes  
 RT ion channeling  
 RT lattice parameters  
 RT laue method  
 RT laves phases  
 RT microstructure  
 RT miller indices  
 RT muon spin relaxation  
 RT space groups  
 RT trapping  
 RT vegard law

**CRYSTAL MODELS**

*For theories only.*

UF models (crystal)  
 BT1 mathematical models  
 NT1 heisenberg model  
 NT1 hubbard model  
 NT1 ising model  
 RT crystal structure  
 RT replicas

**CRYSTAL-PHASE****TRANSFORMATIONS**

UF crystal phase transitions  
 BT1 phase transformations  
 RT crystal structure  
 RT graphitization  
 RT order-disorder transformations

**crystal phase transitions**

*INIS: 1984-04-04; ETDE: 1984-05-10*  
 USE crystal-phase transformations

**crystal river**

*INIS: 2000-04-12; ETDE: 1975-11-28*  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE colorado  
 USE rivers

**CRYSTAL RIVER-3 REACTOR**

*Florida Power Co., Red Level, Florida, USA. Permanent shutdown since 2013.*  
 UF red level-3 reactor  
 \*BT1 pwr type reactors

**CRYSTAL RIVER-4 REACTOR**

*Florida Power Co., Red Level, Florida, USA. Canceled in 1972 before construction began.*  
 UF red level-4 reactor  
 \*BT1 pwr type reactors

**CRYSTAL STRUCTURE**

UF structure (crystal)  
 NT1 beta-w structures  
 NT1 crystal defects  
 NT2 line defects  
 NT3 crowdions  
 NT3 dislocations  
 NT4 edge dislocations  
 NT4 screw dislocations  
 NT2 point defects  
 NT3 interstitials  
 NT4 i centers  
 NT3 vacancies  
 NT4 color centers  
 NT5 a centers  
 NT5 e centers  
 NT5 f centers  
 NT5 h centers  
 NT5 i centers  
 NT5 m centers  
 NT5 r centers  
 NT5 s centers  
 NT5 u centers  
 NT5 v centers

- NT5 x centers
- NT5 z centers
- NT4 frenkel defects
- NT4 schottky defects
- NT2 stacking faults
- NT1 crystal lattices
- NT2 three-dimensional lattices
- NT3 cubic lattices
- NT4 bcc lattices
- NT4 fcc lattices
- NT3 hexagonal lattices
- NT4 hcp lattices
- NT3 monoclinic lattices
- NT3 orthorhombic lattices
- NT3 pentagonal lattices
- NT3 tetragonal lattices
- NT3 triclinic lattices
- NT3 trigonal lattices
- NT2 two-dimensional systems
- NT3 hexagonal systems
- NT3 pentagonal systems

- RT allotropy
- RT axial ratio
- RT configuration
- RT crystal field
- RT crystal models
- RT crystal-phase transformations
- RT crystallography
- RT density of states
- RT guinier-preston zones
- RT kikuchi lines
- RT lattice vibrations
- RT metamict state
- RT morphology
- RT optical activity
- RT order parameters
- RT peierls-nabarro force
- RT physical metallurgy
- RT solid state physics
- RT structure factors
- RT texture
- RT twinning

**crystal violet**

INIS: 2000-04-12; ETDE: 1979-07-18  
USE methyl violet

**CRYSTALLINE LENS**

- UF lens (crystalline)
- \*BT1 eyes
- RT cataracts

**crystalline rocks**

INIS: 2000-04-12; ETDE: 1983-02-09  
General term for igneous and metamorphic rocks as opposed to sedimentary rocks.  
USE igneous rocks  
USE metamorphic rocks

**CRYSTALLIZATION**

- BT1 phase transformations
- RT agglomeration
- RT amorphous state
- RT cleavage
- RT crystal growth
- RT crystals
- RT epitaxy
- RT frost
- RT mineralization
- RT nucleation
- RT precipitation
- RT purification
- RT recrystallization
- RT separation processes
- RT solidification
- RT solubility
- RT zone refining

**CRYSTALLOGRAPHY**

- UF radiocrystallography

- RT atomic beam diffraction
- RT crystal lattices
- RT crystal structure
- RT crystals
- RT diffraction methods
- RT electron diffraction
- RT gamma diffractometers
- RT neutron diffraction
- RT neutron diffractometers
- RT patterson method
- RT x-ray diffraction
- RT x-ray diffractometers

**CRYSTALS**

1996-01-24  
(From June 1979 till February 1997  
CRYSTAL FACES was a valid ETDE descriptor; from February 1975 till March 1997 QUANTUM CRYSTALS was a valid ETDE descriptor; from February 1975 till February 1995 RIEHL-SCHON MODEL was a valid ETDE descriptor.)

- UF crystal faces
- UF quantum crystals
- UF riehl-schon model
- NT1 anharmonic crystals
- NT1 dendrites
- NT1 ionic crystals
- NT1 liquid crystals
- NT1 molecular crystals
- NT1 monocrystals
- NT2 whiskers
- NT1 polycrystals
- NT2 bicrystals
- RT clathrates
- RT crystal growth
- RT crystal lattices
- RT crystallization
- RT crystallography
- RT ion implantation
- RT solids
- RT umklapp processes

**CS-R PROCESS**

INIS: 2000-04-12; ETDE: 1981-08-04  
Hydrogasification process, developed by Cities Service and Rockwell International, in which entrained coal particles are hydrogenated using hot hydrogen.  
UF rockwell flash hydroliquefaction process  
\*BT1 coal gasification  
RT high btu gas  
RT hydrogenation

**cs-sr process**

INIS: 2000-04-12; ETDE: 1978-10-23  
Cities Service process for non-catalytic vapor-phase hydrogenation of carbonaceous feedstocks.  
(Prior to July 1993, this was a valid ETDE descriptor.)  
SEE coal gasification  
SEE coal liquefaction

**CSCND**

2000-10-18  
Convention on Supplementary Compensation for Nuclear Damage.  
UF convention on supplementary compensation for nuclear damage  
UF nuclear damage, conv. on supplementary compensation for  
\*BT1 multilateral agreements  
RT iaea  
RT nuclear liability

**csf process**

2000-04-12  
Consolidation Coal Company process for the direct conversion of coal to synthetic crude oil by hydrogenation after solvent extraction (extension and improvement over pott-broche process).  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE coal liquefaction

**csiro process**

INIS: 2000-04-12; ETDE: 1975-11-28  
Commonwealth Scientific and Industrial Research Organization process for fluidized-bed hydrocarbonization of non-caking brown coal to produce methane, liquor, tar, and residual char.  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE coal gasification

**CSREX PROCESS**

- \*BT1 reprocessing
- RT solvent extraction

**CT-6B TOKAMAK**

INIS: 1989-12-07; ETDE: 1990-01-03  
Academia Sinica, Beijing, China.  
\*BT1 tokamak devices

**CT-GUIDED RADIOTHERAPY**

2007-11-22  
Computerized tomography image-guided radiotherapy  
UF tomotherapy  
\*BT1 radiotherapy  
RT computerized tomography

**ct scanning**

INIS: 1978-01-16; ETDE: 1978-03-03  
USE cat scanning

**CTBT**

INIS: 1998-06-10; ETDE: 1998-10-19  
Comprehensive Nuclear-Test-Ban Treaty.  
BT1 treaties  
RT arms control  
RT ctbt  
RT non-proliferation policy  
RT nuclear disarmament  
RT nuclear explosion detection  
RT nuclear explosions  
RT nuclear freeze  
RT nuclear weapons  
RT safeguards

**CTBTO**

INIS: 1998-06-10; ETDE: 1998-10-19  
Comprehensive Nuclear-Test-Ban Treaty Organization.  
BT1 international organizations  
RT arms control  
RT austria  
RT ctbt  
RT non-proliferation policy  
RT nuclear disarmament  
RT nuclear explosions  
RT nuclear freeze  
RT nuclear weapons  
RT safeguards  
RT united nations

**CTX SPHEROMAK**

INIS: 1984-11-30; ETDE: 1984-05-08  
A LASL facility to investigate the production, equilibrium, stability and confinement properties of compact toroids of the spheromak type in the absence of externally supported toroidal fields.  
\*BT1 spheromak devices

**CUBA**

- BT1 developing countries
- \*BT1 greater antilles
- BT1 latin america

**CUBAN ORGANIZATIONS**

2004-03-31

- BT1 national organizations

**CUBIC LATTICES**

- UF *perovskite crystal structure*
- \*BT1 three-dimensional lattices
- NT1 bcc lattices
- NT1 fcc lattices

**CUCUMBERS**

- \*BT1 magnoliopsida
- \*BT1 vegetables

**cucurbita foetidissima**

INIS: 2000-04-12; ETDE: 1980-11-25

- USE buffalo gourd

**CUEX**

INIS: 1975-11-07; ETDE: 1975-12-16

- UF *cumulative exposure index*
- RT human populations
- RT icrp
- RT integral doses

**CULHAM LABORATORY**

INIS: 1983-02-04; ETDE: 1983-03-07

- \*BT1 ukaea

**CULM**

INIS: 2000-04-12; ETDE: 1979-09-27

Coal dust or slack; formations of shale or sandstone containing beds of impure anthracite.

- \*BT1 mineral wastes
- RT anthracite
- RT coal
- RT surface mining

**CULTIVATION**

INIS: 1999-03-02; ETDE: 1977-12-22

- RT agriculture
- RT crops
- RT cultivation techniques

**CULTIVATION TECHNIQUES**

- UF *cropping systems*
- UF *plant cultivation*
- UF *tillage*
- NT1 hydroponic culture
- NT1 short rotation cultivation
- RT agriculture
- RT crops
- RT cultivation
- RT drought resistance
- RT irrigation

**CULTURAL OBJECTS**

INIS: 1981-12-23; ETDE: 1982-02-09

Objects of historical and/or artistic value.

- UF *art objects*
- UF *museum objects*
- UF *paintings*
- RT age estimation
- RT archaeological sites
- RT archaeological specimens
- RT historical aspects
- RT preservation

**CULTURAL RESOURCES**

INIS: 1999-05-20; ETDE: 1978-12-11

Archaeological and historical sites.

- BT1 resources
- RT archaeological specimens
- RT architecture

**culture (safety)**

2003-01-17

- USE safety culture

**CULTURE MEDIA**

1997-06-19

- RT batch culture
- RT cell cultures
- RT continuous culture
- RT in vitro
- RT nutrients
- RT semibatch culture
- RT single cell protein
- RT tissue cultures

**cultures (cells)**

- USE cell cultures

**cultures (tissue)**

- USE tissue cultures

**CUMBERLAND RIVER**

1997-06-19

- \*BT1 rivers
- RT kentucky
- RT tennessee

**CUMENE**UF *isopropylbenzene*

- \*BT1 alkylated aromatics

**cumulative effect**

INIS: 1984-04-04; ETDE: 1984-05-10

Production of particles in the region of limiting fragmentation of nuclei outside the limits allowed by one-nucleon collision kinematics.

- USE limiting fragmentation
- USE particle production

**cumulative exposure index**

INIS: 1975-11-07; ETDE: 1975-12-22

- USE cuex

**cumulative liability**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

- USE liabilities

**CUMULATIVE RADIATION****EFFECTS**

- UF *cre*
- BT1 radiation effects
- RT fractionated irradiation
- RT radiotherapy
- RT temporal dose distributions

**CUNICO**

2000-04-12

- \*BT1 cobalt alloys
- \*BT1 copper alloys
- \*BT1 nickel alloys

**CUPFERRON**UF *phenylhydroxylamine*

- \*BT1 amines
- \*BT1 hydroxy compounds
- BT1 reagents

**CUPRATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

- \*BT1 copper compounds
- BT1 oxygen compounds
- RT copper oxides

**cuproslodowskite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE silicate minerals
- USE uranium minerals

**CURCUMIN**

- BT1 dyes
- \*BT1 ethers
- \*BT1 ketones
- \*BT1 polyphenols

**curie law**

- USE curie-weiss law

**CURIE POINT**

- UF *curie temperature*
- \*BT1 transition temperature
- RT ferromagnetism
- RT magnetic susceptibility

**curie temperature**

- USE curie point

**CURIE-WEISS LAW**

- UF *curie law*
- RT magnetic susceptibility

**CURING**

INIS: 1982-10-29; ETDE: 1978-03-03

- NT1 radiation curing
- RT drying
- RT heat treatments
- RT polymerization
- RT vulcanization

**curite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE oxide minerals
- USE uranium minerals

**CURIUM**

- \*BT1 actinides
- \*BT1 transplutonium elements

**CURIUM 232**

INIS: 1997-02-07; ETDE: 1979-11-23

- \*BT1 actinide nuclei
- \*BT1 beta-plus decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei

**CURIUM 233**

2007-01-24

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 234**

2007-01-24

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 235**

2007-01-24

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 236***INIS: 1986-03-04; ETDE: 1986-04-11*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 237***2003-09-03*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 238**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes

**CURIUM 239**

- \*BT1 actinide nuclei
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes

**CURIUM 240**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes

**CURIUM 241**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**CURIUM 242**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes

**CURIUM 242 TARGET***ETDE: 1976-07-09*

- BT1 targets

**CURIUM 243**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 243 TARGET***INIS: 1976-10-29; ETDE: 1976-11-29*

- BT1 targets

**CURIUM 244**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 244 TARGET***ETDE: 1976-07-09*

- BT1 targets

**CURIUM 245**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 245 TARGET***ETDE: 1976-07-09*

- BT1 targets

**CURIUM 246**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 246 TARGET***INIS: 1976-10-29; ETDE: 1976-09-29*

- BT1 targets

**CURIUM 247**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 years living radioisotopes

**CURIUM 247 TARGET***INIS: 1978-07-03; ETDE: 1978-03-08*

- BT1 targets

**CURIUM 248**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 248 TARGET***ETDE: 1976-07-09*

- BT1 targets

**CURIUM 249**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes

**CURIUM 249 TARGET***INIS: 1992-09-22; ETDE: 1984-09-05*

- BT1 targets

**CURIUM 250**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 250 TARGET***ETDE: 1976-07-09*

- BT1 targets

**CURIUM 251***INIS: 1978-02-23; ETDE: 1977-05-07*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 252**

- \*BT1 actinide nuclei
- \*BT1 curium isotopes
- \*BT1 even-even nuclei

**CURIUM ADDITIONS***Alloys containing not more than 1% Cm are listed here.*

- \*BT1 curium alloys

**CURIUM ALLOYS***1996-07-18**Alloys containing more than 1% Cm.*

- UF curium base alloys
- \*BT1 actinide alloys
- NT1 curium additions

**CURIUM ARSENIDES***1996-07-18**(From July 1996 to February 2008 CURIUM COMPOUNDS + ARSENIDES was used for this concept.)*

- \*BT1 arsenides
- \*BT1 curium compounds

**curium base alloys***1996-07-18**(Until July 1996 this was a valid descriptor.)*

- USE curium alloys

**CURIUM BROMIDES***1996-07-18**(From July 1996 to September 2007 CURIUM COMPOUNDS + BROMIDES was used for this concept.)*

- \*BT1 bromides
- \*BT1 curium halides

**CURIUM CARBONATES***1996-07-18**(From July 1996 to November 2007 CURIUM COMPOUNDS + CARBONATES was used for this concept.)*

- \*BT1 carbonates
- \*BT1 curium compounds

**CURIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 curium halides

**CURIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**CURIUM COMPOUNDS***1996-11-13*

- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 curium arsenides
- NT1 curium carbonates
- NT1 curium halides
- NT2 curium bromides
- NT2 curium chlorides
- NT2 curium fluorides
- NT2 curium iodides
- NT1 curium hydrides
- NT1 curium hydroxides
- NT1 curium nitrates
- NT1 curium nitrides
- NT1 curium oxides
- NT1 curium phosphides
- NT1 curium selenides
- NT1 curium silicates
- NT1 curium sulfides
- NT1 curium tellurides

**CURIUM FLUORIDES**

- \*BT1 curium halides
- \*BT1 fluorides

**CURIUM HALIDES**

2012-07-19

- \*BT1 curium compounds
- \*BT1 halides
- NT1 curium bromides
- NT1 curium chlorides
- NT1 curium fluorides
- NT1 curium iodides

**CURIUM HYDRIDES**

1997-01-28

(From November 1996 to November 2007 CURIUM COMPOUNDS + HYDRIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 hydrides

**CURIUM HYDROXIDES**

1997-01-28

(From November 1996 to November 2007 CURIUM COMPOUNDS + HYDROXIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 hydroxides

**CURIUM IODIDES**

INIS: 1987-08-27; ETDE: 1987-03-24

- \*BT1 curium halides
- \*BT1 iodides

**CURIUM IONS**

- \*BT1 ions

**CURIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 curium 232
- NT1 curium 233
- NT1 curium 234
- NT1 curium 235
- NT1 curium 236
- NT1 curium 237
- NT1 curium 238
- NT1 curium 239
- NT1 curium 240
- NT1 curium 241
- NT1 curium 242
- NT1 curium 243
- NT1 curium 244
- NT1 curium 245
- NT1 curium 246
- NT1 curium 247
- NT1 curium 248
- NT1 curium 249
- NT1 curium 250
- NT1 curium 251
- NT1 curium 252

**CURIUM NITRATES**

- \*BT1 curium compounds
- \*BT1 nitrates

**CURIUM NITRIDES**

1997-01-28

(From November 1996 to November 2007 CURIUM COMPOUNDS + NITRIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 nitrides

**CURIUM OXIDES**

- \*BT1 curium compounds
- \*BT1 oxides

**CURIUM PHOSPHIDES**

1996-07-18

(From July 1996 to November 2007 CURIUM COMPOUNDS + PHOSPHIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 phosphides

**CURIUM SELENIDES**

INIS: 2000-04-12; ETDE: 1975-10-28

(From March 1997 to November 2007 CURIUM COMPOUNDS + SELENIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 selenides

**CURIUM SILICATES**

INIS: 1997-01-28; ETDE: 1984-09-05

(From November 1996 to November 2007 CURIUM COMPOUNDS + SILICATES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 silicates

**CURIUM SULFIDES**

1996-07-18

(From July 1996 to November 2007 CURIUM COMPOUNDS + SULFIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 sulfides

**CURIUM TELLURIDES**

INIS: 2000-04-12; ETDE: 1976-11-01

(From March 1997 to February 2008 CURIUM COMPOUNDS + TELLURIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 tellurides

**current (alternating)**

USE alternating current

**current (direct)**

USE direct current

**current (leakage)**

USE leakage current

**CURRENT ALGEBRA**

- RT algebraic currents
- RT cabibbo angle
- RT commutation relations
- RT commutators
- RT current commutators
- RT current divergences
- RT cvc theory
- RT field algebra
- RT low-energy theorem
- RT pcac theory
- RT pcvc theory
- RT quantum field theory
- RT symmetry groups
- RT v-a theory

**CURRENT COMMUTATORS**

For operators in current algebra; in electric circuitry use SWITCHES.

- \*BT1 commutators
- NT1 sigma terms
- RT algebraic currents
- RT current algebra
- RT schwinger terms

**CURRENT DENSITY**

- UF density (current)
- RT beam currents
- RT carrier density
- RT electric currents
- RT electron density

**CURRENT DIVERGENCES**

- RT algebraic currents
- RT current algebra

**CURRENT-DRIVE HEATING**

INIS: 1983-03-16; ETDE: 1982-10-05

Techniques for inducing steady-state currents in tokamaks, and thereby overcoming the problems associated with pulsed operation.

Heating mechanisms which can lend themselves efficiently to continuous current generation include neutral beams, Alfvén waves, ion-cyclotron waves, lower-hybrid waves, and electron cyclotron waves.

- \*BT1 joule heating
- RT non-inductive current drive

**CURRENT LIMITERS**

INIS: 1978-08-30; ETDE: 1977-03-08

Devices that restrict the flow of current to a certain amount, regardless of the applied voltage.

- UF demand limiters
- \*BT1 electrical equipment
- RT circuit breakers
- RT electric currents
- RT power transmission lines
- RT threshold current

**current limiting fuses**

INIS: 2000-04-12; ETDE: 1981-10-24

(Prior to April 1997 THRESHOLD CURRENT was used for this concept in ETDE.)

- USE electric fuses

**CURRENT-TO-FREQUENCY CONVERTERS**

2000-04-12

- \*BT1 pulse converters

**current-voltage curves**

2006-01-19

- USE electric conductivity

**CURRENTS**

- NT1 algebraic currents
- NT2 axial-vector currents
- NT2 charged currents
- NT3 weak charged currents
- NT2 neutral currents
- NT3 weak neutral currents
- NT2 second-class currents
- NT2 vector currents
- NT1 beam currents
- NT2 amp beam currents
- NT2 kilo amp beam currents
- NT2 mega amp beam currents
- NT2 micro amp beam currents
- NT2 milli amp beam currents
- NT2 nano amp beam currents
- NT2 pico amp beam currents
- NT1 electric currents
- NT2 alternating current
- NT2 bootstrap current
- NT2 critical current
- NT2 direct current
- NT2 eddy currents
- NT2 electric arcs
- NT2 electrojets
- NT2 faraday current
- NT2 leakage current
- NT3 dark current
- NT2 overcurrent
- NT2 photocurrents
- NT2 ring currents
- NT2 threshold current
- NT1 water currents
- NT2 gulf stream
- NT2 gyres
- RT atmospheric circulation
- RT voltametry

**currents (algebraic)**

2000-04-12

- USE algebraic currents

**currents (beam)**

2000-04-12

- USE beam currents

**currents (electric)**

2000-04-12

USE electric currents

**currents (neutral)**

2000-04-12

USE neutral currents

**currents (water)**

INIS: 2000-04-12; ETDE: 1979-07-18

USE water currents

**curriculum guides**

INIS: 2000-04-12; ETDE: 1977-06-21

(Prior to April 1997 this was a valid ETDE descriptor.)

USE educational tools

**curtailments**

INIS: 1985-12-10; ETDE: 1978-03-03

USE allocations

**CURTAINS**

INIS: 2000-04-12; ETDE: 1979-02-27

UF draperies

RT air curtains

RT buildings

RT passive solar cooling systems

RT passive solar heating systems

RT screens

RT shading

RT shutters

RT sun shades

RT thermal insulation

RT windows

**curve of growth (spectroscopic)**

INIS: 1993-11-05; ETDE: 2002-06-13

USE spectroscopic curve of growth

**curves**

USE diagrams

**CURVILINEAR COORDINATES**

INIS: 1985-07-23; ETDE: 1985-08-09

BT1 coordinates

NT1 magnetic flux coordinates

RT metrics

RT riemann space

**CUSHING SYNDROME**

\*BT1 endocrine diseases

RT corticosteroids

RT pituitary gland

**cusps**

USE cusped geometries

**CUSPED GEOMETRIES**

UF cusp

UF picket fence

\*BT1 open configurations

RT geometry

**CUTTER LOADERS**

INIS: 2000-04-12; ETDE: 1977-06-02

\*BT1 cutting machines

\*BT1 loaders

NT1 coal plows

NT1 continuous miners

NT1 heading machines

NT1 shearer loaders

RT coal mining

**CUTTING**

BT1 machining

RT cutting tools

RT mechanical decladding

**CUTTING FLUIDS**

INIS: 1994-07-01; ETDE: 1982-05-12

BT1 fluids

RT coolants

RT lubricants

RT machining

**CUTTING MACHINES**

INIS: 2000-04-12; ETDE: 1985-04-09

\*BT1 mining equipment

NT1 cutter loaders

NT2 coal plows

NT2 continuous miners

NT2 heading machines

NT2 shearer loaders

RT coal mining

**CUTTING TOOLS**

\*BT1 tools

RT cutting

RT shredders

**CUTTINGS REMOVAL**

INIS: 1993-03-23; ETDE: 1983-03-23

UF drill cuttings removal

BT1 removal

RT coring fluids

RT drilling

RT drilling fluids

RT well drilling

**CVC THEORY**

RT current algebra

RT vector currents

**CVTR REACTOR***Carolinas-Virginia Nuclear Power Associates, Parr, South Carolina, USA. Decommissioned in 1967.*

UF carolinas virginia tube reactor

UF parr carolinas cvtr reactor

\*BT1 enriched uranium reactors

\*BT1 phwr type reactors

\*BT1 pressure tube reactors

\*BT1 thermal reactors

**CWIP**

INIS: 2000-04-03; ETDE: 1978-11-14

*Construction work in progress.*

UF construction work in progress

BT1 construction

RT accounting

RT afudc

RT public utilities

**cyan process**

INIS: 2000-04-12; ETDE: 1983-03-23

*Proprietary US Steel Corp. process for recovering both free and fixed ammonia from waste water.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE waste processing

**CYANAMIDES**

\*BT1 carbonic acid derivatives

\*BT1 organic nitrogen compounds

**CYANATES**

1995-01-11

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 carbonic acid derivatives

BT1 nitrogen compounds

RT cyanides

RT isocyanates

RT oxygen compounds

**CYANIDES***Specific compounds, except those of significance to energy research and development such as the NT listed below, should be indexed by coordination of a**descriptor of the form (CATION)**COMPOUNDS and the above anion descriptor.*

NT1 hydrogen cyanides

RT cyanates

RT cyanogen

**CYANINE DYES**

INIS: 1983-06-02; ETDE: 1979-05-02

BT1 dyes

RT aromatics

RT heterocyclic compounds

**cyanoacetylene**

2000-04-12

USE propiolonitrile

**CYANOBACTERIA**

INIS: 1983-02-03; ETDE: 1983-03-07

UF blue-green algae

BT1 microorganisms

**cyanocobalamin**

USE vitamin b-12

**cyanoferrates**

INIS: 1975-10-23; ETDE: 2002-06-13

USE ferricyanides

**CYANOGEN**

RT cyanides

**CYANURATES**

\*BT1 organic oxygen compounds

\*BT1 triazines

**CYBER ATTACKS**

2018-07-12

*Malicious action that targets sensitive information or sensitive information assets with the intent of stealing, altering, preventing access to or destroying a specified target through unauthorized access to (or actions within) a susceptible system.*

BT1 crime

BT1 sabotage

RT classified information

RT computer networks

RT computerized control systems

RT vulnerability

**CYBERNETICS**

RT control

RT information theory

RT man-machine systems

**cycasin**

2000-04-12

(Prior to April 1994, this was a valid ETDE descriptor.)

USE azo compounds

USE carcinogens

USE hexoses

**CYCLASES**

INIS: 1983-02-03; ETDE: 1983-03-07

\*BT1 lyases

RT phosphoproteins

**cycles (thermodynamic)**

USE thermodynamic cycles

**CYCLIC ACCELERATORS**

UF linotrons

BT1 accelerators

NT1 betatrons

NT1 bevalac

NT1 cyclotrons

NT2 cracow u-120 cyclotron

NT2 isochronous cyclotrons

NT3 aabo cyclotron

NT3 alice cyclotron

NT3 brookhaven cyclotron

**NT3** cracow aic-144 cyclotron  
**NT3** crnl superconducting cyclotron  
**NT3** cyclone cyclotron  
**NT3** debrecen cyclotron  
**NT3** eindhoven cyclotron  
**NT3** ganil cyclotron  
**NT3** grenoble cyclotron  
**NT3** haizy cyclotron  
**NT3** hirfl cyclotron  
**NT3** inr cyclotron  
**NT3** ipcr cyclotron  
**NT3** iu cyclotron  
**NT3** jinr cyclotrons  
**NT4** jinr dc-110 cyclotron  
**NT4** jinr u-400 cyclotron  
**NT4** jinr u-400m cyclotron  
**NT3** julic cyclotron  
**NT3** karlsruhe cyclotron  
**NT3** kazakhstan cyclotron  
**NT3** kiev cyclotron  
**NT3** kvi cyclotron  
**NT3** milan superconducting cyclotron  
**NT3** msu cyclotrons  
**NT3** munich compact cyclotron  
**NT3** munich suse cyclotron  
**NT3** nac cyclotron  
**NT3** nirs cyclotron  
**NT3** nrl cyclotron  
**NT3** ornl isochronous cyclotron  
**NT3** orsay cyclotron  
**NT3** oslo cyclotron  
**NT3** princeton cyclotron  
**NT3** rcnp cyclotron  
**NT3** sara cyclotron  
**NT3** sin cyclotron  
**NT3** texas a and m cyclotron  
**NT3** texas superconducting cyclotron  
**NT3** tohoku cyclotron  
**NT3** tokyo ins cyclotron  
**NT3** triumf cyclotron  
**NT3** uclrl cyclotrons  
**NT4** lbl 88-inch cyclotron  
**NT3** warsaw cyclotron  
**NT2** microtrons  
**NT3** racetrack microtrons  
**NT2** nbi cyclotron  
**NT2** separated orbit cyclotrons  
**NT2** superconducting cyclotrons  
**NT3** milan superconducting cyclotron  
**NT3** texas superconducting cyclotron  
**NT2** variable energy cyclotrons  
**NT3** calcutta cyclotron  
**NT3** chandigarh cyclotron  
**NT1** fair accelerator complex  
**NT1** nica collider  
**NT1** synchrocyclotrons  
**NT2** berkeley synchrocyclotron  
**NT2** cern synchrocyclotron  
**NT2** harvard synchrocyclotron  
**NT2** harwell synchrocyclotron  
**NT2** iko synchrocyclotron  
**NT2** jinr phasotron  
**NT2** leningrad synchrocyclotron  
**NT2** mcgill synchrocyclotron  
**NT2** orsay synchrocyclotron  
**NT2** uppsala synchrocyclotron  
**NT1** synchrotrons  
**NT2** bevatron  
**NT2** bonn synchrotron  
**NT2** brookhaven ags  
**NT2** cambridge electron accelerator  
**NT2** cern lhc  
**NT2** cern ps synchrotron  
**NT2** cern sps synchrotron  
**NT2** cornell 10-gev synchrotron  
**NT2** cosmotron  
**NT2** cosy storage ring  
**NT2** desy  
**NT2** erevan synchrotron

**NT2** escar storage ring  
**NT2** fermilab accelerator  
**NT2** fermilab tevatron  
**NT2** fian synchrotron  
**NT2** Frascati synchrotron  
**NT2** himac accelerator  
**NT2** itep synchrotron  
**NT2** j-parc synchrotrons  
**NT2** jefferson lab meic  
**NT2** jinr nuclotron  
**NT2** kek synchrotron  
**NT2** lampf ii synchrotron  
**NT2** lep storage rings  
**NT2** lusy  
**NT2** mura synchrotron  
**NT2** nimrod  
**NT2** nina  
**NT2** pakhra synchrotron  
**NT2** princeton synchrotron  
**NT2** saturne  
**NT2** saturne ii  
**NT2** serpukhov synchrotron  
**NT2** serpukhov tevatron  
**NT2** sesame storage ring  
**NT2** sis synchrotron  
**NT2** superconducting super collider  
**NT2** tokyo synchrotron  
**NT2** tomsk synchrotron  
**NT2** zgs  
**RT** cavity resonators  
**RT** rf systems  
**RT** superconducting cavity resonators  
**RT** waveguides

#### **cyclic adenosine monophosphate**

USE amp

#### **cyclic amides**

USE lactams

#### **cyclic esters**

USE lactones

#### **cyclic steam injection process**

INIS: 2000-04-12; ETDE: 1976-06-07

USE fluid injection processes

#### **CYCLIZATION**

INIS: 1985-06-10; ETDE: 1983-04-28

BT1 chemical reactions

NT1 diels-alder reaction

#### **CYCLOALKANES**

(From February 1975 till February 1997

ADAMANTANE was a valid ETDE descriptor.)

UF adamantane

UF condensed cycloalkanes

\*BT1 alkanes

NT1 cyclohexane

NT1 decalin

#### **CYCLOALKENES**

1997-06-17

UF camphene

\*BT1 alkenes

NT1 cyclopentadiene

NT1 norbornadiene

NT1 quadricyclene

#### **CYCLOALKYNES**

INIS: 2000-04-12; ETDE: 1984-10-24

\*BT1 alkynes

#### **cycloheptatrienones**

USE tropones

#### **CYCLOHEXANE**

\*BT1 cycloalkanes

RT hexane

#### **CYCLOHEXANOL**

1981-12-23

\*BT1 alcohols

#### **CYCLOHEXANONE**

\*BT1 ketones

#### **CYCLOHEXIMIDE**

\*BT1 antibiotics

\*BT1 fungicides

#### **cyclohexylenedinitrotetraacetic acid**

1995-02-16

USE cda

#### **CYCLONE COMBUSTORS**

INIS: 2000-04-12; ETDE: 1979-09-26

BT1 combustors

#### **CYCLONE CYCLOTRON**

INIS: 1984-01-18; ETDE: 1983-03-24

Universite Catholique de Louvain Cyclotron.

UF louvain isochronous cyclotron

UF universite catholique louvain

cyclotron

\*BT1 heavy ion accelerators

\*BT1 isochronous cyclotrons

#### **CYCLONE SEPARATORS**

UF hydrocyclones

BT1 concentrators

\*BT1 inertial separators

RT scrubbers

RT separation processes

#### **CYCLONES**

2013-12-13

NOT for HURRICANES.

UF low-pressure areas

RT atmospheric pressure

RT hurricanes

RT meteorology

RT storms

RT troposphere

#### **CYCLOPENTADIENE**

\*BT1 cycloalkenes

\*BT1 dienes

#### **cyclopentanediaminetetraacetic acid**

1996-07-18

(Prior to March 1997 CPDTA was used for this concept in ETDE.)

USE amino acids

USE chelating agents

#### **cyclophosphamide**

USE endoxan

#### **CYCLOSPORINE**

INIS: 1992-07-16; ETDE: 1992-08-24

UF cyclosporine-a

\*BT1 immunosuppressive drugs

\*BT1 peptides

RT immunosuppression

#### **cyclosporine-a**

INIS: 1992-07-16; ETDE: 1992-08-24

USE cyclosporine

#### **CYCLOTRON CENTER OF THE SLOVAK REPUBLIC**

2002-12-17

UF slovak cyclotron center

\*BT1 slovak organizations

#### **CYCLOTRON FREQUENCY**

UF frequency (cyclotron)

RT cyclotron harmonics

RT cyclotron instability

RT cyclotron radiation

RT gyrofrequency

**CYCLOTRON HARMONICS**

- \*BT1 harmonics
- RT bernstein mode
- RT cyclotron frequency

**CYCLOTRON INSTABILITY**

- \*BT1 plasma microinstabilities
- RT cyclotron frequency

**CYCLOTRON RADIATION**

- \*BT1 bremsstrahlung
- RT cyclotron frequency
- RT cyclotron resonance
- RT icr heating
- RT synchrotron radiation

**CYCLOTRON RESONANCE**

- BT1 resonance
- NT1 azbel-kaner resonance
- NT1 electron cyclotron-resonance
- NT1 ion cyclotron-resonance
- RT cyclotron radiation
- RT ion cyclotron resonance spectroscopy

**CYCLOTRONS**

- \*BT1 cyclic accelerators
- NT1 cracow u-120 cyclotron
- NT1 isochronous cyclotrons
  - NT2 aabo cyclotron
  - NT2 alice cyclotron
  - NT2 brookhaven cyclotron
  - NT2 cracow aic-144 cyclotron
  - NT2 crnl superconducting cyclotron
  - NT2 cyclone cyclotron
  - NT2 debrecen cyclotron
  - NT2 eindhoven cyclotron
  - NT2 ganil cyclotron
  - NT2 grenoble cyclotron
  - NT2 haizy cyclotron
  - NT2 hirfl cyclotron
  - NT2 inr cyclotron
  - NT2 iper cyclotron
  - NT2 iu cyclotron
  - NT2 jinr cyclotrons
    - NT3 jinr dc-110 cyclotron
    - NT3 jinr u-400 cyclotron
    - NT3 jinr u-400m cyclotron
  - NT2 julic cyclotron
  - NT2 karlsruhe cyclotron
  - NT2 kazakhstan cyclotron
  - NT2 kiev cyclotron
  - NT2 kvi cyclotron
  - NT2 milan superconducting cyclotron
  - NT2 msu cyclotrons
  - NT2 munich compact cyclotron
  - NT2 munich suse cyclotron
  - NT2 nac cyclotron
  - NT2 nirs cyclotron
  - NT2 nrl cyclotron
  - NT2 orn1 isochronous cyclotron
  - NT2 orsay cyclotron
  - NT2 oslo cyclotron
  - NT2 princeton cyclotron
  - NT2 rcnp cyclotron
  - NT2 sara cyclotron
  - NT2 sin cyclotron
  - NT2 texas a and m cyclotron
  - NT2 texas superconducting cyclotron
  - NT2 tohoku cyclotron
  - NT2 tokyo ins cyclotron
  - NT2 triumf cyclotron
  - NT2 uclrl cyclotrons
    - NT3 lbl 88-inch cyclotron
  - NT2 warsaw cyclotron
- NT1 microtrons
  - NT2 racetrack microtrons
- NT1 nbi cyclotron
- NT1 separated orbit cyclotrons
- NT1 superconducting cyclotrons
  - NT2 milan superconducting cyclotron

- NT2 texas superconducting cyclotron
- NT1 variable energy cyclotrons
  - NT2 calcutta cyclotron
  - NT2 chandigarh cyclotron
- RT dees
- RT synchrocyclotrons

**CYLINDERS**

*Objects of cylindrical shape. For containers see headings such as GAS CYLINDERS.*

- RT cylindrical configuration
- RT pipes
- RT rods
- RT shape
- RT tubes

**cylindrical aberrations**

*INIS: 2000-04-12; ETDE: 1979-07-24*  
USE geometrical aberrations

**CYLINDRICAL CONFIGURATION**

- BT1 configuration
- RT cylinders

**cylindrical parabolic collectors**

*INIS: 1992-03-11; ETDE: 1978-10-25*  
USE parabolic trough collectors

**CYMENE**

- UF isopropyltoluene-para
- \*BT1 alkylated aromatics
- RT thymol

**CYPRUS**

- BT1 islands
- BT1 middle east
- RT mediterranean sea

**cyric cyclotron**

*INIS: 1983-06-30; ETDE: 1983-03-24*  
*At CYclotron and Radioisotope Center, Tohoku University, Sendai, Japan.*  
USE tohoku cyclotron

**cyrtolite**

*1996-07-18*  
(Until July 1996 this was a valid descriptor.)  
USE silicate minerals  
USE uranium minerals

**cystamin**

*INIS: 1984-05-24; ETDE: 2002-06-13*  
USE urotropin

**CYSTAMINE**

- UF 2,2-dithiobisethylamine
- \*BT1 amines
- \*BT1 organic sulfur compounds
- \*BT1 radioprotective substances
- RT cysteamine

**CYSTAPHOS**

*1975-11-07*  
UF sodium aminoethylthiophosphate  
\*BT1 amines  
\*BT1 organic phosphorus compounds  
\*BT1 radioprotective substances  
\*BT1 thiophosphoric acid esters  
RT thioic acids

**CYSTEAMINE**

*ETDE: 2005-02-02*  
(Prior to January 2005 MEA was used for this concept.)  
UF aminoethanethiol  
UF mea (mercaptoethylamine)  
UF mercamine  
UF mercaptoethylamine  
\*BT1 amines  
\*BT1 radioprotective substances  
\*BT1 thiols  
RT cystamine

**CYSTEINE**

- UF mercaptoalanine-beta
- \*BT1 amino acids
- \*BT1 thiols
- RT cystine
- RT homocysteine

**CYSTINE**

*1996-07-18*  
\*BT1 amino acids  
\*BT1 disulfides  
RT cysteine

**CYSTS**

*INIS: 1988-11-16; ETDE: 1988-12-02*  
BT1 pathological changes

**CYTIDINE**

- \*BT1 nucleosides
- \*BT1 pyrimidines
- RT cytidylic acid
- RT cytosine
- RT deoxycytidine

**CYTIDYLIC ACID**

*1996-07-18*  
\*BT1 nucleotides  
RT cytidine  
RT cytosine

**CYTOCHEMISTRY**

*1999-03-26*  
\*BT1 biochemistry  
RT cytology  
RT feulgen method

**CYTOCHROME OXIDASE**

- \*BT1 oxidases
- RT cytochromes
- RT mixed-function oxidases

**CYTOCHROMES**

*1997-06-17*  
*Electron transporting proteins that contain a heme prosthetic group.*

- BT1 pigments
- \*BT1 proteins
- RT chlorins
- RT coenzymes
- RT cytochrome oxidase
- RT mixed-function oxidases
- RT photosynthetic reaction centers
- RT redox process

**cytokines**

*INIS: 2000-04-12; ETDE: 1995-07-21*  
USE lymphokines

**CYTOLOGICAL TECHNIQUES**

*INIS: 1975-10-29; ETDE: 1975-12-16*  
NT1 banding techniques  
NT1 chromosome sorting  
RT cell constituents  
RT cell flow systems  
RT cytology  
RT electron microscopy

**CYTOLOGY**

- BT1 biology
- RT animal cells
- RT cell constituents
- RT cell flow systems
- RT cytochemistry
- RT cytological techniques
- RT genetics
- RT plant cells
- RT ultrastructural changes

**CYTOPLASM**

- BT1 cell constituents
- RT liposomes
- RT mitochondria



RT plasmids

## CYTOSINE

\*BT1 amines  
 \*BT1 organic oxygen compounds  
 \*BT1 pyrimidines  
 RT cytidine  
 RT cytidylic acid

### cytostatics

USE antimetabolic drugs

### cytotoxins

INIS: 2000-04-12; ETDE: 1981-04-20  
 USE antimetabolic drugs

### cytriphos

2000-04-12  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE amines  
 USE nucleotides  
 USE radioprotective substances

### czd process

INIS: 2000-04-12; ETDE: 1989-05-31  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

## CZECH ORGANIZATIONS

INIS: 1998-01-29; ETDE: 1994-02-24  
 (Prior to February 1994, this concept in ETDE was indexed by CZECHOSLOVAK ORGANIZATIONS.)  
 SF czechoslovak organizations  
 BT1 national organizations  
 NT1 subj  
 NT1 ujb  
 NT1 uvvr

## CZECH REPUBLIC

INIS: 1993-01-14; ETDE: 1993-04-08  
 (Prior to March 1994, this concept in ETDE was indexed to CZECHOSLOVAKIA.)  
 SF czechoslovakia  
 BT1 developing countries  
 \*BT1 eastern europe  
 RT oecd  
 RT vltava river

### czech wwr-c reactor

2000-04-12  
 USE wwr-s-prague reactor

### czech wwr-s reactor

INIS: 1998-09-23; ETDE: 2002-03-27  
 USE lvr-15 reactor

### czechoslovak lr-0 reactor

INIS: 1998-07-07; ETDE: 1995-01-03  
 USE lr-0 reactor

### czechoslovak organizations

1994-02-28  
 (Prior to February 1994, this was a valid ETDE descriptor.)  
 SEE czech organizations  
 SEE slovak organizations

### czechoslovak tr-0 reactor

USE tr-0 reactor

### czechoslovakia

1994-08-22  
 (Until August 1994 this was a valid descriptor.)  
 SEE czech republic  
 SEE slovakia

## CZOCHRALSKI METHOD

BT1 crystal growth methods

RT crystal growth

### czf

2017-02-02  
 USE cdznte semiconductor detectors

### d-1285 resonances

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE f1-1285 mesons

### d-1865 resonances

INIS: 1985-01-17; ETDE: 1977-06-03  
 (Prior to January 1985 this was a valid ETDE descriptor.)  
 USE d mesons

### d-2007 resonances

INIS: 1987-12-21; ETDE: 1978-04-06  
 (Prior to December 1987 this was a valid descriptor.)  
 USE d\*-2010 mesons

## D ANTIQUARKS

2007-06-26  
 \*BT1 antiquarks  
 \*BT1 d quarks

## D-BRANES

2007-08-13  
 Special class of branes with specified Dirichlet boundary conditions.  
 BT1 branes

## D CODES

BT1 computer codes

## D-D REACTORS

INIS: 1983-10-14; ETDE: 1983-11-09  
 BT1 thermonuclear reactors

## D-HE REACTORS

1995-02-15  
 BT1 thermonuclear reactors

## D MESONS

INIS: 1985-01-17; ETDE: 1985-02-07  
 (Prior to January 1985 D-1865 RESONANCES was used for this concept in ETDE.)  
 UF d-1865 resonances  
 \*BT1 charmed mesons  
 \*BT1 pseudoscalar mesons  
 NT1 d minus mesons  
 NT1 d neutral mesons  
 NT2 anti-d neutral mesons  
 NT1 d plus mesons

## D MINUS MESONS

INIS: 1987-12-21; ETDE: 1988-02-19  
 \*BT1 d mesons

## D NEUTRAL MESONS

INIS: 1987-12-21; ETDE: 1988-08-01  
 (Prior to December 1987 this concept was indexed by D ZERO RESONANCES.)  
 UF d zero resonances  
 \*BT1 d mesons  
 NT1 anti-d neutral mesons

## D PLUS MESONS

INIS: 1987-12-21; ETDE: 1988-02-19  
 (Prior to December 1987 this concept was indexed by D PLUS RESONANCES.)  
 UF d plus resonances  
 \*BT1 d mesons

### d plus resonances

INIS: 1987-12-21; ETDE: 1978-12-20  
 (Prior to December 1987 this was a valid descriptor.)  
 USE d plus mesons

## D QUARKS

INIS: 1995-09-08; ETDE: 1995-10-03  
 \*BT1 quarks  
 NT1 d antiquarks  
 RT quarkonium

## D REGION

\*BT1 ionosphere

### d resonances

INIS: 1988-03-08; ETDE: 1977-07-23  
 (Prior to December 1987 this was a valid descriptor.)  
 USE charmed mesons

## D S-2536 MESONS

1995-07-17  
 \*BT1 axial vector mesons  
 \*BT1 charmed mesons  
 \*BT1 strange mesons

## D S MESONS

INIS: 1995-08-07; ETDE: 1988-02-02  
 (Prior to December 1987 this concept was indexed by F MESONS.)  
 UF d strange mesons  
 UF f-2030 resonances  
 UF f mesons  
 \*BT1 charmed mesons  
 \*BT1 pseudoscalar mesons  
 \*BT1 strange mesons

## D STATES

BT1 energy levels

### d strange mesons

INIS: 1987-12-21; ETDE: 2002-06-13  
 USE d s mesons

## D-T OPERATION

INIS: 1996-03-04; ETDE: 1996-02-26  
 RT d-t reactors  
 RT deuterium ions  
 RT thermonuclear devices  
 RT thermonuclear fuels  
 RT tritium ions

## D-T REACTORS

1996-03-04  
 BT1 thermonuclear reactors  
 NT1 pulsed d-t reactors  
 NT2 reference theta pinch reactor  
 NT1 steady-state d-t reactors  
 RT d-t operation

## D WAVES

BT1 partial waves  
 RT angular momentum  
 RT quantum mechanics

### d zero resonances

INIS: 1987-12-21; ETDE: 1978-12-20  
 (Prior to December 1987 this was a valid descriptor.)  
 USE d neutral mesons

## D\*-2010 MESONS

INIS: 1987-12-21; ETDE: 1988-02-02  
 (Prior to December 1987 this concept was indexed by D-2007 RESONANCES.)  
 UF d-2007 resonances  
 \*BT1 charmed mesons  
 \*BT1 vector mesons

### d\*-2420 mesons

INIS: 1995-08-07; ETDE: 1988-02-02  
 (Until July 1995 this was a valid term.)  
 USE d1-2420 mesons

**d\* plus resonances**

INIS: 1988-03-08; ETDE: 1978-12-20  
(Prior to December 1987 this was a valid descriptor.)  
USE baryons

**d\* zero resonances**

INIS: 1988-03-08; ETDE: 1978-12-20  
(Prior to December 1987 this was a valid descriptor.)  
USE baryons

**D\*2-2460 MESONS**

1995-07-17  
\*BT1 charmed mesons  
\*BT1 tensor mesons

**d\*effect**

2000-04-12  
SEE baryons

**d\*phenomenon**

2000-04-12  
SEE baryons

**d\*resonances**

1988-03-08  
(Prior to December 1987 this was a valid descriptor.)  
USE baryons

**D\*S-2110 MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02  
(Until July 1987 this concept was indexed by F\* RESONANCES.)  
UF f\*resonances  
\*BT1 charmed mesons  
\*BT1 strange mesons

**D1-2420 MESONS**

1995-08-07  
(Until July 1995 this concept was indexed by D\*-2420 MESONS.)  
UF d\*-2420 mesons  
\*BT1 axial vector mesons  
\*BT1 charmed mesons

**DACRON**

UF terylene  
\*BT1 polyethylene terephthalate  
RT fibers  
RT glycols  
RT terephthalic acid  
RT textiles

**DACUS**

\*BT1 fruit flies  
NT1 dacus oleae

**DACUS OLEAE**

\*BT1 dacus  
RT olives

**dahomey**

INIS: 2000-04-12; ETDE: 1979-12-10  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE benin

**DAILY VARIATIONS**

Includes day-to-day, diurnal, and semidiurnal variations.  
UF circadian variations  
UF diel variations  
UF diurnal variation  
UF semidiurnal variation  
BT1 variations  
RT nocturnal variations  
RT photoperiod

**DAIRY INDUSTRY**

INIS: 1993-01-28; ETDE: 1980-01-15  
\*BT1 food industry

**dalat triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE triga-2-dalat reactor

**DALHART BASIN**

INIS: 1992-06-05; ETDE: 1984-02-10  
BT1 permian basin  
RT radioactive waste disposal  
RT texas

**dalhousie university slowpoke reactor**

INIS: 1993-11-05; ETDE: 1980-01-24  
USE slowpoke-dalhousie reactor

**DALITZ PLOT**

Phase-space plot of momentum or mass distribution of final-state particles.  
\*BT1 scatterplots  
RT linear momentum  
RT mass  
RT phase space  
RT resonance particles

**dam**

INIS: 1984-04-04; ETDE: 1984-05-10  
Diantipyrylmethane.  
USE pyrazolines

**DAMAGE**

2000-04-12  
Not to be used in reference to living organisms. Use more specific descriptor, if possible.  
RT failures  
RT fatigue  
RT hazards  
RT impact shock  
RT nuclear damage  
RT radiation effects  
RT safety

**damage, vienna convention on liability**

INIS: 1993-11-05; ETDE: 2002-06-13  
USE vcoclnd

**damage (nuclear)**

INIS: 1976-12-08; ETDE: 2002-06-13  
USE nuclear damage

**damage (radiation, biological)**

INIS: 1976-12-08; ETDE: 2002-06-13  
USE radiation injuries

**damage (radiation, chemical)**

INIS: 1976-12-08; ETDE: 2002-06-13  
USE radiolysis

**damage (radiation, physical)**

INIS: 1976-12-08; ETDE: 2002-06-13  
USE physical radiation effects

**damage factor**

INIS: 2000-04-12; ETDE: 1983-02-09  
USE formation damage

**damage ratio**

INIS: 2000-04-12; ETDE: 1983-01-21  
USE formation damage

**damage zone**

INIS: 2000-04-12; ETDE: 1983-01-21  
USE formation damage

**DAMAGING NEUTRON FLUENCE**

INIS: 1976-05-07; ETDE: 1978-03-08  
BT1 neutron fluence  
NT1 equivalent fission fluence

RT interstitial helium generation  
RT interstitial hydrogen generation  
RT irradiation  
RT neutron flux  
RT neutronic damage functions  
RT physical radiation effects  
RT radiation hardness

**DAMPA**

UF diisoamyl methylphosphonate  
UF diisopentyl methylphosphonate  
\*BT1 phosphonic acid esters

**dampers (gas flow)**

INIS: 2000-04-12; ETDE: 1979-01-30  
(Prior to February 1997 DRAFT CONTROL SYSTEMS was used for this concept in ETDE.)  
USE flow regulators  
USE gas flow

**DAMPIERRE-1 REACTOR**

INIS: 1991-03-22; ETDE: 1991-04-09  
Electricite de France, Dampierre-en-Burly, Loiret, France  
\*BT1 pwr type reactors

**DAMPIERRE-2 REACTOR**

1996-09-20  
Electricite de France, Dampierre-en-Burly, Loiret, France  
\*BT1 pwr type reactors

**DAMPIERRE-3 REACTOR**

2003-07-24  
Electricite de France, Dampierre-en-Burly, Loiret, France  
\*BT1 pwr type reactors

**DAMPIERRE-4 REACTOR**

2003-07-24  
Electricite de France, Dampierre-en-Burly, Loiret, France  
\*BT1 pwr type reactors

**DAMPING**

NT1 landau damping  
RT attenuation  
RT energy losses  
RT hydrodynamic mass effect  
RT hysteresis  
RT internal friction  
RT mechanical vibrations  
RT restraints  
RT shock absorbers

**DAMS**

UF breakwaters  
RT embankments  
RT fish passage facilities  
RT flood control  
RT hydroelectric power plants  
RT spillways  
RT water reservoirs

**DANCOFF CORRECTION**

RT resonance escape probability

**DANGER COEFFICIENT**

BT1 reactivity coefficients

**DANISH ATOMIC ENERGY COMMISSION**

ETDE: 1975-09-11  
\*BT1 danish organizations

**DANISH ORGANIZATIONS**

ETDE: 1975-08-19  
BT1 national organizations  
NT1 danish atomic energy commission  
NT1 risoe national laboratory  
NT2 risoe research establishment

**danish reactor-1**

USE dr-1 reactor

**danish reactor-2**

USE dr-2 reactor

**danish reactor-3**

USE dr-3 reactor

**danny boy event**

1994-10-14

*A test made during OPERATION NOUGAT.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE cratering explosions

USE nuclear explosions

**DANTE TOKAMAK**

INIS: 1984-08-24; ETDE: 1984-10-24

*DANish Tokamak Experiment.*

\*BT1 tokamak devices

**DANUBE RIVER**

\*BT1 rivers

RT austria

RT black sea

RT bulgaria

RT federal republic of germany

RT hungary

RT romania

RT serbia

RT slovakia

RT ukraine

**DAPEX PROCESS**

\*BT1 reprocessing

RT solvent extraction

**DAPHNIA**

\*BT1 branchiopods

RT plankton

RT zooplankton

**DARCY LAW**

RT fluid flow

**daresbury synchrotron**

USE nina

**darex process**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE reprocessing

**DARK CURRENT**

2017-03-28

*Relatively small electric current that flows through photosensitive devices when no photons are entering the device.*

\*BT1 leakage current

RT charge-coupled devices

RT photodetectors

RT photodiodes

RT phototransistors

RT phototubes

**dark matter**

INIS: 1985-01-17; ETDE: 1985-03-12

*In outer space.*

USE nonluminous matter

**dark repair**

USE dna repair

**DARLINGTON-1 REACTOR**

INIS: 1976-11-08; ETDE: 1976-12-16

*Darlington, Ontario, Canada.*

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT darlington site

**DARLINGTON-2 REACTOR**

INIS: 1976-11-08; ETDE: 1976-12-16

*Darlington, Ontario, Canada.*

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT darlington site

**DARLINGTON-3 REACTOR**

INIS: 1976-11-08; ETDE: 1976-12-16

*Darlington, Ontario, Canada.*

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT darlington site

**DARLINGTON-4 REACTOR**

INIS: 1976-11-08; ETDE: 1977-05-07

*Darlington, Ontario, Canada.*

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT darlington site

**DARLINGTON SITE**

INIS: 1993-01-14; ETDE: 1993-05-06

*Darlington, Ontario, Canada.*

BT1 reactor sites

RT darlington-1 reactor

RT darlington-2 reactor

RT darlington-3 reactor

RT darlington-4 reactor

**darmstadt storage ring**

INIS: 1992-02-22; ETDE: 1992-03-09

USE esr storage ring

**darmstadt synchrotron**

1991-02-11

USE sis synchrotron

**DARMSTADTIUM**

2004-03-19

(Prior to March 2004 ELEMENT 110 was used for this element.)

UF *eka-platinum*UF *element 110*UF *ununnilium*

\*BT1 transactinide elements

**DARMSTADTIUM 267**

2007-08-29

\*BT1 alpha decay radioisotopes

\*BT1 darmstadtium isotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 microseconds living radioisotopes

**DARMSTADTIUM 269**

2004-03-19

(Prior to March 2004 ELEMENT 110 269 was used for this concept.)

UF *element 110 269*

\*BT1 alpha decay radioisotopes

\*BT1 darmstadtium isotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 microseconds living radioisotopes

**DARMSTADTIUM 270**

2004-03-19

(Prior to March 2004 ELEMENT 110 270 was used for this concept.)

UF *element 110 270*

\*BT1 alpha decay radioisotopes

\*BT1 darmstadtium isotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

**DARMSTADTIUM 271**

2004-11-30

\*BT1 alpha decay radioisotopes

\*BT1 darmstadtium isotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

**DARMSTADTIUM 272**

2007-08-29

\*BT1 darmstadtium isotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 spontaneous fission radioisotopes

**DARMSTADTIUM 273**

2007-08-29

\*BT1 alpha decay radioisotopes

\*BT1 darmstadtium isotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 microseconds living radioisotopes

\*BT1 milliseconds living radioisotopes

**DARMSTADTIUM 279**

2007-08-29

\*BT1 alpha decay radioisotopes

\*BT1 darmstadtium isotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**DARMSTADTIUM 281**

2007-08-29

\*BT1 darmstadtium isotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 spontaneous fission radioisotopes

**DARMSTADTIUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 110 COMPOUNDS was used for this concept.)

UF *element 110 compounds*

\*BT1 transactinide compounds

**DARMSTADTIUM IONS**

2018-01-24

\*BT1 ions

**DARMSTADTIUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 110 ISOTOPES was used for this concept.)

UF *element 110 isotopes*

BT1 isotopes

NT1 darmstadtium 267

NT1 darmstadtium 269

NT1 darmstadtium 270

NT1 darmstadtium 271

NT1 darmstadtium 272

NT1 darmstadtium 273

NT1 darmstadtium 279

NT1 darmstadtium 281

**DARRIEUS ROTORS**

INIS: 2000-04-12; ETDE: 1976-02-19

BT1 rotors

RT vertical axis turbines

**DATA***For data flagging always use a more specific term.*UF *measured values*SF *recorded information*SF *tables*SF *values*BT1 *information*NT1 *data compilation*NT1 *numerical data*

**NT2** compiled data  
**NT2** evaluated data  
**NT2** experimental data  
**NT2** financial data  
**NT2** statistical data  
**NT2** theoretical data  
**RT** cinda  
**RT** comparative evaluations  
**RT** data base management  
**RT** data covariances  
**RT** data processing  
**RT** information needs  
**RT** redundancy

**DATA ACQUISITION**

**UF** acquisition (data)  
**SF** gidep  
**SF** government industry data exchange program (gidep)  
**\*BT1** data processing  
**RT** compiled data  
**RT** data compilation  
**RT** recording systems  
**RT** reporting requirements

**DATA ACQUISITION SYSTEMS**

Systems for converting data to machine readable form and gathering it into a computer store.

**RT** camac system  
**RT** electronic equipment  
**RT** fastbus system  
**RT** identification systems  
**RT** nuclear instrument modules  
**RT** readout systems  
**RT** recording systems

**DATA ANALYSIS**

**INIS: 1991-10-08; ETDE: 1975-12-16**  
**\*BT1** data processing  
**NT1** cluster analysis  
**NT1** data visualization  
**RT** computer calculations  
**RT** ground truth measurements  
**RT** prony method

**DATA BASE MANAGEMENT**

**INIS: 1986-07-09; ETDE: 1978-07-05**  
**BT1** management  
**RT** data  
**RT** data compilation  
**RT** data processing  
**RT** data tagging  
**RT** geographic information systems  
**RT** information  
**RT** information retrieval  
**RT** information systems  
**RT** nuclear data collections

**DATA COMPILATION**

**1985-12-10**  
 The process of compiling large volumes of data. For data flagging use **COMPILED DATA**.  
**\*BT1** data  
**\*BT1** data processing  
**RT** compiled data  
**RT** data acquisition  
**RT** data base management  
**RT** documentation  
**RT** fukushima accident data  
**RT** information centers  
**RT** information systems  
**RT** libraries  
**RT** nuclear data collections

**data compilation (evaluated)**

**INIS: 1978-10-20; ETDE: 2002-06-13**  
**USE** evaluated data

**DATA COVARIANCES**

**INIS: 1985-12-10; ETDE: 1979-02-27**  
 Relates to statistical uncertainties in measured quantities.  
**UF** uncertainty in data values  
**RT** accuracy  
**RT** data  
**RT** errors  
**RT** statistics

**data display devices**

**USE** display devices

**data display systems**

**USE** display devices

**DATA-FLOW PROCESSING**

**INIS: 1992-08-18; ETDE: 1984-02-10**  
**BT1** programming  
**RT** algorithms  
**RT** computers

**data forms**

**INIS: 2000-04-12; ETDE: 1982-06-07**  
 (Prior to February 1997 this was a valid ETDE descriptor.)  
**USE** document types

**DATA PROCESSING**

**2000-02-01**  
 Manipulation of unit facts.  
**UF** chernoff faces  
**UF** electronic data processing  
**UF** handling (data)  
**UF** processing (data)  
**SF** card punches  
**BT1** processing  
**NT1** data acquisition  
**NT1** data analysis  
**NT2** cluster analysis  
**NT2** data visualization  
**NT1** data compilation  
**NT1** distributed data processing  
**NT1** memory management  
**NT1** spectra unfolding  
**NT1** task scheduling  
**RT** array processors  
**RT** calculators  
**RT** computerized simulation  
**RT** computers  
**RT** data  
**RT** data base management  
**RT** data transmission  
**RT** data transmission systems  
**RT** digital filters  
**RT** digital frequency analysis  
**RT** digitizers  
**RT** expert systems  
**RT** frequency analysis  
**RT** image processing  
**RT** image scanners  
**RT** information theory  
**RT** multi-parameter analysis  
**RT** pattern recognition  
**RT** personal computers  
**RT** prony method  
**RT** recording systems  
**RT** verification

**data processors**

**INIS: 1984-04-04; ETDE: 1984-05-10**  
**USE** digital computers

**data storage devices**

**USE** memory devices

**DATA TAGGING**

**INIS: 1999-05-13; ETDE: 1980-05-23**  
**UF** numerical data tagging  
**RT** data base management  
**RT** information retrieval

**RT** information systems

**DATA TRANSMISSION**

(From July 1984 till April 1997 CRYPTOGRAPHY was a valid ETDE descriptor.)

**UF** transmission (data)  
**BT1** communications  
**NT1** telemetry  
**RT** camac system  
**RT** computer networks  
**RT** cryptography  
**RT** data processing  
**RT** data transmission systems  
**RT** equipment interfaces  
**RT** multiplexers  
**RT** nuclear instrument modules  
**RT** quantum teleportation  
**RT** signal conditioning  
**RT** signal distortion  
**RT** signals  
**RT** telephones

**DATA TRANSMISSION SYSTEMS**

**INIS: 1985-03-19; ETDE: 1982-02-23**  
**RT** communications  
**RT** data processing  
**RT** data transmission

**data validation**

**INIS: 2000-04-12; ETDE: 1979-12-17**  
**USE** verification

**DATA VISUALIZATION**

**2015-03-13**  
**UF** visualization (data)  
**\*BT1** data analysis  
**RT** computer calculations  
**RT** computer graphics  
**RT** computerized simulation  
**RT** computerized tomography  
**RT** flow visualization  
**RT** numerical data

**DATASETS**

**2012-05-23**  
**BT1** document types  
**NT1** fukushima accident data

**DATES**

**\*BT1** fruits

**dating**

**ETDE: 1975-09-11**  
**USE** age estimation

**datum pressure**

**INIS: 1986-07-09; ETDE: 1978-09-11**  
**USE** reservoir pressure

**DAUGHTER PRODUCTS**

**UF** decay products  
**BT1** isotopes  
**RT** natural radioactivity  
**RT** radioisotope generators

**davidite**

**1997-01-28**  
 (Until October 1996 this was a valid descriptor.)  
**USE** oxide minerals  
**USE** uranium minerals

**DAVIS BESSE-1 REACTOR**

**1975-10-29**  
 FirstEnergy Nuclear Operating Co., Oak Harbor, Ohio, USA.  
**UF** davis besse reactor  
**UF** oak harbor ohio reactor  
**\*BT1** pwr type reactors

**DAVIS BESSE-2 REACTOR**

1977-10-17

*Toledo Edison Co., Oak Harbor, Ohio, USA.**Canceled in 1980 before construction began.*

\*BT1 pwr type reactors

**DAVIS BESSE-3 REACTOR**

1977-10-17

*Toledo Edison Co., Oak Harbor, Ohio, USA.**Canceled in 1980 before construction began.*

\*BT1 pwr type reactors

**davis besse reactor**

INIS: 1990-12-06; ETDE: 1976-02-19

(Prior to December 1990, this was a valid descriptor.)

USE davis besse-1 reactor

**davy s-h process**

INIS: 2000-04-12; ETDE: 1984-12-26

*A lime-based, formic-acid-buffered process using in-loop forced oxidation for flue gas desulfurization.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE desulfurization

**DAVYDOV-FILIPOV MODEL**

UF davydov model

\*BT1 nuclear models

RT collective model

**davydov model**

USE davydov-filipov model

**DAWSONITE**

2000-04-12

*A mineral consisting of a basic sodium aluminum carbonate occurring in white beaded crystals.*

\*BT1 carbonate minerals

RT aluminium compounds

RT hydroxides

RT sodium carbonates

**DAYA BAY-1 REACTOR**

2003-01-22

*Shenzhen, Guangdong, China.*

(Prior to January 2003 DAYA BAY REACTOR was used.)

UF daya bay reactor

\*BT1 pwr type reactors

**DAYA BAY-2 REACTOR**

2003-01-22

*Shenzhen, Guangdong, China.*

\*BT1 pwr type reactors

**daya bay reactor**

INIS: 1991-09-17; ETDE: 1991-11-22

*Shenzhen, Guangdong, China.*

(Prior to January 2003 this was a valid descriptor.)

USE daya bay-1 reactor

**dayglow**

USE airglow

**DAYLIGHTING**

INIS: 2000-04-12; ETDE: 1981-01-09

UF natural lighting

RT illuminance

RT lighting requirements

RT lighting systems

RT skylights

RT solar radiation

RT windows

**DAYS LIVING RADIOISOTOPES**

\*BT1 radioisotopes

NT1 actinium 225

NT1 actinium 226

NT1 americium 240

NT1 antimony 119

NT1 antimony 120

NT1 antimony 122

NT1 antimony 124

NT1 antimony 126

NT1 antimony 127

NT1 argon 37

NT1 arsenic 71

NT1 arsenic 72

NT1 arsenic 73

NT1 arsenic 74

NT1 arsenic 76

NT1 arsenic 77

NT1 barium 128

NT1 barium 131

NT1 barium 133

NT1 barium 135

NT1 barium 140

NT1 berkelium 245

NT1 berkelium 246

NT1 berkelium 249

NT1 beryllium 7

NT1 bismuth 205

NT1 bismuth 206

NT1 bismuth 210

NT1 bromine 77

NT1 bromine 82

NT1 cadmium 115

NT1 calcium 45

NT1 calcium 47

NT1 californium 246

NT1 californium 248

NT1 californium 253

NT1 californium 254

NT1 cerium 134

NT1 cerium 137

NT1 cerium 139

NT1 cerium 141

NT1 cerium 143

NT1 cerium 144

NT1 cesium 129

NT1 cesium 131

NT1 cesium 132

NT1 cesium 136

NT1 chromium 51

NT1 cobalt 56

NT1 cobalt 57

NT1 cobalt 58

NT1 copper 67

NT1 curium 240

NT1 curium 241

NT1 curium 242

NT1 dubnium 268

NT1 dysprosium 159

NT1 dysprosium 166

NT1 einsteinium 251

NT1 einsteinium 253

NT1 einsteinium 254

NT1 einsteinium 255

NT1 erbium 160

NT1 erbium 169

NT1 erbium 172

NT1 europium 145

NT1 europium 146

NT1 europium 147

NT1 europium 148

NT1 europium 149

NT1 europium 156

NT1 fermium 252

NT1 fermium 253

NT1 fermium 257

NT1 gadolinium 146

NT1 gadolinium 147

NT1 gadolinium 149

NT1 gadolinium 151

NT1 gadolinium 153

NT1 gallium 67

NT1 germanium 68

NT1 germanium 69

NT1 germanium 71

NT1 gold 194

NT1 gold 195

NT1 gold 196

NT1 gold 198

NT1 gold 199

NT1 hafnium 175

NT1 hafnium 179

NT1 hafnium 181

NT1 holmium 166

NT1 indium 111

NT1 indium 114

NT1 iodine 124

NT1 iodine 125

NT1 iodine 126

NT1 iodine 131

NT1 iridium 188

NT1 iridium 189

NT1 iridium 190

NT1 iridium 192

NT1 iridium 193

NT1 iridium 194

NT1 iron 59

NT1 krypton 79

NT1 lanthanum 140

NT1 lead 203

NT1 lutetium 169

NT1 lutetium 170

NT1 lutetium 171

NT1 lutetium 172

NT1 lutetium 174

NT1 lutetium 177

NT1 manganese 52

NT1 manganese 54

NT1 mendeleevium 258

NT1 mercury 195

NT1 mercury 197

NT1 mercury 203

NT1 molybdenum 99

NT1 neodymium 140

NT1 neodymium 147

NT1 neptunium 234

NT1 neptunium 238

NT1 neptunium 239

NT1 nickel 56

NT1 nickel 57

NT1 nickel 66

NT1 niobium 91

NT1 niobium 92

NT1 niobium 95

NT1 osmium 185

NT1 osmium 191

NT1 osmium 193

NT1 palladium 100

NT1 palladium 103

NT1 phosphorus 32

NT1 phosphorus 33

NT1 platinum 188

NT1 platinum 191

NT1 platinum 193

NT1 platinum 195

NT1 plutonium 237

NT1 plutonium 246

NT1 plutonium 247

NT1 polonium 206

NT1 polonium 210

NT1 praseodymium 143

NT1 promethium 143

NT1 promethium 148

NT1 promethium 149

NT1 promethium 151

NT1 protactinium 229

NT1 protactinium 230

NT1 protactinium 232

NT1 protactinium 233

NT1 radium 223

NT1 radium 224

NT1 radium 225

**NT1** radon 222  
**NT1** rhenium 182  
**NT1** rhenium 183  
**NT1** rhenium 184  
**NT1** rhenium 186  
**NT1** rhenium 189  
**NT1** rhodium 101  
**NT1** rhodium 102  
**NT1** rhodium 105  
**NT1** rhodium 99  
**NT1** rubidium 83  
**NT1** rubidium 84  
**NT1** rubidium 86  
**NT1** ruthenium 103  
**NT1** ruthenium 97  
**NT1** samarium 145  
**NT1** samarium 153  
**NT1** scandium 44  
**NT1** scandium 46  
**NT1** scandium 47  
**NT1** scandium 48  
**NT1** selenium 72  
**NT1** selenium 75  
**NT1** silver 105  
**NT1** silver 106  
**NT1** silver 110  
**NT1** silver 111  
**NT1** strontium 82  
**NT1** strontium 83  
**NT1** strontium 85  
**NT1** strontium 89  
**NT1** sulfur 35  
**NT1** tantalum 177  
**NT1** tantalum 182  
**NT1** tantalum 183  
**NT1** technetium 95  
**NT1** technetium 96  
**NT1** technetium 97  
**NT1** tellurium 118  
**NT1** tellurium 119  
**NT1** tellurium 121  
**NT1** tellurium 123  
**NT1** tellurium 125  
**NT1** tellurium 127  
**NT1** tellurium 129  
**NT1** tellurium 131  
**NT1** tellurium 132  
**NT1** terbium 153  
**NT1** terbium 155  
**NT1** terbium 156  
**NT1** terbium 160  
**NT1** terbium 161  
**NT1** thallium 200  
**NT1** thallium 201  
**NT1** thallium 202  
**NT1** thorium 227  
**NT1** thorium 231  
**NT1** thorium 234  
**NT1** thulium 165  
**NT1** thulium 167  
**NT1** thulium 168  
**NT1** thulium 170  
**NT1** thulium 172  
**NT1** tin 113  
**NT1** tin 117  
**NT1** tin 119  
**NT1** tin 121  
**NT1** tin 123  
**NT1** tin 125  
**NT1** tungsten 178  
**NT1** tungsten 181  
**NT1** tungsten 185  
**NT1** tungsten 187  
**NT1** tungsten 188  
**NT1** uranium 230  
**NT1** uranium 231  
**NT1** uranium 237  
**NT1** vanadium 48  
**NT1** vanadium 49

**NT1** xenon 127  
**NT1** xenon 129  
**NT1** xenon 131  
**NT1** xenon 133  
**NT1** ytterbium 166  
**NT1** ytterbium 169  
**NT1** ytterbium 175  
**NT1** yttrium 87  
**NT1** yttrium 88  
**NT1** yttrium 90  
**NT1** yttrium 91  
**NT1** zinc 65  
**NT1** zinc 72  
**NT1** zirconium 88  
**NT1** zirconium 89  
**NT1** zirconium 95  
*RT* half-life  
*RT* lifetime

**DBP**

*UF* dibutyl phosphate  
 \*BT1 butyl phosphates

**DC AMPLIFIERS**

\*BT1 amplifiers

**dc resins**

1996-06-26

(Prior to June 1996 this was a valid ETDE descriptor.)

USE silicones

**DC SYSTEMS**

*INIS*: 1992-03-09; *ETDE*: 1976-05-17

*Direct-current electric power systems.*

\*BT1 power systems  
**NT1** ehv dc systems  
**NT1** hvdc systems  
**NT1** uhv dc systems

**dc to ac inverters**

*INIS*: 1976-09-06; *ETDE*: 1975-08-19

USE inverters

**DC TO DC CONVERTERS**

*INIS*: 1983-06-02; *ETDE*: 1975-08-19

*UF* converters (electric)

\*BT1 electrical equipment  
*RT* inverters  
*RT* power conditioning circuits  
*RT* power supplies  
*RT* rectifiers  
*RT* transformers

**DCA REACTOR**

*JNC, Oarai, Ibaraki, Japan.*

\*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 tank type reactors  
 \*BT1 zero power reactors

**DCI ORSAY STORAGE RING**

BT1 storage rings

**DCTA**

*Diaminocyclohexanetetraacetic acid.*

*UF* diaminocyclohexanetetraacetic acid  
 \*BT1 amino acids  
 BT1 chelating agents

**dcx devices**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE magnetic mirrors

**ddg**

*INIS*: 2000-04-12; *ETDE*: 1981-08-04

USE distillers dried grains

**DDT**

*UF* dichlorodiphenyltrichloroethane  
 \*BT1 aromatics

\*BT1 insecticides  
 \*BT1 organic chlorine compounds  
*RT* ethane

**DE BROGLIE WAVELENGTH**

1998-02-26

BT1 wavelengths  
*RT* quantum mechanics

**DE-EXCITATION**

BT1 energy-level transitions  
**NT1** radiationless decay  
*RT* excitation  
*RT* relaxation

**DE HAAS-VAN ALPHEN EFFECT**

*RT* diamagnetism

**DE SITTER GROUP**

\*BT1 lie groups  
*RT* de sitter space

**DE SITTER SPACE**

2007-08-13

\*BT1 mathematical space  
*RT* de sitter group  
*RT* lorentz groups  
*RT* space-time  
*RT* string theory  
*RT* superstring theory

**DEACTIVATION**

1985-07-23

*RT* chemical activation

**DEAD SEA**

*INIS*: 1978-04-21; *ETDE*: 1977-01-28

\*BT1 lakes

**DEAD TIME**

*UF* live time  
 BT1 timing properties  
*RT* sensitivity  
*RT* time measurement  
*RT* timing circuits

**DEAERATORS**

*INIS*: 1984-04-04; *ETDE*: 1982-10-20

*Devices that remove dissolved gases from liquids.*

*RT* aeration  
*RT* boilers  
*RT* dissolved gases  
*RT* feedwater  
*RT* water treatment

**dealers**

*INIS*: 1992-04-03; *ETDE*: 1979-10-03

USE marketers

**DEALKYLATION**

BT1 chemical reactions

**DEAMINATION**

BT1 chemical reactions  
*RT* amination

**DEASHING**

1992-07-07

*RT* ashes  
*RT* cleaning  
*RT* purification  
*RT* removal

**DEASPHALTING**

*INIS*: 2000-04-12; *ETDE*: 1979-05-25

*The process of removing asphalt from petroleum fractions.*

\*BT1 extraction

**DEATH**

*RT* cell killing  
*RT* lethal irradiation  
*RT* life span

*RT* mortality  
*RT* supralethal irradiation

**debits**

*INIS: 2000-04-12; ETDE: 1979-12-10*  
 SEE financial data

**DEBRECEN CYCLOTRON**

*INIS: 1985-05-15; ETDE: 1985-07-18*  
*At ATOMKI, Debrecen, Hungary.*  
*UF atomki cyclotron*  
 \*BT1 isochronous cyclotrons

**debris (nuclear)**

USE fission products

**DEBT COLLECTION**

*INIS: 2000-04-12; ETDE: 1983-05-21*  
*RT* accounting  
*RT* administrative procedures  
*RT* audits  
*RT* interest rate  
*RT* procurement

**debye cutoff**

USE debye length

**DEBYE LENGTH**

*1999-07-20*  
*UF debye cutoff*  
*UF debye shield*  
*UF debye shielding length*  
 \*BT1 length  
*RT* plasma density

**DEBYE-SCHERRER METHOD**

BT1 diffraction methods  
*RT* powders  
*RT* structural chemical analysis  
*RT* x-ray diffraction

**debye shield**

USE debye length

**debye shielding length**

USE debye length

**DEBYE TEMPERATURE**

*UF temperature (debye)*  
*RT* specific heat

**DEBYE-WALLER FACTOR**

*RT* diffraction  
*RT* lattice vibrations

**DEC COMPUTERS**

*INIS: 1980-09-12; ETDE: 1980-03-29*  
*Computers manufactured by Digital Equipment Corporation.*  
*UF vax computers*  
 BT1 computers  
 NT1 pdp computers

**DECA DEVICES**

\*BT1 magnetic mirrors

**decahydronaphthalene**

USE decalin

**DECALIN**

*UF decahydronaphthalene*  
 \*BT1 cycloalkanes  
*RT* naphthalene

**decalso**

USE ion exchange materials

**DECANE**

*1984-04-04*  
 \*BT1 alkanes

**DECANOIC ACID**

*UF capric acid*  
 \*BT1 monocarboxylic acids

**DECANOLS**

*UF decyl alcohols*  
 \*BT1 alcohols

**DECANTATION**

BT1 separation processes  
*RT* sedimentation

**DECAPODS**

*INIS: 1993-07-14; ETDE: 1981-06-15*  
 \*BT1 crustaceans  
 NT1 crabs  
 NT1 lobsters  
 NT1 prawns  
 NT1 shrimp

**DECARBONIZATION**

*RT* carbonization  
*RT* cleaning  
*RT* decontamination

**decarboxylase**

*1982-06-09*  
 (Prior to June 1982 this was a valid term, and older material is so indexed.)  
 USE decarboxylases

**DECARBOXYLASES**

*INIS: 1982-06-09; ETDE: 1980-11-12*  
*UF decarboxylase*  
 \*BT1 carboxy-lyases

**DECARBOXYLATION**

BT1 chemical reactions  
*RT* carboxylation  
*RT* lyases

**DECARBURIZATION**

*1976-06-23*  
 BT1 chemical reactions  
*RT* austenite  
*RT* carbides  
*RT* carbon  
*RT* carburization  
*RT* heat treatments  
*RT* steels

**DECAY**

*For nuclear or particle decay only. For chemical or biological decay, see DECOMPOSITION.*

*UF degradation (nuclear)*  
*UF disintegration (nuclear)*  
*UF fragments (decay)*

NT1 nuclear decay  
 NT2 alpha decay  
 NT2 beta decay  
 NT3 beta-minus decay  
 NT4 double beta decay  
 NT5 neutrinoless double beta decay  
 NT3 beta-plus decay  
 NT3 electron capture decay  
 NT4 k capture  
 NT4 l capture  
 NT4 m capture  
 NT2 gamma decay  
 NT2 heavy ion emission decay  
 NT3 carbon 12 emission decay  
 NT3 carbon 14 emission decay  
 NT3 carbon 16 emission decay  
 NT3 magnesium 28 emission decay  
 NT3 magnesium 30 emission decay  
 NT3 neon 24 emission decay  
 NT3 oxygen 16 emission decay  
 NT3 silicon 32 emission decay  
 NT3 silicon 34 emission decay  
 NT2 internal conversion  
 NT3 k conversion  
 NT3 l conversion  
 NT3 m conversion  
 NT2 proton-emission decay

NT2 spontaneous fission  
 NT1 particle decay  
 NT2 electromagnetic particle decay  
 NT2 hadronic particle decay  
 NT2 radiative decay  
 NT2 weak particle decay  
 NT3 leptonic decay  
 NT3 semileptonic decay  
 NT3 weak hadronic decay  
*RT* angular correlation  
*RT* branching ratio  
*RT* delayed alpha particles  
*RT* delayed gamma radiation  
*RT* delayed neutrons  
*RT* delayed protons  
*RT* energy-level transitions  
*RT* forbidden transitions  
*RT* ft value  
*RT* half-life  
*RT* interactions  
*RT* internal pair production  
*RT* isomeric transitions  
*RT* lifetime  
*RT* mixing ratio  
*RT* particle kinematics  
*RT* radioisotope generators  
*RT* selection rules

**decay (biological)**

USE decomposition

**DECAY AMPLITUDES**

\*BT1 transition amplitudes

**decay heat**

*INIS: 1976-07-30; ETDE: 2002-06-13*  
 SEE after-heat

**decay heat removal**

*INIS: 2000-04-12; ETDE: 1976-03-11*  
 USE after-heat removal

**DECAY INSTABILITY**

\*BT1 plasma instability  
*RT* plasma macroinstabilities  
*RT* plasma microinstabilities  
*RT* plasma waves

**decay products**

USE daughter products

**deceleration**

USE acceleration

**dechanneling**

USE channeling

**DECHLORINATION**

\*BT1 dehalogenation  
*RT* chlorination

**DECIDUOUS TREES**

*1993-07-14*  
*Trees that show seasonal shedding of leaves.*  
 \*BT1 trees

**decimeter wave radiation (1-3 dm)**

*2000-03-31*  
 USE ghz range 01-100  
 USE radiowave radiation

**decimeter wave radiation (3-10dm)**

*2000-04-12*  
 USE mhz range 100-1000  
 USE radiowave radiation

**DECISION MAKING**

*INIS: 1996-05-06; ETDE: 1976-08-04*  
*For documents describing a formal process for reaching a decision, i.e., making a choice among alternatives, and its associated*

*techniques, to establish policies or procedures.*

(From September 1982 till March 1997 OPERATIONS RESEARCH was a valid ETDE descriptor.)

SF operations research  
RT advisory committees  
RT decision tree analysis  
RT game theory  
RT intervenors  
RT planning  
RT regional cooperation  
RT time-series analysis

### DECISION TREE ANALYSIS

1996-05-06

RT control  
RT decision making  
RT planning

### decisions and orders

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to March 1996 this was a valid ETDE descriptor.)

SEE administrative procedures

### DECK EFFECT

*Kinematic peak in the mass spectrum of resonance particles.*

RT kinetics  
RT resonance particles

### DECLADDING

BT1 head end processes  
NT1 chemical decladding  
NT1 mechanical decladding  
RT cladding  
RT fuel cans  
RT fuel elements  
RT reprocessing

### DECLASSIFICATION

INIS: 1998-07-06; ETDE: 1983-03-24

UF information declassification  
RT classified information  
RT public information

### DECOMMISSIONING

1996-04-29

NT1 reactor decommissioning  
RT cancellation  
RT commissioning  
RT remedial action  
RT shutdown

### DECOMMISSIONING LICENSES

2013-11-20

BT1 licenses

### DECOMPOSITION

UF decay (biological)  
UF degradation (chemical)  
UF disintegration (biological)  
UF disintegration (chemical)  
BT1 chemical reactions  
NT1 autolysis  
NT2 autoradiolysis  
NT1 biodegradation  
NT1 carbonization  
NT2 coking  
NT2 electrocarbonization  
NT1 depolymerization  
NT1 destructive distillation  
NT1 glycolysis  
NT1 hemolysis  
NT1 photolysis  
NT2 biophotolysis  
NT1 proteolysis  
NT2 fibrinolysis  
NT1 pyrolysis  
NT2 calcination  
NT2 cracking

NT3 catalytic cracking  
NT3 hydrocracking  
NT3 thermal cracking  
NT2 flash hydrolysis process  
NT1 radiolysis  
NT2 autoradiolysis  
NT1 retorting  
NT2 in-situ retorting  
NT1 solvolysis  
NT2 acetolysis  
NT2 ammonolysis  
NT2 hydrolysis  
NT3 acid hydrolysis  
NT3 alkaline hydrolysis  
NT3 autohydrolysis  
NT3 enzymatic hydrolysis  
NT3 saccharification  
NT3 saponification

RT aerobic conditions  
RT anaerobic conditions  
RT catabolism  
RT composting  
RT dissociation  
RT nucleic acid denaturation  
RT strand breaks  
RT thermal gravimetric analysis  
RT weathering

### DECONTAMINATION

UF decontamination factor  
UF radiation decontamination  
UF radioactive decontamination  
BT1 cleaning  
RT bioadsorbents  
RT chelating agents  
RT clays  
RT coolant cleanup systems  
RT decarbonization  
RT detergents  
RT detoxification  
RT lavage  
RT life support systems  
RT natural attenuation  
RT protective coatings  
RT purification  
RT radiation protection  
RT remedial action  
RT safety showers  
RT scrubbing  
RT surface cleaning  
RT surface contamination  
RT washout

### decontamination factor

USE decontamination  
USE efficiency

### DECOUPLING

RT coupling  
RT ft value

### decyl alcohols

USE decanols

### decylamine-tris

USE tda

### DEDTC

UF diethyldithiocarbamates  
\*BT1 carbamates  
BT1 chelating agents  
\*BT1 organic sulfur compounds

### DEEP INELASTIC HEAVY ION REACTIONS

INIS: 1978-08-14; ETDE: 1978-10-19

UF deep inelastic transfer reactions  
UF strongly damped heavy ion reactions  
\*BT1 heavy ion reactions  
RT compound-nucleus reactions  
RT heavy ion fusion reactions

RT incomplete fusion reactions  
RT nuclear fragmentation  
RT precompound-nucleus emission  
RT quasi-fission

### DEEP INELASTIC SCATTERING

INIS: 1975-09-16; ETDE: 1975-10-28

*Lepton-nucleon inelastic scattering involving an exchange of a virtual photon.*

\*BT1 inelastic scattering  
\*BT1 lepton-nucleon interactions  
RT boson-exchange models  
RT emc effect  
RT resonance scattering  
RT virtual particles

### deep inelastic transfer reactions

INIS: 1993-11-05; ETDE: 2002-06-13

USE deep inelastic heavy ion reactions

### DEEP LEVEL TRANSIENT SPECTROSCOPY

INIS: 1999-06-23; ETDE: 1983-04-28

*Means of obtaining Fourier components of transient response of deep energy levels in semiconductors.*

UF dlts  
BT1 spectroscopy  
RT capacitance  
RT transients  
RT traps

### DEEP RIVER

\*BT1 ontario

### DEEP WATER OIL TERMINALS

1993-06-02

*Oil terminals located in deep water for supertankers.*

BT1 terminal facilities  
RT moorings  
RT tanker ships  
RT transport

### DEER

UF caribou  
UF mule deer  
UF odocoileus  
UF reindeer  
\*BT1 ruminants  
RT antlers

### DEES

BT1 electrodes  
RT cyclotrons  
RT mass spectrometers

### DEFECTS

*Not for the concept covered by CRYSTAL*

*DEFECTS.*

UF flaws  
UF imperfections  
RT cracks  
RT fracture mechanics  
RT fractures  
RT porosity  
RT stress intensity factors  
RT voids

### defense

INIS: 2000-04-12; ETDE: 1979-11-23

USE national defense

### defense atomic support agency triga-mk-f

1993-11-05

USE afri reactor



**defense production act**

INIS: 2000-04-12; ETDE: 1983-03-23  
(Prior to February 1995, this was a valid ETDE descriptor.)  
SEE national defense

**DEFEROXAMINE**

UF *dfa*  
\*BT1 amines  
BT1 chelating agents

**deficiency (nutritional)**

USE nutritional deficiency

**DEFLOCCULATING AGENTS**

2014-03-28  
BT1 additives  
RT agglomeration  
RT colloids  
RT flocculation  
RT suspensions

**DEFORESTATION**

INIS: 1991-10-10; ETDE: 1983-09-15  
RT biomass  
RT carbon cycle  
RT forestry  
RT forests  
RT reddy  
RT revegetation

**DEFORMATION**

(From January 1975 till May 1996 Portevin-le Chatelier effect was a valid ETDE descriptor.)

UF *buckling (structural)*  
UF *portevin-le chatelier effect*  
UF *structural buckling*  
NT1 bending  
NT1 bowing  
NT1 corrosion denting  
NT1 elongation  
NT1 nuclear deformation  
NT1 ratcheting  
NT1 swelling  
RT dilatancy  
RT dynamic loads  
RT elasticity  
RT fractures  
RT magnetostriction  
RT materials working  
RT mechanical properties  
RT plasticity  
RT rheology  
RT slip  
RT static loads  
RT strains  
RT torsion

**DEFORMED NUCLEI**

*Nuclei which are deformed even in the ground state.*

UF *nonaxial nuclei*  
BT1 nuclei  
NT1 superdeformed nuclei  
RT aligned coupling scheme  
RT backbending  
RT cranking model  
RT governor model  
RT nuclear deformation  
RT nuclear models  
RT rotation-vibration model

**DEFROSTING**

INIS: 2000-04-12; ETDE: 1982-02-23  
*Removal of frost or ice from an object.*  
RT freezing  
RT frost  
RT ice  
RT melting  
RT thawing

**DEGASSING**

UF *outgassing*  
RT castings  
RT desorption  
RT fission product release

**degradation (chemical)**

USE decomposition

**degradation (energy)**

USE energy losses

**degradation (nuclear)**

USE decay

**degradation (radioinduced)**

INIS: 1976-11-17; ETDE: 1975-09-11  
USE radiolysis

**degradation (thermal)**

INIS: 2000-04-12; ETDE: 1976-06-07  
USE thermal degradation

**DEGREE DAYS**

INIS: 1993-01-13; ETDE: 1975-09-30  
BT1 units  
RT air conditioning  
RT climates  
RT space heating  
RT temperature measurement

**DEGREES OF FREEDOM**

INIS: 1985-07-22; ETDE: 1986-10-07  
RT mechanics  
RT statistics  
RT thermodynamics  
RT variations

**DEHALOGENATION**

INIS: 1982-10-28; ETDE: 1982-11-30  
BT1 chemical reactions  
NT1 dechlorination  
NT1 deiodination

**dehpa**

SEE hdehp  
SEE phosphonic acid esters

**dehumidification**

INIS: 2000-04-12; ETDE: 1978-12-11  
(Prior to February 1997 this was a valid ETDE descriptor.)  
SEE dehydration  
SEE drying

**DEHUMIDIFIERS**

INIS: 1984-04-04; ETDE: 1977-06-21  
RT desiccants  
RT dryers  
RT electric appliances  
RT humidifiers

**DEHYDRATION**

(From December 1978 to February 1997 DEHUMIDIFICATION was a valid ETDE descriptor.)

SF *dehumidification*  
RT desiccants  
RT drying  
RT evaporation  
RT water removal

**dehydrators**

INIS: 2000-04-12; ETDE: 1977-01-28  
*Vessels or process systems for removal of liquids from gases or solids by the use of heat, absorbents, or adsorbents.*  
(Prior to February 1997 this was a valid ETDE descriptor.)  
USE dryers

**DEHYDRIDATION**

INIS: 1999-07-12; ETDE: 1978-06-14  
BT1 chemical reactions  
RT hydridation  
RT hydrogen

**DEHYDROCYCLIZATION**

INIS: 1985-06-10; ETDE: 1983-04-28  
UF *condensation (organic compounds)*  
BT1 chemical reactions

**dehydroepiandrosterone**

USE hydroxyandrosthenone

**dehydrogenases**

2000-04-12  
(Prior to January 1981 this was a valid ETDE descriptor, and older material is so indexed.)  
USE oxidoreductases

**DEHYDROGENATION**

BT1 chemical reactions  
RT deuteration  
RT hydrogenation

**DEIODINATION**

\*BT1 dehalogenation  
RT iodination

**dekatrons**

USE counting tubes

**DELAWARE**

\*BT1 usa  
RT delaware bay  
RT delaware river  
RT us east coast

**DELAWARE BAY**

INIS: 1992-01-09; ETDE: 1978-09-13  
\*BT1 atlantic ocean  
\*BT1 bays  
RT delaware

**DELAWARE RIVER**

\*BT1 rivers  
RT delaware  
RT new jersey  
RT new york  
RT pennsylvania

**DELAY CIRCUITS**

BT1 electronic circuits  
RT pulse techniques

**DELAYED ALPHA PARTICLES**

\*BT1 alpha particles  
RT alpha decay  
RT decay

**DELAYED GAMMA RADIATION**

\*BT1 gamma radiation  
RT decay  
RT nuclear reactions  
RT photons

**DELAYED NEUTRON ANALYSIS**

INIS: 1977-01-26; ETDE: 1977-04-13  
\*BT1 nondestructive analysis  
\*BT1 nuclear reaction analysis  
RT delayed neutrons  
RT nuclear reaction analyzers

**DELAYED NEUTRON FRACTION**

RT delayed neutrons

**DELAYED NEUTRON PRECURSORS**

UF *precursors (delayed neutron)*  
UF *precursors (delayed neutrons)*  
\*BT1 radioisotopes  
RT beta-delayed neutrons  
RT delayed neutrons

**DELAYED NEUTRONS**

*For fission neutrons only. For delayed neutrons not resulting from fission, see BETA-DELAYED NEUTRONS. (Scope note added in 1985.)*

- \*BT1 fission neutrons
- RT decay
- RT delayed neutron analysis
- RT delayed neutron fraction
- RT delayed neutron precursors
- RT reactor kinetics

**DELAYED PROTON PRECURSORS**

*INIS: 1976-10-29; ETDE: 1976-12-16*  
*UF precursors (delayed proton)*  
*UF precursors (delayed protons)*  
 \*BT1 radioisotopes  
 RT delayed protons  
 RT neutron-deficient isotopes

**DELAYED PROTONS**

- UF beta-delayed protons
- \*BT1 protons
- RT beta-plus decay
- RT decay
- RT delayed proton precursors
- RT electron capture decay
- RT neutron-deficient isotopes

**DELAYED RADIATION EFFECTS**

- UF chronic radiation effects
- UF delayed radiation injuries
- UF late radiation effects
- \*BT1 biological radiation effects
- RT a-bomb survivors
- RT congenital malformations
- RT dose commitments
- RT early radiation effects
- RT genetic radiation effects
- RT latency period
- RT medical surveillance
- RT neoplasms
- RT radiation syndrome
- RT time dependence

**delayed radiation injuries**

- USE delayed radiation effects
- USE radiation injuries

**DELBRUECK SCATTERING**

- \*BT1 inelastic scattering

**deletions (chromosomal)**

- USE chromosomal aberrations

**delft hoger onderwijs reactor**

- USE hor reactor

**DELIGNIFICATION**

*INIS: 1992-09-04; ETDE: 1978-06-14*  
*Removal of lignin by either enzymatic or chemical means.*

- RT cellulose
- RT lignin
- RT plant cells
- RT wood

**DELIVERY**

*INIS: 1985-12-10; ETDE: 1978-07-05*  
 RT agreements  
 RT contracts  
 RT materials handling  
 RT postal services  
 RT transport

**DELORO STELLITE 6**

*INIS: 2000-03-29; ETDE: 1984-07-10*  
*UF stellite 6 (deloro)*

**DELPHI METHOD**

*INIS: 2000-04-12; ETDE: 1976-08-04*  
 BT1 forecasting

- RT management
- RT planning
- RT technology assessment

**delphinium**

- USE ranunculaceae

**DELTA-1232 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1236 RESONANCES.)  
*UF delta-1236 resonances*  
 \*BT1 delta baryons

**delta-1236 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-1232 baryons

**DELTA-1600 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1650 RESONANCES.)  
*UF delta-1650 resonances*  
 \*BT1 delta baryons

**DELTA-1620 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**delta-1650 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-1600 baryons

**delta-1670 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-1700 baryons

**DELTA-1700 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1670 RESONANCES.)  
*UF delta-1670 resonances*  
 \*BT1 delta baryons

**delta-1877 resonances**

2000-04-12  
 (Prior to August 1988 this was a valid ETDE descriptor.)  
 SEE n\*baryons

**delta-1890 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-1900 baryons

**DELTA-1900 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1890 RESONANCES.)  
*UF delta-1890 resonances*  
 \*BT1 delta baryons

**DELTA-1905 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-1910 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1910 RESONANCES.)  
*UF delta-1910 resonances*  
 \*BT1 delta baryons

**delta-1910 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-1910 baryons

**DELTA-1920 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-1930 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-1950 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1950 RESONANCES.)  
*UF delta-1950 resonances*  
 \*BT1 delta baryons

**delta-1950 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-1950 baryons

**delta-1960 resonances**

1988-03-08  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta baryons

**DELTA-2000 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-2150 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-2200 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-2200 RESONANCES.)  
*UF delta-2200 resonances*  
 \*BT1 delta baryons

**delta-2200 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-2200 baryons

**DELTA-2400 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-2420 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-2420 RESONANCES.)  
*UF delta-2420 resonances*  
 \*BT1 delta baryons

**delta-2420 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-2420 baryons

**delta-2850 resonances**

1988-03-08  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta baryons

**DELTA-3000 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-3230 RESONANCES.)  
*UF delta-3230 resonances*  
 \*BT1 delta baryons

**delta-3230 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE delta-3000 baryons

**delta-966 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE a0-980 mesons

**DELTA BARYONS**

INIS: 1995-07-17; ETDE: 1988-02-19

UF delta-1960 resonances

UF delta-2850 resonances

\*BT1 n\*baryons

NT1 delta-1232 baryons

NT1 delta-1600 baryons

NT1 delta-1620 baryons

NT1 delta-1700 baryons

NT1 delta-1900 baryons

NT1 delta-1905 baryons

NT1 delta-1910 baryons

NT1 delta-1920 baryons

NT1 delta-1930 baryons

NT1 delta-1950 baryons

NT1 delta-2000 baryons

NT1 delta-2150 baryons

NT1 delta-2200 baryons

NT1 delta-2400 baryons

NT1 delta-2420 baryons

NT1 delta-3000 baryons

**DELTA FUNCTION**

UF dirac delta function

BT1 functions

RT schwinger terms

**DELTA RAYS**

BT1 radiations

RT electrons

RT ionizing radiations

RT recoils

**delta resonances (baryon)**

1976-08-17

USE n\*baryons

**delta resonances (meson)**

2000-04-12

USE mesons

**DEMAGNETIZATION**

INIS: 1977-09-06; ETDE: 1977-10-19

NT1 adiabatic demagnetization

RT magnetic fields

RT magnetism

RT magnetization

RT magnets

**demagnetization (adiabatic)**

2000-04-12

USE adiabatic demagnetization

**DEMAND**

INIS: 1985-12-11; ETDE: 1980-02-11

NT1 energy demand

NT1 land requirements

NT1 lighting requirements

NT1 power demand

NT1 uranium requirements

NT1 water requirements

RT availability

RT energy consumption

RT fuel consumption

RT fuel supplies

RT supply and demand

**DEMAND FACTORS**

1985-12-10

Ratios of the maximum demand to the total connected load.

BT1 dimensionless numbers

RT electric power

RT energy consumption

RT energy demand

RT power demand

RT supply and demand

**demand limiters**

INIS: 1978-08-30; ETDE: 1977-03-08

USE current limiters

**DEMBER EFFECT**

RT charge carriers

**demerol**

USE pethidine

**demesmaekerite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

**DEMETALLIZATION**

INIS: 1998-11-12; ETDE: 1976-05-13

BT1 separation processes

**DEMINERALIZATION**

Water softening by use of zeolites or resins to remove cations.

BT1 separation processes

NT1 desalination

RT demineralizers

RT distillation

RT feedwater

RT ion exchange

RT water chemistry

**DEMINERALIZERS**

RT demineralization

RT reactor cooling systems

RT water

**DEMOCRATIC REPUBLIC OF THE CONGO**

1997-08-20

Until August 1997 this was known as ZAIRE REPUBLIC.

UF congo democratic republic

UF republic of zaire

UF zaire republic

BT1 africa

BT1 developing countries

NT1 kinshasa

**DEMOCRITUS REACTOR**

Greek Atomic Energy Commission,

Demokritos, Greece.

UF greek research reactor

UF grr reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**demography**

INIS: 1982-12-03; ETDE: 1980-08-12

The statistical study of human populations with reference to natality, mortality, migratory movements, age, and sex, among other social, ethnic, and economic factors.

USE human populations

**DEMOLITION**

NT1 reactor dismantling

**DEMONSTRATION PLANTS**

INIS: 1994-09-13; ETDE: 1977-01-10

Plants designed to establish the technical and financial feasibility of technologies proven by pilot plant testing.

NT1 coral reprocessing plant

RT bench-scale experiments

RT field tests

RT industrial plants

RT pilot plants

RT process development units

**DEMONSTRATION PROGRAMS**

INIS: 1985-12-10; ETDE: 1976-12-16

RT commercialization

RT experiment planning

RT planning

RT program management

RT research programs

RT us national program plans

**DEMULSIFICATION**

INIS: 1992-10-01; ETDE: 1976-04-19

RT demulsifiers

RT emulsification

RT emulsifiers

RT emulsions

**DEMULSIFIERS**

INIS: 1992-10-01; ETDE: 1996-01-09

BT1 additives

RT demulsification

RT emulsification

RT emulsifiers

RT emulsions

**denaturation (nucleic acid)**

USE nucleic acid denaturation

**denaturation (protein)**

USE protein denaturation

**DENATURED FUEL**

INIS: 1978-05-19; ETDE: 1978-01-23

Fuel which has been diluted or spiked so that it is not suitable for weapons use.

\*BT1 nuclear fuels

RT proliferation

RT safeguards

**DENDRIMERS**

2014-03-28

Repetitively branched molecules.

BT1 molecules

RT nanomaterials

RT polymers

**DENDRITES**

BT1 crystals

RT dendritic web growth method

**DENDRITIC WEB GROWTH METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11

Self-shaping crystal growth method where the crystal is produced directly from the melt without the use of dies or shapers.

UF web growth method

BT1 crystal growth methods

RT crystal growth

RT dendrites

RT monocrystals

RT sheets

**denelcor computers**

INIS: 1997-01-28; ETDE: 1984-02-10

(Until October 1996 this was a valid descriptor.)

USE computers

**DENITRATION**

BT1 chemical reactions

*RT* nitric acid  
*RT* reprocessing

**DENITRIFICATION**

1992-03-18  
*SF* hitachi zosen process  
*BT1* chemical reactions  
*NT1* combined soxnox processes  
*NT2* noxso process  
*NT1* selective catalytic reduction  
*RT* nitrification  
*RT* nitrogen  
*RT* nitrogen compounds  
*RT* shell-uop copper oxide process  
*RT* solinox process

**DENMARK**

*BT1* developed countries  
*\*BT1* scandinavia  
*RT* faeroe islands  
*RT* greenland  
*RT* oecd

**DENSIMETERS**

*BT1* measuring instruments  
*NT1* pycnometers  
*RT* density  
*RT* radiometric gages  
*RT* sedimentometers  
*RT* weight indicators

**DENSITOMETERS**

*\*BT1* photometers  
*RT* photometry

**DENSITY**

*For specific weight only; see also descriptors such as CARRIER DENSITY, CURRENT DENSITY, and FLUX DENSITY.*

*UF* specific gravity  
*UF* specific volume  
*UF* specific weight  
*BT1* physical properties  
*NT1* api gravity  
*NT1* bulk density  
*RT* densimeters  
*RT* fuel densification  
*RT* jigs  
*RT* mass distribution  
*RT* stopping power  
*RT* weight

**density (carrier)**

USE carrier density

**density (charge)**

*INIS: 1976-05-05; ETDE: 1976-08-26*  
USE charge density

**density (current)**

*ETDE: 2002-06-13*  
USE current density

**density (electron)**

USE electron density

**density (energy-level)**

USE energy-level density

**density (energy)**

*INIS: 1980-09-12; ETDE: 1979-04-11*  
USE energy density

**density (flux)**

USE flux density

**density (grain)**

USE grain density

**density (ion)**

*INIS: 1976-05-05; ETDE: 2002-06-13*  
USE ion density

**density (neutron)**

USE neutron density

**density (plasma)**

USE plasma density

**density (population)**

USE population density

**density (power)**

USE power density

**density (proton)**

*INIS: 1978-11-24; ETDE: 1980-10-27*  
USE proton density

**density (spectral)**

*INIS: 1975-12-17; ETDE: 2002-06-13*  
USE spectral density

**DENSITY FUNCTIONAL METHOD**

*INIS: 2001-02-28; ETDE: 2001-06-08*  
*\*BT1* variational methods  
*RT* electron correlation  
*RT* functionals  
*RT* many-body problem  
*RT* probability density functions

**density log**

*INIS: 2000-04-12; ETDE: 1979-03-27*  
USE gamma-gamma logging

**DENSITY MATRIX**

*BT1* matrices  
*RT* mathematical operators  
*RT* mixed states  
*RT* quantum mechanics

**DENSITY OF STATES**

2015-05-19  
*The number of allowed states per volume at a given energy. See also ENERGY-LEVEL DENSITY*  
*RT* band theory  
*RT* crystal structure  
*RT* eigenstates  
*RT* electronic structure  
*RT* quantum states  
*RT* quantum systems  
*RT* statistical mechanics

**DENTIN**

*RT* bone tissues  
*RT* teeth

**denting (corrosion)**

*INIS: 1979-05-28; ETDE: 1979-09-06*  
USE corrosion denting

**DENTISTRY**

*BT1* medicine  
*RT* caries  
*RT* teeth

**deoxidation**

USE reduction

**DEOXYCYTIDINE**

*UF* deoxycytidinuria  
*\*BT1* nucleosides  
*\*BT1* pyrimidines  
*RT* cytidine

**deoxycytidinuria**

USE deoxycytidine  
USE urine

**deoxycytidylic acid**

1996-07-18  
*(Until July 1996 this was a valid descriptor.)*  
USE nucleotides

**deoxypentose nucleic acid**

USE dna

**deoxyribonuclease**

USE dna-ase

**deoxyribonucleic acid**

USE dna

**DEOXYRIBOSE**

*\*BT1* aldehydes  
*\*BT1* pentoses  
*RT* ribosides

**DEOXYURIDINE**

*\*BT1* antimetabolites  
*\*BT1* nucleosides  
*\*BT1* uracils  
*RT* budr  
*RT* fudr  
*RT* iododeoxyuridine

**department of defense**

*INIS: 2000-04-12; ETDE: 1977-10-20*  
USE us dod

**department of interior**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
USE us doi

**department of transportation**

*INIS: 2000-04-12; ETDE: 1977-09-20*  
USE us dot

**DEPARTURE NUCLEATE BOILING**

*UF* critical heat flow  
*UF* dnb  
*\*BT1* nucleate boiling

**DEPHENOLIZATION**

*INIS: 2000-04-12; ETDE: 1976-03-11*  
*BT1* chemical reactions  
*RT* phenols

**DEPLETED URANIUM**

*\*BT1* uranium  
*RT* fuel cycle

**depletion (isotopic)**

USE isotope separation

**depletion (nuclear fuels)**

USE burnup

**depletion allowances**

*INIS: 2000-04-12; ETDE: 1978-01-23*  
*Deductions allowed to federal income tax based on using up natural resources such as fossil fuels.*  
*(Prior to February 1992 this was a valid ETDE descriptor.)*  
USE us depletion allowances

**DEPLETION LAYER**

*INIS: 1992-05-28; ETDE: 1980-03-04*  
*An electric double layer formed at the surface of contact between a metal and a semiconductor having different work functions.*  
*UF* blocking layer  
*UF* space-charge layer  
*SF* barrier layer  
*BT1* layers  
*RT* semiconductor devices  
*RT* semiconductor materials  
*RT* solar cells  
*RT* surface barrier detectors  
*RT* surface barrier transistors

**DEPOLARIZATION**

*RT* polarization

**DEPOLYMERIZATION**

- \*BT1 decomposition
- RT molecular weight
- RT polymerization

**DEPOSITION**

*For the laying down of a substance on a surface; for deposition of elements and nuclides in tissues of living organisms use RETENTION.*

- UF dry deposition
- NT1 surface coating
- NT2 chemical coating
- NT3 chemical vapor deposition
- NT3 electrochemical coating
- NT4 anodization
- NT2 cladding
- NT2 diffusion coating
- NT2 dip coating
- NT3 hot dipping
- NT2 electrodeposition
- NT3 electroplating
- NT2 energy beam deposition
- NT2 physical vapor deposition
- NT2 plating
- NT3 electroplating
- NT3 vapor plating
- NT2 screen printing
- NT2 spin-on coating
- NT2 spray coating
- NT3 flame spraying
- NT3 plasma arc spraying
- NT2 vacuum coating
- RT adsorption
- RT deposits
- RT fouling
- RT masking
- RT precipitation
- RT retention
- RT scaling
- RT sputtering
- RT thin films

**deposition (gravitational)**

- ETDE: 2002-06-13
- USE sedimentation

**DEPOSITS**

- RT antifoulants
- RT coatings
- RT deposition
- RT fouling

**deposits (geological)**

- USE geologic deposits

**DEPRECIATION**

- INIS: 2000-06-27; ETDE: 1979-09-26
- RT economics
- RT financial incentives
- RT financing

**depressants (central nervous system)**

- INIS: 1993-11-05; ETDE: 2002-06-13
- USE central nervous system depressants

**DEPRESSURIZATION**

- RT depressurization systems
- RT pressure vessels
- RT pressurization
- RT reactor safety

**DEPRESSURIZATION SYSTEMS**

- 1985-12-11
- RT depressurization
- RT eccs
- RT pressure vessels
- RT reactor protection systems

**DEPTH**

*For elevation use LEVELS.*

- UF depth distribution
- BT1 dimensions
- NT1 depth 1-3 km
- NT1 depth 3-6 km
- NT1 depth 6-9 km
- NT1 depth 9-12 km

**DEPTH 1-3 KM**

- INIS: 2000-04-12; ETDE: 1978-12-20
- \*BT1 depth

**DEPTH 3-6 KM**

- INIS: 2000-04-12; ETDE: 1978-12-20
- \*BT1 depth

**DEPTH 6-9 KM**

- INIS: 2000-04-12; ETDE: 1978-12-20
- \*BT1 depth

**DEPTH 9-12 KM**

- INIS: 2000-04-12; ETDE: 1978-12-20
- \*BT1 depth

**depth distribution**

- INIS: 1976-09-06; ETDE: 2002-06-13
- USE depth
- USE spatial distribution

**DEPTH DOSE DISTRIBUTIONS**

- UF depth doses
- \*BT1 spatial dose distributions
- RT buildup
- RT isodose curves
- RT phantoms
- RT radiotherapy
- RT range

**depth doses**

- USE depth dose distributions

**derby zpr neptune**

- USE neptune reactor

**DEREGULATION**

- INIS: 1985-12-10; ETDE: 1978-01-23
- RT economic policy
- RT economics
- RT government policies
- RT natural gas
- RT petroleum
- RT pricing regulations
- RT regulations
- RT us natural gas policy act

**DERIVATIZATION**

- INIS: 1992-04-27; ETDE: 1980-11-08
- Conversion of a chemical compound into a derivative, usually for the purpose of identification.*
- BT1 chemical reactions
- RT chemical analysis
- RT structural chemical analysis

**DERMATITIS**

- \*BT1 skin diseases
- NT1 radiodermatitis

**DESALINATION**

*Any process for making potable water from sea water or other saline waters.*

- \*BT1 demineralization
- RT desalination plants
- RT desalination reactors
- RT distillation
- RT dual-purpose power plants
- RT evaporators
- RT freezing out
- RT ion exchange
- RT salinity
- RT salts

- RT seawater

**DESALINATION PLANTS**

- INIS: 1986-04-03; ETDE: 1977-08-24
- BT1 industrial plants
- RT desalination
- RT desalination reactors
- RT dual-purpose power plants
- RT seawater

**DESALINATION REACTORS**

- BT1 reactors
- NT1 bn-350 reactor
- RT desalination
- RT desalination plants
- RT power reactors

**DESCALING**

- BT1 surface finishing
- RT scale control
- RT scaling
- RT scrubbing
- RT shot peening
- RT surface cleaning

**DESERTIFICATION**

- 2013-11-27
- RT deserts

**desertron**

- INIS: 1985-01-18; ETDE: 1984-03-06
- USE superconducting super collider

**DESERTS**

- BT1 arid lands
- RT climates
- RT desertification
- RT sand
- RT terrestrial ecosystems

**DESICCANTS**

- 1985-12-10
- RT dehumidifiers
- RT dehydration
- RT dryers
- RT drying
- RT resins
- RT zeolites

**DESIGN**

- 1991-10-08
- For conceptual design only; use of a more specific descriptor is recommended.*
- UF design reports
- NT1 computer-aided design
- NT1 reactor design
- RT diagrams
- RT engineering drawings
- RT feasibility studies
- RT planning
- RT specifications

**design (technical drawings)**

- ETDE: 2002-06-13
- USE diagrams

**design (technical specifications)**

- INIS: 1993-11-05; ETDE: 2002-06-13
- USE specifications

**design basis accidents**

- (Prior to March 2017 this was a valid descriptor.)
- USE design-basis accidents

**DESIGN-BASIS ACCIDENTS**

- 2017-03-14
- Accident conditions against which a nuclear power plant is designed according to established design criteria, and for which the damage to the fuel and the release of radioactive material are kept within*

authorized limits. Add relevant descriptors from REACTOR ACCIDENTS if appropriate. (Prior to March 2017 this descriptor was spelled DESIGN BASIS ACCIDENTS.)

UF design basis accidents  
 UF maximum credible accident  
 BT1 accidents  
 RT atws  
 RT reactor design

### design reports

2003-10-21  
 USE design  
 USE safety reports

### desiodothyroxine

USE thyronine

### desonox process

INIS: 2000-04-12; ETDE: 1990-05-15  
 USE combined soxnox processes

### desorex process

2000-04-12  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

### DESORPTION

BT1 sorption  
 RT adsorption  
 RT degassing  
 RT fission product release  
 RT thermal desorption spectroscopy

### desoxycorticosterone acetate

1996-10-23  
 (Prior to March 1997 DOCA was used for this concept in ETDE.)  
 USE mineralocorticoids

### desoxyribonucleic acid

USE dna

### destructive chemical analysis

INIS: 1976-10-07; ETDE: 2002-06-13  
 (Prior to December 1990, this concept was indexed by DESTRUCTIVE ANALYSIS which is no longer a valid descriptor.)  
 USE chemical analysis

### DESTRUCTIVE DISTILLATION

INIS: 2000-04-12; ETDE: 1975-10-28  
 \*BT1 decomposition  
 \*BT1 distillation  
 RT pyrolysis  
 RT retorting

### DESTRUCTIVE TESTING

\*BT1 materials testing  
 NT1 charpy test  
 RT impact tests  
 RT mechanical properties  
 RT post-irradiation examination

### destrugas process

INIS: 2000-04-12; ETDE: 1976-11-01  
 Gasification in complete absence of air with indirect heating of the pyrolysis chamber with char and pyrolysis gas (fuel gas) as the only products.  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 SEE waste processing

### DESULFOVIBRIO

INIS: 1993-06-08; ETDE: 1981-11-10  
 Genus of strict anaerobes which reduce sulfates to hydrogen sulfide.  
 \*BT1 sulfate-reducing bacteria

### DESULFURIZATION

UF ai aqueous carbonate process  
 UF alkazid process  
 UF ames wet oxidation process  
 UF amisol process  
 UF amoco cba process  
 UF amoco sulfur recovery process  
 UF aquaclaus process  
 UF aqueous carbonate process  
 UF as recycling process  
 UF atomics international aqueous carbonate process  
 UF bergbauforschung-foster wheeler process  
 UF bf-wf process  
 UF bom-erda process  
 UF carl still process  
 UF cat-ox process  
 UF catacarb carbon dioxide removal process  
 UF catacarb process  
 UF catalytic-ifp ammonia scrubbing process  
 UF cba process  
 UF chemico process  
 UF chemsweet process  
 UF citrex process  
 UF cleanair process  
 UF conoco process  
 UF czd process  
 UF davy s-h process  
 UF desorex process  
 UF diamox process  
 UF dowla process  
 UF ferrox process  
 UF fluor econamine process  
 UF fluor solvent process  
 UF fulham-simon-carves process  
 UF fumaks process  
 UF ge process  
 UF girdler-girbotol process  
 UF gravichem process  
 UF grillo process  
 UF haines process  
 UF hazen process  
 UF hipure process  
 UF hirohax process  
 UF hoelter process  
 UF ici process  
 UF ifp process  
 UF igt dehydrosulfurization process  
 UF ionics electrolytic regeneration process  
 UF jecco process  
 UF koppers vacuum carbonate process  
 UF kureha acetate process  
 UF kvb process  
 UF lucas process  
 UF magnex process  
 UF mining research method  
 UF molten carbonate process  
 UF petit process  
 UF phosphate process  
 UF pircon-peck process  
 UF pittsburgh oxydesulfurization process  
 UF purasiv s process  
 UF reinluft process  
 UF seaboard process  
 UF snpa-dea process  
 UF stauffer aquaclaus process  
 UF sulfox process  
 UF thylox process  
 UF topsoe-snpa process  
 UF tyco process  
 UF unicracking/hds process  
 UF westvaco process  
 SF syracuse chemical comminution process  
 SF townsend process

BT1 chemical reactions  
 NT1 adip process  
 NT1 alkali alumina process  
 NT1 ammonia-ammonium bisulfate process  
 NT1 battelle hydrothermal coal process  
 NT1 beavon process  
 NT1 benfield process  
 NT1 bergbauforschung process  
 NT1 cafb process  
 NT1 cea-adi dual alkali process  
 NT1 chiyoda thoroughbred process  
 NT1 citrate process  
 NT1 claus process  
 NT1 cng process  
 NT1 combined soxnox processes  
 NT2 noxso process  
 NT1 consol fgd process  
 NT1 fmc double alkali process  
 NT1 giammarco vetrocoke sulfur process  
 NT1 girbotol process  
 NT1 gravimelt process  
 NT1 gulf hds process  
 NT1 holmes-stretford process  
 NT1 jpl process  
 NT1 ledgemont process  
 NT1 lime-limestone wet scrubbing processes  
 NT2 bischoff process  
 NT1 magnesium slurry scrubbing process  
 NT1 meyers process  
 NT1 molecular sieve process  
 NT1 otto process  
 NT1 penelec process  
 NT1 perox process  
 NT1 purisol process  
 NT1 rectisol process  
 NT1 resox process  
 NT1 ric process  
 NT1 saarberg-holter process  
 NT1 scot process  
 NT1 selexol process  
 NT1 shell-uop copper oxide process  
 NT1 solinox process  
 NT1 sorbent injection processes  
 NT1 soxal process  
 NT1 stone and webster ionics process  
 NT1 stretford process  
 NT1 sulf-x process  
 NT1 sulfiban process  
 NT1 sulfinol process  
 NT1 sulfreen process  
 NT1 takahax process  
 NT1 thiosorbic process  
 NT1 trw process  
 NT1 ucap process  
 NT1 unisulf process  
 NT1 vacuum carbonate process  
 NT1 w-1 sulfur dioxide recovery process  
 NT1 walther process  
 RT air pollution abatement  
 RT catalytic hydrosolvation process  
 RT dry scrubbers  
 RT hot gas cleanup  
 RT rhodococcus  
 RT sulfate-reducing bacteria  
 RT sulfur-oxidizing bacteria  
 RT thiobacillus oxidans  
 RT us clean coal technology program  
 RT wet scrubbers

### DESY

Deutsches Elektronen Synchrotron.  
 UF hamburg synchrotron  
 \*BT1 synchrotrons

### DETAILED BALANCE PRINCIPLE

\*BT1 t invariance  
 RT cross sections  
 RT hamiltonians

RT nuclear reactions  
 RT s matrix  
 RT scattering

**DETECTION**

INIS: 1983-09-06; ETDE: 1979-03-28

NT1 boiling detection  
 NT1 crime detection  
 NT2 nuclear forensics  
 NT1 failed element detection  
 NT1 fuel motion detection  
 NT1 nuclear explosion detection  
 NT1 radiation detection  
 NT2 charged particle detection  
 NT3 acoustic detection  
 NT3 alpha detection  
 NT3 beta detection  
 NT3 electron detection  
 NT3 ion detection  
 NT3 muon detection  
 NT3 positron detection  
 NT3 proton detection  
 NT2 cosmic ray detection  
 NT2 fission fragment detection  
 NT2 gamma detection  
 NT2 kaon detection  
 NT2 neutrino detection  
 NT2 neutron detection  
 NT2 pion detection  
 NT2 x-ray detection  
 NT1 seismic detection  
 NT2 in-country detection  
 RT control  
 RT intrusion detection systems  
 RT monitoring  
 RT motion detection systems  
 RT nuclear materials diversion  
 RT nuclear materials management  
 RT safeguards

**detection (failed element)**

2000-04-12  
 USE failed element detection

**detection (nuclear explosions)**

2000-04-12  
 USE nuclear explosion detection

**detection (radiation)**

2000-04-12  
*For the detection of elementary particles and radiations refer to narrower terms to radiation detection.*  
 USE radiation detection

**detection (seismic)**

2000-04-12  
 USE seismic detection

**detection limits**

INIS: 1976-06-23; ETDE: 2002-06-13  
 USE sensitivity

**detectors (radiation)**

USE radiation detectors

**DETERGENTS**

SF chemicals  
 \*BT1 emulsifiers  
 \*BT1 wetting agents  
 NT1 pluronics  
 RT cleaning  
 RT decontamination  
 RT soaps  
 RT xenobiotics

**determination (chemical)**

ETDE: 2002-06-13  
 USE chemical analysis

**DETERMINISTIC ESTIMATION**

2003-12-17  
*Analytical technique for calculation of unknown quantities and the uncertainty associated with the deterministic estimates of those quantities.*

UF deterministic safety assessment  
 BT1 calculation methods  
 RT forecasting  
 RT probabilistic estimation  
 RT risk assessment  
 RT safety analysis

**deterministic safety assessment**

2003-12-17  
 USE deterministic estimation  
 USE risk assessment

**DETONATION LIMITS**

INIS: 2000-06-27; ETDE: 1977-01-28  
*Bounds on regions of stable detonation.*  
 RT chemical explosives

**DETONATION WAVES**

INIS: 1985-12-11; ETDE: 1976-08-25  
*Shock waves caused by release of chemical energy through chemical reactions.*  
 BT1 shock waves  
 RT combustion  
 RT combustion waves  
 RT explosions  
 RT ignition

**detonations**

(Prior to March 1996 this was a valid ETDE descriptor.)  
 USE explosions

**DETONATORS**

(From October 1979 till February 1997 FUSES was a valid ETDE descriptor.)  
 UF fuses (detonators)  
 UF fuzes  
 RT exploding wires  
 RT explosions

**DETOXIFICATION**

INIS: 1984-04-04; ETDE: 1981-03-16  
 RT biochemical reaction kinetics  
 RT decontamination  
 RT hazardous materials  
 RT toxic materials  
 RT toxicity  
 RT toxins

**DETRITUS**

INIS: 1993-06-03; ETDE: 1977-08-09  
*Loose material (as rock fragments or organic particles) that results directly from disintegration.*  
 RT biodegradation  
 RT environmental materials  
 RT sediments

**DETROIT RIVER**

2000-04-12  
 \*BT1 rivers  
 RT michigan

**deus**

INIS: 2000-04-12; ETDE: 1978-11-14  
*Dual energy use systems. Term similar to cogeneration, especially for methods using both heat and electric power when both are produced simultaneously and in significant quantities.*  
 (Prior to February 1997 this was a valid descriptor.)  
 USE cogeneration

**DEUTERATION**

BT1 chemical reactions

RT dehydrogenation  
 RT hydrogenation

**DEUTERIDES**

1986-03-04  
 \*BT1 deuterium compounds  
 NT1 hydrogen deuteride  
 NT1 lithium deuterides

**DEUTERIUM**

UF hydrogen 2  
 \*BT1 hydrogen isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 stable isotopes  
 RT deuterons  
 RT hydrogen deuteride  
 RT thermonuclear fuels

**DEUTERIUM COMPOUNDS**

1996-06-19  
 UF dto  
 BT1 hydrogen compounds  
 NT1 deuterides  
 NT2 hydrogen deuteride  
 NT2 lithium deuterides  
 NT1 deuterium tritide  
 NT1 heavy water

**deuterium hydride**

USE hydrogen deuteride

**DEUTERIUM IONS**

1996-03-04  
 \*BT1 ions  
 RT d-t operation

**deuterium moderated pile low energy**

1993-11-05  
 USE dimple reactor

**deuterium oxide**

INIS: 1976-10-07; ETDE: 1976-11-01  
 USE heavy water

**DEUTERIUM TARGET**

UF deuteron-deuteron interactions  
 UF deuteron target  
 UF lepton-deuteron interactions  
 UF meson-deuteron interactions  
 BT1 targets

**DEUTERIUM TRITIDE**

INIS: 1976-02-05; ETDE: 1979-05-31  
 \*BT1 deuterium compounds  
 \*BT1 tritides  
 RT muon-catalyzed fusion

**DEUTERON BEAMS**

\*BT1 ion beams  
 RT deuterons

**deuteron-deuteron interactions**

INIS: 2000-04-12; ETDE: 1979-09-06  
 USE deuterium target  
 USE deuteron reactions

**DEUTERON MICROPROBE ANALYSIS**

INIS: 1981-07-08; ETDE: 1981-08-04  
 BT1 microanalysis  
 \*BT1 nondestructive analysis  
 RT deuteron probes

**DEUTERON PROBES**

INIS: 1981-07-08; ETDE: 1981-08-04  
 BT1 probes  
 RT deuteron microprobe analysis  
 RT deuteron sources  
 RT ion probes

**DEUTERON REACTIONS**

UF deuteron-deuteron interactions

\*BT1 charged-particle reactions  
 NT1 antideuteron reactions

**DEUTERON SOURCES**

\*BT1 particle sources  
*RT* deuteron probes  
*RT* deuterons

**DEUTERON SPECTRA**

BT1 spectra  
*RT* deuterons

*deuteron target*

*ETDE: 2002-06-13*  
 USE deuterium target

**DEUTERONS**

*1999-03-01*  
 BT1 charged particles  
 NT1 antideuterons  
*RT* deuterium  
*RT* deuteron beams  
*RT* deuteron sources  
*RT* deuteron spectra

**DEVELOPED COUNTRIES**

*INIS: 1982-12-03; ETDE: 1978-03-03*  
*UF industrialized countries*  
 NT1 australia  
   NT2 new south wales  
   NT2 northern territory  
   NT2 queensland  
   NT2 south australia  
   NT2 tasmania  
   NT2 victoria  
   NT2 western australia  
 NT1 austria  
 NT1 belgium  
 NT1 canada  
   NT2 alberta  
   NT2 british columbia  
   NT2 manitoba  
   NT2 new brunswick  
   NT2 newfoundland  
   NT2 northwest territories  
   NT2 nova scotia  
   NT2 nunavut  
   NT2 ontario  
     NT3 chalk river  
     NT3 deep river  
     NT3 elliot lake  
   NT2 prince edward island  
   NT2 quebec  
   NT2 saskatchewan  
   NT2 yukon territory  
 NT1 denmark  
 NT1 federal republic of germany  
 NT1 finland  
 NT1 france  
   NT2 reunion island  
 NT1 holy see  
 NT1 ireland  
 NT1 italy  
   NT2 appennines  
   NT2 sicily  
 NT1 japan  
   NT2 hachimantai  
   NT2 hirosshima  
   NT2 nagasaki  
 NT1 luxembourg  
 NT1 monaco  
 NT1 netherlands  
 NT1 new zealand  
 NT1 norway  
 NT1 san marino  
 NT1 south africa  
   NT2 transvaal  
 NT1 sweden  
 NT1 switzerland  
 NT1 united kingdom  
 NT1 usa

NT2 alabama  
 NT2 alaska  
 NT2 american samoa  
 NT2 arizona  
 NT2 arkansas  
 NT2 california  
   NT3 brawley geothermal field  
   NT3 coso hot springs  
   NT3 los angeles  
 NT2 colorado  
   NT3 mahogany zone  
   NT3 sand wash basin  
 NT2 connecticut  
 NT2 delaware  
 NT2 florida  
   NT3 cape kennedy  
 NT2 georgia (u.s. state of)  
   NT3 atlanta  
 NT2 great basin  
 NT2 hawaii  
 NT2 idaho  
 NT2 illinois  
   NT3 chicago  
 NT2 indiana  
 NT2 iowa  
 NT2 kansas  
 NT2 kentucky  
 NT2 louisiana  
 NT2 maine  
 NT2 maryland  
 NT2 massachusetts  
 NT2 michigan  
 NT2 minnesota  
 NT2 mississippi  
 NT2 missouri  
 NT2 montana  
   NT3 powder river basin  
 NT2 nebraska  
 NT2 nevada  
   NT3 steamboat springs  
   NT3 tonopah test range  
 NT2 new hampshire  
 NT2 new jersey  
 NT2 new mexico  
   NT3 los alamos  
 NT2 new york  
   NT3 new york city  
 NT2 north carolina  
 NT2 north dakota  
 NT2 ohio  
   NT3 cleveland  
 NT2 oklahoma  
 NT2 oregon  
   NT3 mt hood  
 NT2 pennsylvania  
   NT3 pittsburgh  
 NT2 puerto rico  
 NT2 rhode island  
 NT2 south carolina  
 NT2 south dakota  
   NT3 table mountain area  
 NT2 tennessee  
   NT3 chattanooga  
   NT3 oak ridge  
 NT2 texas  
 NT2 us east coast  
 NT2 us gulf coast  
 NT2 us west coast  
 NT2 utah  
   NT3 roosevelt hot springs  
 NT2 vermont  
 NT2 virgin islands  
 NT2 virginia  
 NT2 washington  
   NT3 richland  
 NT2 washington dc  
 NT2 west virginia  
 NT2 wisconsin  
 NT2 wyoming

NT3 powder river basin  
 NT3 rock springs sites  
 NT3 washakie basin  
*RT* developing countries  
*RT* economic development  
*RT* oil-exporting countries  
*RT* technology utilization

**DEVELOPERS**

*1996-09-06*  
*UF amidol*  
*SF chemicals*  
 NT1 pyrocatechol  
 NT1 pyrogallol  
 NT1 resorcinol  
*RT* photography

**DEVELOPING COUNTRIES**

*INIS: 1997-06-05; ETDE: 1976-11-29*  
 NT1 afghanistan  
 NT1 albania  
 NT1 algeria  
 NT1 angola  
 NT1 argentina  
   NT2 mendoza  
 NT1 bahama islands  
 NT1 bahrain  
 NT1 bangladesh  
 NT1 belize  
 NT1 bhutan  
 NT1 bolivia  
   NT2 chacaltaya  
 NT1 botswana  
 NT1 brazil  
 NT1 bulgaria  
 NT1 burkina faso  
 NT1 burundi  
 NT1 cameroon  
 NT1 central african republic  
 NT1 chad  
 NT1 chile  
 NT1 colombia  
 NT1 congo peoples republic  
   NT2 brazzaville  
 NT1 costa rica  
 NT1 cote d'ivoire  
 NT1 cuba  
 NT1 czech republic  
 NT1 democratic republic of the congo  
   NT2 kinshasa  
 NT1 dominican republic  
 NT1 ecuador  
 NT1 egyptian arab republic  
 NT1 el salvador  
 NT1 eritrea  
 NT1 ethiopia  
 NT1 gabon  
 NT1 gambia  
 NT1 ghana  
 NT1 greece  
 NT1 guatemala  
 NT1 guayana  
 NT1 haiti  
 NT1 honduras  
 NT1 hungary  
 NT1 iceland  
 NT1 india  
 NT1 indonesia  
 NT1 iran  
 NT1 iraq  
 NT1 israel  
 NT1 jamaica  
 NT1 jordan  
 NT1 kazakhstan  
 NT1 kenya  
 NT1 kuwait  
 NT1 laos  
 NT1 lebanon  
 NT1 lesotho  
 NT1 liberia



NT1 libyan arab jamahiriya  
 NT1 madagascar  
 NT2 malagasy republic  
 NT1 malawi  
 NT1 malaysia  
 NT1 maldives  
 NT1 mali  
 NT1 mauritania  
 NT1 mauritius  
 NT1 mexico  
 NT1 montenegro  
 NT1 morocco  
 NT1 mozambique  
 NT1 myanmar  
 NT1 nepal  
 NT1 nicaragua  
 NT1 niger  
 NT1 nigeria  
 NT1 north korea  
 NT1 oman  
 NT1 pakistan  
 NT1 panama  
 NT1 paraguay  
 NT1 peru  
 NT1 philippines  
 NT1 poland  
 NT1 portugal  
 NT2 azores islands  
 NT1 qatar  
 NT1 republic of korea  
 NT1 republic of seychelles  
 NT1 romania  
 NT1 rwanda  
 NT1 saint lucia  
 NT1 saint vincent and the grenadines  
 NT1 samoa  
 NT1 saudi arabia  
 NT1 senegal  
 NT1 serbia  
 NT1 sierra leone  
 NT1 singapore  
 NT1 slovakia  
 NT1 solomon islands  
 NT1 somalia  
 NT1 spain  
 NT2 canary islands  
 NT1 sri lanka  
 NT1 sudan  
 NT1 surinam  
 NT1 swaziland  
 NT1 syria  
 NT1 thailand  
 NT1 the former yugoslav republic of macedonia  
 NT1 togo  
 NT1 tonga  
 NT1 tunisia  
 NT1 turkey  
 NT1 uganda  
 NT1 united republic of tanzania  
 NT1 uruguay  
 NT1 vanuatu  
 NT1 venezuela  
 NT1 viet nam  
 NT1 yemen  
 NT1 zambia  
 NT1 zimbabwe  
 NT2 southern rhodesia  
 RT developed countries  
 RT industry  
 RT input-output analysis  
 RT oil-exporting countries  
 RT oil-importing countries  
 RT rural energy centers  
 RT technology transfer

**devices**

1982-12-06

USE equipment

**DEVOLATILIZATION**

INIS: 1993-02-18; ETDE: 1978-02-14

RT volatile matter

RT volatility

**DEVONIAN PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

\*BT1 paleozoic era

**devonian shales**

INIS: 1992-07-22; ETDE: 1980-10-27

USE black shales

**DEW POINT**

INIS: 1976-10-07; ETDE: 1975-10-01

The temperature at which a vapor begins to condense.

\*BT1 transition temperature

RT humidity

RT phase transformations

RT vapor condensation

**dewar flasks**

INIS: 1985-07-18; ETDE: 1977-06-30

(Prior to August 1985 this was a valid descriptor.)

USE dewars

**DEWARS**

INIS: 1985-07-18; ETDE: 1976-08-24

(Prior to August 1985 DEWAR FLASKS was used.)

UF dewar flasks

BT1 containers

RT cryogenics

**dewatering**

INIS: 2000-04-12; ETDE: 1977-06-24

USE water removal

**DEWATERING EQUIPMENT**

INIS: 1994-06-27; ETDE: 1985-04-09

BT1 concentrators

RT dryers

RT water removal

**DEWAXING**

INIS: 2000-04-12; ETDE: 1975-10-01

UF paraffin removal

BT1 separation processes

RT refining

RT scrapers

RT waxes

**DEWINDTITE**

2000-04-12

\*BT1 uranium minerals

RT lead phosphates

RT uranium phosphates

**DEXAMETHASONE**

\*BT1 glucocorticoids

**DEXTRAN**

\*BT1 blood substitutes

\*BT1 polysaccharides

**DEXTRIN**

UF starch gum

\*BT1 polysaccharides

**dextro and levo optical isomers**

INIS: 2000-04-12; ETDE: 1976-02-23

USE enantiomorphs

**dextronic acid**

USE gluconic acid

**dfa**

USE deferroxamine

**dfr-350 reactor**

USE dfr reactor

**DFR REACTOR**

Permanent shutdown since 1977.

UF dfr-350 reactor

UF downreay fast reactor

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 lmfr type reactors

\*BT1 power reactors

**DHDECMP**

INIS: 1981-07-06; ETDE: 1980-06-23

Dihexyl-n, n-diethylcarbamylyl methylenephosphonate.

UF dihexyl-n,n-diethylcarbamylyl-methylene phosphonate

\*BT1 phosphonic acid esters

RT organic solvents

**dhr systems**

2018-08-30

USE rhr systems

**DHRUVA REACTOR**

INIS: 1986-03-04; ETDE: 1989-06-23

Bhabha Atomic Research Centre, Trombay, Maharashtra, India.

(This reactor was indexed as TROMBAY R-5 REACTOR by INIS prior to March 1986 and by ETDE prior to June 1989.)

UF trombay r-5 reactor

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

**di-(2-propyl) ether**

USE isopropyl ether

**di-2-ethylhexylphosphoric acid**

USE hdehp

**DIABASES**

INIS: 2000-04-12; ETDE: 1981-11-10

\*BT1 basalt

**DIABATIC APPROXIMATION**

\*BT1 approximations

RT adiabatic approximation

RT electron-promotion model

RT quantum mechanics

RT scattering

**DIABETES MELLITUS**

\*BT1 endocrine diseases

\*BT1 metabolic diseases

RT insulin

RT metabolism

**DIABLO CANYON-1 REACTOR**

Pacific Gas and Electric Co., Avila Beach, California, USA.

UF pacific gas diablo canyon-1 reactor

\*BT1 pwr type reactors

**DIABLO CANYON-2 REACTOR**

Pacific Gas and Electric Co., Avila Beach, California, USA.

UF pacific gas diablo canyon-2 reactor

\*BT1 pwr type reactors

**diacetylmorphine**

USE heroin

**DIAGENESIS**

Any change occurring within sediments subsequent to deposition and before complete lithification that alters the mineral content and physical properties of the sediments.

RT catagenesis

RT coalification  
 RT origin  
 RT petrogenesis  
 RT sediments

**DIAGNOSIS**

UF radiodiagnosis (radionuclides)  
 RT diagnostic techniques  
 RT diagnostic uses  
 RT labelled compounds  
 RT medical examinations  
 RT medicine  
 RT nuclear medicine  
 RT radiology  
 RT radiopharmaceuticals  
 RT scintiscanning  
 RT symptoms  
 RT tracer techniques

**DIAGNOSTIC TECHNIQUES**

NT1 autopsy  
 NT1 biomedical radiography  
 NT2 fluoroscopy  
 NT2 ionographic imaging  
 NT2 osteodensitometry  
 NT2 renography  
 NT1 biopsy  
 NT1 cardiography  
 NT2 radiocardiography  
 NT1 electroencephalography  
 NT1 nmr imaging  
 NT1 photon emission scanning  
 NT2 ecat scanning  
 NT1 photon transmission scanning  
 NT1 radioimmunodetection  
 NT2 radioimmunoassay  
 NT2 radioimmunoscintigraphy  
 NT1 scintiscanning  
 NT2 radioimmunoscintigraphy  
 NT1 tomography  
 NT2 compton scattering tomography  
 NT2 computerized tomography  
 NT3 cat scanning  
 NT3 emission computed tomography  
 NT4 ecat scanning  
 NT4 positron computed tomography  
 NT4 single photon emission computed tomography  
 NT3 photon computed tomography  
 NT3 proton computed tomography  
 NT2 grazing incidence tomography  
 NT1 ultrasonography  
 RT autoradiography  
 RT blood-plasma clearance  
 RT diagnosis  
 RT diagnostic uses  
 RT electrocardiograms  
 RT medicine  
 RT nuclear medicine  
 RT radioisotope generators  
 RT radiology  
 RT tracer techniques  
 RT x-ray equipment

**DIAGNOSTIC USES**

INIS: 1993-07-21; ETDE: 1978-08-07  
 For medical applications.

BT1 uses  
 RT clinical trials  
 RT diagnosis  
 RT diagnostic techniques  
 RT medicine

**diagnostics (fusion)**

INIS: 1998-10-28; ETDE: 1998-12-18  
 USE plasma diagnostics

**DIAGRAMS**

1996-01-24  
 FOR SIGNIFICANT DIAGRAMS, CHARTS,  
 GRAPHS, AND DRAWINGS ONLY.

UF charts  
 UF curves  
 UF design (technical drawings)  
 SF graphs  
 BT1 information  
 NT1 bragg curve  
 NT1 electrocardiograms  
 NT1 engineering drawings  
 NT1 fermi plot  
 NT1 feynman diagram  
 NT1 flowsheets  
 NT1 goldstone diagrams  
 NT1 hertzprung-russell diagram  
 NT1 mollier diagrams  
 NT1 nomograms  
 NT1 nyquist diagrams  
 NT1 optical depth curve  
 NT2 spectroscopic curve of growth  
 NT1 phase diagrams  
 NT1 s-n diagram  
 NT1 scatterplots  
 NT2 argand diagrams  
 NT2 dalitz plot  
 NT2 prism plot  
 NT1 sun charts  
 NT1 thermochemical diagrams  
 NT1 young diagram  
 RT computer graphics  
 RT computer-graphics devices  
 RT design  
 RT maps  
 RT pattern recognition

**DIAL PAINTERS**

BT1 personnel  
 RT luminous paints

**DIALYSIS**

BT1 separation processes  
 NT1 electro dialysis  
 RT colloids  
 RT diffusion  
 RT mass transfer  
 RT membranes  
 RT permeability  
 RT proteins

**DIAMAGNETISM**

BT1 magnetism  
 NT1 plasma diamagnetism  
 RT de haas-van alphen effect

**DIAMEX PROCESS**

INIS: 1998-06-30; ETDE: 1998-10-20  
 \*BT1 reprocessing  
 RT amides  
 RT solvent extraction

**diaminobiphenyl**

USE benzidine

**diaminocaproic acid**

USE lysine

**diaminocyclohexanetetraacetic acid**

1995-02-16  
 USE dcta

**diamond counters**

USE crystal counters

**diamond drilling equipment**

INIS: 2000-04-12; ETDE: 1977-08-09  
 USE drilling equipment

**DIAMONDS**

\*BT1 carbon

BT1 minerals

**diamox process**

INIS: 2000-04-12; ETDE: 1979-01-30  
 In this process, ammonia is used as absorbent and stripped hydrogen sulfide is fed to a Claus process.  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**diamyl sulfoxide**

USE dpso

**dianabol**

1996-10-23  
 (Until October 1996 this was a valid descriptor.)  
 USE androgens  
 USE hydroxy compounds  
 USE ketones

**diantipyrylmethane**

INIS: 1984-04-04; ETDE: 1984-05-10  
 USE pyrazolines

**DIAPHORASE**

INIS: 2000-04-03; ETDE: 1981-01-12  
 UF diaphorases  
 UF flavoprotein enzymes  
 \*BT1 isoalloxazines  
 \*BT1 oxidoreductases

**diaphorases**

2000-04-03  
 (Until July 1996 this was a valid descriptor.)  
 USE diaphorase

**DIAPHRAGM**

INIS: 1980-09-12; ETDE: 1980-10-07  
 Partition separating the chest and abdominal cavities.  
 BT1 muscles  
 \*BT1 organs  
 RT abdomen  
 RT chest  
 RT lungs  
 RT respiration

**diaphragms (thermonuclear device)**

2000-04-12  
 USE limiters

**DIARRHEA**

BT1 symptoms  
 RT constipation  
 RT digestive system diseases  
 RT enteritis  
 RT intestines

**DIATOMACEOUS EARTH**

1992-11-03  
 A white, yellow, or light gray siliceous earth composed predominantly of the opaline frustules of diatoms.  
 UF kieselguhr  
 RT adsorbents  
 RT diatoms  
 RT filters

**DIATOMS**

INIS: 1991-12-11; ETDE: 1976-05-13  
 Algae of the class Bacillariophyceae.  
 (Prior to January 1992, this was indexed by ALGAE and PLANKTON.)  
 \*BT1 chromophycota  
 RT diatomaceous earth  
 RT phytoplankton

**DIAZO COMPOUNDS**

\*BT1 organic nitrogen compounds  
 NT1 pyridylazonaphthol

**NT1** pyridylazoresorcinol  
**NT1** thorin  
*RT* azo dyes  
*RT* dyes

**DIAZOTIZATION**

*BT1* chemical reactions  
*RT* organic nitrogen compounds

**dibaryon resonances**

*INIS: 1987-12-21; ETDE: 1979-02-27*  
 (Prior to December 1987 this was a valid descriptor.)  
*USE* dibaryons

**DIBARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DIBARYON RESONANCES.)  
*UF* baryon number 2 resonances  
*UF* dibaryon resonances  
 \**BT1* baryons  
**NT1** dineutrons  
**NT1** diprotons  
**NT1** lambda-n-2130 dibaryons  
**NT1** nn-2170 dibaryons  
**NT1** nn-2250 dibaryons

**dibenzopyrroles**

*USE* carbazoles

**diborane**

*USE* boranes

**dibutyl ether**

*USE* butyl ether

**dibutyl phosphate**

*USE* dbp

**DICARBOXYLIC ACIDS**

*1996-07-18*  
*UF* beryllon  
*UF* dsnadns  
 \**BT1* carboxylic acids  
**NT1** adipic acid  
**NT1** fumaric acid  
**NT1** glutaric acid  
**NT1** itaconic acid  
**NT1** maleic acid  
**NT1** malonic acid  
**NT1** oxalic acid  
**NT1** phthalic acid  
**NT1** sebacic acid  
**NT1** succinic acid  
**NT1** terephthalic acid  
*RT* imides

**DICENTRIC CHROMOSOMES**

*UF* dicentrics  
*BT1* chromosomes  
*RT* chromosomal aberrations

**dicentrics**

*USE* dicentric chromosomes

**dichlorodiethylamine**

*USE* nitrogen mustard

**dichlorodiphenyltrichloroethane**

*USE* ddt

**dichloromethane**

*1982-02-09*  
*USE* methylene chloride

**DICHOISM**

**NT1** magnetic circular dichroism  
*RT* color  
*RT* optical properties

**DICHROMATES**

*INIS: 1983-10-14; ETDE: 1983-11-09*  
*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
 \**BT1* chromium compounds  
*BT1* oxygen compounds  
*RT* chromium oxides

**dicotyledons**

*INIS: 2000-04-12; ETDE: 1988-12-21*  
*USE* magnoliopsida

**DICTIONARIES**

*INIS: 1994-09-29; ETDE: 1976-11-01*  
*UF* glossaries  
*BT1* document types  
*RT* machine translations

**DICTYOCAULUS**

\**BT1* nematodes  
*BT1* parasites  
*RT* parasitic diseases  
*RT* sheep

**DICTYOPTERA**

*INIS: 1993-07-14; ETDE: 1981-06-16*  
 \**BT1* insects  
**NT1** cockroaches

**dictyosomes**

*INIS: 2000-04-12; ETDE: 1991-08-21*  
*USE* golgi complexes

**dicumarol**

*1996-07-18*  
 (Until July 1996 this was a valid descriptor.)  
*USE* anticoagulants

**DIDERICHITE**

*2000-04-12*  
 \**BT1* carbonate minerals  
 \**BT1* uranium minerals  
*RT* uranium carbonates

**dido-juelich reactor**

*USE* frj-2 reactor

**DIDO REACTOR**

*UKAEA, Harwell, United Kingdom.*  
*UF* ukaea-dido reactor  
 \**BT1* enriched uranium reactors  
 \**BT1* heavy water cooled reactors  
 \**BT1* heavy water moderated reactors  
 \**BT1* isotope production reactors  
 \**BT1* materials testing reactors  
 \**BT1* research reactors  
 \**BT1* tank type reactors  
 \**BT1* thermal reactors

**diel variations**

*INIS: 2000-04-12; ETDE: 1980-10-07*  
*USE* daily variations

**DIELDRIN**

\**BT1* insecticides

**DIELECTRIC AMPLIFIERS**

\**BT1* amplifiers

**dielectric constant**

*INIS: 1977-06-13; ETDE: 2002-06-13*  
*USE* permittivity

**DIELECTRIC MATERIALS**

*UF* dielectrics  
*UF* materials (dielectric)  
*BT1* materials  
**NT1** antiferroelectric materials  
**NT1** electrets  
**NT1** ferroelectric materials  
*RT* capacitors

*RT* dielectric properties  
*RT* dielectric tensor  
*RT* dielectric track detectors  
*RT* electrical insulation  
*RT* electrical insulators  
*RT* insulating oils  
*RT* lichtenberg figures  
*RT* mica  
*RT* natural rubber  
*RT* organic insulators  
*RT* paper  
*RT* potting  
*RT* potting materials  
*RT* ritad doseimeters  
*RT* rubbers  
*RT* varnishes

**DIELECTRIC PROPERTIES**

\**BT1* electrical properties  
**NT1** kerr effect  
**NT1** permittivity  
*RT* capacitance  
*RT* dielectric materials  
*RT* dielectric tensor  
*RT* insulating oils  
*RT* relaxation losses

**DIELECTRIC TENSOR**

*INIS: 1981-08-31; ETDE: 1981-09-22*  
*BT1* tensors  
*RT* dielectric materials  
*RT* dielectric properties

**DIELECTRIC TRACK DETECTORS**

*UF* track detectors (dielectric)  
 \**BT1* radiation detectors  
*RT* ceramics  
*RT* dielectric materials  
*RT* electron microscopy  
*RT* etching  
*RT* fission foil detectors  
*RT* glass  
*RT* latent images  
*RT* lithium fluorides  
*RT* luminescent doseimeters  
*RT* mica  
*RT* olivine  
*RT* particle tracks  
*RT* polymers  
*RT* tourmaline

**dielectrics**

*USE* dielectric materials

**DIELS-ALDER REACTION**

\**BT1* cyclization

**DIENES**

\**BT1* polyenes  
**NT1** allene  
**NT1** butadiene  
**NT1** cyclopentadiene  
**NT1** ferrocene  
**NT1** isoprene  
**NT1** pentadienes

**DIENG GEOTHERMAL FIELD**

*INIS: 2000-04-12; ETDE: 1983-04-28*  
*BT1* geothermal fields  
*RT* indonesia

**DIES**

*RT* casting  
*RT* casting molds  
*RT* extrusion  
*RT* forging  
*RT* pressing

**DIESEL ENGINES**

1990-12-06

(Prior to December 1990, this concept was indexed by DIESEL MOTORS.)

UF *diesel motors*

\*BT1 internal combustion engines

RT dual-fuel engines

RT fuel injection systems

**DIESEL FUELS**

1991-10-10

UF *diesel oil (fraction)*

\*BT1 gas oils

\*BT1 liquid fuels

RT biodiesel fuels

RT ethanol fuels

**diesel motors**

1990-12-06

(Prior to December 1990, this was a valid descriptor.)

USE diesel engines

**diesel oil (fraction)**

INIS: 1992-01-09; ETDE: 1976-03-11

USE diesel fuels

**DIET**

RT animal feeds

RT beverages

RT drinking water

RT fasting

RT feeding

RT food

RT food additives

RT food chains

RT icrp critical group

RT ingestion

RT mass rearing

RT nutrients

RT nutrition

RT nutritional deficiency

RT rearing

RT therapy

RT vitamins

**diethyl ether**

USE ethyl ether

**diethyldithiocarbamates**

USE dedtc

**diethylenetriaminepentaacetic acid**

1995-02-16

USE dtpa

**DIFFERENTIAL CALCULUS**UF *calculus (differential)*

BT1 mathematics

RT differential geometry

**DIFFERENTIAL CROSS SECTIONS**

BT1 cross sections

NT1 excitation functions

RT angular distribution

**DIFFERENTIAL EQUATIONS**UF *canonical equations*UF *equations (differential)*

BT1 equations

NT1 bbgky equation

NT1 chapman-kolmogorov equation

NT1 dirac-hestenes equation

NT1 evolution equations

NT1 hill equation

NT1 joos-weinberg equation

NT1 mathieu equation

NT1 partial differential equations

NT2 boltzmann equation

NT2 boltzmann-vlasov equation

NT3 plasma fluid equations

NT2 continuity equations

NT2 diffusion equations

NT3 neutron diffusion equation

NT2 equations of motion

NT2 fokker-planck equation

NT2 fourier heat equation

NT2 grad-shafranov equation

NT2 hamilton-jacobi equations

NT2 korteweg-de vries equation

NT2 lagrange equations

NT2 laplace equation

NT2 maxwell equations

NT2 navier-stokes equations

NT2 poisson equation

NT2 proca equations

NT2 wave equations

NT3 dirac equation

NT4 dirac spinors

NT3 klein-gordon equation

NT3 majorana equation

NT3 schrodinger equation

NT1 riccati equation

NT1 schwinger functional equations

NT1 sturm-liouville equation

RT airy functions

RT analytical solution

RT bifurcation

RT boundary conditions

RT boundary-value problems

RT cluster expansion

RT control theory

RT dirichlet problem

RT finite difference method

RT finite element method

RT floquet function

RT green function

RT integral equations

RT limit cycle

RT lyapunov method

RT mathematics

RT recursion relations

RT riemann function

RT runge-kutta method

**DIFFERENTIAL GEOMETRY**

1983-03-15

\*BT1 geometry

RT differential calculus

RT mathematical space

**DIFFERENTIAL OPERATORS**

2018-02-16

BT1 mathematical operators

RT dynamical systems

**DIFFERENTIAL PAC**UF *perturbed angular correlation (differential)*

\*BT1 perturbed angular correlation

RT time dependence

**DIFFERENTIAL THERMAL ANALYSIS**UF *dta*

BT1 thermal analysis

RT transition heat

**DIFFERENTIAL TOPOLOGY**

\*BT1 topology

RT mapping fibration

RT smooth manifolds

RT topological foliation

**DIFFRACTION**

\*BT1 coherent scattering

NT1 atomic beam diffraction

NT1 diffuse scattering

NT1 electron diffraction

NT1 neutron diffraction

NT1 x-ray diffraction

RT debye-waller factor

RT diffraction gratings

RT diffractometers

RT gamma diffractometers

RT gratings

RT optical dispersion

RT optical properties

**diffraction (electron)**

2000-04-12

USE electron diffraction

**diffraction (neutron)**

2000-04-12

USE neutron diffraction

**diffraction (x-ray)**

2000-04-12

USE x-ray diffraction

**diffraction dissociation**

USE diffraction models

**DIFFRACTION GRATINGS**

INIS: 1984-01-18; ETDE: 1984-02-10

(Prior to November 1989 this concept in ETDE was indexed by GRATINGS.)

UF *echelle gratings*UF *echelon gratings*

RT diffraction

RT diffractometers

RT optical systems

RT spectrometers

RT x-ray equipment

**DIFFRACTION METHODS**

NT1 debye-scherrer method

NT1 laue method

NT1 rotating crystal method

RT crystal lattices

RT crystallography

RT patterson method

RT schulz method

RT x-ray diffractometers

**DIFFRACTION MODELS**UF *diffraction dissociation*UF *diffraction production*

\*BT1 particle models

**diffraction production**

USE diffraction models

**diffraction dissociation**

INIS: 1975-10-23; ETDE: 2002-06-13

*In high-energy hadron collisions.*

USE multiperipheral model

USE particle production

**DIFFRACTOMETERS**

BT1 measuring instruments

NT1 gamma diffractometers

NT1 neutron diffractometers

NT1 x-ray diffractometers

RT diffraction

RT diffraction gratings

**DIFFUSE SCATTERING**

2002-11-21

*Broad diffraction spread in reciprocal space indicated by halos or streaks that appear around intense Bragg reflections.*

\*BT1 diffraction

RT bragg reflection

RT elastic scattering

RT electron diffraction

RT incoherent scattering

RT neutron diffraction

RT x-ray diffraction

**DIFFUSE SOLAR RADIATION**

*INIS: 1992-07-06; ETDE: 1979-10-23*  
*Solar radiation that has been scattered or reflected in traversal of the atmosphere.*

- \*BT1 solar flux
- \*BT1 solar radiation
- RT direct solar radiation
- RT insolation
- RT light scattering

**DIFFUSER AUGMENTED TURBINES**

*INIS: 2000-04-12; ETDE: 1977-06-02*  
*Horizontal axis turbines enclosed in shroud of duct to create venturi effect.*

- \*BT1 wind turbines
- RT horizontal axis turbines

**DIFFUSERS**

*INIS: 2000-04-12; ETDE: 1977-11-29*  
*Ducts, chambers, or sections in which a high-velocity, low-pressure stream of fluid is converted into a low-velocity, high-pressure flow.*

- RT baffles
- RT ducts
- RT fluid flow
- RT mhd channels
- RT pipes

**DIFFUSION**

- UF effusion
- NT1 ambipolar diffusion
- NT1 gaseous diffusion
- NT1 osmosis
- NT1 self-diffusion
- NT1 thermal diffusion
- RT advection
- RT atom transport
- RT dialysis
- RT donnan theory
- RT fick laws
- RT kirkendall effect
- RT leaching
- RT mass transfer
- RT mean free path
- RT membrane transport
- RT mixing
- RT particle resuspension
- RT prandtl number
- RT radionuclide migration
- RT sinks
- RT turbulence

**diffusion area**

- USE diffusion length

**DIFFUSION BARRIERS**

*1975-11-07*  
*Porous barriers through which gaseous mixtures are passed for enrichment of the lighter-molecular-weight constituent of the diffusate; used as a many-stage cascade system for the separation of uranium 235 from uranium 238 in uranium hexafluoride.*

- SF barriers
- RT gaseous diffusion plants
- RT gaseous diffusion process

**DIFFUSION CHAMBERS**

- \*BT1 cloud chambers
- RT aerosols

**DIFFUSION COATING**

*The process.*

- UF calorizing
- UF chromizing
- UF sherardizing
- UF siliconizing
- \*BT1 surface coating
- RT diffusion coatings

**DIFFUSION COATINGS**

- BT1 coatings
- RT diffusion coating

**DIFFUSION EQUATIONS**

*INIS: 2003-07-24; ETDE: 2003-09-02*

- \*BT1 partial differential equations
- NT1 neutron diffusion equation
- RT laplacian

**DIFFUSION LENGTH**

*1999-07-20*

- UF diffusion area
- \*BT1 length
- RT migration length

**DIFFUSION MONTE CARLO METHOD**

*2018-03-01*

- \*BT1 quantum monte carlo method

**DIFFUSION WELDING**

- \*BT1 welding

**digallic acid**

- USE tannic acid

**digester gas**

*INIS: 2000-04-12; ETDE: 1984-10-24*

- USE methane

**DIGESTION**

- NT1 aerobic digestion
- NT1 anaerobic digestion
- NT2 biogas process
- NT1 intracellular digestion
- RT amylase
- RT assimilation
- RT chymotrypsin
- RT digestive system
- RT enzymes
- RT gastric acid
- RT ingestion
- RT intestinal absorption
- RT pepsin
- RT physiology
- RT trypsin

**DIGESTIVE SYSTEM**

- NT1 biliary tract
- NT1 esophagus
- NT1 gastrointestinal tract
- NT2 intestines
- NT3 large intestine
- NT4 rectum
- NT3 small intestine
- NT2 stomach
- NT1 liver
- NT1 oral cavity
- NT2 teeth
- NT2 tongue
- NT1 pancreas
- NT1 pharynx
- RT anorexia
- RT digestion
- RT digestive system diseases
- RT organs

**DIGESTIVE SYSTEM DISEASES**

- BT1 diseases
- NT1 enteritis
- NT1 hepatitis
- NT2 infectious hepatitis
- NT1 liver cirrhosis
- NT1 peritonitis
- NT1 proctitis
- RT anorexia
- RT constipation
- RT diarrhea
- RT digestive system
- RT gastrectomy

- RT hepatectomy
- RT nausea
- RT vomiting

**DIGITAL CIRCUITS**

- UF coding circuits
- BT1 electronic circuits
- RT sequential circuits

**DIGITAL COMPUTERS**

*1996-11-13*

(CII COMPUTERS and PARAMETER COMPUTERS have been valid ETDE descriptors.)

- UF cii computers
- UF data processors
- UF parameter computers
- BT1 computers
- NT1 array processors
- NT1 calculators
- NT1 fault tolerant computers
- NT1 microcomputers
- NT2 personal computers
- NT1 supercomputers

**DIGITAL FILTERS**

*INIS: 1986-03-04; ETDE: 1977-07-23*

*Computational means of attenuating undesired frequencies in a set of time-dependent data.*

- RT array processors
- RT data processing
- RT digital frequency analysis
- RT frequency analysis
- RT image processing

**DIGITAL FREQUENCY ANALYSIS**

*INIS: 2000-04-12; ETDE: 1977-07-23*

*Computational procedure for estimating frequency content for set of time-dependent data.*

- BT1 frequency analysis
- RT data processing
- RT digital filters
- RT mathematical operators

**DIGITAL SYSTEMS**

- RT analog-to-digital converters
- RT computer architecture
- RT computers
- RT digital-to-analog converters
- RT electronic circuits
- RT electronic equipment
- RT time-to-digital converters

**DIGITAL-TO-ANALOG CONVERTERS**

- UF converters (digital-analog)
- \*BT1 electronic equipment
- RT analog systems
- RT digital systems

**DIGITALIS**

- \*BT1 magnoliopsida
- \*BT1 medicinal plants

**DIGITALIS GLYCOSIDES**

*2000-03-27*

- \*BT1 cardiac glycosides
- NT1 digitoxin
- NT1 digoxin

**DIGITIZERS**

*Devices for converting non-digital information into digits.*

- \*BT1 signal conditioners
- NT1 cathode ray tube digitizers
- NT1 flying spot digitizers
- NT1 scanning measuring projectors
- NT1 spiral reader digitizers
- RT analog-to-digital converters
- RT bubble chambers

RT data processing  
 RT electronic equipment  
 RT image scanners  
 RT on-line measurement systems  
 RT signal conditioning  
 RT spark chambers  
 RT time-to-digital converters  
 RT video tapes

**DIGITOXIN**

\*BT1 digitalis glycosides  
 RT digoxin

**diglycol monoalkyl ethers**

1996-06-26

(Prior to June 1996 CARBITOLS was a valid ETDE descriptor.)

USE ethers  
 USE glycols  
 USE organic solvents

**DIGOXIN**

UF lanoxin  
 \*BT1 digitalis glycosides  
 RT digitoxin

**dihexyl-n,n-diethylcarbamylo-methylenephosphonate**

INIS: 2000-04-12; ETDE: 1980-06-23

USE dhdecmp

**dihydroxyaromatics**

USE polyphenols

**dihydroxybenzene-meta**

USE resorcinol

**dihydroxybenzene-ortho**

USE pyrocatechol

**dihydroxypropionic acid**

USE glyceric acid

**dihydroxysuccinic acid**

USE tartaric acid

**diii-d**

1998-08-28

USE doublet-3 device

**DIODOTHYRONINE**

1983-09-06

\*BT1 thyroid hormones  
 RT thyronine  
 RT triiodothyronine

**DIODOTYROSINE**

\*BT1 amino acids  
 \*BT1 hydroxy acids  
 \*BT1 organic iodine compounds  
 RT tyrosine

**diisoamyl methylphosphonate**

USE dampa

**diisopentyl methylphosphonate**

USE dampa

**diisopropyl ether**

USE isopropyl ether

**dikes**

INIS: 2000-04-12; ETDE: 1980-12-08

Vertical tabular bodies of rock that fill fissures in host rock. Use the descriptor below (or geologic formations, if more appropriate). (Prior to February 1997 this was a valid ETDE descriptor.)

USE geologic structures

**DILATANCY**

INIS: 1999-05-14; ETDE: 1982-11-08  
 The increase in volume during application of differential stresses to a noncompacting material.

BT1 mechanical properties  
 RT compressibility  
 RT deformation  
 RT rock mechanics  
 RT stresses  
 RT volume

**DILATINOS**

2013-11-07

\*BT1 sparticles  
 RT dilatons

**DILATOMETRY**

BT1 thermal analysis  
 RT extensometers  
 RT shrinkage  
 RT thermal expansion

**DILATONS**

2013-10-24

\*BT1 postulated particles  
 RT dilatons  
 RT kaluza-klein theory  
 RT string models

**diluents**

INIS: 1975-10-23; ETDE: 2002-06-13

USE solvents

**DILUTE ALLOYS**

BT1 alloys

**DILUTION**

RT isotope dilution  
 RT solutions

**dimensional compactification**

INIS: 1985-10-23; ETDE: 2002-06-13

USE compactification

**DIMENSIONLESS NUMBERS**

INIS: 2005-06-08; ETDE: 2005-05-26

Numbers with no associated unit of measure such as grams or meters; often the ratio of two numbers with the same unit of measure.

NT1 aspect ratio  
 NT1 axial ratio  
 NT1 beta ratio  
 NT1 branching ratio  
 NT1 capture-to-fission ratio  
 NT1 compression ratio  
 NT1 concentration ratio  
 NT1 conversion ratio  
 NT2 breeding ratio  
 NT1 demand factors  
 NT1 disadvantage factor  
 NT1 dissipation factor  
 NT1 fano factor  
 NT1 fast fission factor  
 NT1 fill factors  
 NT1 fission ratio  
 NT1 form factors  
 NT2 dirac form factors  
 NT2 electromagnetic form factors  
 NT2 pauli form factors  
 NT1 friction factor  
 NT1 froude number  
 NT1 fuel-air ratio  
 NT1 grashof number  
 NT1 hartmann number  
 NT1 hot channel factor  
 NT1 hot spot factor  
 NT1 isomer ratio  
 NT1 isotope ratio  
 NT1 lande factor  
 NT1 lewis number

NT1 mach number  
 NT1 minus-plus ratio  
 NT1 mirror ratio  
 NT1 mixing ratio  
 NT1 moderating ratio  
 NT1 moderator-fuel ratio  
 NT1 multiplication factors  
 NT1 nusselt number  
 NT1 order parameters  
 NT1 oxygen enhancement ratio  
 NT1 panofsky ratio  
 NT1 poisson ratio  
 NT1 polarization-asymmetry ratio  
 NT1 power factor  
 NT1 prandtl number  
 NT1 quality factor  
 NT1 rayleigh number  
 NT1 reynolds number  
 NT2 magnetic reynolds number  
 NT1 richardson number  
 NT1 sex ratio  
 NT1 signal-to-noise ratio  
 NT1 slip ratio  
 NT1 sommerfeld constant  
 NT1 spectroscopic factors  
 NT1 stokes number  
 NT1 structure factors  
 NT1 thermal fission factor  
 NT1 wolfenstein parameters

**DIMENSIONS**

NT1 depth  
 NT2 depth 1-3 km  
 NT2 depth 3-6 km  
 NT2 depth 6-9 km  
 NT2 depth 9-12 km  
 NT1 height  
 NT2 scale height  
 NT2 virtual height  
 NT1 length  
 NT2 bond lengths  
 NT2 coherence length  
 NT2 debye length  
 NT2 diffusion length  
 NT2 elementary length  
 NT2 extrapolation length  
 NT2 migration length  
 NT2 radiation length  
 NT2 scattering lengths  
 NT2 slowing-down length  
 NT1 thickness  
 NT1 width  
 RT amplitudes  
 RT compactification  
 RT distance  
 RT shape  
 RT size  
 RT tolerance  
 RT topology  
 RT volume

**DIMERCAPROL**

ETDE: 2005-02-01

(Prior to January 2005 BAL was used for this concept.)

UF bal (british anti-lewisite)  
 UF british anti-lewisite  
 UF dimercaptopropanol  
 BT1 chelating agents  
 \*BT1 dithiols  
 \*BT1 radioprotective substances  
 RT unithiol

**dimercptoethane**

USE dithiols

**dimercaptopropanol**

USE dimercaprol

**DIMERIZATION**

\*BT1 polymerization

**DIMERS**

NT1 pyrimidine dimers  
RT monomers  
RT polymers

**dimethoxymethane**

2002-06-07

USE methylal

**dimethyl ether**

INIS: 1976-07-30; ETDE: 2002-06-13

USE methyl ether

**dimethyl ketone**

USE acetone

**DIMETHYL SULFIDE**

1992-01-07

UF dimethylsulfide

\*BT1 organic sulfur compounds

\*BT1 sulfides

**dimethyl sulfoxide**

USE dmsO

**DIMETHYLBENZANTHRACENE**

INIS: 1980-05-14; ETDE: 1979-07-18

UF dmba

\*BT1 polycyclic aromatic hydrocarbons

RT carcinogens

RT neoplasms

**dimethylbenzenes**

USE xylenes

**DIMETHYLFORMAMIDE**

2018-01-24

UF dmf

\*BT1 amides

RT organic solvents

**DIMETHYLGLYOXIME**

\*BT1 oximes

BT1 reagents

**dimethylphenols**

2000-04-12

USE xylenols

**dimethylpropane (2,2-)**

ETDE: 2002-06-13

USE 2-2-dimethylpropane

**dimethylpropionic acid**

USE pivalic acid

**dimethylsulfide**

1992-01-07

USE dimethyl sulfide

**DIMPLE REACTOR**

Uncooled, variably fueled reactor. UKAEA, Winfrith, United Kingdom.

UF deuterium moderated pile low energy

\*BT1 heavy water moderated reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 zero power reactors

**DINEUTRONS**

1978-01-16

\*BT1 dibaryons

\*BT1 polyneutrons

**dining car event**

INIS: 1994-10-14; ETDE: 1975-11-11

A test made during project bedrock.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**dining halls**

INIS: 2000-04-12; ETDE: 1981-01-09

USE restaurants

**DINITROPHENOL**

UF dnp

\*BT1 nitro compounds

\*BT1 phenols

RT nitrophenol

**dinitrosoresorcinol**

INIS: 2000-04-12; ETDE: 1981-07-18

USE nitroso compounds

**DINOFLAGELLATE**

INIS: 1980-09-12; ETDE: 1980-10-07

\*BT1 mastigophora

**DIODE-PUMPED SOLID STATE LASERS**

INIS: 1996-04-17; ETDE: 1997-05-08

\*BT1 solid state lasers

RT icf devices

**diode transistors**

ETDE: 1975-09-11

USE transistors

**DIODE TUBES**

BT1 electron tubes

NT1 thermionic diodes

**diodes (semiconductor)**

USE semiconductor diodes

**diodrast**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE contrast media

USE heterocyclic acids

USE organic iodine compounds

USE pyridines

**diols**

USE glycols

**DIOPSIDE**

INIS: 2000-04-12; ETDE: 1976-01-07

A mineral of the clinopyroxene group.

\*BT1 silicate minerals

**DIORIT REACTOR**

Eidgenoessisches Institut fuer

Reaktorforschung, Wuerenlingen, Switzerland.

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 mixed spectrum reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

**DIORITES**

INIS: 2000-04-12; ETDE: 1980-08-12

\*BT1 plutonic rocks

**DIOXANE**

UF 1,4-dioxane

UF dioxethylene ether

\*BT1 heterocyclic compounds

\*BT1 organic oxygen compounds

**DIOXIN**

INIS: 1987-02-25; ETDE: 1980-03-29

\*BT1 heterocyclic compounds

\*BT1 organic oxygen compounds

RT preservatives

**dioxyethylene ether**

USE dioxane

**DIP COATING**

\*BT1 surface coating

NT1 hot dipping

RT dipped coatings

**dip logging**

INIS: 2000-04-12; ETDE: 1976-08-25

USE dipmeter logging

**dipentyl sulfoxide**

USE dpso

**diphenyl ketone**

USE benzophenone

**diphenylacetylene**

2017-04-21

USE tolan

**diphenylcarbazides**

USE dpca

**diphenylcarbazones**

1996-10-23

(Until October 1996 this was a valid

descriptor.)

USE carbazones

**diphenylcarbinol**

USE benzhydrol

**diphenylethane (1,2-)**

ETDE: 2002-06-13

USE bibenzyl

**diphenylglycolic acid**

USE benzilic acid

**diphenylmethanol**

USE benzhydrol

**diphenylphosphine oxide**

USE organic phosphorus compounds

**diphenylpicrylhydrazyl**

USE dpsh

**diphenylthiocarbazon**

USE dithizone

**diphosphodihydropyridine nucleotide**

INIS: 1995-02-16; ETDE: 1976-05-17

USE nadh2

**DIPHTHERIA**

\*BT1 bacterial diseases

**diplococcus pneumoniae**

USE pneumococcus

**DIPLOIDY**

BT1 ploidy

**DIPMETER LOGGING**

INIS: 2000-04-12; ETDE: 1976-08-24

UF dip logging

BT1 well logging

**DIPOLE MOMENTS**

NT1 electric dipole moments

NT1 magnetic dipole moments

RT dipoles

**DIPOL**

BT1 multipoles

NT1 electric dipoles

NT1 magnetic dipoles

RT dipole moments

RT polar compounds

RT relaxation losses

**DIPPED COATINGS**

BT1 coatings

RT dip coating

**DIPROTONS**

- \*BT1 dibaryons
- \*BT1 protons
- RT helium 2

**DIPTERA**

INIS: 1993-07-14; ETDE: 1981-06-16

- \*BT1 insects
- NT1 flies
  - NT2 fruit flies
    - NT3 anastrepha
    - NT3 ceratitis capitata
    - NT3 dacus
      - NT4 dacus oleae
    - NT3 drosophila
  - NT2 glossina
  - NT2 hylemya antiqua
  - NT2 screwworm fly
- NT1 mosquitoes

**DIPYRIDAMOLE**

INIS: 1992-08-06; ETDE: 1992-09-10

- \*BT1 piperidines
- \*BT1 vasodilators

**DIRAC APPROXIMATION**

- \*BT1 approximations
- RT quantum mechanics

**DIRAC COSMOLOGY**

- BT1 cosmology

*dirac delta function*

- USE delta function

**DIRAC EQUATION**

- \*BT1 field equations
- \*BT1 wave equations
- NT1 dirac spinors
- RT dirac operators
- RT electrons
- RT foldy-wouthuysen transform
- RT joos-weinberg equation
- RT majorana equation
- RT quantum electrodynamics
- RT schrodinger equation
- RT special relativity theory

**DIRAC FORM FACTORS**

- \*BT1 form factors

**DIRAC-HESTENES EQUATION**

- \*BT1 differential equations

*dirac matrices*

- USE dirac operators

*dirac monopoles*

- USE magnetic monopoles

**DIRAC OPERATORS**

- UF dirac matrices
- \*BT1 quantum operators
- RT dirac equation
- RT quantum electrodynamics

**DIRAC SPINORS**

2016-05-10

- \*BT1 dirac equation
- BT1 spinors

**DIRECT COLLECTION CONVERTERS**

- UF radioelectric cells
- BT1 direct energy converters
- NT1 betavoltaic cells
- RT radioisotope batteries

**DIRECT CONTACT HEAT EXCHANGERS**

INIS: 2000-04-12; ETDE: 1977-12-22

- BT1 heat exchangers

**DIRECT CURRENT**

- UF current (direct)
- \*BT1 electric currents
- RT homopolar generators

**DIRECT CYCLE COOLING SYSTEMS**

- \*BT1 reactor cooling systems

**DIRECT DRIVE ICF**

1999-09-15

*Inertial confinement fusion in which the driver energy is directly absorbed by the target capsule.*

- RT direct drive laser implosion
- RT inertial confinement

**DIRECT DRIVE LASER IMPLOSION**

INIS: 1995-07-21; ETDE: 1992-06-11

*Laser implosion where the driver energy is directly absorbed by the target capsule.*

- \*BT1 laser implosions
- RT direct drive icf
- RT indirect drive laser implosion
- RT inertial fusion drivers
- RT laser fusion reactors
- RT laser-produced plasma
- RT laser-radiation heating
- RT laser targets
- RT pulsed fusion reactors

**DIRECT ENERGY CONVERSION**

- \*BT1 energy conversion
- NT1 photovoltaic conversion
- NT1 thermionic conversion
- NT1 thermoelectric conversion
- NT1 thermomagnetic conversion
- NT1 thermophotovoltaic conversion
- RT direct energy converters
- RT electrohydrodynamics
- RT magnetohydrodynamics

**DIRECT ENERGY CONVERTERS**

- NT1 direct collection converters
  - NT2 betavoltaic cells
- NT1 efd wind generators
- NT1 ehd generators
- NT1 ferroelectric converters
- NT1 fuel cells
  - NT2 acid electrolyte fuel cells
  - NT2 alcohol fuel cells
    - NT3 direct ethanol fuel cells
    - NT3 direct methanol fuel cells
  - NT2 alkaline electrolyte fuel cells
  - NT2 ammonia fuel cells
  - NT2 biochemical fuel cells
  - NT2 coal fuel cells
  - NT2 formaldehyde fuel cells
  - NT2 formate fuel cells
  - NT2 formic acid fuel cells
  - NT2 high-temperature fuel cells
    - NT3 molten carbonate fuel cells
    - NT3 solid oxide fuel cells
  - NT2 hydrazine fuel cells
  - NT2 hydrocarbon fuel cells
  - NT2 hydrogen fuel cells
  - NT2 natural gas fuel cells
  - NT2 regenerative fuel cells
    - NT3 redox fuel cells
  - NT2 solid electrolyte fuel cells
    - NT3 proton exchange membrane fuel cells
    - NT3 solid oxide fuel cells
- NT1 mhd generators
  - NT2 closed-cycle mhd generators
    - NT3 liquid-metal mhd generators
  - NT2 coal-fired mhd generators
    - NT3 mhd generator cdif
    - NT3 mhd generator cfff
    - NT3 mhd generator etf

- NT3 mhd generator utsi
- NT2 disk mhd generators
- NT2 mhd generator aedc
- NT2 mhd generator aerl mark vi
- NT2 mhd generator aerl mark vii
- NT2 mhd generator u-02
- NT2 mhd generator u-25
- NT2 open-cycle mhd generators
- NT2 pulsed mhd generators
- NT1 photoelectric cells
- NT2 photoconductive cells
- NT2 photovoltaic cells
  - NT3 solar cells
    - NT4 aluminium arsenide solar cells
    - NT4 back contact solar cells
    - NT4 cadmium arsenide solar cells
    - NT4 cadmium selenide solar cells
    - NT4 cadmium sulfide solar cells
    - NT4 cadmium telluride solar cells
    - NT4 cascade solar cells
    - NT4 concentrator solar cells
    - NT4 copper oxide solar cells
    - NT4 copper selenide solar cells
    - NT4 copper sulfide solar cells
    - NT4 gallium arsenide solar cells
    - NT4 gallium phosphide solar cells
    - NT4 indium phosphide solar cells
    - NT4 indium selenide solar cells
    - NT4 mi solar cells
    - NT4 mis solar cells
    - NT4 mos solar cells
    - NT4 ms solar cells
    - NT4 organic solar cells
    - NT4 pis solar cells
    - NT4 ps solar cells
    - NT4 schottky barrier solar cells
    - NT4 selenium solar cells
    - NT4 silicon arsenide solar cells
    - NT4 silicon solar cells
      - NT5 soc solar cells
    - NT4 zinc phosphide solar cells
    - NT4 zinc sulfide solar cells
- NT1 radioisotope batteries
  - NT2 snap batteries
    - NT3 snap 19 battery
    - NT3 snap 27 battery
    - NT3 snap 9 battery
  - NT1 thermionic converters
  - NT1 thermoelectric generators
  - NT1 thermoelectric heaters
  - NT1 thermoelectric refrigerators
  - NT1 thermophotovoltaic converters
  - RT direct energy conversion
  - RT power supplies

**DIRECT ETHANOL FUEL CELLS**

2006-08-30

- \*BT1 alcohol fuel cells

**DIRECT GAIN SYSTEMS**

INIS: 2000-04-12; ETDE: 1980-09-04

(Prior to September 1980 HEAT GAIN was used to index this concept in ETDE.)

- \*BT1 passive solar heating systems
- RT heat gain

**DIRECT INJECTION ENGINES**

2004-08-26

- \*BT1 internal combustion engines

**DIRECT METHANOL FUEL CELLS**

INIS: 2000-04-12; ETDE: 1999-09-09

- \*BT1 alcohol fuel cells
- RT proton exchange membrane fuel cells

**DIRECT REACTIONS**

- BT1 nuclear reactions
- NT1 knock-on reactions
- NT1 knock-out reactions
- NT1 quasi-free reactions
  - NT2 quasi-elastic scattering



**NT1** transfer reactions

**NT2** multi-nucleon transfer reactions

**NT3** four-nucleon transfer reactions

**NT4** alpha-transfer reactions

**NT3** many-nucleon transfer reactions

**NT3** three-nucleon transfer reactions

**NT3** two-nucleon transfer reactions

**NT2** one-nucleon transfer reactions

**NT2** pickup reactions

**NT2** stripping

*RT* oppenheimer-phillips process

## DIRECT SOLAR RADIATION

*INIS: 1997-06-19; ETDE: 1979-10-23*

*Solar radiation that has not been scattered or reflected in traversal of the atmosphere.*

\***BT1** solar flux

\***BT1** solar radiation

*RT* diffuse solar radiation

*RT* insolation

*RT* solar access

## DIRECTED-ENERGY WEAPONS

*INIS: 2000-04-12; ETDE: 1981-08-21*

*UF* particle-beam weapons

**BT1** weapons

**NT1** laser weapons

*RT* ballistic missile defense

*RT* charged particles

*RT* particle beams

*RT* space weapons

## directional correlation

*USE* angular correlation

## DIRECTIONAL DRILLING

*INIS: 1992-07-06; ETDE: 1977-04-12*

*Drilling at a deviated angle. The drilling usually starts out vertically and is then deflected gradually.*

**BT1** drilling

*RT* enhanced recovery

*RT* geothermal wells

*RT* well drilling

## DIRECTIONAL RADIATION

### DETECTORS

\***BT1** radiation detectors

## DIRECTORIES

*INIS: 1999-03-02; ETDE: 1978-10-23*

(Until March 1999 this concept was indexed by INDEXES.)

**BT1** document types

*RT* catalogs

*RT* indexes

## DIRICHLET PROBLEM

**BT1** boundary-value problems

*RT* differential equations

*RT* partial differential equations

## dirigibles

*INIS: 2000-04-12; ETDE: 1980-01-15*

(Prior to March 1996 AIRSHIPS was used for this concept in ETDE.)

*USE* aircraft

## dirty bombs

2009-09-08

*USE* radiological dispersal devices

## DISACCHARIDES

1996-06-28

(Prior to July 1996 MELIBIOSE was a valid ETDE descriptor.)

*UF* melibiose

\***BT1** oligosaccharides

**NT1** cellobiose

**NT1** lactose

**NT1** maltose

**NT1** saccharose

## DISADVANTAGE FACTOR

**BT1** dimensionless numbers

*RT* multiplication factors

*RT* neutron flux

## disarmament

*INIS: 1992-01-30; ETDE: 1985-08-09*

*SEE* arms control

*SEE* nuclear disarmament

## disaster (exceptional natural)

*INIS: 1985-12-10; ETDE: 2002-01-30*

*USE* exceptional natural disaster

## disasters

*INIS: 2000-03-27; ETDE: 1978-06-14*

*Large-scale drought, glacier movement, floods, fires, storms, etc.*

(Prior to March 1996 this was a valid ETDE descriptor.)

*SEE* accidents

*SEE* natural disasters

## disbursements

*INIS: 2000-04-12; ETDE: 1983-05-21*

*Funds paid out, payments in settlement, or expenditures from a fund.*

(Prior to September 1994, this was a valid ETDE descriptor.)

*SEE* administrative procedures

*SEE* financing

## DISCALOY

2000-04-12

\***BT1** aluminium additions

\***BT1** carbon additions

\***BT1** chromium alloys

\***BT1** iron base alloys

\***BT1** manganese additions

\***BT1** molybdenum alloys

\***BT1** nickel alloys

\***BT1** silicon additions

\***BT1** titanium alloys

## DISCHARGE CANALS

2000-04-12

*RT* auxiliary water systems

*RT* cooling systems

## DISCHARGE QUENCHING

1996-04-16

*The stifling of a discharge by suddenly applying a load to lower its thermal energy.*

*UF* quenching (discharge)

*RT* electric discharges

*RT* thermonuclear devices

## discharges (electric)

*USE* electric discharges

## discharges (ionization)

*USE* ionization

## discharges (wastes)

*USE* waste disposal

## discharging (fission reactor)

1982-11-29

*USE* reactor fueling

## discount rate

*INIS: 2000-04-12; ETDE: 1978-06-14*

*USE* interest rate

## DISCRETE ORDINATE METHOD

*UF* carlson method

*UF* discrete ordinates

*UF* sn method

**BT1** calculation methods

*RT* neutron transport theory

*RT* transport theory

## discrete ordinates

*ETDE: 1978-05-01*

*USE* discrete ordinate method

## DISCRIMINATORS

**BT1** electronic circuits

**NT1** pulse discriminators

*RT* timing circuits

## disease free period

*INIS: 1985-03-19; ETDE: 1985-04-09*

*The time between disease treatment and recurrence of symptoms.*

*USE* latency period

## DISEASE INCIDENCE

*INIS: 1985-01-18; ETDE: 1981-06-16*

*UF* morbidity

*RT* disease resistance

*RT* diseases

*RT* epidemiology

*RT* plant diseases

## DISEASE RESISTANCE

*RT* disease incidence

*RT* diseases

*RT* epidemiology

*RT* immunity

*RT* mutants

*RT* plant breeding

*RT* plant diseases

## DISEASE VECTORS

*RT* diseases

*RT* glossina

*RT* insects

*RT* mites

*RT* parasites

*RT* pathogens

*RT* rodents

*RT* snails

## DISEASES

*Limited to diseases of man and animals; see also PLANT DISEASES.*

**NT1** cardiovascular diseases

**NT2** gas bubble disease

**NT2** myocardial infarction

**NT2** thrombosis

**NT2** vascular diseases

**NT3** arteriosclerosis

**NT3** hypertension

**NT3** ischemia

**NT3** nephrosclerosis

**NT3** telangiectasis

**NT3** thrombosis

**NT1** congenital diseases

**NT2** downs syndrome

**NT1** digestive system diseases

**NT2** enteritis

**NT2** hepatitis

**NT3** infectious hepatitis

**NT2** liver cirrhosis

**NT2** peritonitis

**NT2** proctitis

**NT1** endocrine diseases

**NT2** acromegaly

**NT2** cushing syndrome

**NT2** diabetes mellitus

**NT2** goiter

**NT2** hyperparathyroidism

**NT2** hyperthyroidism

**NT2** hypothyroidism

**NT2** thyroiditis

**NT1** hemic diseases

**NT2** anemias

**NT3** ischemia

**NT3** megaloblastic anemia

**NT3** sickle cell anemia

**NT3** thalassemia

- NT2 hemophilia  
 NT2 leukopenia  
 NT3 lymphopenia  
 NT2 polycythemia  
 NT2 purpura  
 NT1 hereditary diseases  
 NT2 downs syndrome  
 NT2 hemophilia  
 NT1 immune system diseases  
 NT2 aids  
 NT2 leukemia  
 NT3 myeloid leukemia  
 NT2 leukopenia  
 NT3 lymphopenia  
 NT2 lupus  
 NT2 lymphomas  
 NT3 hodgkins disease  
 NT3 lymphosarcomas  
 NT1 infectious diseases  
 NT2 bacterial diseases  
 NT3 cholera  
 NT3 diphtheria  
 NT3 gonorrhoea  
 NT3 leprosy  
 NT3 syphilis  
 NT3 tetanus  
 NT3 tuberculosis  
 NT3 typhoid  
 NT2 fungal diseases  
 NT3 mycoses  
 NT3 tinea  
 NT2 parasitic diseases  
 NT3 fascioliasis  
 NT3 filariasis  
 NT3 hydatidosis  
 NT3 malaria  
 NT3 schistosomiasis  
 NT3 trichinosis  
 NT3 trypanosomiasis  
 NT2 rickettsial diseases  
 NT3 typhus  
 NT2 viral diseases  
 NT3 aids  
 NT3 herpes simplex  
 NT3 herpes zoster  
 NT3 infectious hepatitis  
 NT3 influenza  
 NT3 measles  
 NT3 newcastle disease  
 NT3 poliomyelitis  
 NT3 rabies  
 NT1 injuries  
 NT2 bone fractures  
 NT2 burns  
 NT3 flash burns  
 NT3 radiation burns  
 NT2 radiation injuries  
 NT3 osteoradionecrosis  
 NT3 radiation burns  
 NT3 radiodermatitis  
 NT2 wounds  
 NT1 metabolic diseases  
 NT2 diabetes mellitus  
 NT2 rickets  
 NT1 neoplasms  
 NT2 carcinomas  
 NT3 adenomas  
 NT3 angiomas  
 NT3 epitheliomas  
 NT4 melanomas  
 NT3 hepatomas  
 NT2 experimental neoplasms  
 NT3 ehrlich ascites tumor  
 NT2 gliomas  
 NT3 astrocytomas  
 NT2 granulomas  
 NT2 leukemia  
 NT3 myeloid leukemia  
 NT2 lymphomas  
 NT3 hodgkins disease  
 NT3 lymphosarcomas  
 NT2 sarcomas  
 NT3 fibrosarcomas  
 NT3 lymphosarcomas  
 NT3 myosarcomas  
 NT4 rhabdomyosarcomas  
 NT3 osteosarcomas  
 NT1 nervous system diseases  
 NT2 encephalitis  
 NT3 rabies  
 NT2 epilepsy  
 NT2 gliomas  
 NT3 astrocytomas  
 NT2 herpes zoster  
 NT2 myelitis  
 NT3 poliomyelitis  
 NT1 occupational diseases  
 NT1 respiratory system diseases  
 NT2 asthma  
 NT2 bronchitis  
 NT2 emphysema  
 NT2 pneumoconioses  
 NT3 berylliosis  
 NT2 pneumonia  
 NT3 bronchopneumonia  
 NT1 rheumatic diseases  
 NT2 spondylitis  
 NT1 sense organs diseases  
 NT2 cataracts  
 NT2 conjunctivitis  
 NT1 skeletal diseases  
 NT2 osteomyelitis  
 NT2 osteoporosis  
 NT2 osteoradionecrosis  
 NT2 osteosarcomas  
 NT2 rickets  
 NT2 spondylitis  
 NT1 skin diseases  
 NT2 dermatitis  
 NT3 radiodermatitis  
 NT2 eczema  
 NT2 herpes simplex  
 NT2 psoriasis  
 NT2 telangiectasis  
 NT1 urogenital system diseases  
 NT2 gonorrhoea  
 NT2 menstruation disorders  
 NT2 nephritis  
 NT2 nephrosclerosis  
 NT2 reproductive disorders  
 NT2 uremia  
 RT disease incidence  
 RT disease resistance  
 RT disease vectors  
 RT epidemiology  
 RT etiology  
 RT medicine  
 RT pathogenesis  
 RT pathogens  
 RT pathological changes  
 RT pathology  
 RT quarantine  
 RT symptoms

**DISHWASHERS**

- INIS: 1993-07-29; ETDE: 1977-01-28  
 \*BT1 electric appliances  
 RT cleaning  
 RT washing

**DISINFECTANTS**

- INIS: 1997-06-17; ETDE: 1975-10-01  
 BT1 germicides  
 RT antiseptics  
 RT bacteria  
 RT drugs  
 RT infectivity  
 RT pesticides

**disinfection**

- INIS: 1975-12-19; ETDE: 2002-06-13  
 USE sterilization

**DISINFESTATION**

- NT1 grain disinfestation  
 NT1 radiodisinfestation  
 RT pesticides  
 RT preservation  
 RT sterilization

**disintegration (biological)**

- USE decomposition

**disintegration (chemical)**

- USE decomposition

**disintegration (fission)**

- USE fission

**disintegration (nuclear particles)**

- 1993-11-05  
 SEE annihilation  
 SEE particle decay

**disintegration (nuclear)**

- USE decay

**DISK MHD GENERATORS**

- INIS: 1993-02-19; ETDE: 1979-05-03  
 UF radial flow mhd generators  
 \*BT1 mhd generators

**disks (accretion)**

- INIS: 1984-04-04; ETDE: 2002-06-13  
 USE accretion disks

**disks (intervertebral)**

- INIS: 1984-04-04; ETDE: 2002-06-13  
 USE cartilage  
 USE vertebrae

**disks (magnetic)**

- USE magnetic disks

**DISLOCATION PINNING**

- RT cold working  
 RT dislocations  
 RT grain boundaries

**DISLOCATIONS**

- SF frank-read source  
 \*BT1 line defects  
 NT1 edge dislocations  
 NT1 screw dislocations  
 RT bordoni peak  
 RT burgers vector  
 RT dislocation pinning  
 RT kikuchi lines  
 RT peierls-nabarro force  
 RT slip  
 RT stacking faults  
 RT superdislocations

**dismantlement (nuclear weapons)**

- 1994-09-30  
 USE nuclear weapons dismantlement

**dismantling (fission reactor)**

- INIS: 1982-11-30; ETDE: 2002-06-13  
 USE reactor dismantling

**dismantling (fuel assembly)**

- USE fuel assembly dismantling

**dismantling (reactor)**

- 2000-04-12  
 USE reactor dismantling

**dispersal (insect)**

- USE insect dispersal

**dispersants (chemical)**

INIS: 2000-04-12; ETDE: 1979-07-24

USE surfactants

**disperse systems**

USE dispersions

**DISPERSED STORAGE AND GENERATION**

INIS: 1999-05-13; ETDE: 1980-03-04

RT electric power  
 RT electric utilities  
 RT energy storage  
 RT load management  
 RT on-site power generation  
 RT power generation  
 RT power systems

**DISPERSION HARDENING**

BT1 hardening

**DISPERSION NUCLEAR FUELS**

A dispersion of nuclear fuel particles in a solid.

\*BT1 nuclear fuels  
 \*BT1 solid fuels  
 RT fuel dispersion reactors  
 RT fuel particles

**DISPERSION RELATIONS**

For dispersion of light use OPTICAL DISPERSION.

UF dispersion theory  
 UF fracer-fulco method  
 SF khuri representation  
 RT bifurcation  
 RT cdd poles  
 RT mandelstam representation  
 RT n-d method  
 RT partial waves  
 RT plasma instability  
 RT plasma waves  
 RT quantum field theory  
 RT scattering  
 RT scattering amplitudes  
 RT spectral functions

**dispersion theory**

USE dispersion relations

**DISPERSIONS**

For the state of aggregation in materials; if related to wave phenomena see DISPERSION RELATIONS or OPTICAL DISPERSION.

UF disperse systems

NT1 colloids  
 NT2 agar  
 NT2 alginate acid  
 NT2 emulsions  
 NT3 microemulsions  
 NT3 photographic emulsions  
 NT2 foams  
 NT3 plastic foams  
 NT3 urea-formaldehyde foams  
 NT2 gelatin  
 NT2 gels  
 NT3 hydrogels  
 NT3 hydrophilic polymers  
 NT2 radiocolloids  
 NT3 thorotrast  
 NT2 sols  
 NT3 aerosols  
 NT4 radioactive aerosols  
 NT4 smokes  
 NT5 tobacco smokes  
 NT1 mixtures  
 NT2 binary mixtures  
 NT2 homogeneous mixtures  
 NT3 solutions  
 NT4 aqueous solutions  
 NT4 fuel solutions

NT4 hypertonic solutions

NT4 isotonic solutions

NT4 leachates

NT4 process solutions

NT4 solid solutions

NT2 mixed solvents

NT2 slurries

NT3 fuel slurries

NT1 suspensions

NT2 nanofluids

NT2 slurries

NT3 fuel slurries

NT1 td-nickel

NT1 td-nickel chromium

RT dusts

RT elutriation

RT gases

RT liquids

RT microspheres

RT particle resuspension

RT particle size

RT particles

RT particulates

RT solids

RT sprays

RT total suspended particulates

**dispersive ion waves**

USE ion plasma waves

**DISPLACEMENT FLUIDS**

INIS: 1992-02-03; ETDE: 1983-11-09

UF flooding fluids  
 UF injection fluids  
 BT1 fluids  
 RT enhanced recovery  
 RT fluid injection  
 RT well stimulation

**DISPLACEMENT GAGES**

UF position indicators

BT1 measuring instruments

**displacement rates**

INIS: 2000-04-12; ETDE: 1979-09-26

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE atomic displacements  
 SEE fluid flow  
 SEE ground motion  
 SEE seismology

**DISPLACEMENT VENTILATION**

2004-05-28

Ventilation technique in which fresh air is introduced at floor level and used air is extracted at ceiling level on the opposite side of the room, or vice versa.

BT1 ventilation  
 RT natural convection  
 RT ventilation systems

**displacements (atomic)**

INIS: 1982-11-29; ETDE: 2002-06-13

USE atomic displacements

**displacements (seismic)**

INIS: 1982-11-29; ETDE: 2002-06-13

USE ground motion

**DISPLAY DEVICES**

UF data display devices

UF data display systems

\*BT1 computer-graphics devices

NT1 interactive display devices

RT cathode ray tubes

RT computer graphics

RT consoles

RT control rooms

RT electronic equipment

RT image tubes

RT images

RT man-machine systems

RT pattern recognition

RT plotters

RT semiconductor devices

**disposable income**

INIS: 2000-04-12; ETDE: 1981-03-17

(Prior to September 1994, this was a valid ETDE descriptor.)

USE income

**disposal (wastes)**

USE waste disposal

**DISPOSAL WELLS**

INIS: 1992-03-25; ETDE: 1984-05-23

BT1 wells  
 RT brines  
 RT radioactive waste disposal  
 RT underground disposal

**disproportionation**

USE oxidation

USE reduction

**DISPUTE SETTLEMENTS**

INIS: 1976-12-08; ETDE: 1993-11-01

(From March 1981 till March 1997

MEDIATION was a valid ETDE descriptor.)

UF settlements (disputes)

SF mediation

RT arbitration

RT courts

RT hearings

RT lawsuits

**DISSIPATION FACTOR**

BT1 dimensionless numbers

RT energy losses

RT heat losses

**DISSOCIATING GASES**

INIS: 1985-12-10; ETDE: 1976-03-11

\*BT1 gases

RT dissociation

**DISSOCIATION**

NT1 predissociation

RT decomposition

RT dissociating gases

RT dissociation energy

RT dissociation heat

RT electrolysis

RT electrolytes

RT ionization

RT photolysis

RT pyrolysis

RT radiolysis

RT reaction kinetics

**DISSOCIATION ENERGY**

For the bond property only; for the reaction property see DISSOCIATION HEAT.

UF energy of dissociation

BT1 energy

RT dissociation

RT formation heat

RT molecular structure

**DISSOCIATION HEAT**

UF heat of dissociation

\*BT1 reaction heat

RT dissociation

RT formation heat

RT thermochemical heat storage

**DISSOLUTION**

NT1 leaching

NT2 microbial leaching

RT dissolvers

RT fractionation

RT solubility  
 RT solutes  
 RT solutions  
 RT solvent extraction  
 RT solvent properties  
 RT solvents

**DISSOLVED GASES**

INIS: 1983-10-14; ETDE: 1980-09-22

UF dissolved oxygen  
 \*BT1 gases  
 BT1 solutes  
 RT anaerobic conditions  
 RT biochemical oxygen demand  
 RT deaerators  
 RT partial pressure  
 RT water chemistry  
 RT water pollution  
 RT water treatment

**dissolved materials**

INIS: 2000-04-12; ETDE: 1982-03-10

USE solutes

**dissolved oxygen**

INIS: 2000-04-12; ETDE: 1980-09-22

USE dissolved gases  
 USE oxygen

**dissolved solids**

INIS: 1986-05-23; ETDE: 2002-06-13

USE solutes

**DISSOLVERS**

INIS: 1993-03-24; ETDE: 1976-01-23

BT1 equipment  
 RT dissolution

**DISTANCE**

NT1 elementary length  
 NT1 interaction range  
 NT1 interatomic distances  
 RT automation  
 RT dimensions  
 RT manipulators  
 RT radiation protection  
 RT range  
 RT remote handling  
 RT shielding  
 RT thickness

**distillate fuel**

INIS: 2000-04-12; ETDE: 1976-03-11

USE heating oils

**distillate fuel oil**

INIS: 2000-04-12; ETDE: 1976-03-11

USE heating oils

**DISTILLATES**

2000-04-12

NT1 naphtha  
 NT2 ligroin  
 NT1 petroleum distillates  
 NT2 gas oils  
 NT3 diesel fuels  
 NT3 fuel oils  
 NT4 heating oils  
 NT4 residual fuels  
 NT3 kerosene  
 RT distillation  
 RT oils  
 RT vapors

**DISTILLATION**

1999-07-13

BT1 separation processes  
 NT1 destructive distillation  
 NT1 solar distillation  
 NT1 vacuum distillation  
 RT azeotrope  
 RT chloride volatility process

RT demineralization  
 RT desalination  
 RT distillates  
 RT distillation equipment  
 RT evaporation  
 RT evaporators  
 RT flash heating  
 RT fluoride volatility process  
 RT fractionation  
 RT petroleum  
 RT petroleum refineries  
 RT stillage  
 RT volatility

**DISTILLATION EQUIPMENT**

INIS: 2000-07-11; ETDE: 1976-09-28

BT1 equipment  
 NT1 retorts  
 RT distillation  
 RT petroleum refineries

**DISTILLERS DRIED GRAINS**

INIS: 2000-04-12; ETDE: 1981-08-04

Residue produced by drying the solid portion of the mash obtained after alcoholic fermentation prior to distillation.

UF ddg  
 RT animal feeds  
 RT by-products  
 RT fermentation  
 RT stillage

**distorted wave born approximation**

USE dwba

**DISTORTED WAVE THEORY**

RT dwba  
 RT nuclear reaction kinetics

**DISTRIBUTED COLLECTOR POWER PLANTS**

INIS: 1992-03-11; ETDE: 1978-09-11

\*BT1 solar thermal power plants  
 RT msstf

**DISTRIBUTED DATA PROCESSING**

INIS: 1992-03-12; ETDE: 1980-10-27

\*BT1 data processing  
 RT information systems

**DISTRIBUTED STRUCTURES**

2004-09-03

Coordinate with relevant descriptor(s) for what is distributed, e.g. THERMAL POWER PLANTS, WASTE PROCESSING PLANTS, HOSPITALS.

RT buildings  
 RT computer architecture  
 RT energy facilities  
 RT modular structures  
 RT nuclear facilities  
 RT test facilities

**DISTRIBUTION**

1996-03-04

For energy distribution use ENERGY SPECTRA.

UF inclusive distribution  
 UF kurtosis  
 UF skewness  
 NT1 angular distribution  
 NT1 spatial distribution  
 NT2 mass distribution  
 NT1 subcellular distribution  
 NT1 tissue distribution  
 RT allocations  
 RT anisotropy  
 RT asymmetry  
 RT boltzmann statistics  
 RT gauss function  
 RT gaussian processes

RT isotropy  
 RT particle kinematics  
 RT symmetry

**distribution constants**

ETDE: 2002-06-13

USE distribution functions

**distribution factor (rad doses)**

USE spatial dose distributions

**DISTRIBUTION FUNCTIONS**

UF distribution constants  
 UF residence time distribution  
 BT1 functions  
 RT ion exchange  
 RT ion exchange chromatography  
 RT plasma  
 RT solvent extraction  
 RT tail electrons  
 RT tail ions

**DISTRICT COOLING**

INIS: 1993-01-15; ETDE: 1975-11-11

BT1 cooling  
 RT central heating plants

**DISTRICT HEATING**

BT1 heating  
 NT1 geothermal district heating  
 NT1 solar district heating  
 RT boilers  
 RT central heating plants  
 RT cogeneration  
 RT dual-purpose power plants  
 RT geothermal heating systems  
 RT heat distribution systems  
 RT heat islands  
 RT heat transfer  
 RT heating systems  
 RT hot water  
 RT slowpoke-wnre reactor  
 RT space heating  
 RT steam  
 RT steam generation plants  
 RT thermal power plants  
 RT thermal transmission ices  
 RT waste heat

**district of columbia**

ETDE: 1978-09-11

USE washington dc

**DISTURBANCES**

UF ionospheric effects  
 UF perturbations  
 NT1 ionospheric storms  
 NT2 sudden ionospheric disturbance  
 NT2 travelling ionospheric disturbance  
 RT magnetic bays  
 RT magnetic storms  
 RT oscillations  
 RT pulsations  
 RT variations

**DISULFIDES**

\*BT1 organic sulfur compounds  
 NT1 cystine  
 NT1 thioctic acid

**disused mineshafts**

INIS: 2000-04-12; ETDE: 1978-05-01

USE abandoned shafts

**DITE TOKAMAK**

INIS: 1981-07-06; ETDE: 1981-08-04

\*BT1 tokamak devices

**DITHIOLS**

UF 1,2-ethanedithiol  
 UF dimercaptoethane  
 BT1 reagents

\*BT1 thiols  
 NT1 dimercaprol  
 NT1 unithiol

**DITHIZONE**  
*UF diphenylthiocarbazone*  
 \*BT1 carbazones  
 BT1 chelating agents  
 \*BT1 organic sulfur compounds  
 BT1 reagents

**DIURETICS**  
*1996-07-18*  
 (Prior to March 1997 CHLOROTHIAZIDE was a valid ETDE descriptor.)  
*UF chlorothiazide*  
 BT1 drugs  
 NT1 neohydrin  
 NT1 sorbitol  
 NT1 theobromine  
 NT1 theophylline  
 RT antihypertensive agents  
 RT edema  
 RT kidneys  
 RT urine  
 RT urogenital system diseases

**diurnal variation**  
 USE daily variations

**diva tokamak**  
*INIS: 1981-09-17; ETDE: 1981-08-04*  
 USE jft-2a tokamak

**divergences (infrared)**  
 USE infrared divergences

**divergences (ultraviolet)**  
 USE ultraviolet divergences

**DIVERSIFICATION**  
*INIS: 2000-01-13; ETDE: 1980-03-29*  
 RT economy  
 RT investment  
 RT technology impacts

**DIVERTORS**  
*1995-11-21*  
 NT1 bundle divertors  
 NT1 ergodic divertors  
 NT1 poloidal field divertors  
 NT1 toroidal field divertors  
 RT exhaust systems  
 RT h-mode plasma confinement  
 RT magnetic field configurations  
 RT magnetic surfaces  
 RT plasma impurities  
 RT stellarators

**DIVING OPERATIONS**  
*INIS: 1993-03-25; ETDE: 1976-03-11*  
 BT1 underwater operations  
 RT life support systems  
 RT offshore operations  
 RT underwater facilities

**DIVINYLBENZENE**  
*INIS: 1982-06-09; ETDE: 1979-07-18*  
 \*BT1 aromatics

**djakarta irt-2000 reactor**  
 USE irt-2000 djakarta reactor

**DJALMAITE**  
*2000-04-12*  
 \*BT1 uranium minerals

**DJIBOUTI**  
*INIS: 1992-05-07; ETDE: 1981-01-30*  
 Formerly AFARS AND ISSAS. Material published before 1981 would be so indexed.  
*UF afars and issas*  
 BT1 africa

BT1 arab countries

**dlts**  
*INIS: 1999-06-23; ETDE: 1983-04-28*  
 USE deep level transient spectroscopy

**dmba**  
*INIS: 1980-05-14; ETDE: 1979-07-18*  
 USE dimethylbenzanthracene

**DME**  
*UF 1,2-dimethoxyethane*  
 \*BT1 ethers  
 RT organic solvents

**dmf**  
*2018-01-24*  
 USE dimethylformamide

**DMSO**  
*UF dimethyl sulfoxide*  
 \*BT1 sulfoxides

**DMTR REACTOR**  
*UF downreay materials testing reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**DNA**  
*1997-06-17*  
*UF deoxyribose nucleic acid*  
*UF deoxyribonucleic acid*  
*UF desoxyribonucleic acid*  
 \*BT1 nucleic acids  
 NT1 contigs  
 NT1 oligonucleotides  
 NT1 recombinant dna  
 RT chromosomes  
 RT dna adducts  
 RT dna-ase  
 RT dna-cloning  
 RT dna polymerases  
 RT dna repair  
 RT dna replication  
 RT dna sequencing  
 RT exons  
 RT feulgen method  
 RT gene operons  
 RT genetic engineering  
 RT helical configuration  
 RT host-cell reactivation  
 RT human chromosomes  
 RT in-situ hybridization  
 RT introns  
 RT nucleosomes  
 RT strand breaks

**DNA ADDUCTS**  
*INIS: 1984-04-04; ETDE: 1983-11-09*  
 BT1 adducts  
 RT carcinogenesis  
 RT carcinogens  
 RT chemical bonds  
 RT dna  
 RT metabolism  
 RT mutagenesis  
 RT mutagens  
 RT radiomimetic drugs

**DNA-ASE**  
*Code number 3.1.4.5.*  
*UF deoxyribonuclease*  
*UF nuclease (deoxyribonuclease)*  
 \*BT1 nucleases  
 NT1 endonucleases  
 RT dna

RT nucleoproteins

**DNA BASE TRANSITIONS**  
*INIS: 2000-04-12; ETDE: 1987-12-17*  
*Changes in the genetic message of an organism by substitution of (usually) one nucleotide for another.*  
 RT dna repair  
 RT mutations

**DNA-CLONING**  
*INIS: 1997-06-17; ETDE: 1977-11-10*  
 BT1 cloning  
 \*BT1 dna hybridization  
 RT cosmids  
 RT dna  
 RT dna replication  
 RT oligonucleotides  
 RT polymerase chain reaction  
 RT transposons

**DNA DAMAGES**  
*INIS: 1998-02-16; ETDE: 1999-08-24*  
 NT1 strand breaks  
 RT chromosomal aberrations  
 RT dna repair  
 RT dna replication  
 RT radiation injuries

**DNA HELICASES**  
*INIS: 1993-08-16; ETDE: 1984-06-29*  
*An enzyme that unwinds segments of damaged DNA in preparation for DNA repair.*  
 \*BT1 enzymes  
 RT dna repair

**DNA HYBRIDIZATION**  
*INIS: 2000-01-11; ETDE: 1988-10-27*  
 BT1 hybridization  
 \*BT1 nucleic acid hybridization  
 NT1 dna-cloning  
 RT genetic mapping  
 RT hybridomas  
 RT in-situ hybridization  
 RT messenger-rna  
 RT oligonucleotides  
 RT recombinant dna

**DNA METHYLASES**  
*INIS: 1993-08-16; ETDE: 1988-04-15*  
 \*BT1 lyases  
 RT endonucleases  
 RT methyl transferases  
 RT nucleoproteins

**DNA MISMATCH**  
*INIS: 2000-04-12; ETDE: 1984-06-29*  
*DNA containing mismatched base pairs can be formed as a result of DNA exchange between non-identical sequences or as a result of errors in DNA replication.*  
 RT dna replication  
 RT gene recombination  
 RT mutations

**DNA POLYMERASES**  
*INIS: 1984-06-21; ETDE: 1984-01-27*  
 \*BT1 polymerases  
 RT biological repair  
 RT dna  
 RT dna repair  
 RT dna replication  
 RT nucleoproteins  
 RT rna polymerases  
 RT transcription

**DNA REPAIR**  
*INIS: 1998-02-16; ETDE: 1984-05-09*  
*UF dark repair*  
 \*BT1 biological repair  
 NT1 excision repair  
 RT chromosomes

RT dna  
 RT dna base transitions  
 RT dna damages  
 RT dna helicases  
 RT dna polymerases  
 RT endonucleases  
 RT gene recombination proteins  
 RT human chromosomes  
 RT methyl transferases  
 RT pyrimidine dimers  
 RT strand breaks

**DNA REPLICATION**

1998-02-16

BT1 nucleic acid replication  
 RT cell cycle  
 RT dna  
 RT dna-cloning  
 RT dna damages  
 RT dna mismatch  
 RT dna polymerases  
 RT telomeres  
 RT transcription

**DNA SEQUENCERS**

1994-02-28

\*BT1 laboratory equipment  
 RT automation  
 RT dna sequencing  
 RT measuring instruments

**DNA SEQUENCING**

INIS: 1984-12-04; ETDE: 1984-01-27

*The chemical determination of the sequence of the nucleotides in a strand of DNA.*

BT1 structural chemical analysis  
 RT dna  
 RT dna sequencers  
 RT molecular biology  
 RT molecular structure  
 RT nucleotides

**DNAPL**

2014-03-28

\*BT1 liquids  
 RT pollution

**dnb**

USE departure nucleate boiling

**dnep river**

INIS: 1992-05-13; ETDE: 2002-06-13

USE dnep river

**DNIEPER RIVER**

INIS: 1992-05-13; ETDE: 1992-06-22

UF dnep river  
 \*BT1 rivers  
 RT black sea  
 RT pripet river  
 RT ukraine

**dnp**

USE dinitrophenol

**doca**

1996-10-23

*Desoxycorticosterone acetate.*

(Until October 1996 this was a valid descriptor.)

USE mineralocorticoids

**document destruction**

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to September 1994, this was a valid ETDE descriptor.)

SEE legal aspects  
 SEE security

**document retrieval**

USE information retrieval

**DOCUMENT TYPES**

*See scope note for each of the descriptors below for its proper usage.*

UF data forms  
 SF technical writing  
 NT1 audio files  
 NT1 bibliographies  
 NT1 catalogs  
 NT1 datasets  
 NT2 fukushima accident data  
 NT1 dictionaries  
 NT1 directories  
 NT1 environmental impact statements  
 NT1 hearings  
 NT1 indexes  
 NT1 lectures  
 NT1 manuals  
 NT1 patents  
 NT1 proceedings  
 NT1 progress report  
 NT1 regulatory guides  
 NT1 reviews  
 NT1 video files  
 NT1 websites  
 RT abstracts  
 RT safety reports

**DOCUMENTATION**

*The assembling, coding, and disseminating of recorded knowledge.*

RT data compilation  
 RT information retrieval  
 RT information systems  
 RT knowledge preservation  
 RT privacy act  
 RT reporting requirements

**DODECANE**

\*BT1 alkanes

**DODECANOIC ACID**

UF lauric acid  
 \*BT1 monocarboxylic acids

**DODECYL RADICALS**

UF lauryl radicals  
 \*BT1 alkyl radicals

**DODEWAARD REACTOR**

*Dodewaard, Gelderland, Netherlands. Permanent shutdown since March 1997.*

UF gkn reactor (dodewaard)  
 \*BT1 bwr type reactors

**DOEL-1 REACTOR**

*Doel-Beveren, Flandre, Belgium.*

\*BT1 pwr type reactors

**DOEL-2 REACTOR**

*Doel-Beveren, Flandre, Belgium.*

\*BT1 pwr type reactors

**DOEL-3 REACTOR**

*INIS: 1977-09-15; ETDE: 1977-11-10*

*Doel-Beveren, Flandre, Belgium.*

\*BT1 pwr type reactors

**DOEL-4 REACTOR**

*INIS: 1981-05-11; ETDE: 1981-06-13*

*Doel-Beveren, Flandre, Belgium.*

\*BT1 pwr type reactors

**DOGS**

UF canines  
 UF mongrels  
 \*BT1 mammals  
 NT1 beagles  
 RT foxes  
 RT wolves

**dolantal**

USE pethidine

**DOLLARS**

\*BT1 reactivity units

**DOLOMITE**

*A common rock-forming rhombohedral mineral.*

UF bitter spar  
 SF pearl spar  
 \*BT1 carbonate minerals  
 RT calcite  
 RT calcium carbonates  
 RT limestone  
 RT magnesium carbonates

**dolomite rock**

*INIS: 1985-12-10; ETDE: 2002-06-13*

USE limestone

**dolphins**

*INIS: 1991-09-30; ETDE: 1981-06-15*

USE cetaceans

**DOMAIN STRUCTURE**

(From January 1975 until March 1996 LANDAU DOMAIN STRUCTURE was a valid ETDE descriptor.)

UF landau domain structure  
 NT1 bloch wall  
 RT magnetic properties

**DOMED STRUCTURES**

*INIS: 2000-04-12; ETDE: 1980-05-06*

UF domes (structures)  
 BT1 mechanical structures  
 RT buildings  
 RT high rooms  
 RT shells

**domes (structures)**

*INIS: 2000-04-12; ETDE: 1980-05-06*

USE domed structures

**DOMESTIC ANIMALS**

UF farm animals  
 UF livestock  
 BT1 animals  
 NT1 cattle  
 NT2 calves  
 NT2 cows  
 NT1 goats  
 NT1 sheep  
 NT1 swine  
 NT2 miniature swine  
 RT agriculture  
 RT animal breeding  
 RT buffalo  
 RT camels  
 RT grazing  
 RT rangelands  
 RT rearing  
 RT screwworm fly

**domestic crude oil entitlements program**

*INIS: 2000-04-12; ETDE: 1979-03-28*

USE entitlements program

**DOMESTIC SAFEGUARDS**

BT1 safeguards

**DOMESTIC SUPPLIES**

*INIS: 1986-07-09; ETDE: 1978-12-11*

*Goods whose source country is the same as the place of use, i.e. native goods not requiring import from another country.*

RT availability  
 RT exports  
 RT gross national product  
 RT imports  
 RT market  
 RT shortages

RT supply and demand  
RT trade

**domestic wastes**

INIS: 1985-07-18; ETDE: 1980-07-23  
(Prior to August 1985 this was a valid descriptor.)  
USE municipal wastes

**DOMINANT MUTATIONS**

BT1 mutations

**DOMINIC PROJECT**

UF *project dominic*  
\*BT1 nuclear explosions  
RT atmospheric explosions  
RT underwater explosions

**DOMINICAN REPUBLIC**

BT1 developing countries  
\*BT1 hispaniola  
BT1 latin america

**donald c. cook-1 reactor**

USE cook-1 reactor

**donald c. cook-2 reactor**

USE cook-2 reactor

**donkeys**

INIS: 2000-04-12; ETDE: 1978-04-05  
USE burros

**DONNAN THEORY**

RT diffusion  
RT electrolytes  
RT osmosis

**DOORS**

BT1 openings  
NT1 storm doors  
RT air curtains  
RT buildings

**DOPA**

UF *3,4-dihydroxyphenylalanine*  
\*BT1 amino acids  
\*BT1 hydroxy acids  
\*BT1 neuroregulators  
RT dopamine  
RT phenylalanine

**DOPAMINE**

\*BT1 amines  
\*BT1 cardiotonics  
\*BT1 neuroregulators  
\*BT1 polyphenols  
\*BT1 sympathomimetics  
RT dopa  
RT pyrocatechol  
RT spiperone

**DOPED MATERIALS**

UF *materials (doped)*  
BT1 materials  
RT bromine additions  
RT chlorine additions  
RT crystal doping  
RT fluorine additions  
RT ion implantation  
RT semiconductor materials  
RT trace amounts

**doping (crystal)**

USE crystal doping

**DOPPLER BROADENING**

BT1 line broadening  
RT doppler coefficient  
RT doppler effect

**DOPPLER COEFFICIENT**

BT1 reactivity coefficients

RT doppler broadening  
RT temperature coefficient

**DOPPLER EFFECT**

RT doppler broadening  
RT dsa method  
RT red shift  
RT spectral shift

**doppler shift attenuation method**

INIS: 1979-12-20; ETDE: 1980-01-24  
USE dsa method

**dopplersons**

2000-04-12  
USE quasi particles

**DORIS STORAGE RING**

BT1 storage rings

**dormitories**

INIS: 2000-04-12; ETDE: 1981-01-09  
USE residential buildings

**DOSE COMMITMENTS**

RT delayed radiation effects  
RT dose equivalents  
RT dose limits  
RT internal irradiation  
RT life span  
RT medical surveillance  
RT radiation doses  
RT radionuclide kinetics

**dose distributions**

USE radiation dose distributions

**DOSE EQUIVALENTS**

*A measure of the biological damage to living tissue as a result of radiation exposure expressed in rems or Sivierts.*  
(From January 1975 till April 1997 SIEVERT UNIT was a valid ETDE descriptor.)

NT1 ambient dose equivalents  
RT dose commitments  
RT dose limits  
RT dosimetry  
RT effective radiation doses  
RT ionizing radiations  
RT let  
RT quality factor  
RT radiation doses  
RT tissue-equivalent detectors

**dose fractionation**

USE fractionated irradiation

**DOSE LIMITS**

\*BT1 safety standards  
RT dose commitments  
RT dose equivalents  
RT maximum permissible dose  
RT radiation doses  
RT unsear

**DOSE RATEMETERS**

UF *ratemeters (dose)*  
RT dosimetry

**DOSE RATES**

RT low dose irradiation  
RT pulsed irradiation  
RT radiation dose rate ranges  
RT radiation doses  
RT radiation effects  
RT temporal dose distributions  
RT time dependence

**dose reduction factor**

INIS: 1984-04-04; ETDE: 1984-05-10  
USE efficiency  
USE radioprotective substances

**dose relative factor**

INIS: 1984-04-04; ETDE: 1984-05-10  
USE efficiency  
USE radioprotective substances

**DOSE-RESPONSE RELATIONSHIPS**

RT acute exposure  
RT biological effects  
RT biological indicators  
RT fractionated irradiation  
RT genetically significant dose  
RT lethal irradiation  
RT low dose irradiation  
RT radiation dose distributions  
RT radiation doses  
RT radiation effects  
RT radiosensitivity  
RT sublethal irradiation  
RT supralethal irradiation  
RT survival curves  
RT toxicity

**DOSEMETERS**

UF *dosimeters*  
UF *radiation dosimeters*  
BT1 measuring instruments  
NT1 albedo-neutron dosimeters  
NT1 biological dosimeters  
NT1 bragg gray chambers  
NT1 bubble dosimeters  
NT1 calorimetric dosimeters  
NT1 chemical dosimeters  
NT2 polymer gel dosimeters  
NT1 colorimetric dosimeters  
NT1 condenser ionization chambers  
NT1 exoelectron dosimeters  
NT1 extrapolation chambers  
NT1 luminescent dosimeters  
NT2 rpl dosimeters  
NT2 thermoluminescent dosimeters  
NT1 photographic film dosimeters  
NT1 ritac dosimeters  
NT1 ritad dosimeters  
RT dosimetry  
RT radiation detection  
RT radiation detectors  
RT radiation doses  
RT radiation monitoring  
RT radiation monitors  
RT scintillation counters  
RT semiconductor detectors

**DOSES**

INIS: 2000-04-12; ETDE: 1976-04-19  
NT1 lethal doses  
NT2 lethal radiation dose  
NT1 radiation doses  
NT2 absorbed radiation doses  
NT2 effective radiation doses  
NT2 equivalent radiation doses  
NT2 genetically significant dose  
NT2 integral doses  
NT2 lethal radiation dose  
NT2 somatically significant dose  
NT2 threshold dose  
NT1 therapeutic doses

**doses (lethal)**

INIS: 1986-03-04; ETDE: 2002-06-13  
USE lethal doses

**doses (radiation)**

ETDE: 2002-06-13  
USE radiation doses

**dosimeters**

USE dosimeters

**DOSIMETRY**

UF *radiation dosimetry*  
NT1 alpha dosimetry

**NT1** beta dosimetry  
**NT1** electron dosimetry  
**NT1** film dosimetry  
**NT1** gamma dosimetry  
**NT1** ion dosimetry  
**NT1** microdosimetry  
**NT1** neutron dosimetry  
**NT1** personnel dosimetry  
**NT1** pion dosimetry  
**NT1** polymer gel dosimetry  
**NT1** proton dosimetry  
**NT1** thermoluminescent dosimetry  
**NT1** x-ray dosimetry  
**RT** ambient dose equivalents  
**RT** dose equivalents  
**RT** dose ratemeters  
**RT** dosimeters  
**RT** icru  
**RT** lyoluminescence  
**RT** measuring methods  
**RT** radiation detection  
**RT** radiation dose units  
**RT** radiation doses  
**RT** radiation metrology  
**RT** radiation monitoring  
**RT** radiation protection  
**RT** radiations  
**RT** skyshine  
**RT** ssdl

**DOUBLE BETA DECAY**

*INIS: 1983-06-30; ETDE: 1983-07-20*  
 Decay (A, Z) yields (A, Z+2), and related reactions.

\*BT1 beta-minus decay  
**NT1** neutrinoless double beta decay

**DOUBLE BONDS**

**BT1** chemical bonds  
**RT** binding energy

**DOUBLE ENVELOPE BUILDINGS**

*INIS: 1992-08-25; ETDE: 1981-06-13*  
**UF** convective loop houses  
**UF** double shell houses  
**UF** double wall houses  
**UF** envelope houses  
**UF** thermal envelope houses  
**BT1** buildings  
**RT** passive solar heating systems

**double focusing spectrometers**

USE flat magnetic spectrometers

**DOUBLE GLAZING**

*INIS: 2000-04-12; ETDE: 1983-03-23*  
 Two layers of glass or other material used on windows or solar collectors to reduce heat loss. The still air in the space between the windows acts as a good insulator.

**SF** thermal insulating glass  
**RT** coverings  
**RT** glass  
**RT** glazing materials  
**RT** triple glazing  
**RT** windows

**DOUBLE LABELLING**

**BT1** labelling  
**RT** labelled compounds

**DOUBLE RESONANCE METHODS**

*INIS: 1977-03-01; ETDE: 1977-04-12*  
 Simultaneous excitation of two resonance transitions of different frequencies increasing the sensitivity of high frequency spectroscopy.

**RT** absorption spectroscopy  
**RT** eldor  
**RT** electron spin resonance  
**RT** endor  
**RT** nuclear magnetic resonance

**RT** optical pumping  
**RT** zeeman effect

**double shell houses**

*INIS: 1992-08-25; ETDE: 1981-06-13*  
 USE double envelope buildings

**double wall houses**

*INIS: 1992-08-25; ETDE: 1981-06-13*  
 USE double envelope buildings

**DOUBLET-2 DEVICE**

**Octupolar configuration.**  
 \*BT1 tokamak devices

**DOUBLET-3 DEVICE**

*INIS: 1976-05-05; ETDE: 1979-04-12*  
**UF** diiii-d  
 \*BT1 tokamak devices

**DOUBLET REACTORS**

*INIS: 2000-04-12; ETDE: 1978-04-27*  
 \*BT1 tokamak type reactors

**DOUGLAS POINT-1 REACTOR**

*Potomac Electric Power Co., Nanjamoy, Maryland, USA. Canceled in 1977 before construction began.*  
 \*BT1 bwr type reactors

**DOUGLAS POINT-2 REACTOR**

*Potomac Electric Power Co., Nanjamoy, Maryland, USA. Canceled in 1977 before construction began.*  
 \*BT1 bwr type reactors

**DOUGLAS POINT ONTARIO REACTOR**

*INIS: 1975-09-25; ETDE: 1975-12-16*  
 Permanent shutdown since 1984.  
 (For information indexed before 1976 CANDU TYPE REACTORS was used.)

**UF** douglas point power station  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors

**douglas point power station**

USE douglas point ontario reactor

**douglas point site**

*INIS: 2000-04-12; ETDE: 1980-01-24*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE maryland  
 USE power plants

**dounreay fast reactor**

USE dfr reactor

**dounreay materials testing reactor**

1993-11-05  
 USE dmtr reactor

**dounreay prototype fast reactor**

2000-04-12  
 USE pfr reactor

**dow chemical triga-mk-1 reactor**

1993-11-05  
 USE dow triga-mk-1 reactor

**DOW GASIFICATION PROCESS**

*INIS: 1992-07-06; ETDE: 1986-03-04*  
 Pressurized, entrained flow, slagging, slurry-fed gasification.

\*BT1 coal gasification  
**RT** entrainment

**DOW LIQUEFACTION PROCESS**

*INIS: 2000-04-12; ETDE: 1979-07-18*  
 Expendable catalyst system based on emulsion technology, hydrocyclones for partial solids removal, and liquid-liquid extractor.

\*BT1 coal liquefaction

**dow pusher 700**

*INIS: 2000-04-12; ETDE: 1977-03-04*  
 USE polyamides

**DOW TRIGA-MK-1 REACTOR**

*The Dow Chemical Co., Midland, Michigan, USA.*  
**UF** dow chemical triga-mk-1 reactor  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**dowa process**

*INIS: 2000-04-12; ETDE: 1981-08-21*  
 This process is a dual-alkali flue gas desulfurization process which utilizes basic aluminium sulfate solution for sulfur dioxide absorption and limestone for regeneration of the absorbent.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**dowex**

USE organic ion exchangers

**downhole information systems**

*INIS: 2000-04-12; ETDE: 1978-12-11*  
 USE mwd systems

**DOWNS SYNDROME**

**UF** mongolism  
 \*BT1 congenital diseases  
 \*BT1 congenital malformations  
 \*BT1 hereditary diseases  
**RT** chromosomal aberrations

**DOWNWELLING**

*INIS: 2000-04-12; ETDE: 1987-02-13*  
 Process by which a water mass sinks from a shallower to a deeper level.

**RT** environmental transport  
**RT** upwelling  
**RT** water currents

**dowtherm**

2000-04-12  
 USE biphenyl  
 USE phenyl ether

**DOXORUBICIN**

*INIS: 1980-11-07; ETDE: 1980-04-14*  
**UF** adriamycin  
 \*BT1 antibiotics  
 \*BT1 antineoplastic drugs  
**RT** mutagenesis

**dpa**

*INIS: 1982-11-29; ETDE: 1980-05-06*  
 Displacements per atom.  
 USE atomic displacements

**DPCA**

**UF** diphenylcarbazides  
 \*BT1 carbonic acid derivatives  
 \*BT1 organic nitrogen compounds

**dpo**

*Diphenylphosphine oxide.*  
 USE organic phosphorus compounds

**DPPH**

**UF** diphenylpicrylhydrazyl



\*BT1 nitro compounds  
 BT1 radicals  
 RT hydrazine

**DPSO**

UF diamyl sulfoxide  
 UF dipentyl sulfoxide  
 \*BT1 sulfoxides

**DR-1 REACTOR**

Risoe National Lab., Roskilde, Denmark.  
 Decommissioned since 2006.

UF danish reactor-1  
 \*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**DR-2 REACTOR**

Risoe National Lab., Roskilde, Denmark.  
 Decommissioned since 2011.

UF danish reactor-2  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**DR-3 REACTOR**

Risoe National Lab., Roskilde, Denmark.  
 Permanent shutdown since 2000. Under  
 decommissioning since 2006.

UF danish reactor-3  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**draft control systems**

INIS: 2000-04-12; ETDE: 1979-01-30  
 (Prior to February 1997 this was a valid ETDE  
 descriptor.)

USE flow regulators  
 USE gas flow

**DRAG**

UF drag coefficient  
 RT fluid mechanics  
 RT hartmann number  
 RT stokes number

**drag coefficient**

USE drag

**drag effect**

USE electrophoresis

**DRAGLINES**

INIS: 2000-04-12; ETDE: 1981-10-24  
 Excavators operated by pulling buckets on  
 cables toward jibs from which they are  
 suspended.

\*BT1 earthmoving equipment  
 RT excavation  
 RT mining equipment

**DRAGON REACTOR**

\*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors  
 \*BT1 thorium reactors

**drain-down systems**

INIS: 2000-04-12; ETDE: 1978-03-03  
 Components of equipment, e.g. solar  
 collectors, using a method of freeze protection  
 by draining out water when the equipment  
 reaches a dangerously low temperature. Use  
 descriptor for equipment involved, e.g. SOLAR  
 COLLECTORS or SOLAR WATER HEATERS,  
 and the descriptor below.  
 (Until March 1996 this was a valid ETDE  
 descriptor.)

USE freeze protection

**DRAINAGE**

INIS: 1984-08-24; ETDE: 1980-03-29

UF drainage areas  
 UF drainage systems  
 RT floods  
 RT fluid flow  
 RT hydrology  
 RT mine draining  
 RT rivers  
 RT runoff  
 RT settling ponds  
 RT waste water  
 RT watersheds

**drainage areas**

INIS: 2000-04-12; ETDE: 1980-03-29  
 USE drainage

**drainage systems**

INIS: 2000-04-12; ETDE: 1980-03-29  
 USE drainage

**draperies**

INIS: 2000-04-12; ETDE: 1979-02-27  
 USE curtains

**DRAWDOWN**

1992-04-08  
 Reduction of fluid level in reservoirs by  
 intentional withdrawal.

RT ground water  
 RT pumping  
 RT reservoir fluids

**DRAWING**

\*BT1 materials working  
 RT cold working

**DREDGE SPOIL**

INIS: 1991-10-11; ETDE: 1978-04-05  
 RT dredging  
 RT mineral wastes  
 RT sediments  
 RT solid wastes  
 RT spoil banks

**DREDGING**

INIS: 1991-10-11; ETDE: 1978-04-05  
 RT dredge spoil  
 RT excavation

**DRELL MODEL**

RT photoproduction

**DRESDEN-1 REACTOR**

Commonwealth Edison Co., Morris, Illinois,  
 USA. Shut down in 1978; decommissioned in  
 1993.

\*BT1 bwr type reactors

**DRESDEN-2 REACTOR**

Exelon Generation Co., LLC, Morris, Illinois,  
 USA.

\*BT1 bwr type reactors

**DRESDEN-3 REACTOR**

Exelon Generation Co., LLC, Morris, Illinois,  
 USA.

\*BT1 bwr type reactors

**drf**

INIS: 1984-04-04; ETDE: 1984-05-10  
 Dose Reduction Factor.  
 USE efficiency  
 USE radioprotective substances

**drift (electron)**

USE electron drift

**drift (ion)**

USE ion drift

**drift (plasma)**

USE plasma drift

**DRIFT CHAMBERS**

UF multiwire drift chambers  
 \*BT1 multiwire proportional chambers  
 NT1 time projection chambers  
 RT fermilab collider detector  
 RT ion-mobility detectors  
 RT projection spark chambers  
 RT stanford linear collider detector

**DRIFT INSTABILITY**

\*BT1 plasma microinstabilities  
 RT plasma drift

**drift pumping**

INIS: 2000-04-12; ETDE: 1984-11-09  
 A subset of plasma rf pumping that pumps  
 perpendicular energy into the trapped ion  
 population at frequencies near the trapped ion  
 bounce frequency. Radial displacements by  
 geodesic curvature drifts are enhanced so that  
 the ions drift out to a limiter.  
 (Prior to September 1994, this was a valid  
 ETDE descriptor.)  
 USE high-frequency heating

**DRIFT TUBES**

RT linear accelerators

**DRILL BITS**

INIS: 1976-03-25; ETDE: 1975-09-11  
 \*BT1 drilling equipment  
 \*BT1 tools  
 RT drilling  
 RT drills  
 RT jet drills  
 RT machine tools  
 RT materials drilling  
 RT percussive drills  
 RT rotary drills  
 RT spark drills

**DRILL CORES**

Cylindrical or columnar pieces of solid rock  
 or sections of soil, taken as samples of an  
 underground formation by a special hollow-  
 type drill bit.  
 UF cores (drill)  
 RT coring fluids  
 RT well logging

**drill cuttings removal**

INIS: 1993-03-23; ETDE: 1983-03-23  
 USE cuttings removal

**drill holes**

INIS: 2000-04-12; ETDE: 1985-05-31  
 USE boreholes

**DRILL PIPES**

INIS: 1992-03-25; ETDE: 1977-03-08  
 \*BT1 drilling equipment  
 \*BT1 pipes  
 RT drills

**drill ships**

INIS: 2000-04-12; ETDE: 1976-08-04  
 USE offshore platforms

USE ships

### DRILL STEM TESTING

INIS: 2000-04-12; ETDE: 1977-06-02

Testing involving temporary completion of a well to prove the productive possibilities of an oil or gas strike with the drill stem in the hole.

BT1 testing  
RT natural gas wells  
RT oil wells

### DRILLING

1991-08-14

NT1 directional drilling  
NT1 offshore drilling  
NT1 rock drilling  
NT1 rotary drilling  
NT1 well drilling  
RT cuttings removal  
RT drill bits  
RT drilling fluids  
RT mwd systems  
RT turbodrills  
RT wells

#### drilling (materials)

USE materials drilling

#### drilling (rock)

USE rock drilling

### DRILLING EQUIPMENT

INIS: 1992-03-11; ETDE: 1976-03-11

(From July 1978 till April 1997 CORING EQUIPMENT was a valid ETDE descriptor.)

UF core barrel  
UF coring equipment  
UF diamond drilling equipment  
BT1 equipment  
NT1 blowout preventers  
NT1 drill bits  
NT1 drill pipes  
NT1 drilling rigs  
NT1 drills  
NT2 jet drills  
NT2 percussive drills  
NT2 rotary drills  
NT3 turbodrills  
NT2 spark drills  
NT2 subterrene penetrators  
RT drilling fluids  
RT rotary drilling  
RT well drilling

### DRILLING FLUIDS

1991-10-11

Limited to materials used in well drilling.

UF drilling mud  
UF lost circulation  
BT1 fluids  
RT coring fluids  
RT cuttings removal  
RT drilling  
RT drilling equipment  
RT rotary drilling  
RT suspensions

#### drilling mud

1991-10-11

USE drilling fluids

#### drilling platforms

INIS: 1992-04-09; ETDE: 1976-03-11

USE offshore platforms

### DRILLING RIGS

INIS: 1992-03-25; ETDE: 1975-10-01

A drill machine complete with all tools and accessory equipment needed to drill boreholes.

\*BT1 drilling equipment

RT well drilling

#### drilling risers

INIS: 2000-04-12; ETDE: 1977-04-12

USE marine risers

### DRILLS

INIS: 1992-05-08; ETDE: 1977-03-08

\*BT1 drilling equipment  
NT1 jet drills  
NT1 percussive drills  
NT1 rotary drills  
NT2 turbodrills  
NT1 spark drills  
NT1 subterrene penetrators  
RT drill bits  
RT drill pipes  
RT rock drilling  
RT well drilling

### DRINKING WATER

UF potable water  
\*BT1 water  
RT auxiliary water systems  
RT beverages  
RT diet  
RT food  
RT fresh water  
RT ingestion  
RT water coolers  
RT water treatment

### DROPLET MODEL

\*BT1 nuclear models

### DROPLETS

BT1 particles  
RT aerosols  
RT atmospheric precipitations  
RT atomization  
RT liquids  
RT particle size  
RT rain  
RT spray cooling  
RT sprays  
RT washout

### DROPWISE CONDENSATION

BT1 vapor condensation

### DROSOPHILA

\*BT1 fruit flies

### DROUGHT RESISTANCE

INIS: 1997-03-14; ETDE: 1997-04-01

RT agriculture  
RT biological stress  
RT cultivation techniques  
RT irrigation  
RT plant breeding  
RT plant growth  
RT water requirements

### DROUGHTS

INIS: 1992-07-23; ETDE: 1986-07-25

Extensive periods of abnormally dry weather causing serious hydrologic imbalances.

RT arid lands  
RT atmospheric precipitations  
RT climates  
RT heat stress  
RT weather

### DRUG ABUSE

INIS: 1988-05-13; ETDE: 1982-08-11

RT drugs  
RT health hazards  
RT human factors  
RT occupational safety

### DRUG DELIVERY

2017-09-25

RT drugs

RT patients

RT therapy

### DRUGS

(From April 1981 to March 1997 HORMONE ANTAGONISTS was a valid ETDE descriptor.)

UF hormone antagonists  
UF medicines  
UF pharmaceuticals  
UF therapeutic agents  
NT1 anti-infective agents

NT2 antibiotics  
NT3 actinomycin  
NT3 bleomycin  
NT3 chloramphenicol  
NT3 cycloheximide  
NT3 doxorubicin  
NT3 erythromycin  
NT3 mitomycin  
NT3 neocarzinostatin  
NT3 neomycin  
NT3 penicillin  
NT3 puromycin  
NT3 streptomycin  
NT3 streptozocin  
NT3 tetracyclines  
NT4 oxytetracycline  
NT3 valinomycin  
NT2 antimicrobial agents  
NT3 fudr  
NT3 isoniazid  
NT3 methylene blue  
NT3 quinine  
NT3 sulfonamides

NT1 antiandrogens  
NT1 antihistaminics  
NT1 antimetabolites  
NT2 adenines  
NT3 kinetin  
NT2 aminopterin  
NT2 bromouracils  
NT3 budr  
NT2 deoxyuridine  
NT2 ethionine  
NT2 fluorodeoxyglucose  
NT2 fluorouracils  
NT3 fudr  
NT2 iodouracils  
NT3 iododeoxyuridine  
NT2 mercaptopurine  
NT2 methotrexate  
NT2 thiouracil  
NT1 antimitotic drugs  
NT2 actinomycin  
NT2 bleomycin  
NT2 colchicine  
NT2 mitomycin  
NT2 nem  
NT2 oncovin  
NT2 vinblastine  
NT1 antineoplastic drugs  
NT2 actinomycin  
NT2 aminopterin  
NT2 bleomycin  
NT2 chlorambucil  
NT2 doxorubicin  
NT2 metronidazole  
NT2 misonidazole  
NT2 mitomycin  
NT2 neocarzinostatin  
NT2 puromycin  
NT2 streptozocin  
NT1 antithyroid drugs  
NT2 thiocyanates  
NT3 ammonium thiocyanates  
NT2 thiouracil  
NT2 thiourea  
NT1 autonomic nervous system agents

**NT2** neuroregulators  
**NT3** acetylcholine  
**NT3** adrenaline  
**NT3** aminobutyric acid  
**NT3** dopa  
**NT3** dopamine  
**NT3** endorphins  
**NT4** enkephalins  
**NT3** noradrenaline  
**NT3** serotonin  
**NT4** bufotenine  
**NT2** parasympatholytics  
**NT3** atropine  
**NT3** nicotine  
**NT2** parasympathomimetics  
**NT3** acetylcholine  
**NT3** eserine  
**NT3** nicotine  
**NT3** pilocarpine  
**NT2** spiperone  
**NT2** sympatholytics  
**NT3** ergotamine  
**NT3** reserpine  
**NT2** sympathomimetics  
**NT3** adrenaline  
**NT3** amphetamines  
**NT4** benzedrine  
**NT3** dopamine  
**NT3** ephedrine  
**NT3** noradrenaline  
**NT3** serotonin  
**NT4** bufotenine  
**NT3** tyramine  
**NT1** cardiovascular agents  
**NT2** antihypertensive agents  
**NT3** reserpine  
**NT2** cardiotonics  
**NT3** adrenaline  
**NT3** cardiac glycosides  
**NT4** digitalis glycosides  
**NT5** digitoxin  
**NT5** digoxin  
**NT4** strophanthins  
**NT5** ouabain  
**NT3** dopamine  
**NT3** noradrenaline  
**NT2** vasoconstrictors  
**NT3** angiotensin  
**NT3** ephedrine  
**NT2** vasodilators  
**NT3** dipyridamole  
**NT3** theobromine  
**NT3** theophylline  
**NT1** central nervous system agents  
**NT2** analeptics  
**NT3** amphetamines  
**NT4** benzedrine  
**NT3** caffeine  
**NT2** central nervous system depressants  
**NT3** analgesics  
**NT4** acetylsalicylic acid  
**NT4** antipyrine  
**NT4** codeine  
**NT4** opium  
**NT5** morphine  
**NT6** thebaine  
**NT4** pethidine  
**NT3** anesthetics  
**NT4** barbiturates  
**NT5** nembutal  
**NT5** phenobarbital  
**NT4** cocaine  
**NT4** procaine  
**NT3** anticonvulsants  
**NT4** phenobarbital  
**NT3** antipyretics  
**NT4** acetylsalicylic acid  
**NT4** antipyrine  
**NT4** colchicine

**NT4** quinine  
**NT3** hypnotics and sedatives  
**NT4** barbiturates  
**NT5** nembutal  
**NT5** phenobarbital  
**NT4** chlorpromazine  
**NT4** codeine  
**NT4** reserpine  
**NT3** narcotics  
**NT4** heroin  
**NT4** methadone hydrochloride  
**NT4** opium  
**NT5** morphine  
**NT6** thebaine  
**NT4** pethidine  
**NT2** psychotropic drugs  
**NT3** antidepressants  
**NT4** cocaine  
**NT4** imipramine  
**NT3** hallucinogens  
**NT4** bufotenine  
**NT3** tranquilizers  
**NT4** chlorpromazine  
**NT4** reserpine  
**NT1** diuretics  
**NT2** neohydrin  
**NT2** sorbitol  
**NT2** theobromine  
**NT2** theophylline  
**NT1** hematologic agents  
**NT2** anticoagulants  
**NT3** coumarin  
**NT3** heparin  
**NT3** psoralen  
**NT2** blood substitutes  
**NT3** dextran  
**NT3** pectins  
**NT3** pvp  
**NT2** coagulants  
**NT3** protamines  
**NT2** fibrinolytic agents  
**NT3** fibrinolysin  
**NT3** plasminogen  
**NT3** urokinase  
**NT2** hematinics  
**NT3** folic acid  
**NT3** intrinsic factor  
**NT3** vitamin b-12  
**NT1** immunosuppressive drugs  
**NT2** cyclosporine  
**NT2** endoxan  
**NT1** lipotropic factors  
**NT2** betaine  
**NT2** choline  
**NT2** ethionine  
**NT2** inositol  
**NT2** methionine  
**NT2** phytic acid  
**NT2** thioctic acid  
**NT1** radiomimetic drugs  
**NT2** neocarcinostatin  
**NT1** radiopharmaceuticals  
**NT1** radioprotective substances  
**NT2** beta-aminoethyl isothiourrea  
**NT2** cystamine  
**NT2** cystaphos  
**NT2** cysteamine  
**NT2** dimercaprol  
**NT2** dtpa  
**NT2** gammaphos  
**NT2** glutathione  
**NT2** hydroxytryptophan  
**NT2** kallikrein  
**NT2** mercaptoethylguanidine  
**NT2** mercaptopropylamine  
**NT2** mexamine  
**NT2** mpg  
**NT2** penicillamine  
**NT2** serotonin

**NT3** bufotenine  
**NT1** radiosensitizers  
**NT2** fudr  
**NT2** metronidazole  
**NT2** misonidazole  
**NT2** nem  
**NT2** triacetoneamine-n-oxyl  
*RT* antiseptics  
*RT* chelating agents  
*RT* chemotherapy  
*RT* clinical trials  
*RT* consumer products  
*RT* disinfectants  
*RT* drug abuse  
*RT* drug delivery  
*RT* food additives  
*RT* medical supplies  
*RT* medicinal plants  
*RT* microbial drug resistance  
*RT* mutagens  
*RT* ointments  
*RT* pharmacology  
*RT* teratogens  
*RT* therapeutic doses  
*RT* therapy  
*RT* toxicity  
*RT* vitamins  
*RT* xenobiotics

**DRUM WALLS**

*INIS: 1992-08-25; ETDE: 1979-02-27*

*UF* baer walls

\**BT1* passive solar cooling systems

\**BT1* passive solar heating systems

*BT1* walls

*RT* buildings

**DRY ASHING**

*UF* ashing (dry)

*RT* combustion

*RT* sample preparation

**dry deposition**

*INIS: 2000-04-12; ETDE: 1980-01-15*

*USE* deposition

**DRY HOLES**

*INIS: 2000-04-12; ETDE: 1977-06-02*

*Wells that are not expected to produce hydrocarbons in sufficient quantities to make their development into producing wells a worthwhile proposition. They may or may not have shown the presence of oil or gas.*

*BT1* wells

*RT* natural gas wells

*RT* oil wells

**DRY SCRUBBERS**

*INIS: 1992-07-06; ETDE: 1981-07-18*

*Scrubbers in which a slurry is sprayed, or dry powder is injected, into the flue gas to react with the sulfur dioxide and collected in a baghouse or precipitator.*

\**BT1* scrubbers

*RT* desulfurization

*RT* flue gas

*RT* spray drying

**dry-steam systems**

*INIS: 2000-04-12; ETDE: 1976-03-25*

*USE* vapor-dominated systems

**DRY STORAGE**

*INIS: 1996-04-16; ETDE: 1981-06-13*

*BT1* storage

*RT* away-from-reactor storage

*RT* radioactive waste storage

*RT* spent fuel storage

*RT* wet storage

**dry-type cooling towers**

2000-04-12

- USE closed-cycle cooling systems
- USE cooling towers

**DRYERS**

INIS: 1976-10-07; ETDE: 1975-10-01  
(From January 1977 to February 1997 DEHYDRATORS was a valid ETDE descriptor.)

- UF dehydrators
- NT1 clothes dryers
- NT1 microwave dryers
- NT1 solar dryers
- RT dehumidifiers
- RT desiccants
- RT dewatering equipment
- RT drying
- RT evaporators

**DRYING**

(From December 1978 to February 1997 DEHUMIDIFICATION was a valid ETDE descriptor.)

- SF dehumidification
- NT1 solar drying
- NT1 spray drying
- RT coal preparation
- RT curing
- RT dehydration
- RT desiccants
- RT dryers
- RT evaporation
- RT lyophilization
- RT solar kilns

**DRYOUT**

- RT burnout
- RT heat flux
- RT hot spots
- RT rewetting

**DSA METHOD**

INIS: 1979-12-20; ETDE: 1980-01-24  
Used for the determination of lifetimes of nuclear levels.

- UF doppler shift attenuation method
- BT1 counting techniques
- RT doppler effect
- RT lifetime

**dsnadns**

2000-04-12

(Prior to June 1996 BERYLLON was a valid ETDE descriptor.)

- USE arsonic acids
- USE azo dyes
- USE dicarboxylic acids
- USE naphthols
- USE sulfonic acids

**dta**

- USE differential thermal analysis

**dto**

1996-06-19

- USE deuterium compounds
- USE tritium oxides

**DTPA**

Diethylenetriaminepentaacetic acid.

- UF diethylenetriaminepentaacetic acid
- \*BT1 amino acids
- BT1 chelating agents
- \*BT1 radioprotective substances

**DUAL ABSORPTION MODEL**

- \*BT1 particle models

**DUAL CYCLE COOLING SYSTEMS**

- \*BT1 reactor cooling systems

**dual energy use systems**

INIS: 2000-04-12; ETDE: 1978-11-14  
(From November 1978 till February 1997 DEUS was used for this concept in ETDE.)  
USE cogeneration

**DUAL-FUEL ENGINES**

INIS: 1992-07-22; ETDE: 1977-07-23  
Usually diesel engines modified to include a gas supply system for operation in dual mode.  
\*BT1 internal combustion engines  
RT diesel engines  
RT fuel gas

**DUAL-ISOTOPE SUBTRACTION TECHNIQUE**

1992-07-10  
(Until July 1992, this descriptor was spelled DUAL-ISOTOPESUBTRACTION TEC.)  
\*BT1 tracer techniques  
RT radiopharmaceuticals  
RT scintiscanning

**DUAL-PURPOSE POWER PLANTS**

INIS: 1977-01-26; ETDE: 1976-03-22  
UF cogeneration plants  
SF mcpp  
SF modular cogeneration power plants  
BT1 power plants  
RT cogeneration  
RT desalination  
RT desalination plants  
RT district heating  
RT power generation  
RT process heat  
RT refuse-fueled power plants

**DUAL RESONANCE MODEL**

- \*BT1 veneziano model
- RT duality

**DUAL TEMPERATURE PROCESS**

ETDE: 1975-09-11  
UF gs process  
\*BT1 isotope separation  
BT1 isotopic exchange  
RT heavy water

**DUAL-USE TECHNOLOGIES**

2013-12-06  
Products and technologies normally used for civilian purposes but which may have military applications.  
RT non-proliferation treaty  
RT nuclear engineering  
RT nuclear materials diversion  
RT proliferation  
RT safeguards  
RT technology transfer

**DUALITY**

Correlation between resonance poles and scattering amplitudes.  
RT dual resonance model  
RT scattering amplitudes

**DUANE ARNOLD-1 REACTOR**

Nuclear Management Co., LLC, Palo, Iowa, USA.  
\*BT1 bwr type reactors

**dubai**

INIS: 1992-05-07; ETDE: 1976-08-05  
USE united arab emirates

**DUBNA**

2000-04-12  
\*BT1 russian federation

**dubna, jinr**

INIS: 1975-10-09; ETDE: 2002-06-13  
USE jinr

**dubna ibr-2 reactor**

INIS: 1978-01-13; ETDE: 2002-06-13  
USE ibr-2 reactor

**dubna pulsed reactor**

2000-04-12  
USE ibr-2 reactor

**dubna synchrocyclotron**

- USE jinr phasotron

**DUBNIUM**

2004-03-18  
(Prior to March 2004 ELEMENT 105 was used for this element.)  
UF eka-tantalum  
UF element 105  
UF hahnium  
UF unilpentium  
\*BT1 transactinide elements

**DUBNIUM 255**

2004-03-18  
(Prior to March 2004 ELEMENT 105 255 was used for this concept.)  
UF element 105 255  
\*BT1 alpha decay radioisotopes  
\*BT1 dubnium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DUBNIUM 256**

2004-03-18  
(Prior to March 2004 ELEMENT 105 256 was used for this concept.)  
UF element 105 256  
\*BT1 alpha decay radioisotopes  
\*BT1 dubnium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DUBNIUM 257**

2004-03-18  
(Prior to March 2004 ELEMENT 105 257 was used for this concept.)  
UF element 105 257  
\*BT1 alpha decay radioisotopes  
\*BT1 dubnium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DUBNIUM 258**

2004-03-19  
(Prior to March 2004 ELEMENT 105 258 was used for this concept.)  
UF element 105 258  
\*BT1 alpha decay radioisotopes  
\*BT1 dubnium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DUBNIUM 259**

2004-03-19  
(Prior to March 2004 ELEMENT 105 259 was used for this concept.)  
UF element 105 259  
\*BT1 dubnium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DUBNIUM 260**

2004-03-19

(Prior to March 2004 ELEMENT 105 260 was used for this element.)

*UF element 105 260*

- \*BT1 alpha decay radioisotopes
- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 261**

2004-03-19

(Prior to March 2004 ELEMENT 105 261 was used for this concept.)

*UF element 105 261*

- \*BT1 alpha decay radioisotopes
- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 262**

2004-03-19

(Prior to March 2004 ELEMENT 105 262 was used for this concept.)

*UF element 105 262*

- \*BT1 alpha decay radioisotopes
- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 263**

2004-03-19

(Prior to March 2004 ELEMENT 105 263 was used for this concept.)

*UF element 105 263*

- \*BT1 alpha decay radioisotopes
- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 264**

2007-01-24

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**DUBNIUM 265**

2007-01-24

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**DUBNIUM 266**

2007-01-24

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**DUBNIUM 267**

2007-01-24

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 268**

2006-10-11

- \*BT1 days living radioisotopes

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 269**

2007-01-24

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**DUBNIUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 105 COMPOUNDS was used for this concept.)

*UF element 105 compounds*

- \*BT1 transactinide compounds

**DUBNIUM IONS**

2018-01-24

- \*BT1 ions

**DUBNIUM ISOTOPES**

2004-03-18

(Prior to March 2004 ELEMENT 105 ISOTOPES was used for this concept.)

*UF element 105 isotopes*

- BT1 isotopes
- NT1 dubnium 255
- NT1 dubnium 256
- NT1 dubnium 257
- NT1 dubnium 258
- NT1 dubnium 259
- NT1 dubnium 260
- NT1 dubnium 261
- NT1 dubnium 262
- NT1 dubnium 263
- NT1 dubnium 264
- NT1 dubnium 265
- NT1 dubnium 266
- NT1 dubnium 267
- NT1 dubnium 268
- NT1 dubnium 269

**DUCKS**

- \*BT1 fowl

**DUCTILE-BRITTLE TRANSITIONS**

- UF transitions (ductile-brittle)*
- RT brittleness
- RT ductility
- RT embrittlement
- RT transition temperature

**DUCTILITY**

- \*BT1 tensile properties
- RT brittle-ductile transitions
- RT ductile-brittle transitions
- RT plasticity

**DUCTS**

- UF ventilation ducts*
- RT diffusers
- RT fuel channels
- RT openings
- RT pipes
- RT tubes
- RT wind tunnels

**ducts (tear)**

*INIS: 1977-07-05; ETDE: 2002-06-13*  
 USE lacrimal ducts

**DUDVAH RIVER***INIS: 2001-12-06; ETDE: 2002-01-18*

- \*BT1 rivers
- RT slovakia

**DUKOVANY-1 REACTOR**

1997-08-20

*Dukovany, South Moravia, Czech Republic.*  
*SF dukovany v-2 reactor*

*SF v-2 reactor (dukovany)*

- \*BT1 wwer type reactors

**DUKOVANY-2 REACTOR**

1997-08-20

*Dukovany, South Moravia, Czech Republic.*

- SF dukovany v-2 reactor*
- SF v-2 reactor (dukovany)*
- \*BT1 wwer type reactors

**DUKOVANY-3 REACTOR**

1997-08-20

*Dukovany, South Moravia, Czech Republic.*

- SF dukovany v-2 reactor*
- SF v-2 reactor (dukovany)*
- \*BT1 wwer type reactors

**DUKOVANY-4 REACTOR**

1997-08-20

*Dukovany, South Moravia, Czech Republic.*

- SF dukovany v-2 reactor*
- SF v-2 reactor (dukovany)*
- \*BT1 wwer type reactors

**dukovany v-2 reactor**

1997-08-20

(Until August 1997 this was a valid descriptor.)

- SEE dukovany-1 reactor
- SEE dukovany-2 reactor
- SEE dukovany-3 reactor
- SEE dukovany-4 reactor

**DUMAND PROJECT***INIS: 1980-04-02; ETDE: 1979-09-06**Deep Underwater Muon And Neutrino Detection Project.*

- RT acoustic detection
- RT coordinated research programs
- RT international cooperation
- RT muon detection
- RT neutrino detection
- RT underwater
- RT underwater facilities

**dumontite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE phosphate minerals
- USE uranium minerals

**dunes***INIS: 2000-04-12; ETDE: 1984-08-20**Low mounds, ridges, banks, or hills of loose, windblown granular material, usually sand, capable of movement.*

(Prior to February 1997 this was a valid ETDE descriptor.)

- SEE sand

**DUNGENESS-A REACTOR***Dungeness Point, Kent, United Kingdom.**Permanently shut down since 1990.*

- \*BT1 carbon dioxide cooled reactors
- \*BT1 magnox type reactors
- \*BT1 thermal reactors

**DUNGENESS-B REACTOR***Romney Marsh, Kent, United Kingdom.*

- \*BT1 agr type reactors
- \*BT1 carbon dioxide cooled reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**duodenum**

- USE small intestine

**DUOPLASMATRONS**

- \*BT1 plasmatron ion sources

**durability**

2008-05-23

Ability of equipment or materials to remain useful after a great amount of usage or a long period of time.

- SEE hardness  
SEE service life  
SEE wear resistance

**DURALUMIN**

1993-10-03

- \*BT1 alloy-al95cu4

**DURANALIUM**

2000-04-12

- \*BT1 aluminium base alloys  
\*BT1 magnesium alloys

**DURANICKEL**

2000-04-12

- \*BT1 aluminium alloys  
\*BT1 copper additions  
\*BT1 iron additions  
\*BT1 manganese additions  
\*BT1 nickel base alloys  
\*BT1 silicon additions  
\*BT1 titanium additions

**DURCO**

2000-04-12

- \*BT1 chromium-nickel steels

**DURENE**

UF 1,2,4,5-tetramethylbenzene

- \*BT1 alkylated aromatics

**DURIRON**

2000-04-12

- \*BT1 carbon additions  
\*BT1 iron base alloys  
\*BT1 manganese additions  
\*BT1 silicon alloys

**DUST COLLECTORS**

INIS: 1976-10-07; ETDE: 1976-02-19

- UF collectors (dust)  
RT dusts  
RT electrostatic precipitators  
RT fabric filters  
RT filters  
RT inertial separators  
RT scrubbers  
RT separation processes

**DUST COOLED REACTORS**

- BT1 reactors

**dust fueled reactors**

- USE fluid fueled reactors

**DUSTS**

- UF respirable dusts  
NT1 cosmic dust  
RT acoustic agglomerators  
RT aerosols  
RT dispersions  
RT dust collectors  
RT elutriation  
RT filters  
RT inhalation  
RT lunar materials  
RT overburden  
RT particle resuspension  
RT particle size  
RT particles  
RT particulates  
RT pneumoconioses  
RT powders  
RT respirators  
RT rock dusting  
RT sedimentation

**DUSTY PLASMA**

2018-10-04

Plasma containing charged dust particles

- BT1 plasma  
RT astrophysics  
RT cosmic dust

**DWARF STARS**

- BT1 stars  
NT1 black dwarf stars  
NT1 red dwarf stars  
NT1 white dwarf stars  
RT helium burning

**DWBA**

- UF approximation (distorted-wave)  
UF distorted wave born approximation  
\*BT1 born approximation  
RT distorted wave theory  
RT nuclear reaction kinetics  
RT scattering

**DYE LASERS**

1999-08-16

Based on transitions between vibrationally broadened electronic states of polyatomic molecules.

- \*BT1 liquid lasers  
RT chemical lasers

**DYES**

1996-07-18

- UF murexide  
UF purpuric acid  
SF chemicals  
NT1 acridine orange  
NT1 alizarin  
NT1 azo dyes  
NT2 eriochrome dyes  
NT2 evans blue  
NT2 methyl orange  
NT2 methyl red  
NT2 toluidine blue  
NT2 trypan blue  
NT1 curcumin  
NT1 cyanine dyes  
NT1 eosin  
NT1 fluorescein  
NT2 erythrosine  
NT1 hematoxylin  
NT1 indigo  
NT1 indocyanine green  
NT1 morin  
NT1 phthalocyanines  
NT1 pyrocatechol violet  
NT1 quinizarin  
NT1 rhodamines  
NT1 rose bengal  
NT1 squarylium dyes  
NT1 triphenylmethane dyes  
NT2 methyl violet  
NT2 methylthymol blue  
NT1 xlenol orange  
RT anthraquinones  
RT carminic acid  
RT chromotropic acid  
RT colorimetric dosimeters  
RT diazo compounds  
RT inks  
RT organic solar cells  
RT photochromic materials  
RT stains

**dymac system**

INIS: 2000-04-12; ETDE: 1982-11-08

- USE nuclear materials management  
USE plutonium

**DYNAMIC FUNCTION STUDIES**

INIS: 1975-10-29; ETDE: 1975-12-16

- UF dynamic studies (biological)

- RT biological functions  
RT biological markers  
RT equilibrium  
RT flow rate  
RT radionuclide kinetics  
RT radiopharmaceuticals  
RT sequential scanning  
RT structure-activity relationships  
RT tracer techniques

**dynamic inducer rotors**

INIS: 2000-04-12; ETDE: 1978-09-13

- USE tipvane rotors

**DYNAMIC LOADS**

INIS: 1981-02-27; ETDE: 1976-08-04

- UF load (dynamic)  
UF loads (dynamic)  
NT1 wind loads  
RT deformation  
RT mechanical tests  
RT mechanical vibrations  
RT pipe whip  
RT ratcheting  
RT soil-structure interactions  
RT static loads  
RT stresses

**DYNAMIC MAGNETIC FIELDS**

2018-03-01

- UF magnetodynamics  
BT1 magnetic fields

**DYNAMIC MASS SPECTROMETERS**

- UF r-f mass spectrometers  
\*BT1 mass spectrometers  
NT1 energy balance mass spectrometers  
NT1 time-of-flight mass spectrometers

**dynamic materials accountability system**

INIS: 2000-04-12; ETDE: 1982-11-08

- USE nuclear materials management  
USE plutonium

**DYNAMIC PROGRAMMING**

- BT1 calculation methods  
RT econometrics  
RT linear programming  
RT mathematical models  
RT nonlinear programming  
RT optimization

**dynamic studies (biological)**

INIS: 1975-10-29; ETDE: 1975-12-16

- USE dynamic function studies

**dynamical boson-fermion symmetry**

1984-12-04

- USE boson-fermion symmetry

**DYNAMICAL GROUPS**

- BT1 symmetry groups  
NT1 o groups  
RT boson-fermion symmetry

**DYNAMICAL SYSTEMS**

2018-02-16

A system in which a function describes the time dependence of a point in a geometrical space

- NT1 integrable systems  
RT differential operators  
RT mathematical manifolds

**DYNAMICS**

INIS: 1982-12-06; ETDE: 1979-02-27

Study of the motion of a system of particles under the influence of forces.

- BT1 mechanics  
NT1 beam dynamics  
NT2 beam bunching

**NT2** betatron oscillations  
**NT2** phase oscillations  
**NT2** synchrotron oscillations  
*RT* bifurcation  
*RT* collisions  
*RT* kinetics  
*RT* limit cycle  
**dynamics (beam)**  
 2000-04-12  
 USE beam dynamics  
**DYNAMITE**  
 \*BT1 chemical explosives  
**DYNAMITRONS**  
 \*BT1 electrostatic accelerators  
*RT* tandem electrostatic accelerators  
**DYNAMOMETERS**  
 BT1 measuring instruments  
**DYNODES**  
*RT* electron multipliers  
**DYONS**  
*Hypothetical particles endowed with both electric and magnetic charges.*  
 \*BT1 postulated particles  
**DYSON REPRESENTATION**  
*RT* boson expansion  
*RT* quantum field theory  
**DYSPROSIUM**  
 \*BT1 rare earths  
**DYSPROSIUM 138**  
 2007-10-22  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 rare earth nuclei  
**DYSPROSIUM 139**  
 2007-10-22  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 rare earth nuclei  
**DYSPROSIUM 140**  
 2004-10-19  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
**DYSPROSIUM 141**  
*INIS: 1984-08-23; ETDE: 1984-09-05*  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
**DYSPROSIUM 142**  
*INIS: 1987-02-25; ETDE: 1987-05-01*  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
**DYSPROSIUM 143**  
*INIS: 1984-08-23; ETDE: 1984-09-05*  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei

\*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
**DYSPROSIUM 144**  
*INIS: 1986-10-29; ETDE: 1986-11-20*  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
**DYSPROSIUM 145**  
*INIS: 1982-08-27; ETDE: 1982-07-08*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
**DYSPROSIUM 146**  
 1981-09-17  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
**DYSPROSIUM 147**  
*ETDE: 1975-07-29*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
**DYSPROSIUM 148**  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei  
**DYSPROSIUM 149**  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei  
**DYSPROSIUM 150**  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei  
**DYSPROSIUM 151**  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei  
**DYSPROSIUM 152**  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes

\*BT1 rare earth nuclei  
**DYSPROSIUM 153**  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 rare earth nuclei  
**DYSPROSIUM 154**  
 \*BT1 alpha decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 years living radioisotopes  
**DYSPROSIUM 154 TARGET**  
*INIS: 1977-09-15; ETDE: 1977-11-10*  
 BT1 targets  
**DYSPROSIUM 155**  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 rare earth nuclei  
**DYSPROSIUM 156**  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes  
**DYSPROSIUM 156 TARGET**  
*INIS: 1976-02-11; ETDE: 1976-07-12*  
 BT1 targets  
**DYSPROSIUM 157**  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 rare earth nuclei  
**DYSPROSIUM 158**  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes  
**DYSPROSIUM 158 TARGET**  
*INIS: 1975-09-26; ETDE: 1976-07-09*  
 BT1 targets  
**DYSPROSIUM 159**  
 \*BT1 days living radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 rare earth nuclei  
**DYSPROSIUM 160**  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes  
**DYSPROSIUM 160 TARGET**  
*ETDE: 1976-07-09*  
 BT1 targets  
**DYSPROSIUM 161**  
 \*BT1 dysprosium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**DYSPROSIUM 161 REACTIONS**

1984-11-30

\*BT1 heavy ion reactions

**DYSPROSIUM 161 TARGET**

ETDE: 1976-07-09

BT1 targets

**DYSPROSIUM 162**

\*BT1 dysprosium isotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 stable isotopes

**DYSPROSIUM 162 TARGET**

ETDE: 1976-07-09

BT1 targets

**DYSPROSIUM 163**

\*BT1 dysprosium isotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 stable isotopes

**DYSPROSIUM 163 TARGET**

ETDE: 1976-07-09

BT1 targets

**DYSPROSIUM 164**

\*BT1 dysprosium isotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 stable isotopes

**DYSPROSIUM 164 TARGET**

ETDE: 1976-07-09

BT1 targets

**DYSPROSIUM 165**

\*BT1 beta-minus decay radioisotopes

\*BT1 dysprosium isotopes

\*BT1 even-odd nuclei

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

**DYSPROSIUM 165 TARGET**

INIS: 1981-08-06; ETDE: 1981-09-22

BT1 targets

**DYSPROSIUM 166**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 dysprosium isotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

**DYSPROSIUM 167**

\*BT1 beta-minus decay radioisotopes

\*BT1 dysprosium isotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

**DYSPROSIUM 168**

INIS: 1982-08-27; ETDE: 1980-05-06

\*BT1 beta-minus decay radioisotopes

\*BT1 dysprosium isotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

**DYSPROSIUM 169**

INIS: 1990-12-05; ETDE: 1991-01-15

\*BT1 beta-minus decay radioisotopes

\*BT1 dysprosium isotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**DYSPROSIUM 170**

2007-10-22

\*BT1 beta-minus decay radioisotopes

\*BT1 dysprosium isotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**DYSPROSIUM 171**

2007-10-22

\*BT1 beta-minus decay radioisotopes

\*BT1 dysprosium isotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**DYSPROSIUM 172**

2007-10-22

\*BT1 beta-minus decay radioisotopes

\*BT1 dysprosium isotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

**DYSPROSIUM 173**

2007-10-22

\*BT1 beta-minus decay radioisotopes

\*BT1 dysprosium isotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

**DYSPROSIUM ADDITIONS***Alloys containing not more than 1% Dy are listed here.*

\*BT1 dysprosium alloys

\*BT1 rare earth additions

**DYSPROSIUM ALLOYS***Alloys containing more than 1% Dy.*

\*BT1 rare earth alloys

NT1 dysprosium additions

NT1 dysprosium base alloys

**DYSPROSIUM BASE ALLOYS**

\*BT1 dysprosium alloys

**DYSPROSIUM BORIDES**

\*BT1 borides

\*BT1 dysprosium compounds

**DYSPROSIUM BROMIDES**

\*BT1 bromides

\*BT1 dysprosium halides

**DYSPROSIUM CARBIDES**

\*BT1 carbides

\*BT1 dysprosium compounds

**DYSPROSIUM CHLORIDES**

\*BT1 chlorides

\*BT1 dysprosium halides

**DYSPROSIUM COMPLEXES**

\*BT1 rare earth complexes

**DYSPROSIUM COMPOUNDS**

1997-06-17

BT1 rare earth compounds

NT1 dysprosium borides

NT1 dysprosium carbides

NT1 dysprosium halides

NT2 dysprosium bromides

NT2 dysprosium chlorides

NT2 dysprosium fluorides

NT2 dysprosium iodides

NT1 dysprosium hydrides

NT1 dysprosium hydroxides

NT1 dysprosium nitrates

NT1 dysprosium nitrides

NT1 dysprosium oxides

NT1 dysprosium perchlorates

NT1 dysprosium phosphates

NT1 dysprosium phosphides

NT1 dysprosium selenides

NT1 dysprosium silicates

NT1 dysprosium silicides

NT1 dysprosium sulfates

NT1 dysprosium sulfides

NT1 dysprosium tellurides

NT1 dysprosium tungstates

**DYSPROSIUM FLUORIDES**

\*BT1 dysprosium halides

\*BT1 fluorides

**DYSPROSIUM HALIDES**

2012-07-19

\*BT1 dysprosium compounds

\*BT1 halides

NT1 dysprosium bromides

NT1 dysprosium chlorides

NT1 dysprosium fluorides

NT1 dysprosium iodides

**DYSPROSIUM HYDRIDES**

\*BT1 dysprosium compounds

\*BT1 hydrides

**DYSPROSIUM HYDROXIDES**

\*BT1 dysprosium compounds

\*BT1 hydroxides

**DYSPROSIUM IODIDES**

\*BT1 dysprosium halides

\*BT1 iodides

**DYSPROSIUM IONS**

\*BT1 ions

**DYSPROSIUM ISOTOPES**

BT1 isotopes

NT1 dysprosium 138

NT1 dysprosium 139

NT1 dysprosium 140

NT1 dysprosium 141

NT1 dysprosium 142

NT1 dysprosium 143

NT1 dysprosium 144

NT1 dysprosium 145

NT1 dysprosium 146

NT1 dysprosium 147

NT1 dysprosium 148

NT1 dysprosium 149

NT1 dysprosium 150

NT1 dysprosium 151

NT1 dysprosium 152

NT1 dysprosium 153

NT1 dysprosium 154

NT1 dysprosium 155

NT1 dysprosium 156

NT1 dysprosium 157

NT1 dysprosium 158

NT1 dysprosium 159

NT1 dysprosium 160

NT1 dysprosium 161

NT1 dysprosium 162

NT1 dysprosium 163

NT1 dysprosium 164

NT1 dysprosium 165

NT1 dysprosium 166

NT1 dysprosium 167

NT1 dysprosium 168

NT1 dysprosium 169

NT1 dysprosium 170

NT1 dysprosium 171

NT1 dysprosium 172

NT1 dysprosium 173

**DYSPROSIUM NITRATES**

\*BT1 dysprosium compounds

\*BT1 nitrates

**DYSPROSIUM NITRIDES**

\*BT1 dysprosium compounds

\*BT1 nitrides



**DYSPROSIUM OXIDES**

- \*BT1 dysprosium compounds
- \*BT1 oxides

**DYSPROSIUM PERCHLORATES**

1996-07-18

(From July 1996 to November 2007

DYSPROSIUM COMPOUNDS + PERCHLORATES was used for this concept.)

- \*BT1 dysprosium compounds
- \*BT1 perchlorates

**DYSPROSIUM PHOSPHATES**

1975-10-23

- \*BT1 dysprosium compounds
- \*BT1 phosphates

**DYSPROSIUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1977-04-12

- \*BT1 dysprosium compounds
- \*BT1 phosphides

**DYSPROSIUM SELENIDES**

INIS: 1982-02-10; ETDE: 1977-12-22

- \*BT1 dysprosium compounds
- \*BT1 selenides

**DYSPROSIUM SILICATES**

INIS: 1991-09-16; ETDE: 1982-12-01

- \*BT1 dysprosium compounds
- \*BT1 silicates

**DYSPROSIUM SILICIDES**

- \*BT1 dysprosium compounds
- \*BT1 silicides

**DYSPROSIUM SULFATES**

- \*BT1 dysprosium compounds
- \*BT1 sulfates

**DYSPROSIUM SULFIDES**

- \*BT1 dysprosium compounds
- \*BT1 sulfides

**DYSPROSIUM TELLURIDES**

INIS: 1978-02-23; ETDE: 1977-10-20

- \*BT1 dysprosium compounds
- \*BT1 tellurides

**DYSPROSIUM TUNGSTATES**

INIS: 2000-04-12; ETDE: 1977-06-02

- \*BT1 dysprosium compounds
- \*BT1 tungstates

**e-1422 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

- USE f1-1420 mesons

**e-beam type reactors**

INIS: 1982-11-29; ETDE: 1976-09-15

- USE electron beam fusion reactors

**E CENTERS**

- \*BT1 color centers

**E CODES**

- BT1 computer codes

**e layer**

- USE e region

**E-LEARNING**

2016-06-24

UF computer-aided instruction

UF electronic learning

- BT1 learning
- \*BT1 training

**E REGION**

UF e layer

- \*BT1 ionosphere
- NT1 sporadic e

**E STATES**

- BT1 energy levels

**e-wastes**

2016-03-21

- USE electronic wastes

**E0-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric monopole transitions.

UF electric monopole transitions

- \*BT1 multipole transitions

**E1-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric dipole transitions.

UF electric dipole transitions

- \*BT1 multipole transitions

**E2-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric quadrupole transitions.

UF electric quadrupole transitions

- \*BT1 multipole transitions

**E3-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric octupole transitions.

UF electric octupole transitions

- \*BT1 multipole transitions

**E4-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric hexadecapole transitions.

UF electric hexadecapole transitions

- \*BT1 multipole transitions

**early notification convention**

INIS: 1989-02-24; ETDE: 1989-03-20

- USE cenna

**EARLY RADIATION EFFECTS**

UF early radiation injuries

UF immediate radiation effects

- \*BT1 biological radiation effects

RT biological indicators

RT delayed radiation effects

RT time dependence

**early radiation injuries**

- USE early radiation effects

- USE radiation injuries

**ears**

- USE auditory organs

**earth (electric grounds)**

INIS: 1982-06-09; ETDE: 2002-06-13

- USE electric grounds

**EARTH ATMOSPHERE**

NT1 earth magnetosphere

NT2 magnetotail

NT2 plasma sheet

NT2 plasmopause

NT2 plasmasphere

NT1 exosphere

NT1 ionosphere

NT2 c region

NT2 d region

NT2 e region

NT3 sporadic e

NT2 f region

NT3 f1 layer

NT3 f2 layer

NT3 spread f

NT1 mesosphere

NT1 stratosphere

NT1 thermosphere

NT1 troposphere

NT2 tropopause

RT air

- RT airglow
- RT atmospheric circulation
- RT atmospheric explosions
- RT atmospheric precipitations
- RT atmospheric pressure
- RT earth planet
- RT environment
- RT fallout
- RT geocorona
- RT global aspects
- RT greenhouse effect
- RT meteorology
- RT radioactive clouds
- RT residence half-time
- RT surface air
- RT temperature inversions

**EARTH BERMS**

INIS: 2000-04-12; ETDE: 1979-09-26

Earth banks used to moderate temperature change.

UF berms

RT earth-covered buildings

RT landscaping

RT thermal insulation

**EARTH CORE**

1988-02-02

UF core (earth)

RT earth crust

RT earth mantle

RT earth planet

**EARTH-COVERED BUILDINGS**

INIS: 1997-06-17; ETDE: 1977-09-19

UF underground buildings

BT1 buildings

RT earth berms

RT fallout shelters

RT subsurface structures

**EARTH CRUST**

(Prior to March 1997 MOHOLE PROJECT was a valid ETDE descriptor.)

SF mohole project

NT1 continental crust

NT1 oceanic crust

RT earth core

RT earth mantle

RT earth planet

RT geology

RT geomorphology

RT geothermal energy

RT natural occurrence

RT particle resuspension

RT plate tectonics

RT sea bed

RT sea-floor spreading

RT soil mechanics

RT volcanoes

**EARTH MAGNETOSPHERE**

INIS: 1999-04-28; ETDE: 1979-10-03

UF magnetosphere (earth)

BT1 earth atmosphere

NT1 magnetotail

NT1 plasma sheet

NT1 plasmopause

NT1 plasmasphere

RT geomagnetic field

RT international magnetospheric study

RT loss cone

RT magnetic storms

RT magnetopause

RT magnetosheath

RT planetary magnetospheres

RT polar cusp

RT radiation belts

**EARTH MANTLE**

1985-12-10

*Intermediate shell zone of the earth below the crust and above the core.*

SF mohole project  
 RT earth core  
 RT earth crust  
 RT earth planet  
 RT overburden

**EARTH PENETRATORS**

INIS: 2000-04-12; ETDE: 1976-09-28

BT1 penetrators  
 NT1 subterrene penetrators  
 RT projectiles

**EARTH PLANET**

1999-04-28

SF world  
 BT1 planets  
 NT1 northern hemisphere  
 NT1 southern hemisphere  
 RT continental crust  
 RT earth atmosphere  
 RT earth core  
 RT earth crust  
 RT earth mantle  
 RT geography  
 RT geology  
 RT geophysics  
 RT oceanic crust  
 RT oceanography  
 RT topography

**earthing**INIS: 2000-04-12; ETDE: 1984-02-10  
USE electric grounds**earthing (electric grounds)**INIS: 1984-02-22; ETDE: 2002-06-13  
USE electric grounds**EARTHMOVING EQUIPMENT**

INIS: 1983-06-30; ETDE: 1977-03-04

UF excavators  
 \*BT1 materials handling equipment  
 NT1 bucket wheel excavators  
 NT1 draglines  
 RT boreholes  
 RT excavation  
 RT mining equipment  
 RT vehicles

**earthquake foci**

INIS: 2000-04-12; ETDE: 1979-04-11

*Those points within the earth which are the center of earthquakes and the origins of their elastic waves.*

(Prior to February 1997 this was a valid ETDE descriptor.)

USE earthquakes  
 USE origin

**earthquake magnitude**

INIS: 2000-04-12; ETDE: 1978-06-14

*A measure of the strength of an earthquake or the strain energy released by it, as determined by seismographic observations.*

(Prior to March 1996 this was a valid ETDE descriptor.)

USE earthquakes

**EARTHQUAKES**

(From June 1978 until March 1996

EARTHQUAKE MAGNITUDE was a valid ETDE descriptor.)

UF benioff zone  
 UF earthquake foci  
 UF earthquake magnitude  
 BT1 seismic events  
 NT1 microearthquakes

RT aftershocks  
 RT epicenters  
 RT exceptional natural disaster  
 RT foreshocks  
 RT geodetic surveys  
 RT geologic faults  
 RT ground motion  
 RT hypocenters  
 RT landslides  
 RT precursor  
 RT rayleigh waves  
 RT seismic effects  
 RT seismic isolation  
 RT seismic p waves  
 RT seismic s waves  
 RT seismic surface waves  
 RT seismic waves  
 RT seismicity  
 RT seismographs  
 RT seismology  
 RT shock waves  
 RT soil-structure interactions  
 RT tsunamis

**earthworms**INIS: 2000-04-12; ETDE: 1976-12-15  
USE annelids**east china sea**INIS: 1992-01-16; ETDE: 1981-03-16  
USE china sea**east coast**INIS: 2000-04-12; ETDE: 1979-12-10  
(Prior to December 1991 this was a valid ETDE descriptor.)  
USE us east coast**east facility**INIS: 2000-04-12; ETDE: 1981-08-21  
*Primary systems test and evaluation facility at Savannah River Plant for DOE's residual energy applications program (REAP) for R and D on heat recovery and conversion equipment.*  
(Prior to February 1995, this was a valid ETDE descriptor.)  
SEE savannah river plant**EAST MESA GEOTHERMAL FIELD**

INIS: 1992-06-04; ETDE: 1977-03-04

BT1 geothermal fields  
 RT imperial valley

**east pakistan**INIS: 2000-04-12; ETDE: 1976-05-17  
USE bangladesh**east tokamak**2006-07-25  
USE ht-7u tokamak**EAST-WEST ASYMMETRY**

*For global aspects only.*  
 BT1 asymmetry  
 RT cosmic radiation  
 RT geographical variations

**EASTERN EUROPE**

INIS: 1997-11-11; ETDE: 1993-01-27

BT1 europe  
 NT1 albania  
 NT1 belarus  
 NT1 bosnia and herzegovina  
 NT1 bulgaria  
 NT1 croatia  
 NT1 czech republic  
 NT1 estonia  
 NT1 hungary  
 NT1 latvia  
 NT1 lithuania

NT1 moldova  
 NT1 montenegro  
 NT1 poland  
 NT1 romania  
 NT1 russian federation  
 NT2 dubna  
 NT2 kamchatka  
 NT2 kurile islands  
 NT2 lovozero  
 NT2 novaya zemlya  
 NT2 siberia  
 NT1 serbia  
 NT1 slovakia  
 NT1 slovenia  
 NT1 the former yugoslav republic of macedonia  
 NT1 ukraine  
 NT2 crimea

**easton power reactor**

USE fitzpatrick reactor

**EBASCO STANDARD PLANT**

INIS: 1978-11-24; ETDE: 1978-08-07

*Ebasco Services reference PWR nuclear power plant.*

\*BT1 nuclear power plants

**ebd**INIS: 2000-04-12; ETDE: 1980-02-13  
USE energy beam deposition**ebd films**INIS: 2000-04-12; ETDE: 1980-02-11  
*Energy beam deposition films.*  
(Prior to February 1997 ENERGY BEAM DEPOSITION FILMS was a valid ETDE descriptor.)

USE energy beam deposition  
 USE thin films

**ebfa**INIS: 1981-02-27; ETDE: 1979-07-24  
USE electron beam fusion accelerator**ebic**INIS: 2000-04-12; ETDE: 1983-03-23  
USE scanning electron microscopy**ebis**INIS: 2000-04-12; ETDE: 1976-05-17  
USE electron beam ion sources**EBONITE**

BT1 vulcanized elastomers

**EBOR REACTOR***INEEL, Idaho Falls, Idaho, USA. Never operational.*

UF experimental beryllium oxide reactor

\*BT1 beryllium moderated reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 helium cooled reactors  
 \*BT1 power reactors  
 \*BT1 research reactors  
 \*BT1 solid homogeneous reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**EBR-1 REACTOR***ANL/INEEL, Idaho Falls, Idaho, USA. Decommissioned in 1964.*

UF experimental breeder reactor-1

\*BT1 experimental reactors  
 \*BT1 lmfr type reactors  
 \*BT1 nak cooled reactors  
 \*BT1 plutonium reactors  
 \*BT1 potassium cooled reactors  
 \*BT1 power reactors  
 \*BT1 research reactors  
 \*BT1 sodium cooled reactors  
 \*BT1 test reactors

RT natural uranium reactors

### EBR-2 REACTOR

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1994.

UF experimental breeder reactor-2  
 \*BT1 experimental reactors  
 \*BT1 lmfr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors  
 RT enriched uranium reactors  
 RT plutonium reactors

### EBULLATED BED

INIS: 2000-04-12; ETDE: 1978-02-14  
 Gas-liquid-solid fluidization.

RT fluidized beds  
 RT packed beds

### EBWR REACTOR

ANL, Argonne, Illinois, USA. Shut down in 1967.

UF experimental boiling water reactor  
 \*BT1 bwr type reactors  
 \*BT1 experimental reactors

### ECAT SCANNING

INIS: 1980-04-02; ETDE: 1979-05-09  
 Emission Computer Axial Tomography scanning.

UF emission computer axial tomography scanning  
 \*BT1 emission computed tomography  
 \*BT1 photon emission scanning  
 RT image processing  
 RT radioisotope scanning  
 RT radiopharmaceuticals

### eccles-jordan circuits

USE flip-flop circuits

### ECCS

UF emergency core cooling system  
 \*BT1 reactor protection systems  
 NT1 core flooding systems  
 NT1 core spray systems  
 NT1 high pressure coolant injection  
 NT1 low pressure coolant injection  
 RT depressurization systems  
 RT reactor safety experiments  
 RT safety injection

### ECEL REACTOR

Atoms International Div., Rockwell International, Canoga Park, California, USA.

\*BT1 fast reactors  
 \*BT1 zero power reactors

### echelle gratings

INIS: 1984-01-18; ETDE: 2002-06-13  
 USE diffraction gratings

### echelon gratings

INIS: 1984-01-18; ETDE: 2002-06-13  
 USE diffraction gratings

### ECHINODERMS

\*BT1 benthos  
 \*BT1 invertebrates  
 NT1 sea urchins  
 RT exoskeleton

### echography

INIS: 1984-04-04; ETDE: 1984-05-10  
 Method to detect inhomogeneities in the human body by means of reflected ultrasonic waves.  
 USE ultrasonography

### ECLIPSE

UF lunar occultation  
 UF occultation  
 UF solar occultation

RT astronomy

### ECN

INIS: 1977-02-08; ETDE: 1977-04-13  
 Energieonderzoek Centrum Nederland; prior to 1 August 1976 known as Reactor Centrum Nederland, and documents written before that date should be indexed to RCN.

UF energieonderzoek centrum nederland  
 \*BT1 netherlands organizations  
 NT1 rcn

### ECO REACTOR

UF experience critique orgel  
 \*BT1 heavy water moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 organic cooled reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors

### ecobalance

2008-02-07  
 NOT for ECOLOGICAL BALANCE  
 USE life cycle assessment

### ECOLOGICAL BALANCE

2008-02-07  
 State of dynamic equilibrium within a community of organisms in which genetic, species and ecosystem diversity remain relatively stable.  
 RT ecological succession  
 RT ecology  
 RT ecosystems  
 RT genetic variability  
 RT population dynamics  
 RT species diversity

### ecological communities

USE ecosystems

### ECOLOGICAL CONCENTRATION

INIS: 1976-07-16; ETDE: 1975-11-11  
 Concentration of a substance in organisms or the environment.

UF concentration processes (ecological)  
 UF environmental concentration  
 UF transfer factors (biological)  
 SF concentration  
 NT1 radioecological concentration  
 RT carbon cycle  
 RT concentration ratio  
 RT environmental transport  
 RT mineral cycling  
 RT nitrogen cycle  
 RT sulfur cycle

### ECOLOGICAL SUCCESSION

INIS: 1986-07-09; ETDE: 1981-07-06  
 Orderly and progressive change in animal and/or plant communities.  
 RT competition  
 RT ecological balance  
 RT ecology  
 RT population dynamics  
 RT species diversity

### ECOLOGY

NT1 baseline ecology  
 NT1 radioecology  
 RT animals  
 RT biological adaptation  
 RT biological extinction  
 RT ecological balance  
 RT ecological succession  
 RT ecosystems  
 RT home range  
 RT predator-prey interactions  
 RT regional analysis  
 RT species diversity

RT symbiosis

### ECONOMETRICS

The application of mathematical methods to the study of economic data and problems.

BT1 economics  
 RT dynamic programming  
 RT economic analysis  
 RT economic elasticity  
 RT linear programming  
 RT nonlinear programming  
 RT optimization

### ECONOMIC ANALYSIS

INIS: 1999-06-29; ETDE: 1978-04-06

BT1 economics  
 NT1 cost benefit analysis  
 NT1 cost effectiveness analysis  
 NT1 input-output analysis  
 RT capitalized cost  
 RT econometrics  
 RT economy  
 RT energy analysis  
 RT operating cost  
 RT per capita values  
 RT regional analysis  
 RT regression analysis

### ECONOMIC DEVELOPMENT

1997-06-19

UF economic growth  
 UF growth (economic)  
 RT centrally planned economies  
 RT commercial sector  
 RT commercialization  
 RT developed countries  
 RT economic policy  
 RT economics  
 RT gross domestic product  
 RT gross national product  
 RT industry  
 RT inflation  
 RT nuclear trade  
 RT resource development  
 RT standard of living  
 RT sustainable development  
 RT us economic recovery tax act  
 RT world bank

### ECONOMIC ELASTICITY

INIS: 2000-05-02; ETDE: 1975-11-11

UF elasticity (economic)  
 RT econometrics  
 RT economics  
 RT energy expenses  
 RT energy substitution  
 RT prices

### economic growth

INIS: 1993-02-01; ETDE: 1977-10-20  
 (Prior to February 1992, this was a valid ETDE descriptor.)  
 USE economic development

### ECONOMIC IMPACT

INIS: 1991-10-11; ETDE: 1977-01-31

RT economics  
 RT socio-economic factors  
 RT technology impacts

### ECONOMIC POLICY

1999-06-29

BT1 government policies  
 RT allocations  
 RT centrally planned economies  
 RT deregulation  
 RT economic development  
 RT economics  
 RT forecasting  
 RT foreign policy  
 RT nationalization

RT nuclear trade  
RT pricing regulations  
RT taxes

**economic recovery tax act**

INIS: 2000-04-12; ETDE: 1982-02-08  
(Prior to February 1992 this was a valid ETDE descriptor.)

USE us economic recovery tax act

**ECONOMIC REGULATORY ADMINISTRATION**

INIS: 2000-04-12; ETDE: 1980-03-29

UF us era

\*BT1 us doe

**ECONOMICS**

SF values

NT1 econometrics

NT1 economic analysis

NT2 cost benefit analysis

NT2 cost effectiveness analysis

NT2 input-output analysis

RT availability

RT budgets

RT capital

RT competition

RT cost

RT depreciation

RT deregulation

RT economic development

RT economic elasticity

RT economic impact

RT economic policy

RT economy

RT environmental policy

RT expenditures

RT feasibility studies

RT financial data

RT financial incentives

RT financing

RT foreign exchange rate

RT gross national product

RT income

RT income distribution

RT investment

RT life-cycle cost

RT low income groups

RT market

RT payback period

RT profits

RT property values

RT regional analysis

RT resellers

RT retailers

RT royalties

RT sellback

RT socio-economic factors

RT spot market

RT supply and demand

RT tax credits

RT taxes

RT trade

**ECONOMIZERS**

RT reactor cooling systems

RT steam generators

**ECONOMY**

The structure of economic life in a country or area.

RT business

RT diversification

RT economic analysis

RT economics

RT financing

RT forecasting

RT globalization

RT gross national product

RT input-output analysis

RT lending institutions

RT small businesses

RT technology impacts

**ECOSYSTEMS**

UF biocenoses

UF biogeocenoses

UF communities (ecological)

UF ecological communities

UF energy budgets

NT1 aquatic ecosystems

NT2 wetlands

NT3 marshes

NT3 swamps

NT1 terrestrial ecosystems

NT2 rangelands

NT2 savannas

NT2 swamps

RT agriculture

RT biology

RT biosphere

RT carbon cycle

RT ecological balance

RT ecology

RT environment

RT environmental exposure pathway

RT forest litter

RT habitat fragmentation

RT mineral cycling

RT nature reserves

RT nitrogen cycle

RT pesticides

RT population dynamics

RT populations

RT predator-prey interactions

RT radioecological concentration

RT radionuclide migration

RT soils

RT species diversity

RT sulfur cycle

**ecpa**

INIS: 2000-04-12; ETDE: 1977-11-28

USE energy conservation and production act

**ecr**

USE electron cyclotron-resonance

**ECR CURRENT DRIVE**

INIS: 1999-07-26; ETDE: 1999-09-03

UF electron cyclotron-resonance current drive

BT1 non-inductive current drive

RT ecr heating

**ECR HEATING**

UF electron cyclotron-resonance heating

\*BT1 high-frequency heating

RT ecr current drive

RT electron cyclotron-resonance

**ECR ION SOURCES**

1995-07-03

Ion sources based on electron cyclotron-resonance absorption of rf power launched into a hot electron plasma.

UF ecris

UF electron cyclotron-resonance ion sources

BT1 ion sources

RT electron cyclotron-resonance

RT jinr dc-110 cyclotron

**ecris**

1995-07-03

USE ecr ion sources

**ECSC**

UF european coal and steel community

\*BT1 european union

**ECUADOR**

BT1 developing countries

\*BT1 south america

RT andes

RT opec

**ECZEMA**

\*BT1 skin diseases

RT allergy

**EDDHA**

UF n,n-ethylenbis(2-(o-hydroxyphenyl)glycine)

\*BT1 amino acids

BT1 chelating agents

\*BT1 hydroxy acids

**EDDINGTON THEORY**

RT spectra

**EDDY CURRENT TESTING**

\*BT1 electromagnetic testing

RT eddy currents

**EDDY CURRENTS**

Limited to electric currents.

\*BT1 electric currents

RT eddy current testing

**EDEMA**

BT1 pathological changes

BT1 symptoms

RT body fluids

RT diuretics

RT extracellular space

RT retention

**edf-1 reactor**

USE chinon-a1 reactor

**edf-2 reactor**

USE chinon-a2 reactor

**edf-3 reactor**

USE chinon-a3 reactor

**edf-4 reactor**

USE saint laurent-a1 reactor

**edf-5 reactor**

USE bugey-1 reactor

**EDGE DISLOCATIONS**

\*BT1 dislocations

**EDGE LOCALIZED MODES**

INIS: 1989-12-07; ETDE: 1990-01-03

UF elm (plasma physics)

\*BT1 plasma macroinstabilities

RT h-mode plasma confinement

**EDNA DEPOSIT**

INIS: 2000-04-12; ETDE: 1983-07-07

\*BT1 oil sand deposits

RT california

RT oil sands

**eds liquefaction**

INIS: 2000-04-12; ETDE: 1980-10-27

USE exxon liquefaction process

**EDTA**

UF ethylenediaminetetraacetic acid

UF sequestrene

UF versene

\*BT1 amino acids

BT1 chelating agents

**EDUCATION**

UF teaching

NT1 training

NT2 e-learning

RT adolescents

RT children

RT educational facilities  
 RT educational tools  
 RT learning  
 RT manuals  
 RT safety culture  
 RT technology transfer

**EDUCATIONAL FACILITIES**

INIS: 1983-06-30; ETDE: 1979-05-31

UF colleges  
 UF facilities (educational)  
 UF museums  
 UF school facilities  
 UF school plant  
 UF schools  
 UF teaching facilities  
 UF training facilities  
 UF universities  
 NT1 school buildings  
 RT education  
 RT educational tools  
 RT exhibits  
 RT information centers  
 RT libraries

**EDUCATIONAL TOOLS**

INIS: 1992-02-05; ETDE: 1977-06-21  
 Activities or materials such as movies, slides, or computer media intended to assist in promoting learning or understanding.

UF curriculum guides  
 UF tools (educational)  
 RT education  
 RT educational facilities  
 RT exhibits  
 RT training

**edwin i. hatch-1 reactor**

USE hatch-1 reactor

**edwin i. hatch-2 reactor**

USE hatch-2 reactor

**EEL**

\*BT1 fishes

**ees**

INIS: 2000-04-12; ETDE: 1977-04-12  
 USE us energy extension service

**EEV RANGE**

INIS: 1977-01-26; ETDE: 1976-08-24  
 From 10 exp 18 to 10 exp 21 eV.  
 BT1 energy range

**EFD WIND GENERATORS**

INIS: 2000-04-12; ETDE: 1977-11-09  
 UF electrofluid dynamic wind generator  
 BT1 direct energy converters  
 \*BT1 wind power plants

**EFDR-50 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-03  
 Entwickler Fortschrittlicher Druckwasser Reactor for ship propulsion with 50000 SHP.  
 UF entwickelter fortschrittlicher druckwasser reaktor  
 \*BT1 pwr type reactors  
 \*BT1 ship propulsion reactors

**EFFECTIVE CHARGE**

Observed charge of nucleus or atom, less than Ze because of screening effects.  
 RT nuclear screening

**effective doses**

2018-02-22  
 USE effective radiation doses

**effective energy (internal irradiation)**

USE internal irradiation  
 USE spatial dose distributions

**effective half-life**

USE biological half-life

**EFFECTIVE MASS**

BT1 mass

**EFFECTIVE RADIATION DOSES**

2018-02-22  
 Calculated sum of the equivalent doses in all specified tissues and organs of the human body and represents the stochastic health risk to the whole body.

UF effective doses  
 \*BT1 radiation doses  
 RT biological radiation effects  
 RT dose equivalents  
 RT personnel monitoring

**EFFECTIVE RANGE THEORY**

RT efimov effect  
 RT interactions  
 RT nucleons  
 RT scattering

**EFFICIENCY**

UF automobile efficiency standards  
 UF decontamination factor  
 UF dose reduction factor  
 UF dose relative factor  
 UF drf  
 NT1 energy efficiency  
 NT1 heat rate  
 NT1 mechanical efficiency  
 NT1 quantum efficiency  
 NT1 thermal efficiency  
 RT coefficient of performance  
 RT comparative evaluations  
 RT cost effectiveness analysis  
 RT energy conservation  
 RT energy yield  
 RT feasibility studies  
 RT net energy  
 RT performance  
 RT productivity  
 RT spectral response  
 RT uses

**effluents (chemical)**

INIS: 1982-08-27; ETDE: 1975-12-16  
 USE chemical effluents

**effluents (gaseous)**

INIS: 1975-10-09; ETDE: 1975-12-16  
 USE gaseous wastes

**effluents (liquid)**

INIS: 1975-10-09; ETDE: 1975-12-16  
 USE liquid wastes

**effluents (radioactive)**

INIS: 1975-10-09; ETDE: 1975-12-16  
 USE radioactive effluents

**effluents (thermal)**

USE thermal effluents

**effusion**

INIS: 2000-04-12; ETDE: 1981-06-13  
 USE diffusion

**EFG METHOD**

INIS: 2000-04-12; ETDE: 1979-08-07  
 Edge-defined, film-fed growth method for crystal growth.

BT1 crystal growth methods  
 RT cast method  
 RT crystal growth  
 RT inverted stepanov method

**EFIMOV EFFECT**

INIS: 1985-11-19; ETDE: 1985-12-13  
 The conjectured possibility of an anomalous behaviour of a resonant interacting three-body system near the three-body breakup threshold.

RT bound state  
 RT effective range theory  
 RT three-body problem

**efr reactor**

INIS: 1977-03-01; ETDE: 1977-04-12  
 USE joyo reactor

**EGCR REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down.

UF experimental gas cooled reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 helium cooled reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**EGGS**

UF yolk  
 RT birds  
 RT food  
 RT hatching  
 RT ichthyoplankton  
 RT ova

**egr systems**

INIS: 2000-04-12; ETDE: 1976-01-07  
 USE exhaust recirculation systems

**EGTA**

INIS: 1977-09-15; ETDE: 1977-11-10  
 Ethyleneglycol-bis(2-aminoethylether) tetraacetic acid.  
 \*BT1 carboxylic acids  
 BT1 chelating agents  
 \*BT1 glycols

**EGYPTIAN ARAB REPUBLIC**

UF arab republic of egypt  
 UF uar  
 UF united arab republic  
 BT1 africa  
 BT1 arab countries  
 BT1 developing countries  
 BT1 middle east  
 RT nile river  
 RT oapec  
 RT red sea  
 RT sues canal

**EGYPTIAN ATOMIC ENERGY COMMISSION**

2006-10-13  
 \*BT1 egyptian organizations

**EGYPTIAN ORGANIZATIONS**

2004-03-31  
 BT1 national organizations  
 NT1 egyptian atomic energy commission

**egyptian testing research reactor-1**

2005-05-18  
 USE etrr-1 reactor

**egyptian testing research reactor-2**

2005-05-18  
 USE etrr-2 reactor

**eh (redox potential)**

INIS: 2000-04-12; ETDE: 1982-12-01  
 USE redox potential

**ehd channels**

INIS: 2000-04-12; ETDE: 1979-03-28  
(Prior to February 1995, this was a valid ETDE descriptor.)  
SEE ehd generators

**EHD GENERATORS**

UF *electrohydrodynamic generators*  
SF *ehd channels*  
SF *electrohydrodynamic channels*  
BT1 direct energy converters  
RT electrohydrodynamics

**ehf radiation**

USE microwave radiation

**EHRlich ASCITES TUMOR**

\*BT1 experimental neoplasms  
RT ascites  
RT ascites tumor cells

**EHV AC SYSTEMS**

INIS: 1993-01-18; ETDE: 1976-05-17  
230-765 kV.  
UF *extrahigh voltage ac systems*  
UF *extrahigh voltage alternating current systems*  
\*BT1 ac systems

**EHV DC SYSTEMS**

INIS: 1992-03-09; ETDE: 1976-05-17  
230-765 kV.  
UF *extrahigh voltage dc systems*  
UF *extrahigh voltage direct current systems*  
\*BT1 dc systems

**EICOSANOIC ACID**

UF *arachidic acid*  
\*BT1 monocarboxylic acids

**EIGENFREQUENCY**

UF *frequency (eigen)*  
RT eigenvalues  
RT hydrodynamic mass effect

**EIGENFUNCTIONS**

BT1 functions  
RT expectation value  
RT quantum mechanics  
RT sturm-liouville equation  
RT wave functions

**EIGENSTATES**

UF *coherent states*  
RT density of states  
RT energy levels  
RT pure states  
RT quantum mechanics

**EIGENVALUES**

RT eigenfrequency  
RT expectation value  
RT mathematical operators  
RT multiplicity  
RT quantum mechanics  
RT secular equation

**EIGENVECTORS**

RT mathematical operators  
RT mathematics  
RT vectors

**eightfold way**

USE octet model

**eiiip**

INIS: 2000-04-12; ETDE: 1979-09-26  
*Energy Integrated Industrial Parks.*  
USE energy parks

**EIKONAL APPROXIMATION**

\*BT1 approximations

RT scattering amplitudes  
RT straight-line path approximation

**eindhoven argonaut reactor**

2000-04-12  
USE athene reactor

**EINDHOVEN CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24  
*Eindhoven AVF cyclotron.*  
\*BT1 isochronous cyclotrons

**EINSTEIN COEFFICIENTS**

RT energy-level transitions  
RT oscillator strengths  
RT stimulated emission

**einstein-de sitter model**

USE cosmological models

**EINSTEIN EFFECT**

INIS: 1975-10-23; ETDE: 1975-12-16  
*A shift towards longer wavelengths of spectral lines emitted by atoms in strong gravitational fields.*  
UF *einstein shift*  
RT general relativity theory  
RT gravitation  
RT gravitational fields  
RT red shift  
RT spectral shift

**EINSTEIN FIELD EQUATIONS**

\*BT1 field equations  
RT cosmological constant  
RT general relativity theory  
RT gravitational fields  
RT kerr field

**einstein gravitation theory**

USE general relativity theory

**EINSTEIN-MAXWELL EQUATIONS**

UF *electrovac equations*  
\*BT1 field equations  
RT electromagnetic fields  
RT general relativity theory  
RT gravitational fields  
RT gravitational waves

**EINSTEIN-SCHROEDINGER THEORY**

\*BT1 unified field theories

**einstein shift**

INIS: 1975-10-23; ETDE: 1975-12-16  
USE einstein effect

**EINSTEINIUM**

\*BT1 actinides  
\*BT1 transplutonium elements

**EINSTEINIUM 240**

2007-10-22  
\*BT1 actinide nuclei  
\*BT1 einsteinium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei

**EINSTEINIUM 241**

2007-10-22  
\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 einsteinium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**EINSTEINIUM 242**

2007-10-22  
\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 einsteinium isotopes

\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**EINSTEINIUM 243**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 einsteinium isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**EINSTEINIUM 244**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 einsteinium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**EINSTEINIUM 245**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 einsteinium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**EINSTEINIUM 246**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 einsteinium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**EINSTEINIUM 247**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 einsteinium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**EINSTEINIUM 248**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 einsteinium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**EINSTEINIUM 249**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 einsteinium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 odd-even nuclei

**EINSTEINIUM 250**

\*BT1 actinide nuclei  
\*BT1 einsteinium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 odd-odd nuclei

**EINSTEINIUM 251**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 einsteinium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei

**EINSTEINIUM 252**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 einsteinium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 years living radioisotopes

**EINSTEINIUM 253**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**EINSTEINIUM 253 TARGET**

INIS: 1978-01-13; ETDE: 1977-08-24  
BT1 targets

**EINSTEINIUM 254**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**EINSTEINIUM 254 TARGET**

ETDE: 1976-07-09  
BT1 targets

**EINSTEINIUM 255**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**EINSTEINIUM 255 TARGET**

INIS: 1978-09-28; ETDE: 1978-07-05  
BT1 targets

**EINSTEINIUM 256**

INIS: 1977-01-25; ETDE: 1976-09-14  
\*BT1 actinide nuclei  
\*BT1 beta-minus decay radioisotopes  
\*BT1 einsteinium isotopes  
\*BT1 hours living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**EINSTEINIUM 257**

2007-10-22  
\*BT1 actinide nuclei  
\*BT1 beta-minus decay radioisotopes  
\*BT1 einsteinium isotopes  
\*BT1 odd-even nuclei  
\*BT1 spontaneous fission radioisotopes

**EINSTEINIUM 258**

2007-10-22  
\*BT1 actinide nuclei  
\*BT1 einsteinium isotopes  
\*BT1 odd-odd nuclei

**einsteinium additions**

2000-04-12  
(Prior to August 1993 this was a valid ETDE descriptor.)  
USE alloys  
USE einsteinium compounds

**EINSTEINIUM ALLOYS**

2000-04-12  
\*BT1 actinide alloys

**EINSTEINIUM BROMIDES**

1976-01-27  
\*BT1 bromides  
\*BT1 einsteinium halides

**EINSTEINIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 einsteinium halides

**EINSTEINIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**EINSTEINIUM COMPOUNDS**

1996-11-13  
UF einsteinium additions  
BT1 actinide compounds  
\*BT1 transplutonium compounds  
NT1 einsteinium halides  
NT2 einsteinium bromides  
NT2 einsteinium chlorides  
NT2 einsteinium fluorides  
NT2 einsteinium iodides  
NT1 einsteinium nitrates  
NT1 einsteinium oxides

**EINSTEINIUM FLUORIDES**

INIS: 1997-01-28; ETDE: 1981-01-09  
(From October 1996 to February 2008  
EINSTEINIUM COMPOUNDS +  
FLUORIDES was used for this concept.)

- \*BT1 einsteinium halides
- \*BT1 fluorides

**EINSTEINIUM HALIDES**

2008-02-07  
\*BT1 einsteinium compounds  
\*BT1 halides  
NT1 einsteinium bromides  
NT1 einsteinium chlorides  
NT1 einsteinium fluorides  
NT1 einsteinium iodides

**EINSTEINIUM IODIDES**

1997-01-28  
(From October 1996 to February 2008  
EINSTEINIUM COMPOUNDS + IODIDES  
was used for this concept.)  
\*BT1 einsteinium halides  
\*BT1 iodides

**EINSTEINIUM IONS**

- \*BT1 ions

**EINSTEINIUM ISOTOPES**

1999-07-16  
BT1 isotopes  
NT1 einsteinium 240  
NT1 einsteinium 241  
NT1 einsteinium 242  
NT1 einsteinium 243  
NT1 einsteinium 244  
NT1 einsteinium 245  
NT1 einsteinium 246  
NT1 einsteinium 247  
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NT1 einsteinium 250  
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NT1 einsteinium 254  
NT1 einsteinium 255  
NT1 einsteinium 256  
NT1 einsteinium 257  
NT1 einsteinium 258

**EINSTEINIUM NITRATES**

- \*BT1 einsteinium compounds
- \*BT1 nitrates

**EINSTEINIUM OXIDES**

- \*BT1 einsteinium compounds
- \*BT1 oxides

**eka-astatine**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE tennesse

**eka-bismuth**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE moscovium

**eka-gold**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE roentgenium

**eka-hafnium**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE rutherfordium

**eka-iridium**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE meitnerium

**eka-lead**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE flerovium

**eka-mercury**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE copernicium

**eka-osmium**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE hassium

**eka-platinum**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE darmstadtium

**eka-polonium**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE livermorium

**eka-radon**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE oganesson

**eka-rhenium**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE bohrium

**eka-tantalum**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE dubnium

**eka-thallium**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE nihonium

**eka-tungsten**

INIS: 2000-04-12; ETDE: 1978-04-06  
USE seaborgium

**EKANITE**

2000-04-12  
\*BT1 silicate minerals  
\*BT1 thorium minerals  
\*BT1 uranium minerals  
RT thorium silicates  
RT uranium silicates

**eku**

USE erevan synchrotron

**EL-1 REACTOR**

Decommissioned since 1987.  
UF zoe reactor  
\*BT1 experimental reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors

**EL-2 REACTOR**

\*BT1 carbon dioxide cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors

- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**EL-3 REACTOR**

*Saclay, France.*

- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors
- \*BT1 tank type reactors

**EL-4 REACTOR**

*Electricite de France, Brennilis / Loqueffret,*

*Monts d'Arree, Finistere, France*

*UF brennilis reactor*

*UF monts d'arree reactor*

- \*BT1 carbon dioxide cooled reactors
- \*BT1 enriched uranium reactors
- \*BT1 hwgr type reactors
- \*BT1 pressure tube reactors
- \*BT1 thermal reactors

**el nino**

*INIS: 1992-06-12; ETDE: 1991-06-21*

*USE southern oscillation*

**EL SALVADOR**

- \*BT1 central america
- BT1 developing countries
- RT ahuachapan geothermal field

**EL TATIO GEOTHERMAL FIELD**

*2000-04-12*

- BT1 geothermal fields
- RT chile

**elastic properties**

*USE elasticity*

**ELASTIC SCATTERING**

- BT1 scattering
- NT1 bhabha scattering
- NT1 compton effect
- NT1 coulomb scattering
- NT1 moeller scattering
- NT1 mott scattering
- NT1 potential scattering
- NT1 rutherford scattering
- NT1 wigner scattering
- RT blair model
- RT coherent scattering
- RT diffuse scattering
- RT quasi-elastic scattering
- RT ramsauer effect
- RT rosenbluth formula
- RT skyrme potential
- RT zero-range approximation

**ELASTICITY**

- UF elastic properties*
- BT1 mechanical properties
- NT1 photoelasticity
- NT1 thermoelasticity
- RT deformation
- RT hooke law
- RT poisson ratio
- RT shape memory effect
- RT strains
- RT young modulus

**elasticity (economic)**

*INIS: 2000-05-02; ETDE: 1980-08-25*

*USE economic elasticity*

**ELASTOMERS**

*1996-01-24*

- BT1 polymers
- NT1 ethylene propylene diene polymers

- NT1 neoprene
- NT1 polyisoprene
- NT1 rubbers
- NT2 buna
- NT2 latex
- NT2 natural rubber
- NT2 silastic
- NT2 viton
- RT vulcanized elastomers

**ELDERLY PEOPLE**

*INIS: 1985-07-18; ETDE: 1978-02-14*

*UF aged*

- \*BT1 aged adults
- \*BT1 man
- \*BT1 minority groups
- RT handicapped people
- RT life cycle
- RT sociology

**ELDOR**

*UF electron-electron double resonance*

- \*BT1 magnetic resonance
- RT double resonance methods

**ELECTRETS**

- \*BT1 dielectric materials
- RT polarization

**ELECTRIC APPLIANCES**

*INIS: 1993-01-22; ETDE: 1977-06-21*

*UF stoves (electric)*

*SF food disposers*

- \*BT1 appliances
- \*BT1 electrical equipment
- NT1 clothes dryers
- NT1 clothes washers
- NT1 dishwashers
- NT1 microwave ovens
- RT air conditioners
- RT dehumidifiers
- RT freezers
- RT humidifiers
- RT ovens
- RT refrigerators

**ELECTRIC ARCS**

- \*BT1 electric currents
- BT1 electric discharges
- RT electrical faults
- RT flashover
- RT plasma

**ELECTRIC BATTERIES**

*Devices for production and/or storage of electrical energy from chemical reactions; excludes FUEL CELLS and RADIOISOTOPE BATTERIES.*

*UF accumulators (electric batteries)*

*UF batteries (electric)*

*UF secondary batteries*

*UF storage batteries*

*UF voltaic cells*

- BT1 electrochemical cells
- \*BT1 energy storage systems
- NT1 lead-acid batteries
- NT1 lithium ion batteries
- NT1 metal-gas batteries
- NT2 aluminium-air batteries
- NT2 cadmium-air batteries
- NT2 iron-air batteries
- NT2 lithium-chlorine batteries
- NT2 lithium-water-air batteries
- NT2 nickel-hydrogen batteries
- NT2 silver-hydrogen batteries
- NT2 zinc-air batteries
- NT2 zinc-chlorine batteries
- NT1 metal-metal batteries
- NT1 metal-metal oxide batteries
- NT2 iron-nickel batteries
- NT2 nickel-cadmium batteries

- NT2 nickel-zinc batteries
- NT2 silver-cadmium batteries
- NT2 silver-zinc batteries
- NT2 zinc-manganese batteries
- NT1 metal-nonmetal batteries
- NT2 lithium-copper chloride batteries
- NT2 lithium-polymer batteries
- NT2 lithium-sulfur batteries
- NT2 sodium-sulfur batteries
- NT2 zinc-bromine batteries
- NT1 primary-secondary hybrid batteries
- NT1 redox flow batteries
- NT1 thermal batteries
- RT battery charge state
- RT battery paste
- RT battery separators
- RT cardiac pacemakers
- RT electric-powered vehicles
- RT electrical equipment
- RT electrolytic cells
- RT electromotive force
- RT energy storage
- RT hybrid electric-powered vehicles
- RT off-peak energy storage
- RT primary batteries
- RT solid electrolytes

**ELECTRIC BORN MODEL**

- \*BT1 ope model
- RT electroproduction
- RT photoproduction

**ELECTRIC BRIDGES**

- UF bridges (electric)*
- \*BT1 electrical equipment
- RT electric measuring instruments

**ELECTRIC CABLES**

*1997-06-17*

- UF cables (electric)*
- BT1 cables
- \*BT1 conductor devices
- NT1 coaxial cables
- NT1 cryogenic cables
- NT1 gas-insulated cables
- NT1 mineral-insulated cables
- NT1 oil-filled cables
- NT1 superconducting cables
- RT power transmission lines

**ELECTRIC CHARGES**

*1996-07-08*

*(Prior to August 1996 POSITIVE EXCESS was a valid ETDE descriptor.)*

*UF electric monopoles*

*UF pyroelectricity*

*SF positive excess*

- NT1 point charge
- RT battery charge state
- RT c invariance
- RT capacitance
- RT charge carriers
- RT charge conservation
- RT charge density
- RT charge distribution
- RT charge states
- RT charge transport
- RT electrostatic charge eliminators
- RT electrostatics
- RT minus-plus ratio
- RT polar compounds
- RT pyroelectric effect
- RT space charge

**ELECTRIC COILS**

*UF coils (electric)*

- \*BT1 electrical equipment
- NT1 magnet coils
- NT2 pulsed magnet coils
- NT1 rogowski coil
- NT1 solenoids



**NT1** superconducting coils  
*RT* electromagnets  
*RT* magnetic circuits  
*RT* transformers  
*RT* winding machines

**electric condensers**

USE capacitors

**ELECTRIC CONDUCTIVITY**

*UF* conductivity (electric)  
*UF* current-voltage curves  
*UF* electric resistivity  
*UF* electrical conductivity  
*UF* electrical resistance  
*UF* electrical resistivity  
*UF* i-v characteristic  
*UF* ohmic resistance  
*UF* resistivity (electric)  
*UF* va characteristic  
*UF* volt-ampere characteristic  
 \*BT1 electrical properties  
 NT1 ionic conductivity  
   NT2 proton conductivity  
 NT1 magnetoresistance  
 NT1 photoconductivity  
 NT1 superconductivity  
*RT* carrier mobility  
*RT* electric conductors  
*RT* electric impedance  
*RT* electrical testing  
*RT* electrophysiology  
*RT* grueneisen formula  
*RT* inductance  
*RT* matthiessen rule  
*RT* ohm law  
*RT* umklapp processes  
*RT* wiedemann-franz law

**ELECTRIC CONDUCTORS**

*UF* conductors (electric)  
*RT* conductor devices  
*RT* electric conductivity  
*RT* electron mobility  
*RT* hall effect  
*RT* photoconductors  
*RT* semiconductor materials  
*RT* skin effect  
*RT* superconductors

**electric contactors**

USE switches

**ELECTRIC CONTACTS**

*UF* contacts (electric)  
*UF* point contacts  
*SF* junctions  
 \*BT1 electrical equipment  
*RT* switches

**ELECTRIC CONTROLLERS**

\*BT1 control equipment  
*RT* surges  
*RT* voltage regulators

**electric cooperatives**

*INIS: 2000-04-12; ETDE: 1993-07-09*

USE cooperatives  
 USE electric utilities

**ELECTRIC CURRENTS**

*UF* currents (electric)  
*UF* foucault current  
*UF* plasma currents  
 BT1 currents  
 NT1 alternating current  
 NT1 bootstrap current  
 NT1 critical current  
 NT1 direct current  
 NT1 eddy currents  
 NT1 electric arcs

**NT1** electrojets  
**NT1** faraday current  
**NT1** leakage current  
   **NT2** dark current  
**NT1** overcurrent  
**NT1** photocurrents  
**NT1** ring currents  
**NT1** threshold current  
*RT* current density  
*RT* current limiters  
*RT* electricity  
*RT* electrocarbonization  
*RT* electrocardiograms  
*RT* excitation systems  
*RT* flashover  
*RT* kruskal limit  
*RT* non-inductive current drive  
*RT* reversed-field pinch devices  
*RT* skin effect  
*RT* surges

**ELECTRIC DIPOLE MOMENTS**

BT1 dipole moments  
 BT1 electric moments  
*RT* nuclear electric moments  
*RT* particle electric polarizability  
*RT* polarizability

**electric dipole transitions**

*INIS: 1978-02-23; ETDE: 1978-04-28*

USE e1-transitions

**ELECTRIC DIPOLES**

\*BT1 dipoles  
*RT* electric fields

**electric discharge pumping**

*INIS: 1982-07-22; ETDE: 1977-05-07*

USE electrical pumping

**ELECTRIC DISCHARGES**

*1996-04-16*

*UF* discharges (electric)  
 NT1 corona discharges  
 NT1 electric arcs  
 NT1 electric sparks  
 NT1 flashover  
 NT1 glow discharges  
 NT1 high-frequency discharges  
 NT1 lightning  
   NT2 ball lightning  
 NT1 penning discharges  
 NT1 townsend discharge  
*RT* afterglow  
*RT* breakdown  
*RT* discharge quenching  
*RT* paschen law  
*RT* plasma technology  
*RT* positive column  
*RT* saha equation  
*RT* spark gaps  
*RT* striations  
*RT* switches

**ELECTRIC FIELDS**

*UF* fields (electric)  
 NT1 coulomb field  
*RT* casimir effect  
*RT* crossed fields  
*RT* electric dipoles  
*RT* electromagnetic fields  
*RT* excitation systems  
*RT* inhomogeneous fields  
*RT* nuclear quadrupole resonance  
*RT* parametric instabilities  
*RT* stark effect

**ELECTRIC FILTERS**

*UF* filters (electric)  
 BT1 filters

**ELECTRIC FURNACES**

BT1 furnaces  
 NT1 arc furnaces  
 NT1 ceramic melters  
 NT1 induction furnaces

**ELECTRIC FUSES**

*UF* current limiting fuses  
*UF* fuses (electric)  
 \*BT1 conductor devices  
 BT1 equipment protection devices  
*RT* circuit breakers  
*RT* switches

**ELECTRIC GENERATORS**

*Excludes the concept DIRECT ENERGY CONVERTERS.*

*UF* generators (electric)  
*UF* wind generators  
 \*BT1 electrical equipment  
 NT1 alternators  
 NT1 flux pumps  
 NT1 homopolar generators  
 NT1 induction generators  
 NT1 rotating generators  
   NT2 superconducting generators  
 NT1 turbogenerators  
 NT1 water current power generators  
*RT* armatures  
*RT* excitation systems

**ELECTRIC GROUNDS**

*1982-06-09*

*UF* earth (electric grounds)  
*UF* earthing  
*UF* earthing (electric grounds)  
*UF* grounds  
*UF* grounds (electric)  
*RT* electrical faults  
*RT* electronic circuits

**ELECTRIC HEATING**

*INIS: 1999-01-22; ETDE: 1977-04-12*

(From April 1977 till March 1997

RESISTANCE HEATING was a valid ETDE descriptor.)

*UF* resistance heating  
 BT1 heating  
 NT1 joule heating  
   NT2 current-drive heating  
 NT1 radiant cable heating  
*RT* baseboard heating  
*RT* heat pumps  
*RT* space heating

**electric hexadecapole transitions**

*INIS: 1978-02-23; ETDE: 1978-04-28*

USE e4-transitions

**ELECTRIC IMPEDANCE**

*INIS: 1975-11-07; ETDE: 1975-12-16*

BT1 impedance  
*RT* capacitance  
*RT* electric conductivity

**ELECTRIC LOGGING**

*INIS: 2000-06-27; ETDE: 1977-01-10*

BT1 well logging  
 NT1 induced polarization logging  
 NT1 induction logging  
 NT1 resistivity logging  
 NT1 sp logging  
*RT* electrical surveys

**ELECTRIC MEASURING INSTRUMENTS**

\*BT1 electrical equipment  
 BT1 measuring instruments  
 NT1 ammeters  
 NT1 electrometers  
 NT1 electroscopes

**NT1** galvanometers  
**NT1** potentiometers  
**NT1** power meters  
**NT1** voltmeters  
*RT* electric bridges  
*RT* electronic equipment  
*RT* faraday cups

**ELECTRIC MOMENTS**

1996-07-18

(Prior to March 1997 GYROELECTRIC RATIO was a valid ETDE descriptor.)

*SF* gyroelectric ratio  
**NT1** electric dipole moments  
**NT1** nuclear electric moments  
*RT* quadrupole moments

**electric monopole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28

USE e0-transitions

**electric monopoles**

USE electric charges

**ELECTRIC MOTORS**

*SF* stepper motors  
 \***BT1** electrical equipment  
 \***BT1** motors  
**NT1** superconducting motors  
*RT* armatures

**electric octupole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28

USE e3-transitions

**ELECTRIC POTENTIAL**

*UF* open-circuit voltage  
*UF* potential (electric)  
*UF* voltage  
**NT1** plasma potential  
*RT* breakdown  
*RT* electrical transients  
*RT* electromotive force  
*RT* electrophysiology  
*RT* ionization potential  
*RT* overvoltage  
*RT* paschen law  
*RT* pyroelectric effect  
*RT* surges  
*RT* voltage drop

**ELECTRIC POWER**

1996-07-16

**BT1** power  
**NT1** hydroelectric power  
**NT1** hydrokinetic power  
**NT1** off-peak power  
**NT1** surplus power  
*RT* alaska power administration  
*RT* bonneville power administration  
*RT* combined cycles  
*RT* demand factors  
*RT* dispersed storage and generation  
*RT* electric power industry  
*RT* electric utilities  
*RT* electricity  
*RT* epri  
*RT* load management  
*RT* marginal-cost pricing  
*RT* master metering  
*RT* nuclear power  
*RT* on-site power generation  
*RT* peak-load pricing  
*RT* power demand  
*RT* power generation  
*RT* power losses  
*RT* power meters  
*RT* power plants  
*RT* power potential  
*RT* power supplies  
*RT* power transmission

*RT* power transmission lines  
*RT* public utilities  
*RT* southeastern power administration  
*RT* southwestern power administration  
*RT* spacecraft power supplies  
*RT* time-of-use pricing  
*RT* var control systems  
*RT* western area power administration

**ELECTRIC POWER INDUSTRY**

INIS: 1999-06-30; ETDE: 1978-02-14

Only for general papers when descriptors such as *ELECTRIC POWER*, *ELECTRIC UTILITIES*, or *POWER SYSTEMS* will not suffice.

**BT1** industry  
*RT* electric power  
*RT* electric reliability councils  
*RT* electric utilities  
*RT* epri  
*RT* nuclear power  
*RT* power systems

**electric power research institute**

INIS: 1993-11-05; ETDE: 1977-01-10

USE epri

**electric power substations**

INIS: 1992-10-06; ETDE: 1976-07-07

USE power substations

**electric power systems**

INIS: 1982-12-07; ETDE: 1976-02-23

USE power systems

**ELECTRIC-POWERED VEHICLES**

1992-04-09

*UF* trolleybuses  
**BT1** vehicles  
**NT1** hybrid electric-powered vehicles  
**NT1** roadway-powered electric vehicles  
*RT* aaps  
*RT* electric batteries  
*RT* electric railways  
*RT* fuel cells  
*RT* regenerative braking

**ELECTRIC PROBES**

**BT1** probes  
**NT1** langmuir probe  
**NT1** plasma eaters

**electric properties**

INIS: 1975-09-26; ETDE: 2002-06-13

USE electrical properties

**electric pulses**

USE pulses

**electric quadrupole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28

USE e2-transitions

**ELECTRIC RAILWAYS**

INIS: 2000-04-12; ETDE: 1977-01-10

**BT1** railways  
*RT* electric-powered vehicles  
*RT* rapid transit systems  
*RT* trains

**ELECTRIC RELIABILITY****COUNCILS**

INIS: 2000-04-12; ETDE: 1979-09-27

*UF* national electric reliability councils  
*UF* regional electric reliability councils  
*RT* electric power industry  
*RT* electric utilities

**electric resistivity**

USE electric conductivity

**ELECTRIC RESONANCE**

**BT1** resonance  
**NT1** paraelectric resonance

**ELECTRIC SHOCK**

INIS: 1999-03-30; ETDE: 1979-07-24

(Until March 1999 this concept was indexed by BIOLOGICAL SHOCK and ELECTRICITY.)

*UF* shock (electric)  
*RT* biological shock

**ELECTRIC SPARKS**

*UF* sparks (electric)  
**BT1** electric discharges  
*RT* breakdown  
*RT* electrostatics  
*RT* flashover  
*RT* spark drills  
*RT* spark gaps

**electric switches**

USE switches

**ELECTRIC UTILITIES**

INIS: 1979-02-21; ETDE: 1978-02-15

Enterprises engaged in the generation, transmission, and distribution of electric power; may be investor-owned, cooperatively owned, or government-owned.

*UF* electric cooperatives  
*SF* utilities  
**BT1** public utilities  
*RT* cooperatives  
*RT* dispersed storage and generation  
*RT* electric power  
*RT* electric power industry  
*RT* electric reliability councils  
*RT* load analysis  
*RT* master metering  
*RT* peak load  
*RT* power pooling  
*RT* surplus power  
*RT* us power plant and industrial fuel use act

**electrical breakdown**

INIS: 2000-04-12; ETDE: 1977-01-10

USE electrical faults

**electrical conductivity**

USE electric conductivity

**ELECTRICAL ENGINEERING**

INIS: 1992-01-22; ETDE: 1978-06-14

**BT1** engineering**ELECTRICAL EQUIPMENT**

**BT1** equipment  
**NT1** antennas  
**NT2** radio telescopes  
**NT2** rectennas  
**NT1** armatures  
**NT1** battery chargers  
**NT2** solar battery chargers  
**NT1** capacitors  
**NT1** circuit breakers  
**NT1** conductor devices  
**NT2** connectors  
**NT2** electric cables  
**NT3** coaxial cables  
**NT3** cryogenic cables  
**NT3** gas-insulated cables  
**NT3** mineral-insulated cables  
**NT3** oil-filled cables  
**NT3** superconducting cables  
**NT2** electric fuses  
**NT1** current limiters  
**NT1** dc to dc converters  
**NT1** electric appliances  
**NT2** clothes dryers

NT2 clothes washers  
 NT2 dishwashers  
 NT2 microwave ovens  
 NT1 electric bridges  
 NT1 electric coils  
 NT2 magnet coils  
 NT3 pulsed magnet coils  
 NT2 rogowski coil  
 NT2 solenoids  
 NT2 superconducting coils  
 NT1 electric contacts  
 NT1 electric generators  
 NT2 alternators  
 NT2 flux pumps  
 NT2 homopolar generators  
 NT2 induction generators  
 NT2 rotating generators  
 NT3 superconducting generators  
 NT2 turbogenerators  
 NT2 water current power generators  
 NT1 electric measuring instruments  
 NT2 ammeters  
 NT2 electrometers  
 NT2 electroscopes  
 NT2 galvanometers  
 NT2 potentiometers  
 NT2 power meters  
 NT2 voltmeters  
 NT1 electric motors  
 NT2 superconducting motors  
 NT1 electrical insulators  
 NT1 electromagnets  
 NT2 superconducting magnets  
 NT1 inverters  
 NT1 lightning arresters  
 NT1 potheads  
 NT1 rectifiers  
 NT2 rectifier tubes  
 NT3 ignitrons  
 NT2 semiconductor rectifiers  
 NT1 relays  
 NT1 resistors  
 NT2 photoresistors  
 NT2 semiconductor resistors  
 NT1 shunt reactors  
 NT1 switches  
 NT2 cryotrons  
 NT2 plasma switches  
 NT2 semiconductor switches  
 NT1 transformers  
 NT2 gas-insulated transformers  
 RT electric batteries  
 RT electron tubes  
 RT electronic circuits  
 RT electronic equipment  
 RT excitation systems  
 RT lighting systems  
 RT miniaturization  
 RT potting  
 RT potting materials  
 RT power supplies  
 RT radar  
 RT reactor components  
 RT semiconductor devices  
 RT sonar  
 RT standby mode  
 RT transducers  
 RT waveguides

**ELECTRICAL FAULTS**

*INIS: 1983-10-14; ETDE: 1977-01-10*

UF electrical breakdown  
 UF short circuits  
 UF shorts (electrical)  
 RT breakdown  
 RT electric arcs  
 RT electric grounds  
 RT failures  
 RT flashover

**ELECTRICAL INSULATION**

*1982-11-29*

(Prior to January 1983 this concept was indexed by DIELECTRIC MATERIALS.)

UF insulation (electrical, by dielectric materials)  
 UF insulation (electrical)  
 RT dielectric materials  
 RT electrical insulators  
 RT organic insulators

**ELECTRICAL INSULATORS**

*INIS: 1976-05-07; ETDE: 1976-02-23*

UF insulators (electrical)  
 \*BT1 electrical equipment  
 RT dielectric materials  
 RT electrical insulation  
 RT insulating oils  
 RT organic insulators

**ELECTRICAL PROPERTIES**

UF electric properties  
 UF magnetolectricity  
 BT1 physical properties  
 NT1 capacitance  
 NT1 dielectric properties  
 NT2 kerr effect  
 NT2 permittivity  
 NT1 electric conductivity  
 NT2 ionic conductivity  
 NT3 proton conductivity  
 NT2 magnetoresistance  
 NT2 photoconductivity  
 NT2 superconductivity  
 NT1 inductance  
 NT1 polarizability  
 NT1 thermoelectric properties  
 RT electricity  
 RT electro-optical effects  
 RT magnetic properties

**ELECTRICAL PUMPING**

*INIS: 1995-04-10; ETDE: 1977-05-07*

*Pumping achieved by allowing a suitable electric current to pass through the lasing medium.*

UF electric discharge pumping  
 UF pumping (electrical)  
 BT1 pumping  
 NT1 electron beam pumping  
 RT lasers  
 RT nuclear pumping  
 RT optical pumping  
 RT stimulated emission

**electrical resistance**

USE electric conductivity

**electrical resistivity**

USE electric conductivity

**ELECTRICAL SURVEYS**

*Surveys or mapping of a portion of the earth's interior by use of one of the electrical methods.*

\*BT1 geophysical surveys  
 NT1 electromagnetic surveys  
 NT2 magnetotelluric surveys  
 NT1 resistivity surveys  
 NT1 self-potential surveys  
 NT1 telluric surveys  
 RT electric logging  
 RT exploration  
 RT geothermal exploration  
 RT induced polarization logging  
 RT resistivity logging

**ELECTRICAL TESTING**

\*BT1 nondestructive testing  
 RT electric conductivity

**ELECTRICAL TRANSIENTS**

*INIS: 1983-06-02; ETDE: 1979-07-24*

*Temporary oscillations that occur in circuits because of sudden changes of voltage, load or frequency.*

BT1 transients  
 BT1 voltage drop  
 RT electric potential  
 RT overvoltage  
 RT power systems  
 RT surges  
 RT var control systems

**ELECTRICITE DE FRANCE**

*INIS: 1995-02-15; ETDE: 1983-03-24*

\*BT1 french organizations

**ELECTRICITY**

*Only for the physical phenomenon sense; for utility purposes, use ELECTRIC POWER.*

NT1 bioelectricity  
 NT1 piezoelectricity  
 NT1 thermoelectricity  
 RT electric currents  
 RT electric power  
 RT electrical properties

**electricity supply company reactor**

*1993-11-05*

USE escom reactor

**ELECTRO-OPTICAL EFFECTS**

*INIS: 1978-11-24; ETDE: 1976-08-04*

NT1 electrochromism  
 RT electrical properties  
 RT magneto-optical effects  
 RT optical properties

**ELECTROCARBONIZATION**

*2000-04-12*

\*BT1 carbonization  
 RT electric currents

**ELECTROCARDIOGRAMS**

\*BT1 diagrams  
 RT cardiography  
 RT diagnostic techniques  
 RT electric currents  
 RT heart  
 RT pulses  
 RT recording systems

**ELECTROCATALYSTS**

*INIS: 1992-02-26; ETDE: 1978-10-30*

UF fuel cell catalysts  
 BT1 catalysts  
 RT catalysis  
 RT catalytic effects

**ELECTROCHEMICAL CELLS**

*1992-02-22*

SF electrochemical engines  
 NT1 electric batteries  
 NT2 lead-acid batteries  
 NT2 lithium ion batteries  
 NT2 metal-gas batteries  
 NT3 aluminium-air batteries  
 NT3 cadmium-air batteries  
 NT3 iron-air batteries  
 NT3 lithium-chlorine batteries  
 NT3 lithium-water-air batteries  
 NT3 nickel-hydrogen batteries  
 NT3 silver-hydrogen batteries  
 NT3 zinc-air batteries  
 NT3 zinc-chlorine batteries  
 NT2 metal-metal batteries  
 NT2 metal-metal oxide batteries  
 NT3 iron-nickel batteries  
 NT3 nickel-cadmium batteries  
 NT3 nickel-zinc batteries  
 NT3 silver-cadmium batteries

**NT3** silver-zinc batteries  
**NT3** zinc-manganese batteries  
**NT2** metal-nonmetal batteries  
**NT3** lithium-copper chloride batteries  
**NT3** lithium-polymer batteries  
**NT3** lithium-sulfur batteries  
**NT3** sodium-sulfur batteries  
**NT3** zinc-bromine batteries  
**NT2** primary-secondary hybrid batteries  
**NT2** redox flow batteries  
**NT2** thermal batteries  
**NT1** fuel cells  
**NT2** acid electrolyte fuel cells  
**NT2** alcohol fuel cells  
**NT3** direct ethanol fuel cells  
**NT3** direct methanol fuel cells  
**NT2** alkaline electrolyte fuel cells  
**NT2** ammonia fuel cells  
**NT2** biochemical fuel cells  
**NT2** coal fuel cells  
**NT2** formaldehyde fuel cells  
**NT2** formate fuel cells  
**NT2** formic acid fuel cells  
**NT2** high-temperature fuel cells  
**NT3** molten carbonate fuel cells  
**NT3** solid oxide fuel cells  
**NT2** hydrazine fuel cells  
**NT2** hydrocarbon fuel cells  
**NT2** hydrogen fuel cells  
**NT2** natural gas fuel cells  
**NT2** regenerative fuel cells  
**NT3** redox fuel cells  
**NT2** solid electrolyte fuel cells  
**NT3** proton exchange membrane fuel cells  
**NT3** solid oxide fuel cells  
**NT1** photoelectrochemical cells  
**NT2** photogalvanic cells  
*RT* electrochemical energy conversion  
*RT* electrochemistry  
*RT* primary batteries

**ELECTROCHEMICAL COATING**

\*BT1 chemical coating  
 NT1 anodization

**ELECTROCHEMICAL CORROSION**

*UF* bimetallic corrosion  
*UF* couple corrosion  
*UF* electrolytic corrosion  
*UF* galvanic corrosion  
 \*BT1 corrosion  
*RT* cathodic protection  
*RT* electrochemistry  
*RT* electrolysis

**ELECTROCHEMICAL ENERGY CONVERSION**

*INIS: 2000-04-12; ETDE: 1981-07-18*  
 \*BT1 energy conversion  
*RT* electrochemical cells

**electrochemical engines**

*INIS: 2000-04-12; ETDE: 1978-08-08*  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 SEE electrochemical cells

**ELECTROCHEMICAL MACHINING**

\*BT1 chemical machining

**ELECTROCHEMISTRY**

*1999-05-04*  
 BT1 chemistry  
*RT* electrochemical cells  
*RT* electrochemical corrosion  
*RT* electrochromism  
*RT* electrometallurgy  
*RT* electromotive force  
*RT* fuel cells  
*RT* photoelectrochemical cells

**ELECTROCHROMISM**

*INIS: 1999-03-02; ETDE: 1984-06-29*  
*A reversible color change in a material induced by the injection of ions under an applied current.*  
 BT1 electro-optical effects  
*RT* color  
*RT* electrochemistry

**ELECTRODEPOSITED COATINGS**

BT1 coatings  
*RT* electroplating

**ELECTRODEPOSITION**

*UF* electroforming  
 \*BT1 electrolysis  
 \*BT1 surface coating  
**NT1** electroplating  
*RT* electrometallurgy

**ELECTRODES**

**NT1** anodes  
**NT2** hollow anodes  
**NT2** photoanodes  
**NT1** cathodes  
**NT2** hollow cathodes  
**NT2** photocathodes  
**NT1** dees  
**NT1** grids  
**NT1** ion-selective electrodes  
*RT* battery paste  
*RT* electron tubes  
*RT* ion selective electrode analysis

**ELECTRODIALYSIS**

*INIS: 1993-02-18; ETDE: 1977-06-30*  
 \*BT1 dialysis

**ELECTRODYNAMICS**

*UF* electrokinetics  
**NT1** quantum electrodynamics  
**NT2** schwinger-tomonaga formalism  
*RT* born-infeld theory  
*RT* charge renormalization  
*RT* electromagnetic fields  
*RT* electromagnetic interactions  
*RT* electromagnetism  
*RT* field theories  
*RT* maxwell equations

**ELECTROENCEPHALOGRAPHY**

*INIS: 1980-07-24; ETDE: 1979-07-24*  
**BT1** diagnostic techniques  
*RT* brain

**ELECTROFISSION**

*INIS: 1977-03-14; ETDE: 1977-06-03*  
*Fission of heavy nuclei by MeV range electrons.*  
 \*BT1 electron reactions  
 \*BT1 fission

**electrofluid dynamic wind generator**

*INIS: 2000-04-12; ETDE: 1977-11-09*  
 USE efd wind generators

**electroforming**

*2006-09-04*  
 USE electrodeposition

**ELECTROGASDYNAMICS**

\*BT1 fluid mechanics  
*RT* gas flow

**electrohydrodynamic channels**

*INIS: 2000-04-12; ETDE: 1979-03-28*  
 SEE ehd generators

**electrohydrodynamic generators**

USE ehd generators

**ELECTROHYDRODYNAMICS**

\*BT1 hydrodynamics

*RT* direct energy conversion  
*RT* ehd generators

**ELECTROJETS**

*UF* auroral electrojets  
*UF* equatorial electrojets  
 \*BT1 electric currents  
*RT* ring currents

**electrokinetics**

USE electrofluid dynamics

**ELECTROLINKING**

*INIS: 2000-04-12; ETDE: 1976-06-07*  
*In underground gasification, the linking of holes drilled into a fossil fuel seam with the aid of electric current.*  
**BT1** borehole linking  
**BT1** fracturing  
*RT* boreholes  
*RT* in-situ gasification

**ELECTROLUMINESCENCE**

\*BT1 luminescence

**ELECTROLYSIS**

**BT1** lysis  
**NT1** anodization  
**NT1** electrodeposition  
**NT2** electroplating  
**NT1** electropolishing  
**NT1** electrorefining  
**NT1** photoelectrolysis  
*RT* anions  
*RT* cations  
*RT* dissociation  
*RT* electrochemical corrosion  
*RT* electrolytic cells  
*RT* electrometallurgy  
*RT* faraday laws  
*RT* polarography  
*RT* voltametry

**electrolyte tiles**

*INIS: 2000-04-12; ETDE: 1980-07-23*  
 USE matrix materials

**ELECTROLYTES**

**NT1** solid electrolytes  
*RT* dissociation  
*RT* donnan theory  
*RT* polyacetylenes

**ELECTROLYTIC CELLS**

*UF* cells (electrolytic)  
*UF* photoelectrolytic cells  
*RT* electric batteries  
*RT* electrolysis  
*RT* thermal batteries  
*RT* voltametry

**electrolytic corrosion**

USE electrochemical corrosion

**ELECTROMAGNETIC FIELDS**

*UF* fields (electromagnetic)  
*RT* aharonov-bohm effect  
*RT* einstein-maxwell equations  
*RT* electric fields  
*RT* electrofluid dynamics  
*RT* inhomogeneous fields  
*RT* magnetic fields  
*RT* maxwell equations  
*RT* ponderomotive force  
*RT* potentials  
*RT* weyl unified theory

**ELECTROMAGNETIC FILTERS**

*1980-05-14*  
**BT1** filters  
*RT* corrosion products  
*RT* filtration

RT primary coolant circuits  
RT water

## ELECTROMAGNETIC FORM FACTORS

\*BT1 form factors  
RT four momentum transfer

## ELECTROMAGNETIC INTERACTIONS

1995-08-10

\*BT1 fundamental interactions  
NT1 compton effect  
NT1 coulomb scattering  
NT1 electroproduction  
NT1 photon-hadron interactions  
NT2 photon-baryon interactions  
NT3 photon-hyperon interactions  
NT3 photon-nucleon interactions  
NT4 photon-neutron interactions  
NT4 photon-proton interactions  
NT2 photon-meson interactions  
NT1 photon-photon interactions  
NT1 photoproduction  
NT2 primakoff effect  
NT1 umklapp processes  
RT annihilation  
RT charged currents  
RT coulomb correction  
RT electrostatics  
RT electromagnetic particle decay  
RT electron-quark interactions  
RT grand unified theory  
RT hadron-hadron interactions  
RT lepton-hadron interactions  
RT lepton-lepton interactions  
RT neutral currents  
RT photon-lepton interactions  
RT radiative corrections  
RT standard model

## ELECTROMAGNETIC ISOTOPE SEPARATION

1975-09-25

*The process.*

\*BT1 isotope separation  
RT electromagnetic isotope separators

## ELECTROMAGNETIC ISOTOPE SEPARATORS

1993-11-05

UF calutrons  
NT1 tristan separator  
RT electromagnetic isotope separation  
RT isotope separation

## ELECTROMAGNETIC LENSES

UF plasma lens  
BT1 lenses  
RT end effects  
RT magnetic analyzers  
RT magnets

## ELECTROMAGNETIC PARTICLE DECAY

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 particle decay  
RT electromagnetic interactions  
RT radiative decay

## ELECTROMAGNETIC PULSES

UF emp  
\*BT1 electromagnetic radiation  
BT1 pulses  
NT1 internal electromagnetic pulses  
RT nuclear explosions

## ELECTROMAGNETIC PUMPS

\*BT1 pumps

## ELECTROMAGNETIC RADIATION

UF electromagnetic waves  
BT1 radiations  
NT1 auroral hiss  
NT1 blackbody radiation  
NT1 bremsstrahlung  
NT2 cyclotron radiation  
NT2 internal bremsstrahlung  
NT2 undulator radiation  
NT2 synchrotron radiation  
NT1 cherenkov radiation  
NT1 coherent radiation  
NT1 electromagnetic pulses  
NT2 internal electromagnetic pulses  
NT1 gamma radiation  
NT2 delayed gamma radiation  
NT2 prompt gamma radiation  
NT1 helicon waves  
NT1 infrared radiation  
NT2 far infrared radiation  
NT2 intermediate infrared radiation  
NT2 near infrared radiation  
NT1 laser radiation  
NT1 microwave radiation  
NT2 relict radiation  
NT1 monochromatic radiation  
NT1 multipole radiation  
NT1 radiowave radiation  
NT2 long wave radiation  
NT2 medium wave radiation  
NT2 radio noise  
NT3 atmospherics  
NT3 whistlers  
NT2 radioecho  
NT2 short wave radiation  
NT2 solar radio bursts  
NT2 solar radiowave radiation  
NT1 thermal radiation  
NT1 transition radiation  
NT1 ultralow frequency radiation  
NT1 ultraviolet radiation  
NT2 extreme ultraviolet radiation  
NT2 far ultraviolet radiation  
NT2 near ultraviolet radiation  
NT1 visible radiation  
NT1 x radiation  
NT2 hard x radiation  
NT2 soft x radiation  
NT1 zodiacal light  
RT faraday effect  
RT frequency mixing  
RT harmonic generation  
RT photons  
RT radiation pressure  
RT signal distortion  
RT standing waves  
RT travelling waves  
RT wave forms

## ELECTROMAGNETIC SURVEYS

1981-02-27

*A subgroup of methods of electrical exploration based on the measurement of alternating magnetic fields associated with currents artificially or naturally maintained in the subsurface.*

\*BT1 electrical surveys  
NT1 magnetotelluric surveys  
RT geothermal exploration

## ELECTROMAGNETIC TESTING

\*BT1 nondestructive testing  
NT1 eddy current testing

## electromagnetic transitions

USE energy-level transitions

## electromagnetic waves

USE electromagnetic radiation

## ELECTROMAGNETISM

BT1 magnetism  
RT continuity equations  
RT electrostatics  
RT kaluza-klein theory

## electromagnetostriction

USE magnetostriction

## ELECTROMAGNETS

\*BT1 electrical equipment  
\*BT1 magnets  
NT1 superconducting magnets  
RT electric coils  
RT magnetic properties

## ELECTROMECHANICS

BT1 mechanics

## ELECTROMETALLURGY

UF electrowinning  
BT1 metallurgy  
RT electrochemistry  
RT electrodeposition  
RT electrolysis  
RT electrorefining  
RT extractive metallurgy

## ELECTROMETERS

\*BT1 electric measuring instruments  
RT condenser ionization chambers

## electromigration

USE electrophoresis

## ELECTROMOTIVE FORCE

1999-06-30

*A force capable of maintaining a potential difference, and thus a current, within a circuit. it can be established by chemical action or by mechanical work.*

RT electric batteries  
RT electric potential  
RT electrochemistry

## electron acceptor

USE binding energy  
USE electrons  
USE valence

## electron acoustic waves

INIS: 1984-04-04; ETDE: 1984-05-10

USE electron plasma waves

## electron affinity

INIS: 2000-04-12; ETDE: 1979-04-11

USE affinity

## ELECTRON ANTINEUTRINOS

\*BT1 antineutrinos  
\*BT1 electron neutrinos

## ELECTRON-ATOM COLLISIONS

\*BT1 atom collisions  
\*BT1 electron collisions

## ELECTRON ATTACHMENT

*A(neutral) + e yields A(1 minus).*  
RT electron capture  
RT ionization

## ELECTRON BEAM FURNACES

BT1 furnaces  
RT vacuum furnaces

## ELECTRON BEAM FUSION ACCELERATOR

INIS: 1981-02-27; ETDE: 1979-07-24

*Electron beam accelerator at Sandia Laboratories to be used for inertial confinement fusion experiments.*

UF ebfa  
RT electron beam fusion reactors

- RT inertial confinement  
RT particle beam fusion accelerator

### ELECTRON BEAM FUSION REACTORS

INIS: 1982-11-29; ETDE: 1983-02-09

- UF e-beam type reactors  
UF electron beam type reactors  
BT1 thermonuclear reactors  
RT electron beam fusion accelerator  
RT icf devices  
RT inertial confinement

### electron beam induced current

INIS: 2000-04-12; ETDE: 1983-03-23

- USE scanning electron microscopy

### ELECTRON BEAM INJECTION

- BT1 beam injection

### ELECTRON BEAM ION SOURCES

INIS: 1976-08-17; ETDE: 1976-05-13

*Ion source creating high charge states by sequential electron impact ionization.*

- UF ebis  
BT1 ion sources  
RT electron beams

### ELECTRON BEAM MACHINING

- BT1 machining

### ELECTRON BEAM MELTING

- \*BT1 melting

### ELECTRON BEAM PUMPING

INIS: 1993-07-12; ETDE: 1981-08-21

- \*BT1 electrical pumping  
RT excitation  
RT lasers  
RT stimulated emission

### ELECTRON BEAM TARGETS

INIS: 1982-11-29; ETDE: 1978-09-11

- SF icf targets  
SF inertial confinement fusion targets  
BT1 targets  
RT inertial confinement  
RT ion beam targets  
RT laser targets  
RT thermonuclear fuels

### electron beam type reactors

INIS: 1982-11-29; ETDE: 1976-09-15

- USE electron beam fusion reactors

### ELECTRON BEAM WELDING

- \*BT1 welding  
RT vacuum welding

### ELECTRON BEAMS

- UF beta beams (electrons)  
\*BT1 lepton beams  
RT electron beam ion sources  
RT electron cooling  
RT electrons  
RT llnl advanced test accelerator  
RT pierce instability

### ELECTRON CAPTURE

*By projectiles in collisions; not for ELECTRON CAPTURE DECAY.*

- BT1 capture  
RT charge exchange  
RT charge states  
RT electron attachment  
RT recombination

### ELECTRON CAPTURE DECAY

- \*BT1 beta decay  
NT1 k capture  
NT1 l capture  
NT1 m capture  
RT beta-plus decay

- RT capture  
RT delayed protons  
RT electron capture radioisotopes

### ELECTRON-CAPTURE DETECTORS

*Instrument for gas analysis which incorporates an ionization chamber and internal beta source.*

- \*BT1 radiometric gages  
RT gas analysis  
RT ionization chambers

### ELECTRON CAPTURE RADIOISOTOPES

1997-02-07

- \*BT1 beta decay radioisotopes

- NT1 actinium 214  
NT1 actinium 215  
NT1 actinium 222  
NT1 actinium 223  
NT1 actinium 224  
NT1 actinium 226  
NT1 americium 231  
NT1 americium 232  
NT1 americium 233  
NT1 americium 234  
NT1 americium 235  
NT1 americium 236  
NT1 americium 237  
NT1 americium 238  
NT1 americium 239  
NT1 americium 240  
NT1 americium 242  
NT1 americium 244  
NT1 antimony 103  
NT1 antimony 107  
NT1 antimony 109  
NT1 antimony 110  
NT1 antimony 111  
NT1 antimony 112  
NT1 antimony 113  
NT1 antimony 114  
NT1 antimony 115  
NT1 antimony 116  
NT1 antimony 117  
NT1 antimony 118  
NT1 antimony 119  
NT1 antimony 120  
NT1 antimony 122  
NT1 argon 37  
NT1 arsenic 67  
NT1 arsenic 70  
NT1 arsenic 71  
NT1 arsenic 72  
NT1 arsenic 73  
NT1 arsenic 74  
NT1 astatine 195  
NT1 astatine 197  
NT1 astatine 199  
NT1 astatine 200  
NT1 astatine 201  
NT1 astatine 202  
NT1 astatine 203  
NT1 astatine 204  
NT1 astatine 205  
NT1 astatine 206  
NT1 astatine 207  
NT1 astatine 208  
NT1 astatine 209  
NT1 astatine 210  
NT1 astatine 211  
NT1 barium 117  
NT1 barium 119  
NT1 barium 120  
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 RT electron capture decay

#### ELECTRON CHANNELING

BT1 channeling  
 RT crystal lattices

#### ELECTRON COLLISIONS

BT1 collisions  
 NT1 electron-atom collisions  
 NT1 electron-electron collisions  
 NT1 electron-ion collisions  
 NT1 electron-molecule collisions  
 NT1 electron-positron collisions  
 NT1 photon-electron collisions

#### electron compounds

2003-05-30  
 USE intermetallic compounds

#### electron configuration (atoms)

USE electronic structure

#### ELECTRON COOLING

1975-08-22

*Reduction of particle beam oscillations by collisions with a low energy electron beam.*

BT1 beam cooling  
 RT beam luminosity  
 RT coulomb scattering  
 RT electron beams  
 RT proton beams

#### ELECTRON CORRELATION

*In atomic models.*

UF correlation energy  
 BT1 correlations  
 RT atomic models  
 RT density functional method

#### electron cyclotron masers

INIS: 2000-04-12; ETDE: 1978-04-06

USE microwave amplifiers

#### ELECTRON CYCLOTRON-RESONANCE

UF ecr  
 \*BT1 cyclotron resonance  
 RT ecr heating  
 RT ecr ion sources

#### electron cyclotron-resonance current drive

INIS: 1999-07-26; ETDE: 1999-09-03

USE ecr current drive

#### electron cyclotron-resonance heating

USE ecr heating

#### electron cyclotron-resonance ion

*sources*

1995-07-03

USE ecr ion sources

#### ELECTRON DENSITY

UF density (electron)  
 RT current density  
 RT electrons  
 RT plasma eaters

#### ELECTRON DETACHMENT

*A(1 minus) yields A(neutral) + e.*

RT electron loss  
 RT ionization

#### ELECTRON DETECTION

\*BT1 charged particle detection  
 RT beta detection  
 RT beta spectrometers  
 RT electron dosimetry  
 RT electron spectrometers  
 RT positron detection

#### electron-deuteron interactions

(Prior to March 1996 this was a valid ETDE descriptor.)

USE electron-neutron interactions  
 USE electron-proton interactions

#### ELECTRON DIFFRACTION

UF diffraction (electron)  
 UF lead  
 UF low energy electron diffraction  
 \*BT1 diffraction  
 RT crystallography  
 RT diffuse scattering  
 RT kikuchi lines

#### electron donor

USE binding energy  
 USE electrons  
 USE valence

#### ELECTRON DOSIMETRY

BT1 dosimetry

*RT* electron detection

**ELECTRON DRIFT**

*UF* drift (electron)  
*RT* ambipolar diffusion  
*RT* electrons

**ELECTRON-ELECTRON COLLISIONS**

\*BT1 electron collisions

**ELECTRON-ELECTRON COUPLING**

1998-10-23

BT1 coupling  
*RT* superconductivity

**electron-electron double resonance**

1993-11-05

USE eldor

**ELECTRON-ELECTRON INTERACTIONS**

\*BT1 lepton-lepton interactions

**ELECTRON EMISSION**

*UF* emission (electron)  
BT1 emission  
NT1 photoelectric emission  
*RT* auger effect  
*RT* electron sources  
*RT* field emission  
*RT* internal electromagnetic pulses  
*RT* thermionic emission  
*RT* work functions

**ELECTRON EXCHANGE**

*UF* exchange (electron)  
BT1 electron transfer  
*RT* atom-atom collisions  
*RT* atom-molecule collisions

**ELECTRON GAS**

*RT* fermi gas  
*RT* gases  
*RT* pines-bohm theory  
*RT* solid-state plasma

**ELECTRON GUNS**

1999-07-02

*UF* guns (electron)  
NT1 pierce electron guns  
*RT* electron tubes

**ELECTRON-HOLE COUPLING**

INIS: 1989-09-14; ETDE: 1980-03-29

BT1 coupling  
*RT* electrons  
*RT* holes  
*RT* superconductivity

**ELECTRON-HOLE DROPLETS**

INIS: 1999-10-07; ETDE: 1979-02-23

\*BT1 solid-state plasma  
*RT* charge carriers  
*RT* excitons  
*RT* holes

**electron-hole plasma**

INIS: 1983-06-30; ETDE: 2002-06-13

USE solid-state plasma

**electron holes**

ETDE: 1975-09-11

USE holes

**ELECTRON-IMPACT ION SOURCES**

2018-02-26

BT1 ion sources

**ELECTRON-ION COLLISIONS**

\*BT1 electron collisions  
\*BT1 ion collisions

**ELECTRON-ION COUPLING**

1984-04-04

BT1 coupling  
*RT* superconductivity

**ELECTRON LOSS**

*RT* beam strippers  
*RT* charge exchange  
*RT* charge states  
*RT* electron detachment  
*RT* ionization

**ELECTRON-MESON INTERACTIONS**

\*BT1 lepton-meson interactions  
NT1 electron-pion interactions

**ELECTRON MICROPROBE ANALYSIS**

BT1 microanalysis  
\*BT1 nondestructive analysis  
*RT* ceramography  
*RT* electron probes  
*RT* post-irradiation examination

**ELECTRON MICROSCOPES**

BT1 microscopes

**ELECTRON MICROSCOPY**

BT1 microscopy  
NT1 scanning electron microscopy  
NT1 transmission electron microscopy  
*RT* cytological techniques  
*RT* dielectric track detectors  
*RT* electron scanning  
*RT* labelled compounds  
*RT* replicas  
*RT* resolution  
*RT* sample preparation  
*RT* ultrastructural changes

**ELECTRON MOBILITY**

\*BT1 particle mobility  
*RT* electric conductors  
*RT* semiconductor materials

**ELECTRON-MOLECULE COLLISIONS**

\*BT1 electron collisions  
\*BT1 molecule collisions

**ELECTRON MULTIPLIER DETECTORS**

\*BT1 radiation detectors  
*RT* electron multipliers

**ELECTRON MULTIPLIERS**

*UF* multiplier tubes  
BT1 electron tubes  
NT1 microchannel electron multipliers  
*RT* dynodes  
*RT* electron multiplier detectors  
*RT* photomultipliers

**ELECTRON-MUON INTERACTIONS**

\*BT1 lepton-lepton interactions

**ELECTRON-MUON-TAU UNIVERSALITY**

INIS: 1989-09-14; ETDE: 1989-10-16

Identity of all properties but mass.

NT1 electron-muon universality  
*RT* electrons  
*RT* muons  
*RT* tau particles

**ELECTRON-MUON UNIVERSALITY**

Identity of all properties but mass.

BT1 electron-muon-tau universality  
*RT* electrons  
*RT* muons

**ELECTRON NEUTRINOS**

\*BT1 neutrinos  
NT1 electron antineutrinos

**ELECTRON-NEUTRON INTERACTIONS**

(From February 1975 until March 1996 ELECTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

*UF* electron-deuteron interactions  
\*BT1 electron-nucleon interactions

**electron nuclear double resonance**

USE endor

**ELECTRON-NUCLEON INTERACTIONS**

\*BT1 lepton-nucleon interactions  
NT1 electron-neutron interactions  
NT1 electron-proton interactions

**ELECTRON PAIRS**

*RT* electrons  
*RT* pair production  
*RT* positrons

**electron paramagnetic resonance**

USE electron spin resonance

**ELECTRON-PHONON COUPLING**

1983-03-15

BT1 coupling  
*RT* crystal lattices  
*RT* electrons  
*RT* phonons  
*RT* superconductivity

**ELECTRON-PION INTERACTIONS**

INIS: 1982-08-27; ETDE: 1979-04-11

\*BT1 electron-meson interactions

**ELECTRON PLASMA WAVES**

*UF* electron acoustic waves  
BT1 plasma waves

**ELECTRON-POSITRON COLLISIONS**

\*BT1 electron collisions  
\*BT1 positron collisions

**ELECTRON-POSITRON INTERACTIONS**

\*BT1 lepton-lepton interactions

**ELECTRON PRECIPITATION**

BT1 charged-particle precipitation  
*RT* aurorae  
*RT* auroral oval  
*RT* midday aurorae  
*RT* polar cusp  
*RT* radiation belts  
*RT* trapped electrons

**ELECTRON PROBES**

BT1 probes  
*RT* electron microprobe analysis  
*RT* x-ray emission analysis

**ELECTRON-PROMOTION MODEL**

*UF* fano-lichten model  
BT1 mathematical models  
*RT* diabatic approximation  
*RT* ion-atom collisions

**ELECTRON-PROTON INTERACTIONS**

(From February 1975 until March 1996 ELECTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

*UF* electron-deuteron interactions  
\*BT1 electron-nucleon interactions

**ELECTRON-QUARK****INTERACTIONS**

INIS: 1995-08-10; ETDE: 1985-08-09

- \*BT1 particle interactions
- RT electromagnetic interactions
- RT intermediate vector bosons
- RT weak interactions

**ELECTRON REACTIONS**

- \*BT1 charged-particle reactions
- \*BT1 lepton reactions
- NT1 electrofission

**ELECTRON-RING ACCELERATORS**

- UF *adegzator*
- UF *ion-drag accelerators*
- UF *ringotron*
- UF *smokatron*
- \*BT1 collective accelerators
- RT electron rings

**ELECTRON RINGS**

INIS: 1976-05-07; ETDE: 1978-03-08

- RT confinement
- RT electron-ring accelerators
- RT magnetic confinement

**ELECTRON SCANNING**

- UF *scanning (electron)*
- RT cathode ray tubes
- RT electron microscopy

**ELECTRON SOURCES**

- \*BT1 particle sources
- NT1 pierce electron guns
- RT electron emission
- RT thermionic emitters

**ELECTRON SPECTRA**

INIS: 1975-11-27; ETDE: 1976-01-26

- BT1 spectra
- RT x-ray photoelectron spectroscopy

**ELECTRON SPECTROMETERS**

- \*BT1 spectrometers
- RT electron detection

**ELECTRON SPECTROSCOPY**

- BT1 spectroscopy
- NT1 auger electron spectroscopy
- NT1 energy-loss spectroscopy
- NT1 photoelectron spectroscopy
- NT2 x-ray photoelectron spectroscopy
- RT electrons

**electron-spin echo**

INIS: 2000-04-12; ETDE: 1980-03-29

- SEE acoustic *esr*

**ELECTRON SPIN RESONANCE**

- UF *electron paramagnetic resonance*
- UF *epr*
- UF *esr*
- UF *paramagnetic resonance (electron)*
- \*BT1 magnetic resonance
- NT1 acoustic *esr*
- RT double resonance methods
- RT overhauser effect
- RT structural chemical analysis

**ELECTRON TEMPERATURE**

- UF *plasma temperature*
- UF *temperature (electron)*
- RT electrons
- RT energy

**ELECTRON TRANSFER**

Not for the concept covered by CHARGE EXCHANGE.

- UF *transfer (electron)*
- NT1 electron exchange
- RT carrier mobility

**ELECTRON TUBES**

- UF *storage tubes*
- NT1 cathode ray tubes
- NT1 cold cathode tubes
- NT1 counting tubes
- NT1 diode tubes
- NT2 thermionic diodes
- NT1 electron multipliers
- NT2 microchannel electron multipliers
- NT1 gas discharge tubes
- NT2 flash tubes
- NT2 ignitrons
- NT2 thyratrons
- NT1 gyrocons
- NT1 microwave tubes
- NT2 backward wave tubes
- NT2 klystrons
- NT2 lasertrons
- NT2 magnetrons
- NT2 travelling wave tubes
- NT1 plasmatrons
- NT1 rectifier tubes
- NT2 ignitrons
- NT1 thermionic tubes
- NT2 thermionic diodes
- NT1 triode tubes
- NT1 x-ray tubes
- RT cathodes
- RT electrical equipment
- RT electrodes
- RT electron guns
- RT electronic equipment
- RT gettering
- RT getters
- RT image tubes
- RT phototubes
- RT space charge
- RT thermionic emission
- RT work functions

**ELECTRONEGATIVITY**

- RT affinity
- RT ionization potential

**ELECTRONIC CIRCUITS**

- UF *circuits (electronic)*
- NT1 campbelling circuits
- NT1 cathode followers
- NT1 coincidence circuits
- NT1 comparator circuits
- NT1 counting circuits
- NT1 delay circuits
- NT1 digital circuits
- NT1 discriminators
- NT2 pulse discriminators
- NT1 equivalent circuits
- NT1 gating circuits
- NT1 limiter circuits
- NT1 logic circuits
- NT1 microelectronic circuits
- NT2 integrated circuits
- NT3 cmos circuits
- NT2 microprocessors
- NT1 power conditioning circuits
- NT1 printed circuits
- NT1 pulse circuits
- NT2 multivibrators
- NT3 flip-flop circuits
- NT2 pulse discriminators
- NT2 signal conditioners
- NT3 digitizers
- NT4 cathode ray tube digitizers
- NT4 flying spot digitizers
- NT4 scanning measuring projectors
- NT4 spiral reader digitizers
- NT3 pulse shapers
- NT2 trigger circuits
- NT3 transistor trigger circuits
- NT1 sequential circuits

- NT1 sweep circuits
- NT1 switching circuits
- NT2 transistor switching circuits
- NT1 tank circuits
- NT1 timing circuits
- RT amplifiers
- RT analog systems
- RT circuit breakers
- RT circuit theory
- RT counting techniques
- RT digital systems
- RT electric grounds
- RT electrical equipment
- RT electronic equipment
- RT lock-in amplifiers
- RT nanoelectronics
- RT oscillators
- RT response functions
- RT speech synthesizers
- RT transistors

**electronic data processing**

- USE data processing

**ELECTRONIC EQUIPMENT**

- BT1 equipment
- NT1 amplifiers
- NT2 ac amplifiers
- NT2 dc amplifiers
- NT2 dielectric amplifiers
- NT2 high frequency amplifiers
- NT2 lock-in amplifiers
- NT2 magnetic amplifiers
- NT2 microwave amplifiers
- NT3 masers
- NT2 operational amplifiers
- NT2 parametric amplifiers
- NT2 power amplifiers
- NT2 preamplifiers
- NT2 pulse amplifiers
- NT2 transistor amplifiers
- NT1 analog-to-digital converters
- NT1 counting ratemeters
- NT2 linear ratemeters
- NT2 logarithmic ratemeters
- NT1 digital-to-analog converters
- NT1 function generators
- NT2 pulse generators
- NT3 high-voltage pulse generators
- NT4 marx generators
- NT1 microwave equipment
- NT2 heterodyne receivers
- NT2 microwave amplifiers
- NT3 masers
- NT2 microwave dryers
- NT2 microwave tubes
- NT3 backward wave tubes
- NT3 klystrons
- NT3 lasertrons
- NT3 magnetrons
- NT3 travelling wave tubes
- NT2 squid devices
- NT1 multiplexers
- NT1 optoelectronic devices
- NT1 oscillators
- NT2 blocking oscillators
- NT2 parametric oscillators
- NT2 transistor oscillators
- NT1 oscillographs
- NT1 power supplies
- NT2 marx generators
- NT2 photovoltaic power supplies
- NT2 radio equipment power supplies
- NT2 spacecraft power supplies
- NT2 uninterruptible power supplies
- NT1 pulse analyzers
- NT2 multi-channel analyzers
- NT1 pulse converters
- NT2 current-to-frequency converters
- NT2 time-to-amplitude converters

**NT2** time-to-digital converters  
**NT1** pulse integrators  
**NT1** radio equipment  
**NT2** heterodyne receivers  
**NT2** ionosondes  
**NT2** radio telescopes  
**NT1** resonators  
**NT2** cavity resonators  
**NT3** superconducting cavity resonators  
**NT2** split-ring resonators  
**NT1** scalars  
**NT1** speech synthesizers  
*RT* analog systems  
*RT* atomic clocks  
*RT* camac system  
*RT* computer architecture  
*RT* computers  
*RT* consoles  
*RT* counting techniques  
*RT* data acquisition systems  
*RT* digital systems  
*RT* digitizers  
*RT* display devices  
*RT* electric measuring instruments  
*RT* electrical equipment  
*RT* electron tubes  
*RT* electronic circuits  
*RT* electronic guidance  
*RT* electronic wastes  
*RT* equipment interfaces  
*RT* image scanners  
*RT* miniaturization  
*RT* nuclear instrument modules  
*RT* potting  
*RT* potting materials  
*RT* pulse techniques  
*RT* radar  
*RT* radiation hardness  
*RT* reactor components  
*RT* recording systems  
*RT* semiconductor devices  
*RT* sensors  
*RT* sonar  
*RT* standby mode  
*RT* x-ray equipment

**ELECTRONIC GUIDANCE**

*UF* guidance (electronic)  
**BT1** control systems  
*RT* electronic equipment  
*RT* inertial guidance  
*RT* navigational instruments  
*RT* rockets  
*RT* space vehicles

**electronic learning**

2016-06-24

USE e-learning

**ELECTRONIC SPECIFIC HEAT**

*Electron contribution to the specific heat of electronic conductors.*

**\*BT1** specific heat  
*RT* magnetic specific heat  
*RT* nuclear specific heat

**ELECTRONIC STRUCTURE**

*For electron configuration in atoms and molecules, and electron band structure in solids.*

*UF* atomic shells  
*UF* electron configuration (atoms)  
**NT1** k shell  
**NT1** l shell  
**NT1** m shell  
**NT1** n shell  
*RT* atomic models  
*RT* atomic radii  
*RT* aufbau principle  
*RT* band theory

*RT* configuration interaction  
*RT* conformational changes  
*RT* crystal field  
*RT* density of states  
*RT* energy levels  
*RT* extreme ultraviolet spectra  
*RT* hartree-fock method  
*RT* heisenberg model  
*RT* hsk procedure  
*RT* hubbard model  
*RT* hybridization  
*RT* isoelectronic atoms  
*RT* molecular orbital method  
*RT* muffin-tin potential  
*RT* nanostructures  
*RT* photoelectron spectroscopy  
*RT* rydberg-klein-rees method  
*RT* rydberg states  
*RT* slater method  
*RT* ultraviolet spectra

**ELECTRONIC WASTES**

2016-03-21

*UF* e-wastes  
**BT1** wastes  
*RT* electronic equipment

**electronics (quantum)**

INIS: 1981-05-11; ETDE: 1976-08-05

USE quantum electronics

**ELECTRONS**

*UF* electron acceptor  
*UF* electron donor  
*UF* knock-on electrons  
*UF* negatons  
*UF* negatrons  
*UF* valence electrons  
**\*BT1** leptons  
**NT1** cosmic electrons  
**NT1** exoelectrons  
**NT1** prompt electrons  
**NT1** runaway electrons  
**NT1** solar electrons  
**NT1** solvated electrons  
**NT1** tail electrons  
**NT1** trapped electrons  
*RT* beta particles  
*RT* charge carriers  
*RT* cooper pairs  
*RT* delta rays  
*RT* dirac equation  
*RT* electron beams  
*RT* electron density  
*RT* electron drift  
*RT* electron-hole coupling  
*RT* electron-muon-tau universality  
*RT* electron-muon universality  
*RT* electron pairs  
*RT* electron-phonon coupling  
*RT* electron spectroscopy  
*RT* electron temperature  
*RT* muonium  
*RT* nanostructures  
*RT* positronium  
*RT* positrons  
*RT* traps  
*RT* umklapp processes

**ELECTROPHORESIS**

*UF* cataphoresis  
*UF* drag effect  
*UF* electromigration  
*UF* ionophoresis  
**NT1** isotachophoresis  
**NT1** two-dimensional electrophoresis  
*RT* separation processes  
*RT* thermophoresis  
*RT* transfer numbers

**ELECTROPHYSIOLOGY**

INIS: 1994-04-07; ETDE: 1985-08-22

**BT1** physiology  
*RT* bioelectricity  
*RT* electric conductivity  
*RT* electric potential

**ELECTROPLATING**

**\*BT1** electrodeposition  
**\*BT1** plating  
*RT* electrodeposited coatings

**ELECTROPOLISHING**

**\*BT1** electrolysis  
**\*BT1** polishing  
*RT* cleaning

**ELECTROPRODUCTION**

**\*BT1** electromagnetic interactions  
**\*BT1** particle interactions  
**BT1** particle production  
*RT* electric born model

**ELECTROREFINING**

**\*BT1** electrolysis  
**\*BT1** refining  
*RT* electrometallurgy

**ELECTROSCOPES****\*BT1** electric measuring instruments**ELECTROSLAG CASTING**

INIS: 2000-04-12; ETDE: 1982-08-24

**\*BT1** casting  
*RT* electroslag welding

**ELECTROSLAG WELDING**

**\*BT1** welding  
*RT* arc welding  
*RT* electroslag casting

**ELECTROSTATIC ACCELERATORS**

**BT1** accelerators  
**NT1** cockcroft-walton accelerators  
**NT1** dynamitrons  
**NT1** pelletron accelerators  
**NT2** 5u pelletron accelerator  
**NT1** tandem electrostatic accelerators  
**NT2** antares tandem accelerator  
**NT2** crml mp tandem accelerator  
**NT2** jaeri tandem accelerator  
**NT2** orsay tandem accelerator  
**NT2** vivitron tandem accelerator  
**NT1** van de graaff accelerators  
**NT2** crml mp tandem accelerator  
**NT2** jaeri tandem accelerator  
**NT2** orsay tandem accelerator  
**NT2** vivitron tandem accelerator

**ELECTROSTATIC ANALYZERS**

**BT1** beam analyzers  
*RT* electrostatic lenses

**ELECTROSTATIC CHARGE****ELIMINATORS**

*UF* static electricity eliminators  
*RT* electric charges  
*RT* electrostatics

**ELECTROSTATIC LENSES**

**BT1** lenses  
*RT* beam optics  
*RT* electrostatic analyzers  
*RT* electrostatic mirrors  
*RT* electrostatic septa

**ELECTROSTATIC MIRRORS**

INIS: 1986-03-04; ETDE: 1989-08-16

**BT1** mirrors  
*RT* beam optics  
*RT* electrostatic lenses  
*RT* electrostatics  
*RT* reflection

**ELECTROSTATIC PRECIPITATORS**

- \*BT1 pollution control equipment
- RT air cleaning
- RT air cleaning systems
- RT air pollution control
- RT air pollution monitors
- RT dust collectors
- RT electrostatics
- RT gaseous wastes
- RT hot gas cleanup
- RT separation processes
- RT stack disposal

**ELECTROSTATIC PROBES**

- BT1 probes

**ELECTROSTATIC SEPARATION**

1994-06-27

- BT1 separation processes

**ELECTROSTATIC SEPTA**

- RT beam optics
- RT electrostatic lenses
- RT magnetic analyzers
- RT septum magnets

**ELECTROSTATIC SPECTROMETERS**

- \*BT1 spectrometers

**electrostatic waves**

- USE plasma waves

**ELECTROSTATICS**

- RT capacitors
- RT charge distribution
- RT electric charges
- RT electric sparks
- RT electrostatic charge eliminators
- RT electrostatic mirrors
- RT electrostatic precipitators
- RT xerography

**electrovac equations**

INIS: 1983-06-30; ETDE: 1983-07-20

- USE einstein-maxwell equations

**electroweak interaction model**

INIS: 1995-08-10; ETDE: 2002-06-13

- USE weinberg-salam gauge model

**electroweak mixing angle**

INIS: 2000-04-12; ETDE: 1985-07-23

- USE weinberg angle

**electroweak model**

INIS: 2000-04-12; ETDE: 1985-03-26

- USE weinberg-salam gauge model

**electrowinning**

- USE electrometallurgy

**element 104**

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium

**element 104 253**

INIS: 1986-06-10; ETDE: 1986-08-21

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium 253

**element 104 254**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium 254

**element 104 255**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium 255

**element 104 256**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium 256

**element 104 257**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium 257

**element 104 258**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium 258

**element 104 259**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium 259

**element 104 260**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium 260

**element 104 261**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium 261

**element 104 262**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium 262

**element 104 263**

2002-08-13

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium 263

**element 104 chlorides**

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium chlorides

**element 104 complexes**

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium complexes

**element 104 compounds**

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium compounds

**element 104 isotopes**

1975-09-02

(Prior to March 2004 this was a valid descriptor.)

- USE rutherfordium isotopes

**element 105**

(Prior to March 2004 this was a valid descriptor.)

- USE dubnium

**element 105 255**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

- USE dubnium 255

**element 105 256**

2002-01-11

(Prior to March 2004 this was a valid descriptor.)

- USE dubnium 256

**element 105 257**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

- USE dubnium 257

**element 105 258**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

- USE dubnium 258

**element 105 259**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

- USE dubnium 259

**element 105 260**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

- USE dubnium 260

**element 105 261**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

- USE dubnium 261

**element 105 262**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

- USE dubnium 262

**element 105 263**

INIS: 1992-01-15; ETDE: 1992-02-14

(Prior to March 2004 this was a valid descriptor.)

- USE dubnium 263

**element 105 compounds**

(Prior to March 2004 this was a valid descriptor.)

- USE dubnium compounds

**element 105 isotopes**

INIS: 1986-06-10; ETDE: 1986-08-21

(Prior to March 2004 this was a valid descriptor.)

- USE dubnium isotopes

**element 106**

(Prior to March 2004 this was a valid descriptor.)

- USE seaborgium

**element 106 259**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

- USE seaborgium 259

**element 106 260**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

- USE seaborgium 260

**element 106 261**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium 261

**element 106 262**

*INIS: 2001-03-15; ETDE: 2001-02-12*  
(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium 262

**element 106 263**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium 263

**element 106 265**

*INIS: 1996-06-17; ETDE: 1996-05-31*  
(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium 265

**element 106 266**

*INIS: 1996-06-17; ETDE: 1996-05-31*  
(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium 266

**element 106 compounds**

(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium compounds

**element 106 isotopes**

*INIS: 1996-06-17; ETDE: 1976-04-19*  
(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium isotopes

**element 107**

(Prior to March 2004 this was a valid descriptor.)  
USE bohrium

**element 107 261**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE bohrium 261

**element 107 262**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE bohrium 262

**element 107 264**

*1995-03-28*  
(Prior to March 2004 this was a valid descriptor.)  
USE bohrium 264

**element 107 compounds**

(Prior to March 2004 this was a valid descriptor.)  
USE bohrium compounds

**element 107 isotopes**

*INIS: 1995-03-28; ETDE: 1986-08-21*  
(Prior to March 2004 this was a valid descriptor.)  
USE bohrium isotopes

**element 108**

(Prior to March 2004 this was a valid descriptor.)  
USE hassium

**element 108 264**

*INIS: 1986-10-29; ETDE: 1986-11-20*  
(Prior to March 2004 this was a valid descriptor.)  
USE hassium 264

**element 108 265**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE hassium 265

**element 108 266**

*INIS: 2001-03-15; ETDE: 2001-02-12*  
(Prior to March 2004 this was a valid descriptor.)  
USE hassium 266

**element 108 270**

*2002-08-13*  
(Prior to March 2004 this was a valid descriptor.)  
USE hassium 270

**element 108 compounds**

*2002-08-13*  
(Prior to March 2004 this was a valid descriptor.)  
USE hassium compounds

**element 108 isotopes**

*INIS: 1986-06-10; ETDE: 1986-08-21*  
(Prior to March 2004 this was a valid descriptor.)  
USE hassium isotopes

**element 109**

(Prior to March 2004 this was a valid descriptor.)  
USE meitnerium

**element 109 266**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE meitnerium 266

**element 109 268**

*1995-03-28*  
(Prior to March 2004 this was a valid descriptor.)  
USE meitnerium 268

**element 109 compounds**

*2010-01-22*  
USE meitnerium compounds

**element 109 isotopes**

*INIS: 1995-03-28; ETDE: 1986-08-21*  
(Prior to March 2004 this was a valid descriptor.)  
USE meitnerium isotopes

**element 110**

(Prior to March 2004 this was a valid descriptor.)  
USE darmstadtium

**element 110 269**

*1995-03-23*  
(Prior to March 2004 this was a valid descriptor.)  
USE darmstadtium 269

**element 110 270**

*INIS: 2001-03-15; ETDE: 2001-02-12*  
(Prior to March 2004 this was a valid descriptor.)  
USE darmstadtium 270

**element 110 compounds**

(Prior to March 2004 this was a valid descriptor.)  
USE darmstadtium compounds

**element 110 isotopes**

*1995-03-23*  
(Prior to March 2004 this was a valid descriptor.)  
USE darmstadtium isotopes

**element 111**

(Prior to January 2006 this was a valid descriptor.)  
USE roentgenium

**element 111 272**

*1995-03-28*  
(Prior to January 2006 this was a valid descriptor.)  
USE roentgenium 272

**element 111 compounds**

(Prior to January 2006 this was a valid descriptor.)  
USE roentgenium compounds

**element 111 isotopes**

*INIS: 1995-03-28; ETDE: 2006-01-09*  
(Prior to January 2006 this was a valid descriptor.)  
USE roentgenium isotopes

**element 112**

(Prior to May 2010 this was a valid descriptor.)  
USE copernicium

**element 112 277**

*1996-05-14*  
USE copernicium 277

**element 112 283**

*INIS: 1999-06-24; ETDE: 1999-08-24*  
(Prior to May 2010 this was a valid descriptor.)  
USE copernicium 283

**element 112 compounds**

*2002-08-13*  
(Prior to May 2010 this was a valid descriptor.)  
USE copernicium compounds

**element 112 isotopes**

*1996-05-14*  
(Prior to May 2010 ELEMENT 112 ISOTOPES was used for this concept.)  
USE copernicium isotopes

**element 113**

*Prior to March 2017 this was a valid descriptor.*  
USE nihonium

**element 113 278**

*2007-05-25*  
*Prior to March 2017 this was a valid descriptor.*  
USE nihonium 278

**element 113 283**

*2007-05-25*  
*Prior to March 2017 this was a valid descriptor.*  
USE nihonium 283

**element 113 284**

*2007-05-25*  
*Prior to March 2017 this was a valid descriptor.*  
USE nihonium 284

**element 113 compounds**

Prior to March 2017 this was a valid descriptor.

USE nihonium compounds

**element 113 isotopes**

2007-05-25

Prior to March 2017 this was a valid descriptor.

USE nihonium isotopes

**element 114**

USE flerovium

**element 114 285**

2007-09-25

USE flerovium 285

**element 114 286**

2007-09-25

USE flerovium 286

**element 114 287**

2007-09-25

USE flerovium 287

**element 114 288**

2007-09-25

USE flerovium 288

**element 114 289**

2007-09-25

USE flerovium 289

**element 114 292**

2010-05-19

USE flerovium 292

**element 114 compounds**

USE flerovium compounds

**element 114 isotopes**

2007-09-25

USE flerovium isotopes

**element 115**

Prior to March 2017 this was a valid descriptor.

**element 115 287**

2007-06-19

Prior to March 2017 this was a valid descriptor.

USE moscovium 287

**element 115 288**

2007-06-26

Prior to March 2017 this was a valid descriptor.

USE moscovium 288

**element 115 isotopes**

2007-06-19

Prior to March 2017 this was a valid descriptor.

USE moscovium isotopes

**element 116**

INIS: 1977-03-01; ETDE: 1976-12-15

USE livermorium

**element 116 290**

2008-10-22

USE livermorium 290

**element 116 291**

2008-10-22

USE livermorium 291

**element 116 292**

2008-10-22

USE livermorium 292

**element 116 293**

2008-10-22

USE livermorium 293

**element 116 isotopes**

2008-10-22

USE livermorium isotopes

**element 117**

Prior to March 2017 this was a valid descriptor.

**element 117 isotopes**

2007-06-19

Prior to March 2017 this was a valid descriptor.

USE tennessine isotopes

**element 118**

INIS: 1975-10-29; ETDE: 1975-08-19

Prior to March 2017 this was a valid descriptor.

USE oganesson

**element 118 294**

2008-10-22

Prior to March 2017 this was a valid descriptor.

USE oganesson 294

**element 118 isotopes**

2008-10-22

Prior to March 2017 this was a valid descriptor.

USE oganesson isotopes

**ELEMENT 119**

INIS: 1981-11-27; ETDE: 1981-08-04

UF ununennium

\*BT1 transactinide elements

**ELEMENT 119 ISOTOPES**

2007-06-19

BT1 isotopes

**ELEMENT 120**

INIS: 1981-11-27; ETDE: 1981-08-04

UF unbinilium

\*BT1 transactinide elements

**ELEMENT 124**

2010-05-19

UF unbiquadium

\*BT1 transactinide elements

**ELEMENT 124 312**

2010-05-19

\*BT1 element 124 isotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

**ELEMENT 124 ISOTOPES**

2010-05-19

BT1 isotopes

NT1 element 124 312

**ELEMENT 126**

UF unbihexium

\*BT1 transactinide elements

**ELEMENT 128**

INIS: 1977-09-15; ETDE: 1977-11-10

UF unbioctium

\*BT1 transactinide elements

**ELEMENT 134**

INIS: 1977-09-15; ETDE: 1977-11-10

UF untriquadium

\*BT1 transactinide elements

**ELEMENT 145**

INIS: 1977-09-15; ETDE: 1977-11-10

UF unquadpentium

\*BT1 transactinide elements

**ELEMENT 164**

INIS: 1977-09-15; ETDE: 1977-11-10

UF unhexquadium

\*BT1 transactinide elements

**ELEMENT 173**

INIS: 1977-09-15; ETDE: 1977-11-10

UF unsepttrium

\*BT1 transactinide elements

**ELEMENT ABUNDANCE**

ETDE: 1978-09-11

Always coordinate with descriptor(s) for element(s) involved.

UF abundance (element)

BT1 abundance

RT chemical composition

RT cosmochemistry

RT isotope ratio

RT natural occurrence

**elemental minerals**

INIS: 2000-04-12; ETDE: 1982-05-12

Use the descriptor below or a more specific term such as DIAMONDS or GRAPHITE.

(Prior to February 1997 this was a valid descriptor.)

USE minerals

**ELEMENTARY LENGTH**

1976-08-17

BT1 distance

\*BT1 length

**ELEMENTARY PARTICLES**

UF fundamental particles

NT1 antiparticles

NT2 antibaryons

NT3 antihyperons

NT4 antilambda particles

NT4 antiomega particles

NT4 antisigma particles

NT4 antixi particles

NT3 antinucleons

NT4 antineutrons

NT4 antiprotons

NT2 antikaons

NT3 antikaons neutral

NT2 antileptons

NT3 antineutrinos

NT4 electron antineutrinos

NT4 muon antineutrinos

NT3 muons plus

NT3 positrons

NT4 cosmic positrons

NT2 antimesons

NT3 pseudoscalar antimesons

NT4 anti-b neutral mesons

NT4 anti-d neutral mesons

NT2 antiquarks

NT3 b antiquarks

NT3 c antiquarks

NT3 d antiquarks

NT3 s antiquarks

NT3 t antiquarks

NT3 u antiquarks

NT1 beauty particles

NT2 b quarks

NT3 b antiquarks

NT2 beauty baryons

NT3 lambda b neutral baryons

NT2 beauty mesons

NT3 b c mesons

NT3 b mesons

NT4 b minus mesons

NT4 b neutral mesons



- NT5** anti-b neutral mesons  
**NT4** b plus mesons  
**NT3** b s mesons  
**NT3** b\*-5325 mesons  
**NT1** charm particles  
**NT2** c quarks  
**NT3** c antiquarks  
**NT2** charmed baryons  
**NT3** lambda c-2625 baryons  
**NT3** lambda c plus baryons  
**NT3** omega c neutral baryons  
**NT3** sigma c-2455 baryons  
**NT3** xi c neutral baryons  
**NT3** xi c plus baryons  
**NT2** charmed mesons  
**NT3** b c mesons  
**NT3** d mesons  
**NT4** d minus mesons  
**NT4** d neutral mesons  
**NT5** anti-d neutral mesons  
**NT4** d plus mesons  
**NT3** d s-2536 mesons  
**NT3** d s mesons  
**NT3** d\*-2010 mesons  
**NT3** d\*2-2460 mesons  
**NT3** d\*s-2110 mesons  
**NT3** d1-2420 mesons  
**NT1** hadrons  
**NT2** baryons  
**NT3** antibaryons  
**NT4** antihyperons  
**NT5** antilambda particles  
**NT5** antiomega particles  
**NT5** antisigma particles  
**NT5** antixi particles  
**NT4** antinucleons  
**NT5** antineutrons  
**NT5** antiprotons  
**NT3** beauty baryons  
**NT4** lambda b neutral baryons  
**NT3** charmed baryons  
**NT4** lambda c-2625 baryons  
**NT4** lambda c plus baryons  
**NT4** omega c neutral baryons  
**NT4** sigma c-2455 baryons  
**NT4** xi c neutral baryons  
**NT4** xi c plus baryons  
**NT3** dibaryons  
**NT4** dineutrons  
**NT4** diprotons  
**NT4** lambda-n-2130 dibaryons  
**NT4** nn-2170 dibaryons  
**NT4** nn-2250 dibaryons  
**NT3** hyperons  
**NT4** antihyperons  
**NT5** antilambda particles  
**NT5** antiomega particles  
**NT5** antisigma particles  
**NT5** antixi particles  
**NT4** lambda baryons  
**NT5** lambda-1405 baryons  
**NT5** lambda-1520 baryons  
**NT5** lambda-1600 baryons  
**NT5** lambda-1670 baryons  
**NT5** lambda-1690 baryons  
**NT5** lambda-1800 baryons  
**NT5** lambda-1810 baryons  
**NT5** lambda-1820 baryons  
**NT5** lambda-1830 baryons  
**NT5** lambda-1890 baryons  
**NT5** lambda-2100 baryons  
**NT5** lambda-2110 baryons  
**NT5** lambda particles  
**NT6** antilambda particles  
**NT4** lambda-n-2130 dibaryons  
**NT4** omega baryons  
**NT5** omega-2250 baryons  
**NT5** omega particles  
**NT6** antiomega particles  
**NT6** omega minus particles  
**NT4** sigma baryons  
**NT5** sigma-1385 baryons  
**NT5** sigma-1660 baryons  
**NT5** sigma-1670 baryons  
**NT5** sigma-1750 baryons  
**NT5** sigma-1770 baryons  
**NT5** sigma-1775 baryons  
**NT5** sigma-1915 baryons  
**NT5** sigma-1940 baryons  
**NT5** sigma-2030 baryons  
**NT5** sigma-2455 baryons  
**NT5** sigma particles  
**NT6** antisigma particles  
**NT6** sigma minus particles  
**NT6** sigma neutral particles  
**NT6** sigma plus particles  
**NT4** xi baryons  
**NT5** xi-1530 baryons  
**NT5** xi-1690 baryons  
**NT5** xi-1820 baryons  
**NT5** xi-1950 baryons  
**NT5** xi-2030 baryons  
**NT5** xi-2250 baryons  
**NT5** xi-2500 baryons  
**NT5** xi particles  
**NT6** antixi particles  
**NT6** xi minus particles  
**NT6** xi neutral particles  
**NT4** z\*baryons  
**NT3** n\*baryons  
**NT4** delta baryons  
**NT5** delta-1232 baryons  
**NT5** delta-1600 baryons  
**NT5** delta-1620 baryons  
**NT5** delta-1700 baryons  
**NT5** delta-1900 baryons  
**NT5** delta-1905 baryons  
**NT5** delta-1910 baryons  
**NT5** delta-1920 baryons  
**NT5** delta-1930 baryons  
**NT5** delta-1950 baryons  
**NT5** delta-2000 baryons  
**NT5** delta-2150 baryons  
**NT5** delta-2200 baryons  
**NT5** delta-2400 baryons  
**NT5** delta-2420 baryons  
**NT5** delta-3000 baryons  
**NT4** n baryons  
**NT5** n-1440 baryons  
**NT5** n-1520 baryons  
**NT5** n-1535 baryons  
**NT5** n-1650 baryons  
**NT5** n-1675 baryons  
**NT5** n-1680 baryons  
**NT5** n-1700 baryons  
**NT5** n-1710 baryons  
**NT5** n-1720 baryons  
**NT5** n-1960 baryons  
**NT5** n-1990 baryons  
**NT5** n-2000 baryons  
**NT5** n-2080 baryons  
**NT5** n-2100 baryons  
**NT5** n-2190 baryons  
**NT5** n-2250 baryons  
**NT5** n-3000 baryons  
**NT3** nucleons  
**NT4** antinucleons  
**NT5** antineutrons  
**NT5** antiprotons  
**NT4** neutrons  
**NT5** antineutrons  
**NT5** beta-delayed neutrons  
**NT5** cold neutrons  
**NT6** ultracold neutrons  
**NT5** cosmic neutrons  
**NT5** epithermal neutrons  
**NT5** fast neutrons  
**NT5** fission neutrons  
**NT6** delayed neutrons  
**NT6** prompt neutrons  
**NT5** intermediate neutrons  
**NT5** photon neutrons  
**NT5** pile neutrons  
**NT5** polyneutrons  
**NT6** dineutrons  
**NT6** traneutrons  
**NT6** trineutrons  
**NT5** resonance neutrons  
**NT5** slow neutrons  
**NT5** solar neutrons  
**NT5** thermal neutrons  
**NT4** photonucleons  
**NT5** photoneutrons  
**NT5** photoprotons  
**NT4** protons  
**NT5** antiprotons  
**NT5** cosmic protons  
**NT5** delayed protons  
**NT5** diprotons  
**NT5** photoprotons  
**NT5** prompt protons  
**NT5** solar protons  
**NT5** trapped protons  
**NT2** mesons  
**NT3** antimesons  
**NT4** pseudoscalar antimesons  
**NT5** anti-b neutral mesons  
**NT5** anti-d neutral mesons  
**NT3** axial vector mesons  
**NT4** a1-1260 mesons  
**NT4** b1-1235 mesons  
**NT4** chi b1-9890 mesons  
**NT4** chi1-3510 mesons  
**NT4** d s-2536 mesons  
**NT4** d1-2420 mesons  
**NT4** f1-1285 mesons  
**NT4** f1-1420 mesons  
**NT4** f1-1510 mesons  
**NT4** h1-1170 mesons  
**NT4** k1-1270 mesons  
**NT4** k1-1400 mesons  
**NT3** baryonium  
**NT3** beauty mesons  
**NT4** b c mesons  
**NT4** b mesons  
**NT5** b minus mesons  
**NT5** b neutral mesons  
**NT6** anti-b neutral mesons  
**NT5** b plus mesons  
**NT4** b s mesons  
**NT4** b\*-5325 mesons  
**NT3** bottomonium  
**NT4** chi b0-10235 mesons  
**NT4** chi b0-9860 mesons  
**NT4** chi b1-10255 mesons  
**NT4** chi b1-9890 mesons  
**NT4** chi b2-10270 mesons  
**NT4** chi b2-9915 mesons  
**NT4** upsilon-10023 mesons  
**NT4** upsilon-10355 mesons  
**NT4** upsilon-10580 mesons  
**NT4** upsilon-10860 mesons  
**NT4** upsilon-11020 mesons  
**NT4** upsilon-9460 mesons  
**NT3** charmed mesons  
**NT4** b c mesons  
**NT4** d mesons  
**NT5** d minus mesons  
**NT5** d neutral mesons  
**NT6** anti-d neutral mesons  
**NT5** d plus mesons  
**NT4** d s-2536 mesons  
**NT4** d s mesons  
**NT4** d\*-2010 mesons  
**NT4** d\*2-2460 mesons  
**NT4** d\*s-2110 mesons  
**NT4** d1-2420 mesons

- NT3** charmonium  
**NT4** chi0-3415 mesons  
**NT4** chi1-3510 mesons  
**NT4** chi2-3555 mesons  
**NT4** eta c-2980 mesons  
**NT4** eta c-3590 mesons  
**NT4** j psi-3097 mesons  
**NT4** psi-3685 mesons  
**NT4** psi-3770 mesons  
**NT4** psi-4040 mesons  
**NT4** psi-4160 mesons  
**NT4** psi-4415 mesons  
**NT3** phi mesons  
**NT4** phi-1020 mesons  
**NT4** phi-1680 mesons  
**NT4** phi3-1850 mesons  
**NT3** pseudoscalar mesons  
**NT4** b c mesons  
**NT4** b mesons  
**NT5** b minus mesons  
**NT5** b neutral mesons  
**NT6** anti-b neutral mesons  
**NT5** b plus mesons  
**NT4** b s mesons  
**NT4** d mesons  
**NT5** d minus mesons  
**NT5** d neutral mesons  
**NT6** anti-d neutral mesons  
**NT5** d plus mesons  
**NT4** d s mesons  
**NT4** eta-1295 mesons  
**NT4** eta-1440 mesons  
**NT4** eta c-2980 mesons  
**NT4** eta mesons  
**NT4** eta prime-958 mesons  
**NT4** k-1460 mesons  
**NT4** k-1830 mesons  
**NT4** kaons  
**NT5** antikaons  
**NT6** antikaons neutral  
**NT5** cosmic kaons  
**NT5** kaons minus  
**NT5** kaons neutral  
**NT6** antikaons neutral  
**NT6** kaons neutral long-lived  
**NT6** kaons neutral short-lived  
**NT5** kaons plus  
**NT4** pi-1300 mesons  
**NT4** pi-1770 mesons  
**NT4** pions  
**NT5** cosmic pions  
**NT5** pions minus  
**NT5** pions neutral  
**NT5** pions plus  
**NT4** pseudoscalar antimesons  
**NT5** anti-b neutral mesons  
**NT5** anti-d neutral mesons  
**NT3** scalar mesons  
**NT4** a0-980 mesons  
**NT4** chi0-3415 mesons  
**NT4** f0-1240 mesons  
**NT4** f0-1300 mesons  
**NT4** f0-1590 mesons  
**NT4** f0-1730 mesons  
**NT4** f0-980 mesons  
**NT4** k\*0-1430 mesons  
**NT3** strange mesons  
**NT4** b s mesons  
**NT4** d s-2536 mesons  
**NT4** d s mesons  
**NT4** d\*s-2110 mesons  
**NT4** k-1460 mesons  
**NT4** k-1830 mesons  
**NT4** k\*-1410 mesons  
**NT4** k\*-1680 mesons  
**NT4** k\*-892 mesons  
**NT4** k\*0-1430 mesons  
**NT4** k\*2-1430 mesons  
**NT4** k\*3-1780 mesons  
**NT4** k\*4-2045 mesons  
**NT4** k1-1270 mesons  
**NT4** k1-1400 mesons  
**NT4** k2-1770 mesons  
**NT4** k2-1820 mesons  
**NT4** kaons  
**NT5** antikaons  
**NT6** antikaons neutral  
**NT5** cosmic kaons  
**NT5** kaons minus  
**NT5** kaons neutral  
**NT6** antikaons neutral  
**NT6** kaons neutral long-lived  
**NT6** kaons neutral short-lived  
**NT5** kaons plus  
**NT3** strangeonium  
**NT4** f2 prime-1525 mesons  
**NT3** tensor mesons  
**NT4** a2-1320 mesons  
**NT4** a4-2040 mesons  
**NT4** a6-2450 mesons  
**NT4** chi b2-9915 mesons  
**NT4** chi2-3555 mesons  
**NT4** d\*2-2460 mesons  
**NT4** f2-1270 mesons  
**NT4** f2-1430 mesons  
**NT4** f2-1720 mesons  
**NT4** f2-1810 mesons  
**NT4** f2-2010 mesons  
**NT4** f2-2300 mesons  
**NT4** f2-2340 mesons  
**NT4** f2 prime-1525 mesons  
**NT4** f4-2050 mesons  
**NT4** f4-2300 mesons  
**NT4** f6-2510 mesons  
**NT4** k\*2-1430 mesons  
**NT4** k\*3-1780 mesons  
**NT4** k\*4-2045 mesons  
**NT4** k2-1770 mesons  
**NT4** k2-1820 mesons  
**NT4** omega3-1670 mesons  
**NT4** phi3-1850 mesons  
**NT4** pi2-1670 mesons  
**NT4** pi2-2100 mesons  
**NT4** rho3-1690 mesons  
**NT4** rho3-2250 mesons  
**NT4** rho5-2350 mesons  
**NT3** toponium  
**NT3** vector mesons  
**NT4** b\*-5325 mesons  
**NT4** d\*-2010 mesons  
**NT4** j psi-3097 mesons  
**NT4** k\*-1410 mesons  
**NT4** k\*-1680 mesons  
**NT4** k\*-892 mesons  
**NT4** omega-1420 mesons  
**NT4** omega-1600 mesons  
**NT4** omega-782 mesons  
**NT4** phi-1020 mesons  
**NT4** phi-1680 mesons  
**NT4** psi-3685 mesons  
**NT4** psi-3770 mesons  
**NT4** psi-4040 mesons  
**NT4** psi-4160 mesons  
**NT4** psi-4415 mesons  
**NT4** rho-1450 mesons  
**NT4** rho-1700 mesons  
**NT4** rho-2150 mesons  
**NT4** rho-770 mesons  
**NT4** upsilon-10023 mesons  
**NT4** upsilon-10355 mesons  
**NT4** upsilon-10580 mesons  
**NT4** upsilon-10860 mesons  
**NT4** upsilon-11020 mesons  
**NT4** upsilon-9460 mesons  
**NT3** x-1700 mesons  
**NT3** x-1935 mesons  
**NT3** x-2220 mesons  
**NT3** x-3075 mesons  
**NT2** resonance particles  
**NT3** exotic resonances  
**NT1** higgs bosons  
**NT1** intermediate bosons  
**NT2** intermediate vector bosons  
**NT3** w minus bosons  
**NT3** w plus bosons  
**NT3** z neutral bosons  
**NT1** leading particles  
**NT1** leptons  
**NT2** antileptons  
**NT3** antineutrinos  
**NT4** electron antineutrinos  
**NT4** muon antineutrinos  
**NT3** muons plus  
**NT3** positrons  
**NT4** cosmic positrons  
**NT2** electrons  
**NT3** cosmic electrons  
**NT3** exoelectrons  
**NT3** prompt electrons  
**NT3** runaway electrons  
**NT3** solar electrons  
**NT3** solvated electrons  
**NT3** tail electrons  
**NT3** trapped electrons  
**NT2** heavy leptons  
**NT3** heavy neutral muons  
**NT3** tau neutrinos  
**NT3** tau particles  
**NT2** muons  
**NT3** cosmic muons  
**NT3** muons minus  
**NT3** muons plus  
**NT2** neutrinos  
**NT3** antineutrinos  
**NT4** electron antineutrinos  
**NT4** muon antineutrinos  
**NT3** atmospheric neutrinos  
**NT4** conventional neutrinos  
**NT4** prompt neutrinos  
**NT3** cosmic neutrinos  
**NT3** electron neutrinos  
**NT4** electron antineutrinos  
**NT3** geoneutrinos  
**NT3** muon neutrinos  
**NT4** muon antineutrinos  
**NT3** reactor neutrinos  
**NT3** solar neutrinos  
**NT3** sterile neutrinos  
**NT3** tau neutrinos  
**NT1** massless particles  
**NT2** gravitons  
**NT2** neutrinos  
**NT3** antineutrinos  
**NT4** electron antineutrinos  
**NT4** muon antineutrinos  
**NT3** atmospheric neutrinos  
**NT4** conventional neutrinos  
**NT4** prompt neutrinos  
**NT3** cosmic neutrinos  
**NT3** electron neutrinos  
**NT4** electron antineutrinos  
**NT3** geoneutrinos  
**NT3** muon neutrinos  
**NT4** muon antineutrinos  
**NT3** reactor neutrinos  
**NT3** solar neutrinos  
**NT3** sterile neutrinos  
**NT3** tau neutrinos  
**NT2** photons  
**NT3** cosmic photons  
**NT1** postulated particles  
**NT2** dilatons  
**NT2** dyons  
**NT2** goldstone bosons  
**NT3** axions  
**NT3** majorons  
**NT2** gravitons

- NT2** heavy neutral muons  
**NT2** inflatons  
**NT2** leptoquarks  
**NT2** magnetic monopoles  
**NT2** plektons  
**NT2** preons  
**NT2** sparticles  
   **NT3** dilatinos  
   **NT3** gluinos  
   **NT3** gravitinos  
   **NT3** higgsinos  
   **NT3** neutralinos  
   **NT3** photinos  
   **NT3** winos  
   **NT3** zinos  
**NT2** spurions  
**NT2** sterile neutrinos  
**NT2** tachyons  
**NT2** top particles  
   **NT3** t quarks  
   **NT4** t antiquarks  
**NT2** wimps  
**NT1** strange particles  
**NT2** hyperons  
   **NT3** antihyperons  
     **NT4** antilambda particles  
     **NT4** antiomega particles  
     **NT4** antisigma particles  
     **NT4** antixi particles  
   **NT3** lambda baryons  
     **NT4** lambda-1405 baryons  
     **NT4** lambda-1520 baryons  
     **NT4** lambda-1600 baryons  
     **NT4** lambda-1670 baryons  
     **NT4** lambda-1690 baryons  
     **NT4** lambda-1800 baryons  
     **NT4** lambda-1810 baryons  
     **NT4** lambda-1820 baryons  
     **NT4** lambda-1830 baryons  
     **NT4** lambda-1890 baryons  
     **NT4** lambda-2100 baryons  
     **NT4** lambda-2110 baryons  
     **NT4** lambda particles  
       **NT5** antilambda particles  
   **NT3** lambda-n-2130 dibaryons  
**NT3** omega baryons  
   **NT4** omega-2250 baryons  
   **NT4** omega particles  
     **NT5** antiomega particles  
     **NT5** omega minus particles  
**NT3** sigma baryons  
   **NT4** sigma-1385 baryons  
   **NT4** sigma-1660 baryons  
   **NT4** sigma-1670 baryons  
   **NT4** sigma-1750 baryons  
   **NT4** sigma-1770 baryons  
   **NT4** sigma-1775 baryons  
   **NT4** sigma-1915 baryons  
   **NT4** sigma-1940 baryons  
   **NT4** sigma-2030 baryons  
   **NT4** sigma-2455 baryons  
   **NT4** sigma particles  
     **NT5** antisigma particles  
     **NT5** sigma minus particles  
     **NT5** sigma neutral particles  
     **NT5** sigma plus particles  
**NT3** xi baryons  
   **NT4** xi-1530 baryons  
   **NT4** xi-1690 baryons  
   **NT4** xi-1820 baryons  
   **NT4** xi-1950 baryons  
   **NT4** xi-2030 baryons  
   **NT4** xi-2250 baryons  
   **NT4** xi-2500 baryons  
   **NT4** xi particles  
     **NT5** antixi particles  
     **NT5** xi minus particles  
     **NT5** xi neutral particles  
**NT3** z\*baryons
- NT2** s quarks  
**NT3** s antiquarks  
**NT2** spurions  
**NT2** strange mesons  
   **NT3** b s mesons  
   **NT3** d s-2536 mesons  
   **NT3** d s mesons  
   **NT3** d\*s-2110 mesons  
   **NT3** k-1460 mesons  
   **NT3** k-1830 mesons  
   **NT3** k\*-1410 mesons  
   **NT3** k\*-1680 mesons  
   **NT3** k\*-892 mesons  
   **NT3** k\*0-1430 mesons  
   **NT3** k\*2-1430 mesons  
   **NT3** k\*3-1780 mesons  
   **NT3** k\*4-2045 mesons  
   **NT3** k1-1270 mesons  
   **NT3** k1-1400 mesons  
   **NT3** k2-1770 mesons  
   **NT3** k2-1820 mesons  
**NT3** kaons  
   **NT4** antikaons  
     **NT5** antikaons neutral  
   **NT4** cosmic kaons  
   **NT4** kaons minus  
   **NT4** kaons neutral  
     **NT5** antikaons neutral  
     **NT5** kaons neutral long-lived  
     **NT5** kaons neutral short-lived  
   **NT4** kaons plus  
**NT1** virtual particles  
**RT** charged-particle transport theory  
**RT** fundamental constants  
**RT** schwinger source theory
- ELEMENTS**  
*For chemical elements only.*  
**UF** trace elements  
**NT1** metals  
   **NT2** actinides  
     **NT3** actinium  
     **NT3** americium  
     **NT3** berkelium  
     **NT3** californium  
     **NT3** curium  
     **NT3** einsteinium  
     **NT3** fermium  
     **NT3** lawrencium  
     **NT3** mendelevium  
     **NT3** neptunium  
       **NT4** neptunium-alpha  
       **NT4** neptunium-gamma  
   **NT3** nobelium  
   **NT3** plutonium  
     **NT4** plutonium-alpha  
     **NT4** plutonium-beta  
     **NT4** plutonium-delta  
     **NT4** plutonium-epsilon  
     **NT4** plutonium-gamma  
   **NT3** protactinium  
   **NT3** thorium  
     **NT4** thorium-alpha  
     **NT4** thorium-beta  
   **NT3** uranium  
     **NT4** depleted uranium  
     **NT4** enriched uranium  
       **NT5** highly enriched uranium  
       **NT5** moderately enriched uranium  
       **NT5** slightly enriched uranium  
     **NT4** natural uranium  
     **NT4** uranium-alpha  
     **NT4** uranium-beta  
     **NT4** uranium-gamma  
**NT2** alkali metals  
   **NT3** cesium  
   **NT3** francium  
   **NT3** lithium  
   **NT3** potassium
- NT3** rubidium  
**NT3** sodium  
**NT2** alkaline earth metals  
   **NT3** barium  
   **NT3** beryllium  
   **NT3** calcium  
   **NT3** magnesium  
   **NT3** radium  
   **NT3** strontium  
**NT2** aluminium  
**NT2** antimony  
**NT2** bismuth  
**NT2** cadmium  
**NT2** gallium  
**NT2** germanium  
   **NT3** germanene  
**NT2** heavy metals  
**NT2** indium  
**NT2** lead  
**NT2** liquid metals  
**NT2** mercury  
**NT2** polonium  
**NT2** rare earths  
   **NT3** cerium  
     **NT4** cerium-alpha  
     **NT4** cerium-beta  
     **NT4** cerium-gamma  
   **NT3** dysprosium  
   **NT3** erbium  
   **NT3** europium  
   **NT3** gadolinium  
   **NT3** holmium  
   **NT3** lanthanum  
   **NT3** lutetium  
   **NT3** neodymium  
   **NT3** praseodymium  
   **NT3** promethium  
   **NT3** samarium  
   **NT3** terbium  
   **NT3** thulium  
   **NT3** ytterbium  
**NT2** refractory metals  
   **NT3** hafnium  
     **NT4** hafnium-alpha  
     **NT4** hafnium-beta  
   **NT3** iridium  
   **NT3** molybdenum  
   **NT3** niobium  
     **NT4** niobium-alpha  
     **NT4** niobium-beta  
   **NT3** osmium  
   **NT3** rhenium  
   **NT3** rhodium  
   **NT3** ruthenium  
   **NT3** tantalum  
   **NT3** technetium  
   **NT3** tungsten  
     **NT4** tungsten-alpha  
**NT2** scrap metals  
**NT2** thallium  
**NT2** tin  
**NT2** transition elements  
   **NT3** chromium  
   **NT3** cobalt  
   **NT3** copper  
   **NT3** gold  
   **NT3** hafnium  
     **NT4** hafnium-alpha  
     **NT4** hafnium-beta  
   **NT3** iron  
     **NT4** iron-alpha  
     **NT4** iron-delta  
     **NT4** iron-gamma  
   **NT3** manganese  
     **NT4** manganese-alpha  
   **NT3** molybdenum  
   **NT3** nickel  
   **NT3** niobium  
     **NT4** niobium-alpha

NT4 niobium-beta  
 NT3 platinum metals  
 NT4 iridium  
 NT4 osmium  
 NT4 palladium  
 NT4 platinum  
 NT4 rhodium  
 NT4 ruthenium  
 NT3 rhenium  
 NT3 scandium  
 NT3 silver  
 NT3 tantalum  
 NT3 technetium  
 NT3 titanium  
 NT4 titanium-alpha  
 NT4 titanium-beta  
 NT3 tungsten  
 NT4 tungsten-alpha  
 NT3 vanadium  
 NT3 yttrium  
 NT3 zirconium  
 NT4 zirconium-alpha  
 NT4 zirconium-beta  
 NT4 zirconium-omega  
 NT2 zinc  
 NT1 nonmetals  
 NT2 carbon  
 NT3 activated carbon  
 NT3 carbon black  
 NT3 carbon nanotubes  
 NT3 carbynes  
 NT3 diamonds  
 NT3 fullerenes  
 NT3 graphene  
 NT3 graphite  
 NT3 pyrolytic carbon  
 NT2 halogens  
 NT3 astatine  
 NT3 bromine  
 NT3 chlorine  
 NT3 fluorine  
 NT3 iodine  
 NT2 hydrogen  
 NT2 nitrogen  
 NT2 oxygen  
 NT2 phosphorus  
 NT2 rare gases  
 NT3 argon  
 NT3 helium  
 NT3 krypton  
 NT3 neon  
 NT3 radon  
 NT3 xenon  
 NT2 sulfur  
 NT1 semimetals  
 NT2 arsenic  
 NT2 boron  
 NT2 selenium  
 NT2 silicon  
 NT3 silicene  
 NT2 tellurium  
 NT1 transuranium elements  
 NT2 neptunium  
 NT3 neptunium-alpha  
 NT3 neptunium-gamma  
 NT2 plutonium  
 NT3 plutonium-alpha  
 NT3 plutonium-beta  
 NT3 plutonium-delta  
 NT3 plutonium-epsilon  
 NT3 plutonium-gamma  
 NT2 transplutonium elements  
 NT3 americium  
 NT3 berkelium  
 NT3 californium  
 NT3 curium  
 NT3 einsteinium  
 NT3 fermium  
 NT3 lawrencium

NT3 mendeleevium  
 NT3 nobelium  
 NT3 transactinide elements  
 NT4 bohrium  
 NT4 copernicium  
 NT4 darmstadtium  
 NT4 dubnium  
 NT4 element 119  
 NT4 element 120  
 NT4 element 124  
 NT4 element 126  
 NT4 element 128  
 NT4 element 134  
 NT4 element 145  
 NT4 element 164  
 NT4 element 173  
 NT4 flerovium  
 NT4 hassium  
 NT4 livermorium  
 NT4 meitnerium  
 NT4 moscovium  
 NT4 nihonium  
 NT4 oganesson  
 NT4 roentgenium  
 NT4 rutherfordium  
 NT4 seaborgium  
 NT4 tennessine  
 RT periodic system

### elevation

INIS: 2000-04-12; ETDE: 1976-10-13  
 USE levels

### ELEVATORS

2006-08-23  
 UF lifts  
 RT building technology suite  
 RT buildings  
 RT occupants

### eliashberg equations

INIS: 1977-07-05; ETDE: 1976-01-07  
 USE gorkov-eliashberg theory

### elisa

INIS: 1991-09-19; ETDE: 2002-06-13  
 Enzyme-Linked Immunosorbent Assay.  
 USE enzyme immunoassay

### elk river reactor

USE err reactor

### ELLIOT LAKE

\*BT1 ontario  
 RT stanleigh mine

### ELLIOT MODEL

\*BT1 nuclear models  
 RT shell models

### ELLIPSOMETERS

INIS: 1993-05-07; ETDE: 1979-02-23  
 Instruments for determining the ellipticity of polarized light. Used to measure the thickness of very thin transparent films.  
 BT1 measuring instruments  
 BT1 polarimeters

### ELLIPSOmetry

INIS: 1993-05-07; ETDE: 1981-03-16  
 BT1 measuring methods

### ELLIPTICAL CONFIGURATION

BT1 configuration

### ELLSWORTHITE

2000-04-12  
 \*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT calcium oxides  
 RT niobium oxides  
 RT uranium oxides

### elm (plasma physics)

INIS: 1989-12-07; ETDE: 1990-01-03  
 USE edge localized modes

### elmax devices

2000-04-12  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE magnetic mirrors

### elmo bumpy square

INIS: 2000-04-12; ETDE: 1986-04-11  
 An ELMO bumpy square consists of four straight magnetic mirror arrays linked by curved high-field corner coils. The bumpy square is a reconfiguration of the ELMO bumpy torus.  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE elmo devices

### ELMO BUMPY TORUS

\*BT1 bumpy tori  
 \*BT1 elmo devices

### ELMO DEVICES

UF elmo bumpy square  
 \*BT1 magnetic mirrors  
 NT1 elmo bumpy torus

### ELONGATION

BT1 deformation  
 RT expansion  
 RT thermal expansion

### elpidite

1996-06-26  
 (Until June 1996 this was a valid descriptor.)  
 USE silicate minerals

### ELSA ACCELERATOR COMPLEX

2018-05-21  
 Electron accelerator complex consisting of injector linacs, booster synchrotron and stretcher ring; Physics Institute of the University of Bonn, Germany  
 UF elsa electron accelerator  
 RT accelerators  
 RT bonn synchrotron  
 RT elsa linacs  
 RT elsa stretcher ring  
 RT polarized beams

### elsa electron accelerator

2018-05-21  
 USE elsa accelerator complex

### ELSA LINACS

2018-05-21  
 \*BT1 linear accelerators  
 RT elsa accelerator complex

### ELSA STRETCHER RING

2018-05-21  
 BT1 storage rings  
 RT elsa accelerator complex

### elsa synchrotron

2018-06-04  
 USE bonn synchrotron

### elution (insoluble particles)

USE elutriation

### elution (soluble constituents)

USE leaching

### ELUTRIATION

UF elution (insoluble particles)  
 BT1 separation processes  
 RT dispersions  
 RT dusts

RT particle size  
 RT particles  
 RT powders  
 RT sampling

**EMANATION METHOD**

NT1 emanation thermal analysis  
 RT materials testing  
 RT radiochemistry  
 RT rare gases

**EMANATION THERMAL ANALYSIS**

BT1 emanation method  
 BT1 thermal analysis  
 RT rare gases

**EMANOMETERS**

UF radon monitors  
 \*BT1 radiation detectors

**EMBALSE REACTOR**

INIS: 1992-06-30; ETDE: 1992-07-10  
*Nucleoelectrica Argentina S.A., Embalse, Cordoba, Argentina.*  
 \*BT1 candu type reactors  
 \*BT1 phwr type reactors

**EMBANKMENTS**

INIS: 1999-03-15; ETDE: 1975-10-01  
 RT dams  
 RT soils

**EMBARGOES**

INIS: 1993-03-24; ETDE: 1978-03-08  
*Orders or edicts of a government prohibiting the departure or entry of goods within its domains; orders issued by common carrier or public regulatory agency prohibiting the acceptance of goods.*  
 RT cartels  
 RT energy security  
 RT foreign policy  
 RT international cooperation  
 RT supply disruption  
 RT trade

**embezzlement**

INIS: 2000-04-12; ETDE: 1983-03-23  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE theft

**EMBOLI**

RT blood circulation  
 RT blood flow  
 RT blood vessels  
 RT cardiovascular diseases  
 RT radioembolization  
 RT vascular diseases

**EMBRITTLEMENT**

NT1 helium embrittlement  
 NT1 hydrogen embrittlement  
 RT brittle-ductile transitions  
 RT brittleness  
 RT ductile-brittle transitions

**EMBRYONIC CELLS**

UF amnion cells  
 BT1 animal cells  
 RT embryos

**embryonic development**

INIS: 2000-04-12; ETDE: 1976-12-15  
 USE ontogenesis

**EMBRYOS**

NT1 zygotes  
 RT age groups  
 RT amniotic fluid  
 RT carcinoembryonic antigen  
 RT embryonic cells  
 RT fetal membranes

RT fetuses  
 RT ontogenesis  
 RT pregnancy  
 RT prenatal irradiation  
 RT reproduction  
 RT uterus

**EMC EFFECT**

INIS: 1985-11-19; ETDE: 1985-06-25  
*The unexpected variation of the structure functions of nucleons bound in nuclei as compared with the structure functions of nucleons bound in the deuteron.*  
 UF european muon collaboration effect  
 RT deep inelastic scattering  
 RT lepton reactions  
 RT particle structure  
 RT structure functions

**emergencies**

USE accidents

**emergency core cooling system**

USE eecs

**emergency energy conservation act**

INIS: 2000-04-12; ETDE: 1979-12-17  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE emergency plans  
 USE energy conservation

**emergency petroleum allocation act**

INIS: 2000-04-12; ETDE: 1979-11-23  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 SEE emergency plans

**EMERGENCY PLANS**

1995-05-10  
 (Prior to August 1985 EMERGENCY PROVISIONS was used.)  
 UF emergency energy conservation act  
 UF emergency provisions  
 SF emergency petroleum allocation act  
 RT accident management  
 RT evacuation  
 RT external zones  
 RT international nuclear event scale  
 RT planning  
 RT radiation accidents  
 RT reactor accidents  
 RT safety  
 RT us emergency preparedness act

**emergency preparedness act**

INIS: 2000-04-12; ETDE: 1983-04-07  
 (Prior to February 1992 this was a valid ETDE descriptor.)  
 USE us emergency preparedness act

**emergency provisions**

INIS: 1985-07-18; ETDE: 1977-08-25  
 (Prior to August 1985 this was a valid descriptor.)  
 USE emergency plans

**emergency rods**

USE scram rods

**emergency showers**

USE safety showers

**emergency shutdown**

USE scram

**emery operation**

INIS: 2000-04-12; ETDE: 1979-11-23  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**EMINENT DOMAIN**

INIS: 2000-04-12; ETDE: 1979-05-25  
*The right of a government to take private property for public use by virtue of the superior dominion of the sovereign power over all lands within its jurisdiction.*  
 RT land use  
 RT legal aspects  
 RT rights-of-way

**EMISSION**

For emissions affecting the environment see also more specific descriptors such as AIR POLLUTION, EXHAUST GASES, GREENHOUSE GASES, PARTICULATES.

NT1 electron emission  
 NT2 photoelectric emission  
 NT1 field emission  
 NT1 ion emission  
 NT1 neutron emission  
 NT1 photon emission  
 NT2 luminescence  
 NT3 bioluminescence  
 NT3 cathodoluminescence  
 NT3 chemiluminescence  
 NT3 electroluminescence  
 NT3 fluorescence  
 NT4 resonance fluorescence  
 NT3 lyoluminescence  
 NT3 phosphorescence  
 NT3 photoluminescence  
 NT3 radioluminescence  
 NT4 radiothermoluminescence  
 NT3 thermoluminescence  
 NT4 radiothermoluminescence  
 NT2 superradiance  
 NT1 secondary emission  
 NT2 photoemission  
 NT1 stimulated emission  
 NT2 superradiance  
 NT1 thermionic emission  
 RT angular distribution  
 RT emission spectra  
 RT stationary pollutant sources

**emission (cooperative spontaneous)**

INIS: 1993-11-05; ETDE: 2002-06-13  
 USE superradiance

**emission (electron)**

2000-04-12  
 USE electron emission

**EMISSION COMPUTED****TOMOGRAPHY**

INIS: 1980-04-02; ETDE: 1980-05-07  
 \*BT1 computerized tomography  
 NT1 ecat scanning  
 NT1 positron computed tomography  
 NT1 single photon emission computed tomography  
 RT biomedical radiography  
 RT gamma cameras  
 RT photon emission scanning  
 RT positron cameras  
 RT radioisotope scanning

**emission computer axial tomography scanning**

INIS: 2000-04-12; ETDE: 1979-09-06  
 USE ecat scanning

**EMISSION SPECTRA**

BT1 spectra  
 RT emission

**EMISSION SPECTROSCOPY**

UF flame spectrometry  
 UF x-ray photoelectron spectrometry  
 SF spectrochemistry

- BT1 spectroscopy
- NT1 fluorescence spectroscopy
- NT1 x-ray emission spectroscopy
- RT cathodoluminescence
- RT fourier transform spectrometers
- RT qualitative chemical analysis
- RT quantitative chemical analysis

**emissions (industrial)**

2003-08-26

- SEE exhaust gases
- SEE industrial wastes
- SEE liquid wastes
- SEE plumes
- SEE solid wastes
- SEE thermal effluents

**emissions rights trading**

2003-08-26

- USE emissions trading

**EMISSIONS TAX**

2003-08-27

*Tax on the amount of pollution produced.*

- BT1 taxes
- RT climatic change
- RT emissions trading
- RT environmental policy
- RT exhaust gases
- RT greenhouse gases
- RT industrial wastes
- RT kyoto protocol
- RT liquid wastes
- RT paris agreement
- RT plumes
- RT pollution
- RT rio declaration
- RT solid wastes
- RT thermal effluents

**EMISSIONS TRADING**

2003-08-26

*Regulatory program that permits generators of pollution the option to exchange emission allowances as a cost-effective solution to achieve environmental goals.**UF emissions rights trading*

- \*BT1 environmental policy
- RT allocations
- RT carbon footprint
- RT carbon neutrality
- RT charges
- RT climatic change
- RT emissions tax
- RT energy policy
- RT exhaust gases
- RT greenhouse gases
- RT industrial wastes
- RT kyoto protocol
- RT paris agreement
- RT pollution
- RT redd
- RT rio declaration

**EMISSIVITY***UF spectral flame radiance*

- \*BT1 optical properties
- BT1 surface properties
- RT blackbody radiation
- RT radiant heat transfer

**emittance (beam)**

- USE beam emittance

**eml**

INIS: 2000-04-12; ETDE: 1984-07-20

- SEE environmental measurements laboratory

**emp**

- USE electromagnetic pulses

**EMPHYSEMA**

INIS: 1979-01-18; ETDE: 1977-11-29

- BT1 pathological changes
- \*BT1 respiratory system diseases
- RT lungs

**emplacement**

1984-02-22

*The positioning or locating of an object in a particular place as, e.g., the emplacement of a nuclear explosive device within a borehole.*

- USE positioning

**employees**

- USE personnel

**EMPLOYMENT**

INIS: 1996-05-14; ETDE: 1977-08-09

*Number of workers employed.*

- UF unemployment
- SF labor
- RT manpower
- RT occupations
- RT us affirmative action program
- RT work
- RT working days

**ems (ethyl methanesulfonate)**

ETDE: 2005-01-28

*(Prior to January 2005 EMS was a valid descriptor.)*

- USE ethyl methanesulfonate

**EMSLAND REACTOR**

INIS: 1980-02-26; ETDE: 1980-03-29

*Lingen, Niedersachsen, Federal Republic of Germany.*

- UF kernkraftwerk emsland
- \*BT1 pwr type reactors

**EMULSIFICATION**

1992-03-17

- RT demulsification
- RT demulsifiers
- RT emulsifiers
- RT emulsions

**EMULSIFIERS**

- BT1 additives
- NT1 detergents
- NT2 pluronics
- RT demulsification
- RT demulsifiers
- RT emulsification
- RT emulsions
- RT soaps

**EMULSIONS**

- \*BT1 colloids
- NT1 microemulsions
- NT1 photographic emulsions
- RT demulsification
- RT demulsifiers
- RT emulsification
- RT emulsifiers
- RT latex

**ENAMELS**

- BT1 coatings
- RT ceramics

**enanthic acid**

- USE heptanoic acid

**ENANTIOMORPHS**

INIS: 1994-06-27; ETDE: 1976-02-19

*Pair of chemical compounds or crystals whose molecular structures have a mirror-image relationship to each other.*

- UF chiral molecules
- UF dextro and levo optical isomers
- UF optical antipodes

*UF optical isomers*

- BT1 isomers
- RT stereochemistry

**ENCAPSULATION**

INIS: 1978-11-24; ETDE: 1978-04-27

*May be used for biological systems, radioactive waste processing, etc.*

- RT capsules
- RT potting
- RT potting materials
- RT radioactive waste processing

**ENCEPHALITIS**

\*BT1 nervous system diseases

- NT1 rabies
- RT brain
- RT viral diseases

**END EFFECTS**

1982-11-29

- UF end losses
- RT electromagnetic lenses
- RT magnetic fields
- RT mhd generators
- RT wall effects

**end losses**

INIS: 1982-11-29; ETDE: 2002-06-13

- USE end effects

**end use sector**

INIS: 2000-04-12; ETDE: 1979-05-03

*See specific entries such as those listed below.*

- SEE commercial sector
- SEE industry
- SEE residential sector
- SEE transportation sector

**ENDANGERED SPECIES**

INIS: 1991-10-11; ETDE: 1976-03-22

*A species in danger of extinction in all or a significant part of its range.*

- UF threatened species
- RT animals
- RT biological extinction
- RT plants

**endf**

INIS: 1994-07-01; ETDE: 1983-03-23

*Evaluated Nuclear Data File.*

- USE nuclear data collections

**ENDOCRINE DISEASES**

- BT1 diseases
- NT1 acromegaly
- NT1 cushing syndrome
- NT1 diabetes mellitus
- NT1 goiter
- NT1 hyperparathyroidism
- NT1 hyperthyroidism
- NT1 hypothyroidism
- NT1 thyroiditis
- RT endocrine glands
- RT hormones
- RT menstruation disorders
- RT metabolic diseases
- RT reproductive disorders
- RT urogenital system diseases

**ENDOCRINE GLANDS**

- \*BT1 glands
- NT1 adrenal glands
- NT1 pancreas
- NT1 parathyroid glands
- NT1 pituitary gland
- NT1 thyroid
- RT endocrine diseases
- RT gonads
- RT homeostasis
- RT hormones
- RT hypothalamus

RT pineal gland  
RT receptors

**endometrium**

USE uterus

**ENDONUCLEASES**

INIS: 1997-06-17; ETDE: 1984-06-29

Repair enzymes which remove short segments of DNA containing a damaged nucleotide or a mismatched base pair.

\*BT1 dna-ase  
RT contigs  
RT dna methylases  
RT dna repair  
RT gene recombination proteins  
RT nucleoproteins  
RT rflps

**ENDOPLASMIC RETICULUM**

1999-04-20

BT1 cell constituents  
NT1 sarcoplasmic reticulum  
RT golgi complexes

**ENDOR**

UF electron nuclear double resonance  
\*BT1 magnetic resonance  
RT double resonance methods

**ENDORPHINS**

INIS: 1982-09-21; ETDE: 1981-04-20

\*BT1 neuroregulators  
\*BT1 polypeptides  
NT1 enkephalins  
RT brain  
RT central nervous system depressants

**ENDOSPERM**

BT1 plant tissues  
RT seeds

**endosteum**

USE bone tissues

**ENDOTHELINS**

2003-11-05

\*BT1 polypeptides  
RT endothelium  
RT vasoconstrictors

**ENDOTHELIUM**

\*BT1 animal tissues  
RT endothelins  
RT epithelium

**ENDOTOXINS**

\*BT1 toxins  
RT bacteria  
RT infectivity  
RT polysaccharides

**ENDOXAN**

UF cyclophosphamide  
BT1 alkylating agents  
\*BT1 immunosuppressive drugs  
RT immunosuppression

**ENDURO**

2000-04-12

\*BT1 chromium-nickel steels  
\*BT1 heat resisting alloys

**enea**

1995-03-28

European Nuclear Energy Agency.  
(Until March 1995 this was a valid descriptor. Name changed to OECD Nuclear Energy Agency in April 1972 and more recent material should have been indexed to NEA.)  
USE nea

**enea italy**

INIS: 1985-03-15; ETDE: 2002-06-13  
Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative.  
USE italian enea

**ENEL-4 REACTOR**

Caorso, Italy. Permanent shutdown since July 1990.

UF caorso reactor  
\*BT1 bwr type reactors

**enel-6 reactor**

INIS: 1985-03-15; ETDE: 1985-04-09  
USE montalto di castro-1 reactor

**enel-8 reactor**

INIS: 1985-03-15; ETDE: 1985-04-09  
USE montalto di castro-2 reactor

**energetic electrons**

1994-02-28  
USE tail electrons

**energetic ions**

INIS: 1994-02-28; ETDE: 2002-06-13  
USE tail ions

**energetic solar particles**

1985-11-18  
(Prior to December 1985 this was a valid descriptor.)  
USE solar particles

**energia nucl e altern, com naz**

INIS: 1985-03-15; ETDE: 2002-06-13  
Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative.  
USE italian enea

**energieonderzoek centrum nederland**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE ecn

**ENERGY**

1996-01-24

SF energy content  
NT1 activation energy  
NT1 binding energy  
NT2 neutron separation energy  
NT2 pairing energy  
NT1 coulomb energy  
NT1 dissociation energy  
NT1 exergy  
NT1 free energy  
NT2 formation free energy  
NT2 surface energy  
NT1 free enthalpy  
NT2 formation free enthalpy  
NT2 oxygen potential  
NT1 geothermal energy  
NT1 gray energy  
NT1 heat  
NT2 absorption heat  
NT2 combustion heat  
NT2 process heat  
NT3 geothermal process heat  
NT3 solar process heat  
NT2 waste heat  
NT1 kinetic energy  
NT2 transverse energy  
NT1 net energy  
NT1 nuclear energy  
NT1 potential energy  
NT2 fission barrier  
NT1 q-value  
NT1 self-energy  
NT1 solar energy  
NT1 stored energy

NT1 threshold energy  
RT electron temperature  
RT energy dependence  
RT energy-momentum tensor  
RT energy range  
RT energy security  
RT energy sources  
RT high-energy limit  
RT ion temperature  
RT low-energy limit  
RT neutron temperature  
RT nuclear temperature  
RT photon temperature  
RT proton temperature  
RT radioisotope heat sources  
RT thermodynamics  
RT work functions

**ENERGY ABSORPTION**

SF energy deposition  
\*BT1 absorption  
RT ionization  
RT radiation doses

**ENERGY ACCOUNTING**

INIS: 1982-12-03; ETDE: 1977-05-07  
Procedure of preparing an 'energy balance sheet' of all energy inputs, outputs, and losses of a process or facility; energy forms, quantities, costs, and flows through the system are considered.

UF energy costs  
SF energy content  
BT1 accounting  
BT1 energy analysis  
RT energy audits  
RT energy management  
RT energy quality  
RT gray energy  
RT net energy

**ENERGY ANALYSIS**

INIS: 1979-09-18; ETDE: 1977-10-20  
Any analysis or methodology to discover how energy is used by economies.

NT1 energy accounting  
NT1 energy quality  
NT1 net energy  
RT economic analysis  
RT energy models  
RT input-output analysis  
RT systems analysis

**energy applied systems test facility**

INIS: 2000-04-12; ETDE: 1981-08-21  
SEE savannah river plant

**ENERGY AUDITS**

INIS: 1992-03-27; ETDE: 1979-08-07  
The analysis of a facility to determine the forms of energy used, the quantities and costs of various forms of energy used, the purposes for which the energy is used, and the identification of energy conservation opportunities.

SF energy content  
BT1 audits  
RT energy accounting  
RT energy conservation  
RT low-energy buildings

**ENERGY BALANCE**

For energy economics studies use ENERGY ACCOUNTING.

UF balance (energy)  
UF energy budgets  
SF energy content  
NT1 breakeven  
RT confinement  
RT energy recovery  
RT energy transfer

RT radiative forcing

## ENERGY BALANCE MASS SPECTROMETERS

\*BT1 dynamic mass spectrometers

## ENERGY BEAM DEPOSITION

INIS: 1999-02-15; ETDE: 1980-02-11

UF ebd

UF ebd films

UF energy beam deposition films

\*BT1 surface coating

## energy beam deposition films

INIS: 2000-04-12; ETDE: 1980-02-11

(Prior to February 1997 this was a valid ETDE descriptor.)

USE energy beam deposition

USE thin films

## energy budgets

INIS: 2000-04-12; ETDE: 1980-02-11

Input-output analysis of ecosystem bioenergetics.

(Prior to February 1997 this was a valid ETDE descriptor.)

USE ecosystems

USE energy balance

## energy cascade

INIS: 2000-04-12; ETDE: 1979-01-30

Conservation concept starting with a high-temperature process (e.g. steel rolling mill, furnace) and with recuperation utilizes heat at progressively lower stages: gas turbine, steam turbine, process steam, and organic turbine. (Prior to February 1997 this was a valid ETDE descriptor.)

USE waste heat utilization

## energy cascading

INIS: 2000-04-12; ETDE: 1979-01-30

(Prior to February 1997 ENERGY CASCADE was used for this concept in ETDE.)

USE waste heat utilization

## energy complexes

INIS: 2000-04-12; ETDE: 1977-03-04

USE energy parks

## ENERGY CONSERVATION

1977-10-17

Conservation of energy resources.

UF conservation (energy)

UF emergency energy conservation act

RT air infiltration

RT carpooling

RT efficiency

RT energy audits

RT energy conservation and production act

RT energy consumption

RT energy efficiency

RT energy management

RT energy management systems

RT energy recovery

RT low-energy buildings

RT national energy conservation incentives act

RT national energy plans

RT recycling

RT resource conservation

RT resource recovery acts

RT solar fraction

RT thermal insulation

RT total energy systems

RT us energy policy and conservation act

RT us energy tax act

RT us national energy conservation policy act

RT us national energy plan

RT us public utility regulatory policies act

RT vanpooling

RT vernacular architecture

## ENERGY CONSERVATION AND PRODUCTION ACT

INIS: 2000-04-12; ETDE: 1977-11-28

UF ecpa

BT1 laws

RT energy conservation

RT energy supplies

RT petroleum

## ENERGY CONSUMPTION

NT1 fuel consumption

RT consumption rates

RT demand

RT demand factors

RT energy conservation

RT energy efficiency

RT energy expenses

RT gas meters

RT life cycle assessment

RT net energy

RT per capita values

RT power

RT power meters

RT total energy systems

RT us energy tax act

## energy content

2004-05-14

SEE energy

SEE energy accounting

SEE energy audits

SEE energy balance

SEE gray energy

SEE life cycle assessment

## ENERGY CONVERSION

BT1 conversion

NT1 direct energy conversion

NT2 photovoltaic conversion

NT2 thermionic conversion

NT2 thermoelectric conversion

NT2 thermomagnetic conversion

NT2 thermophotovoltaic conversion

NT1 electrochemical energy conversion

NT1 geothermal energy conversion

NT1 heat production

NT1 solar energy conversion

NT2 ocean thermal energy conversion

NT2 solar thermal conversion

RT energy transfer

RT photovoltaic effect

RT water brakes

RT wave energy converters

RT working fluids

## energy costs

INIS: 1982-12-03; ETDE: 1977-05-07

USE energy accounting

## ENERGY CROPS

2013-07-19

\*BT1 biomass

BT1 crops

\*BT1 renewable energy sources

RT biofuels

## ENERGY DEMAND

1991-10-21

For general reference to all forms of energy; for electric-power demand use POWER DEMAND.

BT1 demand

RT demand factors

RT energy efficiency

RT energy shortages

RT energy supplies

RT energy surpluses

RT power demand

RT supply and demand

## ENERGY DENSITY

INIS: 1980-09-12; ETDE: 1979-04-11

UF density (energy)

RT charge density

RT quantum mechanics

## ENERGY DEPENDENCE

For explicit dependence of a certain quantity or phenomenon on the energy.

RT energy

RT energy range

RT excitation functions

RT spectral response

## energy deposition

INIS: 1982-11-29; ETDE: 1991-07-05

(Prior to August 00, this was a valid INIS descriptor assigned to 3658 documents.)

SEE energy absorption

SEE energy losses

## energy dissipation

USE energy losses

## energy distribution

USE energy spectra

## ENERGY EFFICIENCY

INIS: 1991-08-19; ETDE: 1977-06-21

BT1 efficiency

RT energy conservation

RT energy consumption

RT energy demand

RT energy efficiency standards

RT energy quality

RT energy substitution equivalent

RT net energy

RT us public utility regulatory policies act

## ENERGY EFFICIENCY STANDARDS

INIS: 1991-08-14; ETDE: 1980-08-12

UF energy performance standards

BT1 standards

RT energy efficiency

RT standardization

## energy exchange

USE energy transfer

## ENERGY EXPENSES

INIS: 1991-12-11; ETDE: 1981-03-16

Monetary outlays or charges for energy consumed; not for Energy Costs, for which see ENERGY ACCOUNTING.

RT cost

RT economic elasticity

RT energy consumption

RT prices

## energy extension service

INIS: 2000-04-12; ETDE: 1977-04-12

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy extension service

## ENERGY FACILITIES

INIS: 1994-10-13; ETDE: 1977-06-21

UF facilities (energy)

NT1 resource recovery facilities

RT distributed structures

RT energy parks

RT ices program

RT maintenance facilities

RT modular structures

RT nuclear facilities

RT rural energy centers

RT storage facilities



RT terminal facilities  
RT underground facilities

**ENERGY GAP**

RT band theory  
RT superconductivity

**energy information administration**

INIS: 2000-04-12; ETDE: 1979-12-17

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy information administration

**energy integrated industrial parks**

INIS: 2000-04-12; ETDE: 1979-09-26

USE energy parks

**ENERGY-LEVEL DENSITY**

See also DENSITY OF STATES

UF density (energy-level)  
UF level density  
RT energy levels  
RT energy resolution  
RT level widths

**energy-level schemes**

USE energy levels

**ENERGY-LEVEL TRANSITIONS**

UF electromagnetic transitions  
UF transitions (energy level)  
NT1 coster-kronig transitions  
NT1 de-excitation  
NT2 radiationless decay  
NT1 excitation  
NT2 collective excitations  
NT2 coulomb excitation  
NT2 inner-shell excitation  
NT1 forbidden transitions  
NT1 isomeric transitions  
NT1 multipole transitions  
NT2 e0-transitions  
NT2 e1-transitions  
NT2 e2-transitions  
NT2 e3-transitions  
NT2 e4-transitions  
NT2 m1-transitions  
NT2 m2-transitions  
NT2 m3-transitions  
NT2 m4-transitions  
NT1 nuclear cascades  
NT2 gamma cascades  
NT1 stimulated emission  
NT2 superradiance  
RT auger effect  
RT band theory  
RT decay  
RT einstein coefficients  
RT energy levels  
RT franck-condon principle  
RT mixing ratio  
RT multi-photon processes  
RT oscillator strengths  
RT selection rules

**ENERGY LEVELS**

UF energy-level schemes  
UF level schemes  
UF resonance states  
UF states (energy)  
NT1 d states  
NT1 e states  
NT1 excited states  
NT2 metastable states  
NT2 rotational states  
NT2 rydberg states  
NT2 vibrational states  
NT1 f states  
NT1 fermi level  
NT1 g states  
NT1 ground states

NT1 high spin states  
NT1 isobaric analogs  
NT1 negative energy states  
NT1 p states  
NT1 s states  
NT1 virtual states  
NT1 yrast states  
RT bound state  
RT brillouin theorem  
RT eigenstates  
RT electronic structure  
RT energy-level density  
RT energy-level transitions  
RT external conversion  
RT fine structure  
RT internal conversion  
RT jahn-teller effect  
RT lamb shift  
RT lande factor  
RT level widths  
RT nuclear cascades  
RT nuclear structure  
RT population inversion  
RT quasibound state  
RT rydberg correction  
RT strangeness analog resonances  
RT strength functions

**ENERGY-LOSS SPECTROSCOPY**

INIS: 1999-07-02; ETDE: 1983-03-23

\*BT1 electron spectroscopy

**ENERGY LOSSES**

UF degradation (energy)  
UF energy dissipation  
UF ionization loss  
UF ohmic plasma losses  
SF energy deposition  
SF heat dissipation  
BT1 losses  
NT1 ac losses  
NT1 heat losses  
NT1 power losses  
NT1 relaxation losses  
RT attenuation  
RT bragg curve  
RT damping  
RT dissipation factor  
RT flaring  
RT friction  
RT hysteresis  
RT ionization  
RT ionizing radiations  
RT landau fluctuations  
RT let  
RT microdosimetry  
RT particle losses  
RT radiation effects  
RT radiation length  
RT radiation quality  
RT range  
RT shock absorbers  
RT slowing-down  
RT stopping power  
RT straggling

**ENERGY MANAGEMENT**

INIS: 1999-03-02; ETDE: 1977-06-21

BT1 management  
RT energy accounting  
RT energy conservation  
RT energy management systems  
RT energy supplies  
RT resource management

**ENERGY MANAGEMENT SYSTEMS**

INIS: 1993-02-18; ETDE: 1979-07-18

BT1 control systems  
BT1 energy systems  
RT building technology suite

RT buildings  
RT computerized control systems  
RT energy conservation  
RT energy management  
RT low-energy buildings  
RT space hvac systems

**ENERGY MODELS**

INIS: 1992-03-27; ETDE: 1976-01-23

NT1 national coal model  
NT1 pies  
NT1 projection series  
RT computerized simulation  
RT energy analysis  
RT mathematical models

**ENERGY-MOMENTUM TENSOR**

INIS: 1983-03-15; ETDE: 1976-07-07

BT1 tensors  
RT energy  
RT general relativity theory  
RT linear momentum

**energy of dissociation**

USE dissociation energy

**energy operators**

USE hamiltonians

**ENERGY PARKS**

INIS: 2000-04-12; ETDE: 1976-01-07

(From September 1979 to March 1997 INDUSTRIAL PARKS was a valid ETDE descriptor.)

UF eiip  
UF energy complexes  
UF energy integrated industrial parks  
UF parks (energy)  
SF industrial parks  
NT1 nuclear parks  
RT energy facilities  
RT rural energy centers

**energy performance standards**

INIS: 1991-08-14; ETDE: 1980-08-12

USE energy efficiency standards

**ENERGY POLICY**

1999-07-06

Overall policy concerning development, production, use, and conservation of energy and its sources.

SF policy  
BT1 government policies  
NT1 national energy plans  
NT2 us national energy plan  
NT1 project independence  
RT allocations  
RT emissions trading  
RT foreign policy  
RT international energy agency  
RT nuclear power phaseout  
RT planning  
RT regional cooperation  
RT sustainable development  
RT synthetic fuels corporation  
RT us energy policy and conservation act  
RT us national energy conservation policy act  
RT us natural gas policy act  
RT wends  
RT world energy council

**energy policy and conservation act**

INIS: 2000-04-12; ETDE: 1976-09-29

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy policy and conservation act

**ENERGY QUALITY**

*INIS: 2000-04-12; ETDE: 1978-04-28*

*Measured by the energy cost of sustaining an energy flow or storage.*

- BT1 energy analysis
- RT energy accounting
- RT energy efficiency
- RT entropy

**ENERGY RANGE**

- NT1 eev range
- NT1 ev range
  - NT2 ev range 01-10
  - NT2 ev range 10-100
  - NT2 ev range 100-1000
- NT1 gev range
  - NT2 gev range 01-10
  - NT2 gev range 10-100
  - NT2 gev range 100-1000
- NT1 kev range
  - NT2 kev range 01-10
  - NT2 kev range 10-100
  - NT2 kev range 100-1000
- NT1 mev range
  - NT2 mev range 01-10
  - NT2 mev range 10-100
  - NT2 mev range 100-1000
- NT1 pev range
- NT1 relativistic range
- NT1 tev range
  - NT2 tev range 01-10
  - NT2 tev range 10-100
  - NT2 tev range 100-1000
- RT energy
- RT energy dependence
- RT group constants

**ENERGY RECOVERY**

*INIS: 1985-12-11; ETDE: 1978-04-06*

- SF recovery
- NT1 heat recovery
- RT energy balance
- RT energy conservation
- RT heat
- RT resource recovery facilities
- RT waste product utilization

**energy research advisory board**

*INIS: 2000-04-12; ETDE: 1981-07-18*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE advisory committees
- USE research programs

**energy research and development administration**

*INIS: 2000-04-12; ETDE: 1975-10-01*

- USE us erda

**ENERGY RESOLUTION**

*Full Width at Half-Maximum of energy spectra.*

- BT1 resolution
- RT energy-level density
- RT energy spectra

**ENERGY SECURITY**

*2011-07-20*

*Access to a reliable supply of affordable energy*

- RT availability
- RT embargoes
- RT energy
- RT energy shortages
- RT supply disruption

**energy security act**

*INIS: 2000-04-12; ETDE: 1980-07-23*

(Prior to February 1992 this was a valid ETDE descriptor.)

- USE us energy security act

**energy security corporation**

*INIS: 2000-04-12; ETDE: 1980-07-23*

- USE synthetic fuels corporation

**ENERGY SHORTAGES**

- BT1 shortages
- RT energy demand
- RT energy security
- RT energy supplies
- RT energy surpluses
- RT fuel substitution
- RT international energy agency

**ENERGY SOURCE DEVELOPMENT**

*INIS: 1992-03-12; ETDE: 1977-01-10*

- RT energy sources
- RT resource assessment
- RT resource development
- RT resource management
- RT resource potential
- RT risk assessment
- RT sustainable development
- RT synthetic fuels corporation

**ENERGY SOURCES**

- NT1 fossil fuels
  - NT2 coal
    - NT3 black coal
      - NT4 anthracite
      - NT4 bituminous coal
    - NT3 brown coal
      - NT4 lignite
    - NT3 coal fines
    - NT3 high-sulfur coal
    - NT3 low-sulfur coal
    - NT3 sapropelic coal
      - NT4 boghead coal
      - NT5 torbanite
    - NT4 cannel coal
    - NT3 subbituminous coal
  - NT2 natural gas
    - NT3 abiogenic gas
    - NT3 compressed natural gas
    - NT3 liquefied natural gas
  - NT2 oil sands
  - NT2 oil shales
    - NT3 black shales
  - NT2 peat
  - NT2 petroleum
    - NT3 petroleum fractions
      - NT4 petroleum distillates
        - NT5 gas oils
          - NT6 diesel fuels
          - NT6 fuel oils
        - NT7 heating oils
        - NT7 residual fuels
      - NT6 kerosene
        - NT4 petroleum residues
        - NT4 refinery gases
    - NT3 residual petroleum
    - NT3 shale oil
      - NT4 shale oil fractions
    - NT3 sour crudes
  - NT1 fuel gas
    - NT2 high btu gas
    - NT2 intermediate btu gas
      - NT3 carburetted water gas
      - NT3 town gas
      - NT3 water gas
    - NT2 landfill gas
    - NT2 low btu gas
      - NT3 producer gas
  - NT2 natural gas
    - NT3 abiogenic gas

- NT3 compressed natural gas

- NT3 liquefied natural gas

- NT1 nuclear fuels
  - NT2 accident-tolerant nuclear fuels
  - NT2 alloy nuclear fuels
    - NT3 uranium-molybdenum fuels
  - NT2 denatured fuel
  - NT2 dispersion nuclear fuels
  - NT2 fuel solutions
  - NT2 liquid metal fuels
  - NT2 mixed carbide fuels
  - NT2 mixed nitride fuels
  - NT2 mixed oxide fuels
  - NT2 molten salt fuels
  - NT2 spent fuels
- NT1 renewable energy sources
  - NT2 biomass
    - NT3 energy crops
  - NT2 energy crops
  - NT2 geothermal energy
  - NT2 hydroelectric power
  - NT2 hydrokinetic power
  - NT2 solar energy
  - NT2 tidal power
  - NT2 wave power
  - NT2 wind power
    - RT availability
  - RT energy
  - RT energy source development
  - RT energy substitution equivalent
  - RT energy supplies
  - RT energy surpluses
  - RT interchangeability
  - RT sun
  - RT us national energy plan
  - RT waste heat

**ENERGY SPECTRA**

- UF energy distribution
- BT1 spectra
- RT energy resolution
- RT energy yield
- RT group constants
- RT rydberg correction
- RT spectral density
- RT spectral response
- RT transverse energy

**ENERGY STORAGE**

*1995-01-11*

- UF annual energy storage
- BT1 storage
- NT1 cold storage
- NT1 compressed air energy storage
- NT1 flywheel energy storage
- NT1 heat storage
  - NT2 latent heat storage
  - NT2 seasonal thermal energy storage
  - NT2 sensible heat storage
  - NT2 thermochemical heat storage
- NT1 magnetic energy storage
  - NT2 superconducting magnetic energy storage
- NT1 off-peak energy storage
- NT1 photochemical energy storage
- NT1 pumped storage
- RT capacitive energy storage equipment
- RT capacitors
- RT dispersed storage and generation
- RT electric batteries
- RT energy storage systems
- RT flywheels
- RT hydraulic accumulators
- RT hydrogen storage
- RT mechanical energy storage equipment
- RT underground storage
- RT water reservoirs

**ENERGY STORAGE SYSTEMS**

*INIS: 1999-07-06; ETDE: 1976-08-04*

- BT1 energy systems
- NT1 electric batteries
  - NT2 lead-acid batteries
  - NT2 lithium ion batteries
  - NT2 metal-gas batteries
    - NT3 aluminium-air batteries
    - NT3 cadmium-air batteries
    - NT3 iron-air batteries
    - NT3 lithium-chlorine batteries
    - NT3 lithium-water-air batteries
    - NT3 nickel-hydrogen batteries
    - NT3 silver-hydrogen batteries
    - NT3 zinc-air batteries
    - NT3 zinc-chlorine batteries
- NT2 metal-metal batteries
- NT2 metal-metal oxide batteries
  - NT3 iron-nickel batteries
  - NT3 nickel-cadmium batteries
  - NT3 nickel-zinc batteries
  - NT3 silver-cadmium batteries
  - NT3 silver-zinc batteries
  - NT3 zinc-manganese batteries
- NT2 metal-nonmetal batteries
  - NT3 lithium-copper chloride batteries
  - NT3 lithium-polymer batteries
  - NT3 lithium-sulfur batteries
  - NT3 sodium-sulfur batteries
  - NT3 zinc-bromine batteries
- NT2 primary-secondary hybrid batteries
- NT2 redox flow batteries
- NT2 thermal batteries
- NT1 flywheels
- NT1 magnetic energy storage equipment
- NT1 thermal energy storage equipment
  - RT capacitive energy storage equipment
  - RT capacitors
  - RT compressed air energy storage equipment
  - RT energy storage
  - RT heat storage
  - RT mechanical energy storage equipment
  - RT regenerators
  - RT water reservoirs

**ENERGY SUBSTITUTION**

*INIS: 2000-04-12; ETDE: 1980-01-24*

*Substitution of other factors, e.g., labor, capital, or materials for energy in the economy.*

- RT economic elasticity
- RT energy substitution equivalent
- RT fuel substitution

**ENERGY SUBSTITUTION****EQUIVALENT**

*INIS: 2000-04-12; ETDE: 1978-06-14*

*The amount of fuel saved by the substitution of one fuel for another when the same energy product is generated by both fuels.*

- UF fuel substitution equivalent
- UF substitution equivalent
- RT energy efficiency
- RT energy sources
- RT energy substitution
- RT fuel substitution
- RT net energy

**ENERGY SUPPLIES**

*1991-10-21*

- UF contracting of energy services
- NT1 fuel supplies
  - RT energy conservation and production act
  - RT energy demand
  - RT energy management
  - RT energy shortages
  - RT energy sources
  - RT energy surpluses

- RT fuel substitution
- RT strategic petroleum reserve
- RT supply and demand
- RT supply disruption
- RT us emergency preparedness act
- RT us national energy plan
- RT us naval petroleum reserves

**ENERGY SURPLUSES**

*INIS: 2000-04-12; ETDE: 1980-08-25*

- RT energy demand
- RT energy shortages
- RT energy sources
- RT energy supplies
- RT fuel substitution

**ENERGY SYSTEMS**

*INIS: 1999-05-26; ETDE: 1993-08-10*

*Use only in generic sense; e.g., comparisons of several energy systems or theoretical studies when system is not denoted specifically.*

- NT1 binary-fluid systems
- NT1 cooling systems
  - NT2 closed-cycle cooling systems
  - NT2 condenser cooling systems
  - NT2 coolant loops
  - NT2 once-through cooling systems
  - NT2 open-cycle cooling systems
  - NT2 reactor cooling systems
    - NT3 direct cycle cooling systems
    - NT3 dual cycle cooling systems
    - NT3 integrated cooling systems
    - NT3 primary coolant circuits
      - NT4 coolant cleanup systems
    - NT3 rcic systems
    - NT3 rhr systems
    - NT3 secondary coolant circuits
    - NT3 shrouds
    - NT3 tertiary coolant circuits
  - NT2 thermonuclear reactor cooling systems
- NT1 energy management systems
- NT1 energy storage systems
  - NT2 electric batteries
    - NT3 lead-acid batteries
    - NT3 lithium ion batteries
    - NT3 metal-gas batteries
      - NT4 aluminium-air batteries
      - NT4 cadmium-air batteries
      - NT4 iron-air batteries
      - NT4 lithium-chlorine batteries
      - NT4 lithium-water-air batteries
      - NT4 nickel-hydrogen batteries
      - NT4 silver-hydrogen batteries
      - NT4 zinc-air batteries
      - NT4 zinc-chlorine batteries
  - NT3 metal-metal batteries
  - NT3 metal-metal oxide batteries
    - NT4 iron-nickel batteries
    - NT4 nickel-cadmium batteries
    - NT4 nickel-zinc batteries
    - NT4 silver-cadmium batteries
    - NT4 silver-zinc batteries
    - NT4 zinc-manganese batteries
  - NT3 metal-nonmetal batteries
    - NT4 lithium-copper chloride batteries
    - NT4 lithium-polymer batteries
    - NT4 lithium-sulfur batteries
    - NT4 sodium-sulfur batteries
    - NT4 zinc-bromine batteries
  - NT3 primary-secondary hybrid batteries
    - NT3 redox flow batteries
    - NT3 thermal batteries
  - NT2 flywheels
  - NT2 magnetic energy storage equipment
  - NT2 thermal energy storage equipment
    - NT1 geopressured systems

- NT1 heat distribution systems
- NT1 heating systems
  - NT2 geothermal heating systems
  - NT2 heating loops
  - NT2 solar heating systems
    - NT3 passive solar heating systems
      - NT4 bead walls
      - NT4 direct gain systems
      - NT4 drum walls
      - NT4 roof ponds
      - NT4 thermic diode solar panels
      - NT4 trombe walls
      - NT4 water walls
    - NT3 solar-assisted heat pumps
- NT1 hot-dry-rock systems
- NT1 hydrothermal systems
  - NT2 geothermal hot-water systems
  - NT2 vapor-dominated systems
- NT1 ices program
  - NT2 thermal transmission ices
- NT1 integrated energy utility systems
  - NT2 modular integrated utility systems
- NT1 lighting systems
- NT1 natural gas distribution systems
- NT1 power systems
  - NT2 ac systems
    - NT3 ehv ac systems
    - NT3 hvac systems
    - NT3 uhv ac systems
  - NT2 brayton cycle power systems
  - NT2 dc systems
    - NT3 ehv dc systems
    - NT3 hvdc systems
    - NT3 uhv dc systems
  - NT2 interconnected power systems
  - NT2 rankine cycle power systems
  - NT2 smart grids
  - NT2 solar-assisted power systems
- NT1 space hvac systems
- NT1 steam systems
  - NT2 flashed steam systems
- NT1 total energy systems
- NT1 total flow systems
  - RT cogeneration

**energy tax act**

*INIS: 2000-04-12; ETDE: 1980-05-06*

*(Prior to February 1992 this was a valid ETDE descriptor.)*

USE us energy tax act

**energy technology data exchange**

*INIS: 1993-11-08; ETDE: 1991-02-25*

USE etde

**ENERGY TRANSFER**

- UF energy exchange
- UF transfer (energy)
- NT1 heat transfer
  - NT2 convection
    - NT3 forced convection
    - NT3 natural convection
    - NT3 thermosyphon effect
  - NT2 heat gain
  - NT2 heat losses
  - NT2 radiant heat transfer
  - NT2 thermal conduction
- NT1 let
- NT1 radiationless decay
  - RT angular momentum transfer
  - RT energy balance
  - RT energy conversion
  - RT energy yield
  - RT internal waves
  - RT linear momentum transfer
  - RT mass transfer

**energy transmission**

*2000-03-27*

SEE power transmission

**energy transport**

2000-04-12

(Prior to December 1991 this was a valid ETDE descriptor.)

- SEE natural gas distribution systems
- SEE pipelines
- SEE power transmission

**ENERGY YIELD**

1975-11-27

- RT efficiency
- RT energy spectra
- RT energy transfer
- RT net energy

**enewetak**

INIS: 1977-09-06; ETDE: 1979-07-24

- USE eniwetok

**ENFORCEMENT**

INIS: 1978-11-24; ETDE: 1976-11-01

- RT administrative procedures
- RT compliance
- RT implementation
- RT laws
- RT legal aspects
- RT pollution control agencies
- RT pollution regulations
- RT regulations
- RT us superfund
- RT violations

**ENGINEERED SAFETY SYSTEMS**

1992-07-13

- NT1 air cleaning systems
- NT1 containment systems
- NT2 containment spray systems
- NT1 reactor protection systems
- NT2 eccs
- NT3 core flooding systems
- NT3 core spray systems
- NT3 high pressure coolant injection
- NT3 low pressure coolant injection
- NT2 reactor core restraints
- NT1 ventilation barriers
- RT safety
- RT safety engineering
- RT safety margins

**ENGINEERING**

- NT1 chemical engineering
- NT1 civil engineering
- NT1 electrical engineering
- NT1 environmental engineering
- NT1 human factors engineering
- NT1 mechanical engineering
- NT1 mining engineering
- NT1 nuclear engineering
- NT1 reservoir engineering
- NT1 safety engineering
- RT engineering geology

**ENGINEERING DRAWINGS**

INIS: 1992-03-17; ETDE: 1982-10-20

- \*BT1 diagrams
- RT design
- RT specifications

**ENGINEERING GEOLOGY**

INIS: 1992-09-01; ETDE: 1977-03-08

*Geology as applied to engineering practice, especially in mining and civil engineering.*

- UF geologic engineering
- BT1 geology
- RT engineering
- RT soil-structure interactions

**engineering personnel**

INIS: 2000-04-12; ETDE: 1982-02-08

(Prior to August 1992 this was a valid ETDE descriptor.)

- USE engineers

**engineering test facility (tokamak)**

INIS: 1993-11-08; ETDE: 1979-12-17

- USE etf tokamak

**engineering test reactor**

- USE etr reactor

**engineering test reactor critical facility**

2000-04-12

- USE etrc reactor

**ENGINEERS**

INIS: 1992-08-18; ETDE: 1980-01-15

- UF engineering personnel
- SF professional personnel
- BT1 personnel
- RT construction industry

**ENGINES**

1992-01-15

*Machines in which work is done by the conversion of energy into mechanical force and motion.*

- NT1 heat engines
- NT2 internal combustion engines
- NT3 diesel engines
- NT3 direct injection engines
- NT3 dual-fuel engines
- NT3 gas turbine engines
- NT3 ramjet engines
- NT3 rotary engines
- NT4 wankel engines
- NT3 spark ignition engines
- NT4 wankel engines
- NT3 stratified charge engines
- NT3 turbofan engines
- NT3 turbojet engines
- NT2 nitinol heat engines
- NT2 rankine cycle engines
- NT2 rocket engines
- NT2 solar heat engines
- NT2 stirling engines
- NT1 motors
- NT2 electric motors
- NT3 superconducting motors
- NT2 pneumatic motors
- RT combustion chambers
- RT federal test procedure
- RT fuel injection systems

**england**

- USE united kingdom

**ENHANCED RADIATION WEAPONS**

INIS: 2000-04-12; ETDE: 1981-03-16

- UF neutron bombs
- \*BT1 nuclear weapons
- RT radiological warfare

**ENHANCED RECOVERY**

INIS: 1991-10-22; ETDE: 1976-02-19

- UF secondary recovery
- UF solfrac process
- UF tertiary recovery
- SF eor
- SF recovery
- NT1 microbial eor
- NT1 thermal recovery
- RT acidization
- RT carbon dioxide injection
- RT caustic flooding
- RT directional drilling
- RT displacement fluids
- RT explosive stimulation

- RT fluid injection
- RT fluid injection processes
- RT microemulsion flooding
- RT miscible-phase displacement
- RT sweep efficiency
- RT well stimulation

**enhanced recovery (biological)**

INIS: 1991-10-22; ETDE: 1992-01-09

- USE biological recovery

**ENIWETOK**

1996-01-24

- UF enewetak
- \*BT1 marshall islands
- RT greenhouse project
- RT hardtack project

**ENKEPHALINS**

INIS: 1978-11-24; ETDE: 1978-07-05

*Naturally occurring (brain and pituitary gland) opiate-like materials composed of a mixture of two pentapeptides.*

- \*BT1 endorphins
- RT narcotics

**ENOLS**

- \*BT1 alcohols
- RT ketones

**enriched materials (isotopes)**

- USE isotope enriched materials

**enriched materials (ores)**

- USE ore concentrates

**ENRICHED URANIUM**

- \*BT1 isotope enriched materials
- \*BT1 uranium
- NT1 highly enriched uranium
- NT1 moderately enriched uranium
- NT1 slightly enriched uranium
- RT enriched uranium reactors

**ENRICHED URANIUM REACTORS**

1998-01-29

*Reactors fuelled primarily with enriched uranium.*

- UF br-3-vn reactor
- UF in-core thermionic reactor
- UF itr reactor
- SF 710 reactor
- BT1 reactors
- NT1 ill high flux reactor
- NT1 acpr reactor
- NT1 aerojet-general nucleonics reactors
- NT2 agn 201 costanza
- NT1 afsr reactor
- NT1 agr type reactors
- NT2 connah quay-b reactor
- NT2 dungeness-b reactor
- NT2 hartlepool reactor
- NT2 heysham-a reactor
- NT2 heysham-b reactor
- NT2 hinkley point-b reactor
- NT2 hunterston-b reactor
- NT2 torness reactor
- NT2 wagr reactor
- NT1 ai-1-77 reactor
- NT1 akr-1 reactor
- NT1 alrr reactor
- NT1 anex reactor
- NT1 anna reactor
- NT1 aps reactor
- NT1 apsara reactor
- NT1 arbus reactor
- NT1 argonaut type reactors
- NT2 aeg-pr-10 reactor
- NT2 arbi reactor
- NT2 argonaut reactor
- NT2 argos reactor

NT2	athene reactor	NT2	enrico fermi-2 reactor	NT2	okg-3 reactor
NT2	jason reactor	NT2	err reactor	NT2	olkiluoto-1 reactor
NT2	lfr reactor	NT2	fitzpatrick reactor	NT2	olkiluoto-2 reactor
NT2	moata reactor	NT2	forsmark-1 reactor	NT2	onagawa-1 reactor
NT2	nestor reactor	NT2	forsmark-2 reactor	NT2	onagawa-2 reactor
NT2	queen mary college utr-b reactor	NT2	forsmark-3 reactor	NT2	onagawa-3 reactor
NT2	ra-1 reactor	NT2	fukushima-1 reactor	NT2	oyster creek-1 reactor
NT2	rb-2 reactor	NT2	fukushima-2 reactor	NT2	pathfinder reactor
NT2	rien-1 reactor	NT2	fukushima-3 reactor	NT2	peach bottom-2 reactor
NT2	srrc-utr-100 reactor	NT2	fukushima-4 reactor	NT2	peach bottom-3 reactor
NT2	stark reactor	NT2	fukushima-5 reactor	NT2	perry-1 reactor
NT2	strasbourg-cronenbourg reactor	NT2	fukushima-6 reactor	NT2	perry-2 reactor
NT2	ufr reactor	NT2	fukushima-ii-1 reactor	NT2	philippsburg-1 reactor
NT2	ulysses reactor	NT2	fukushima-ii-2 reactor	NT2	phippis bend-1 reactor
NT2	urr reactor	NT2	fukushima-ii-3 reactor	NT2	phippis bend-2 reactor
NT2	utr-10-kinki reactor	NT2	fukushima-ii-4 reactor	NT2	pilgrim-1 reactor
NT2	vpi-utr-10 reactor	NT2	garigliano reactor	NT2	quad cities-1 reactor
NT1	argus reactor	NT2	garona reactor	NT2	quad cities-2 reactor
NT1	armf-1 reactor	NT2	ge standard reactor	NT2	ringhals-1 reactor
NT1	astra reactor	NT2	graben-1 reactor	NT2	river bend-1 reactor
NT1	atr reactor	NT2	graben-2 reactor	NT2	river bend-2 reactor
NT1	atrc reactor	NT2	grand gulf-1 reactor	NT2	rwe-bayernwerk reactor
NT1	avogadro rs-1 reactor	NT2	grand gulf-2 reactor	NT2	shika-1 reactor
NT1	avr reactor	NT2	gundremmingen-2 reactor	NT2	shika-2 reactor
NT1	bawtr reactor	NT2	gundremmingen-3 reactor	NT2	shimane-1 reactor
NT1	beloyarsk-1 reactor	NT2	hamaoka-1 reactor	NT2	shimane-2 reactor
NT1	beloyarsk-2 reactor	NT2	hamaoka-2 reactor	NT2	shimane-3 reactor
NT1	bgr reactor	NT2	hamaoka-3 reactor	NT2	shoreham reactor
NT1	bigr reactor	NT2	hamaoka-4 reactor	NT2	skagit-1 reactor
NT1	bir reactor	NT2	hamaoka-5 reactor	NT2	skagit-2 reactor
NT1	bor-60 reactor	NT2	hartsville-1 reactor	NT2	sl-1 reactor
NT1	borax-1 reactor	NT2	hartsville-2 reactor	NT2	susquehanna-1 reactor
NT1	borax-2 reactor	NT2	hartsville-3 reactor	NT2	susquehanna-2 reactor
NT1	borax-3 reactor	NT2	hartsville-4 reactor	NT2	tarapur-1 reactor
NT1	borax-4 reactor	NT2	hatch-1 reactor	NT2	tarapur-2 reactor
NT1	borax-5 reactor	NT2	hatch-2 reactor	NT2	tokai-2 reactor
NT1	br-02 reactor	NT2	hdr reactor	NT2	tsuruga reactor
NT1	br-2 reactor	NT2	higashidori-1 reactor	NT2	tullnerfeld reactor
NT1	brr reactor	NT2	hope creek-1 reactor	NT2	vak reactor
NT1	bsr-1 reactor	NT2	hope creek-2 reactor	NT2	vbwr reactor
NT1	bsr-2 reactor	NT2	humboldt bay reactor	NT2	vermont yankee reactor
NT1	bwr type reactors	NT2	isar reactor	NT2	verplanck-1 reactor
NT2	allens creek-1 reactor	NT2	jpdr-2 reactor	NT2	verplanck-2 reactor
NT2	allens creek-2 reactor	NT2	jpdr reactor	NT2	vk-50 reactor
NT2	bailly-1 reactor	NT2	kaiseraugst reactor	NT2	wnp-2 reactor
NT2	barsebaeck-1 reactor	NT2	kashiwazaki-kariwa-1 reactor	NT2	wuergassen reactor
NT2	barsebaeck-2 reactor	NT2	kashiwazaki-kariwa-2 reactor	NT2	zimmer-1 reactor
NT2	barton-1 reactor	NT2	kashiwazaki-kariwa-3 reactor	NT2	zimmer-2 reactor
NT2	barton-2 reactor	NT2	kashiwazaki-kariwa-4 reactor	NT1	byu 1-77 reactor
NT2	barton-3 reactor	NT2	kashiwazaki-kariwa-5 reactor	NT1	cabri reactor
NT2	barton-4 reactor	NT2	kashiwazaki-kariwa-6 reactor	NT1	cesnef reactor
NT2	bell reactor	NT2	kashiwazaki-kariwa-7 reactor	NT1	chernobylsk-1 reactor
NT2	big rock point reactor	NT2	krummel reactor	NT1	chernobylsk-2 reactor
NT2	black fox-1 reactor	NT2	kuosheng-1 reactor	NT1	chernobylsk-3 reactor
NT2	black fox-2 reactor	NT2	kuosheng-2 reactor	NT1	chernobylsk-4 reactor
NT2	bolsa chica-1 reactor	NT2	la salle county-1 reactor	NT1	consort-2 reactor
NT2	bolsa chica-2 reactor	NT2	la salle county-2 reactor	NT1	coral-1 reactor
NT2	bonus reactor	NT2	lacbwr reactor	NT1	cp-3m reactor
NT2	browns ferry-1 reactor	NT2	laguna verde-1 reactor	NT1	cp-5 reactor
NT2	browns ferry-2 reactor	NT2	laguna verde-2 reactor	NT1	cvtr reactor
NT2	browns ferry-3 reactor	NT2	leibstadt reactor	NT1	democritus reactor
NT2	brunbuettel reactor	NT2	limerick-1 reactor	NT1	dfr reactor
NT2	brunswick-1 reactor	NT2	limerick-2 reactor	NT1	dido reactor
NT2	brunswick-2 reactor	NT2	lingen reactor	NT1	dmtr reactor
NT2	chinshan-1 reactor	NT2	lungmen-1 reactor	NT1	dr-1 reactor
NT2	chinshan-2 reactor	NT2	lungmen-2 reactor	NT1	dr-2 reactor
NT2	clinton-1 reactor	NT2	mendocino-1 reactor	NT1	dr-3 reactor
NT2	clinton-2 reactor	NT2	mendocino-2 reactor	NT1	dragon reactor
NT2	cofrentes reactor	NT2	millstone-1 reactor	NT1	ebor reactor
NT2	cooper reactor	NT2	montague-1 reactor	NT1	egcr reactor
NT2	dodewaard reactor	NT2	montague-2 reactor	NT1	el-3 reactor
NT2	douglas point-1 reactor	NT2	montalto di castro-1 reactor	NT1	el-4 reactor
NT2	douglas point-2 reactor	NT2	montalto di castro-2 reactor	NT1	enrico fermi-1 reactor
NT2	dresden-1 reactor	NT2	monticello reactor	NT1	entc lwsr reactor
NT2	dresden-2 reactor	NT2	muehleberg reactor	NT1	eocr reactor
NT2	dresden-3 reactor	NT2	nine mile point-1 reactor	NT1	es-salam reactor
NT2	duane arnold-1 reactor	NT2	nine mile point-2 reactor	NT1	esada-vesr reactor
NT2	ebwr reactor	NT2	okg-1 reactor	NT1	essor reactor
NT2	enel-4 reactor	NT2	okg-2 reactor	NT1	etr reactor

NT1	etrc reactor	NT1	leningrad-2 reactor	NT2	arkansas-2 reactor
NT1	etrr-2 reactor	NT1	leningrad-3 reactor	NT2	asco-1 reactor
NT1	evsr reactor	NT1	leningrad-4 reactor	NT2	asco-2 reactor
NT1	ewg-1 reactor	NT1	lido reactor	NT2	atlantic-1 reactor
NT1	fmrbr reactor	NT1	litr reactor	NT2	atlantic-2 reactor
NT1	fnr reactor	NT1	lpr reactor	NT2	basf-1 reactor
NT1	fr-0 reactor	NT1	lprr reactor	NT2	basf-2 reactor
NT1	frf reactor	NT1	lucens reactor	NT2	beaver valley-1 reactor
NT1	frg-1 reactor	NT1	maple reactor	NT2	beaver valley-2 reactor
NT1	frg-2 reactor	NT1	maple type reactors	NT2	bellefonte-1 reactor
NT1	frj-1 reactor	NT1	maria reactor	NT2	bellefonte-2 reactor
NT1	frj-2 reactor	NT1	marviken reactor	NT2	belleville-1 reactor
NT1	frm-ii reactor	NT1	maryla reactor	NT2	belleville-2 reactor
NT1	frm reactor	NT1	masurca reactor	NT2	beznau-1 reactor
NT1	fulton-1 reactor	NT1	melusine-1 reactor	NT2	beznau-2 reactor
NT1	fulton-2 reactor	NT1	merlin reactor	NT2	biblis-1 reactor
NT1	ga siwabessy reactor	NT1	minerve reactor	NT2	biblis-2 reactor
NT1	ga standard reactor	NT1	mitr reactor	NT2	biblis-3 reactor
NT1	getr reactor	NT1	ml-1 reactor	NT2	biblis-4 reactor
NT1	giacint reactor	NT1	mnr reactor	NT2	blayais-1 reactor
NT1	gidra reactor	NT1	mnsr type reactors	NT2	blayais-2 reactor
NT1	gtrr reactor	NT2	entc mnsr reactor	NT2	blayais-3 reactor
NT1	hanaro reactor	NT2	gharr-1 reactor	NT2	blayais-4 reactor
NT1	harmonie reactor	NT2	mnsr-ciae reactor	NT2	blue hills-1 reactor
NT1	hbwr reactor	NT2	mnsr-sd reactor	NT2	blue hills-2 reactor
NT1	hector reactor	NT2	mnsr-sh reactor	NT2	borssele reactor
NT1	herald reactor	NT2	mnsr-sz reactor	NT2	br-3 reactor
NT1	hero reactor	NT2	nirr-1 reactor	NT2	braidwood-1 reactor
NT1	hfb reactor	NT2	parr-2 reactor	NT2	braidwood-2 reactor
NT1	hfetr reactor	NT2	srr-1 reactor	NT2	brokdorf reactor
NT1	hfir reactor	NT1	mrr reactor	NT2	bugey-2 reactor
NT1	hfr reactor	NT1	msre reactor	NT2	bugey-3 reactor
NT1	hifar reactor	NT1	mtr reactor	NT2	bugey-4 reactor
NT1	hnpf reactor	NT1	murr reactor	NT2	bugey-5 reactor
NT1	hor reactor	NT1	n-reactor	NT2	bw standard reactor
NT1	horace reactor	NT1	ncscr-1 reactor	NT2	byron-1 reactor
NT1	hpr reactor	NT1	nevada university reactor	NT2	byron-2 reactor
NT1	hre-2 reactor	NT1	nhr-5 reactor	NT2	calhoun-1 reactor
NT1	htlrr reactor	NT1	niederaichbach reactor	NT2	calhoun-2 reactor
NT1	htr-10 reactor	NT1	nsrr reactor	NT2	callaway-1 reactor
NT1	htr reactor	NT1	ntr reactor	NT2	callaway-2 reactor
NT1	httr reactor	NT1	nuclear furnace reactor	NT2	calvert cliffs-1 reactor
NT1	hwctr reactor	NT1	nur reactor	NT2	calvert cliffs-2 reactor
NT1	ian-r1 reactor	NT1	oldbury-b reactor	NT2	carem 25 reactor
NT1	iear-1 reactor	NT1	omre reactor	NT2	catawba-1 reactor
NT1	ignalina-1 reactor	NT1	opal reactor	NT2	catawba-2 reactor
NT1	ignalina-2 reactor	NT1	orr reactor	NT2	cattenom-1 reactor
NT1	igr reactor	NT1	osiris reactor	NT2	cattenom-2 reactor
NT1	irl reactor	NT1	owr reactor	NT2	cattenom-3 reactor
NT1	irr-1 reactor	NT1	parr-1 reactor	NT2	cattenom-4 reactor
NT1	irt-2000 djakarta reactor	NT1	pbr reactor	NT2	ce standard reactor
NT1	irt-2000 moscow reactor	NT1	pctr reactor	NT2	changjiang-1 reactor
NT1	irt-c reactor	NT1	peach bottom-1 reactor	NT2	changjiang-2 reactor
NT1	irt-f reactor	NT1	pegase reactor	NT2	chasnupp-1 reactor
NT1	irt reactor	NT1	peggy reactor	NT2	chasnupp-2 reactor
NT1	irt-sofia reactor	NT1	pelinduna reactor	NT2	chasnupp-3 reactor
NT1	isis reactor	NT1	perryman-1 reactor	NT2	cherokee-1 reactor
NT1	ispra-1 reactor	NT1	perryman-2 reactor	NT2	cherokee-2 reactor
NT1	ivv-2m reactor	NT1	phebus reactor	NT2	cherokee-3 reactor
NT1	janus reactor	NT1	phenix reactor	NT2	chinon-b1 reactor
NT1	jeep-2 reactor	NT1	pik physical model reactor	NT2	chinon-b2 reactor
NT1	jen-1 reactor	NT1	pik reactor	NT2	chinon-b3 reactor
NT1	jen reactor	NT1	pluto reactor	NT2	chinon-b4 reactor
NT1	jmt reactor	NT1	pnpf reactor	NT2	chooz-a reactor
NT1	jrr-1 reactor	NT1	prnc-1-77 reactor	NT2	chooz-b1 reactor
NT1	jrr-2 reactor	NT1	proteus reactor	NT2	chooz-b2 reactor
NT1	jrr-3m reactor	NT1	pr-1 reactor	NT2	civaux-1 reactor
NT1	jrr-4 reactor	NT1	pr reactor	NT2	civaux-2 reactor
NT1	jules horowitz reactor	NT1	ptr reactor	NT2	comanche peak-1 reactor
NT1	knk-2 reactor	NT1	pulstar-buffalo reactor	NT2	comanche peak-2 reactor
NT1	knk reactor	NT1	pur-1 reactor	NT2	connecticut yankee reactor
NT1	kuca reactor	NT1	pwr type reactors	NT2	cook-1 reactor
NT1	kuhfr reactor	NT2	aguirre reactor	NT2	cook-2 reactor
NT1	kur reactor	NT2	almaraz-1 reactor	NT2	cruas-1 reactor
NT1	kursk-1 reactor	NT2	almaraz-2 reactor	NT2	cruas-2 reactor
NT1	kursk-2 reactor	NT2	angra-1 reactor	NT2	cruas-3 reactor
NT1	kursk-3 reactor	NT2	angra-2 reactor	NT2	cruas-4 reactor
NT1	kursk-4 reactor	NT2	angra-3 reactor	NT2	crystal river-3 reactor
NT1	leningrad-1 reactor	NT2	arkansas-1 reactor	NT2	crystal river-4 reactor

NT2	dampierre-1 reactor	NT2	indian point-2 reactor	NT2	paluel-2 reactor
NT2	dampierre-2 reactor	NT2	indian point-3 reactor	NT2	paluel-3 reactor
NT2	dampierre-3 reactor	NT2	iran-1 reactor	NT2	paluel-4 reactor
NT2	dampierre-4 reactor	NT2	iran-2 reactor	NT2	pat reactor
NT2	davis besse-1 reactor	NT2	isar-2 reactor	NT2	pebble springs-1 reactor
NT2	davis besse-2 reactor	NT2	jamesport-1 reactor	NT2	pebble springs-2 reactor
NT2	davis besse-3 reactor	NT2	jamesport-2 reactor	NT2	penly-1 reactor
NT2	daya bay-1 reactor	NT2	kewaunee reactor	NT2	penly-2 reactor
NT2	daya bay-2 reactor	NT2	koeberg-1 reactor	NT2	penly-3 reactor
NT2	diablo canyon-1 reactor	NT2	koeberg-2 reactor	NT2	perkins-1 reactor
NT2	diablo canyon-2 reactor	NT2	kori-1 reactor	NT2	perkins-2 reactor
NT2	doel-1 reactor	NT2	kori-2 reactor	NT2	perkins-3 reactor
NT2	doel-2 reactor	NT2	kori-3 reactor	NT2	philippsburg-2 reactor
NT2	doel-3 reactor	NT2	kori-4 reactor	NT2	pilgrim-2 reactor
NT2	doel-4 reactor	NT2	krsko reactor	NT2	pilgrim-3 reactor
NT2	efdr-50 reactor	NT2	lemoniz-1 reactor	NT2	pm-2a reactor
NT2	emsland reactor	NT2	lemoniz-2 reactor	NT2	pm-3a reactor
NT2	erie-1 reactor	NT2	lenin reactor	NT2	pnp-1 reactor
NT2	erie-2 reactor	NT2	leonid brezhnev reactor	NT2	point beach-1 reactor
NT2	fangchenggang-1 reactor	NT2	lingao-1 reactor	NT2	point beach-2 reactor
NT2	fangchenggang-2 reactor	NT2	lingao-2 reactor	NT2	prairie island-1 reactor
NT2	fangjiashan-1 reactor	NT2	lingao-3 reactor	NT2	prairie island-2 reactor
NT2	fangjiashan-2 reactor	NT2	lingao-4 reactor	NT2	qinshan-1 reactor
NT2	farley-1 reactor	NT2	loft reactor	NT2	qinshan-2-1 reactor
NT2	farley-2 reactor	NT2	lucie-1 reactor	NT2	qinshan-2-2 reactor
NT2	fessenheim-1 reactor	NT2	lucie-2 reactor	NT2	qinshan-2-3 reactor
NT2	fessenheim-2 reactor	NT2	maanshan-1 reactor	NT2	qinshan-2-4 reactor
NT2	flamanville-1 reactor	NT2	maanshan-2 reactor	NT2	quanicassee-1 reactor
NT2	flamanville-2 reactor	NT2	maine yankee reactor	NT2	quanicassee-2 reactor
NT2	flamanville-3 reactor	NT2	malibu-1 reactor	NT2	rancho seco-1 reactor
NT2	forked river-1 reactor	NT2	marble hill-1 reactor	NT2	remerschen reactor
NT2	fuqing-1 reactor	NT2	marble hill-2 reactor	NT2	rheinsberg akw1 reactor
NT2	fuqing-2 reactor	NT2	mc guire-1 reactor	NT2	ringhals-2 reactor
NT2	fuqing-3 reactor	NT2	mc guire-2 reactor	NT2	ringhals-3 reactor
NT2	fuqing-4 reactor	NT2	mh-1a reactor	NT2	ringhals-4 reactor
NT2	fuqing-5 reactor	NT2	midland-1 reactor	NT2	robinson-2 reactor
NT2	fuqing-6 reactor	NT2	midland-2 reactor	NT2	rooppur reactor
NT2	genkai-1 reactor	NT2	mihama-1 reactor	NT2	rowe yankee reactor
NT2	genkai-2 reactor	NT2	mihama-2 reactor	NT2	s1c prototype reactor
NT2	genkai-3 reactor	NT2	mihama-3 reactor	NT2	saint alban-1 reactor
NT2	genkai-4 reactor	NT2	millstone-2 reactor	NT2	saint alban-2 reactor
NT2	ginna-1 reactor	NT2	millstone-3 reactor	NT2	saint laurent-b1 reactor
NT2	goesgen reactor	NT2	muelheim-kaerlich reactor	NT2	saint laurent-b2 reactor
NT2	golfech-1 reactor	NT2	mutsu reactor	NT2	salem-1 reactor
NT2	golfech-2 reactor	NT2	neckar-1 reactor	NT2	salem-2 reactor
NT2	grafenrheinfeld reactor	NT2	neckar-2 reactor	NT2	san onofre-1 reactor
NT2	gravelines-1 reactor	NT2	nep-1 reactor	NT2	san onofre-2 reactor
NT2	gravelines-2 reactor	NT2	nep-2 reactor	NT2	san onofre-3 reactor
NT2	gravelines-3 reactor	NT2	neupotz-1 reactor	NT2	savannah reactor
NT2	gravelines-4 reactor	NT2	neupotz-2 reactor	NT2	saxton reactor
NT2	gravelines-5 reactor	NT2	ningde-1 reactor	NT2	seabrook-1 reactor
NT2	gravelines-6 reactor	NT2	ningde-2 reactor	NT2	seabrook-2 reactor
NT2	greene county reactor	NT2	ningde-3 reactor	NT2	selni reactor
NT2	greenwood-2 reactor	NT2	ningde-4 reactor	NT2	sendai-1 reactor
NT2	greenwood-3 reactor	NT2	nogent-1 reactor	NT2	sendai-2 reactor
NT2	grohnde reactor	NT2	nogent-2 reactor	NT2	sequoyah-1 reactor
NT2	hamm-uentrop reactor	NT2	north anna-1 reactor	NT2	sequoyah-2 reactor
NT2	hanbit-1 reactor	NT2	north anna-2 reactor	NT2	shin-kori-1 reactor
NT2	hanbit-2 reactor	NT2	north anna-3 reactor	NT2	shin-kori-2 reactor
NT2	hanbit-3 reactor	NT2	north anna-4 reactor	NT2	shin-kori-3 reactor
NT2	hanbit-4 reactor	NT2	north coast-1 reactor	NT2	shin-wolsong-1 reactor
NT2	hanbit-5 reactor	NT2	obrigheim reactor	NT2	shippingport reactor
NT2	hanbit-6 reactor	NT2	oconee-1 reactor	NT2	sizewell-b reactor
NT2	harris-1 reactor	NT2	oconee-2 reactor	NT2	sm-1 reactor
NT2	harris-2 reactor	NT2	oconee-3 reactor	NT2	sm-1a reactor
NT2	harris-3 reactor	NT2	oi-1 reactor	NT2	south texas project-1 reactor
NT2	harris-4 reactor	NT2	oi-2 reactor	NT2	south texas project-2 reactor
NT2	haven-1 reactor	NT2	oi-3 reactor	NT2	stade reactor
NT3	koshkonong-1 reactor	NT2	oi-4 reactor	NT2	sterling-1 reactor
NT2	haven-2 reactor	NT2	oktemberyan-2 reactor	NT2	sterling-2 reactor
NT3	koshkonong-2 reactor	NT2	olkiluoto-3 reactor	NT2	summer-1 reactor
NT2	hongyanhe-1 reactor	NT2	otto hahn reactor	NT2	sundesert-1 reactor
NT2	hongyanhe-2 reactor	NT2	palisades-1 reactor	NT2	sundesert-2 reactor
NT2	hongyanhe-3 reactor	NT2	palo verde-1 reactor	NT2	surry-1 reactor
NT2	hongyanhe-4 reactor	NT2	palo verde-2 reactor	NT2	surry-2 reactor
NT2	ikata-2 reactor	NT2	palo verde-3 reactor	NT2	surry-3 reactor
NT2	ikata-3 reactor	NT2	palo verde-4 reactor	NT2	surry-4 reactor
NT2	ikata reactor	NT2	palo verde-5 reactor	NT2	takahama-1 reactor
NT2	indian point-1 reactor	NT2	paluel-1 reactor	NT2	takahama-2 reactor

NT2	takahama-3 reactor	NT3	kola-1 reactor	NT1	ser reactor
NT2	takahama-4 reactor	NT3	kola-2 reactor	NT1	sghwr reactor
NT2	three mile island-1 reactor	NT3	kola-3 reactor	NT1	shea reactor
NT2	three mile island-2 reactor	NT3	kola-4 reactor	NT1	silene reactor
NT2	tihange-2 reactor	NT3	kozloduy-1 reactor	NT1	siloe reactor
NT2	tihange-3 reactor	NT3	kozloduy-2 reactor	NT1	siloette reactor
NT2	tihange reactor	NT3	kozloduy-3 reactor	NT1	slowpoke type reactors
NT2	tomari-1 reactor	NT3	kozloduy-4 reactor	NT2	slowpoke-alberta reactor
NT2	tomari-2 reactor	NT3	kozloduy-5 reactor	NT2	slowpoke-dalhousie reactor
NT2	tomari-3 reactor	NT3	kozloduy-6 reactor	NT2	slowpoke-mona reactor
NT2	tricastin-1 reactor	NT3	kudankulam-1 reactor	NT2	slowpoke-montreal reactor
NT2	tricastin-2 reactor	NT3	kudankulam-2 reactor	NT2	slowpoke-ottawa reactor
NT2	tricastin-3 reactor	NT3	loviisa-1 reactor	NT2	slowpoke rmc reactor
NT2	tricastin-4 reactor	NT3	loviisa-2 reactor	NT2	slowpoke src reactor
NT2	trillo-1 reactor	NT3	mochovce-1 reactor	NT2	slowpoke-toronto reactor
NT2	trojan reactor	NT3	mochovce-2 reactor	NT2	slowpoke-wmre reactor
NT2	tsuruga-2 reactor	NT3	novovoronezh-1 reactor	NT1	smolensk-1 reactor
NT2	turkey point-3 reactor	NT3	novovoronezh-2 reactor	NT1	smolensk-2 reactor
NT2	turkey point-4 reactor	NT3	novovoronezh-3 reactor	NT1	smolensk-3 reactor
NT2	tva-1 reactor	NT3	novovoronezh-4 reactor	NT1	snap 10 reactor
NT2	tva-2 reactor	NT3	novovoronezh-5 reactor	NT2	s10fs-1 reactor
NT2	tyrone-1 reactor	NT3	paks-1 reactor	NT2	s10fs-3 reactor
NT2	tyrone-2 reactor	NT3	paks-2 reactor	NT2	s10fs-4 reactor
NT2	ulchin-1 reactor	NT3	paks-3 reactor	NT1	snap 2 reactor
NT2	ulchin-2 reactor	NT3	paks-4 reactor	NT2	s2ds reactor
NT2	ulchin-3 reactor	NT3	rostov-1 reactor	NT1	snap 50 reactor
NT2	ulchin-4 reactor	NT3	rostov-2 reactor	NT1	snap 8 reactor
NT2	ulchin-5 reactor	NT3	rostov-3 reactor	NT2	s8dr reactor
NT2	ulchin-6 reactor	NT3	rovno-1 reactor	NT2	s8er reactor
NT2	unterweser reactor	NT3	rovno-2 reactor	NT1	snap-tsf reactor
NT2	vahnum-1 reactor	NT3	rovno-3 reactor	NT1	snaptan reactors
NT2	vahnum-2 reactor	NT3	rovno-4 reactor	NT1	spert-1 reactor
NT2	vandellos-2 reactor	NT3	rovno-5 reactor	NT1	spert-2 reactor
NT2	vogtle-1 reactor	NT3	south ukrainian-1 reactor	NT1	spert-3 reactor
NT2	vogtle-2 reactor	NT3	south ukrainian-2 reactor	NT1	spert-4 reactor
NT2	vogtle-3 reactor	NT3	south ukrainian-3 reactor	NT1	sr-1 reactor
NT2	vogtle-4 reactor	NT3	stendal-1 reactor	NT1	sr-0a reactor
NT2	waterford-3 reactor	NT3	tatarian reactor	NT1	sre reactor
NT2	waterford-4 reactor	NT3	temelin-1 reactor	NT1	stacy reactor
NT2	watts bar-1 reactor	NT3	temelin-2 reactor	NT1	stek reactor
NT2	watts bar-2 reactor	NT3	tianwan-1 reactor	NT1	stir reactor
NT2	westinghouse standard reactor	NT3	tianwan-2 reactor	NT1	summit-1 reactor
NT2	wnp-1 reactor	NT3	zaporozhe-1 reactor	NT1	summit-2 reactor
NT2	wnp-3 reactor	NT3	zaporozhe-2 reactor	NT1	superphenix reactor
NT2	wnp-4 reactor	NT3	zaporozhe-3 reactor	NT1	supo reactor
NT2	wnp-5 reactor	NT3	zaporozhe-4 reactor	NT1	sur-100 series reactor
NT2	wolf creek-1 reactor	NT3	zaporozhe-5 reactor	NT1	tca reactor
NT2	wup-3 reactor	NT3	zaporozhe-6 reactor	NT1	thetis reactor
NT2	wup-4 reactor	NT2	wyhl-1 reactor	NT1	thor reactor
NT2	wup-5 reactor	NT2	wyhl-2 reactor	NT1	thtr-300 reactor
NT2	wup-6 reactor	NT2	yangjiang-1 reactor	NT1	tibr reactor
NT2	wwer type reactors	NT2	yangjiang-2 reactor	NT1	toshiba reactor
NT3	armenian-1 reactor	NT2	yangjiang-3 reactor	NT1	tr-1 reactor
NT3	armenian-2 reactor	NT2	yangjiang-4 reactor	NT1	tr-2 reactor
NT3	balakovo-1 reactor	NT2	yellow creek-1 reactor	NT1	tracy reactor
NT3	balakovo-2 reactor	NT2	yellow creek-2 reactor	NT1	treat reactor
NT3	balakovo-3 reactor	NT2	zion-1 reactor	NT1	triga type reactors
NT3	balakovo-4 reactor	NT2	zion-2 reactor	NT2	afri reactor
NT3	blahutovice-1 reactor	NT2	zorita-1 reactor	NT2	atpr reactor
NT3	bohunice v-1 reactor	NT1	r-2 reactor	NT2	colorado triga-mk-3 reactor
NT3	bohunice v-2 reactor	NT1	r-a reactor	NT2	cornell triga-mk-2 reactor
NT3	dukovany-1 reactor	NT1	r2-0 reactor	NT2	dow triga-mk-1 reactor
NT3	dukovany-2 reactor	NT1	ra-5 reactor	NT2	fir-1 reactor
NT3	dukovany-3 reactor	NT1	ra-6 reactor	NT2	frf-2 reactor
NT3	dukovany-4 reactor	NT1	ra-8 reactor	NT2	fn reactor
NT3	greifswald-1 reactor	NT1	rana reactor	NT2	gulf triga-mk-3 reactor
NT3	greifswald-2 reactor	NT1	rapsodie reactor	NT2	kartini-ppny reactor
NT3	greifswald-3 reactor	NT1	rb-1 reactor	NT2	lopra reactor
NT3	greifswald-4 reactor	NT1	rg-1m reactor	NT2	nscr reactor
NT3	greifswald-5 reactor	NT1	ritmo reactor	NT2	ostr reactor
NT3	greifswald-6 reactor	NT1	rmb reactor	NT2	prpr reactor
NT3	juragua-1 reactor	NT1	rospo reactor	NT2	psbr reactor
NT3	kalinin-1 reactor	NT1	rpt reactor	NT2	rtp reactor
NT3	kalinin-2 reactor	NT1	rts-1 reactor	NT2	trico ii reactor
NT3	kalinin-3 reactor	NT1	rv-1 reactor	NT2	trico reactor
NT3	kalinin-4 reactor	NT1	safari-1 reactor	NT2	triga-1-arizona reactor
NT3	kecerovce-1 reactor	NT1	saphir reactor	NT2	triga-1-california reactor
NT3	khmelnitskij-1 reactor	NT1	sbr-1 reactor	NT2	triga-1-hanford reactor
NT3	khmelnitskij-2 reactor	NT1	schmehausen-2 reactor	NT2	triga-1-hanover reactor



NT2 triga-1-heidelberg reactor  
 NT2 triga-1-michigan reactor  
 NT2 triga-2-bandung reactor  
 NT2 triga-2-bangladesh reactor  
 NT2 triga-2-dalat reactor  
 NT2 triga-2-illinois reactor  
 NT2 triga-2-kansas reactor  
 NT2 triga-2-ljubljana reactor  
 NT2 triga-2-mainz reactor  
 NT2 triga-2-musashi reactor  
 NT2 triga-2-pavia reactor  
 NT2 triga-2-pitesti reactor  
 NT2 triga-2 reactor  
 NT2 triga-2-rikkyo reactor  
 NT2 triga-2-rome reactor  
 NT2 triga-2-seoul reactor  
 NT2 triga-2-vienna reactor  
 NT2 triga-3-la jolla reactor  
 NT2 triga-3-munich reactor  
 NT2 triga-3-salazar reactor  
 NT2 triga-3-seoul reactor  
 NT2 triga-brazil reactor  
 NT2 triga-texas reactor  
 NT2 triga-veterans reactor  
 NT2 ucbr reactor  
 NT2 uwnr reactor  
 NT2 wsur reactor  
 NT1 triton reactor  
 NT1 trr-1 reactor  
 NT1 tsr-1 reactor  
 NT1 tz1 reactor  
 NT1 tz2 reactor  
 NT1 uhtrex reactor  
 NT1 uknr reactor  
 NT1 umne-1 reactor  
 NT1 umrr reactor  
 NT1 utrr reactor  
 NT1 uvar reactor  
 NT1 uwtr reactor  
 NT1 venus reactor  
 NT1 vg-400 reactor  
 NT1 vgr-50 reactor  
 NT1 vhtr reactor  
 NT1 vidal-1 reactor  
 NT1 vidal-2 reactor  
 NT1 viper reactor  
 NT1 vr-1 reactor  
 NT1 vrain reactor  
 NT1 wntr reactor  
 NT1 wpir reactor  
 NT1 wr-1 reactor  
 NT1 wrrr reactor  
 NT1 wtr reactor  
 NT1 wwr type reactors  
 NT2 budapest training reactor  
 NT2 irt-1 libya reactor  
 NT2 irt-baghdad reactor  
 NT2 lvr-15 reactor  
 NT2 wwr-2 reactor  
 NT2 wwr-k-almaty reactor  
 NT2 wwr-m-kiev reactor  
 NT2 wwr-m-leningrad reactor  
 NT2 wwr-s-bucharest reactor  
 NT2 wwr-s-budapest reactor  
 NT2 wwr-s-cairo reactor  
 NT2 wwr-s-moscow reactor  
 NT2 wwr-s-prague reactor  
 NT2 wwr-s-tashkent reactor  
 NT2 wwr-sm rossendorf reactor  
 NT2 wwr-z reactor  
 NT1 xma-1 reactor  
 NT1 zlfr reactor  
 NT1 zpr reactor  
 RT beloyarsk-3 reactor  
 RT bn-350 reactor  
 RT cesar reactor  
 RT clinch river breeder reactor  
 RT ebr-2 reactor  
 RT enriched uranium

RT eole reactor  
 RT iea-zpr reactor  
 RT lwgr type reactors  
 RT nora reactor  
 RT pdp reactor  
 RT pfr reactor  
 RT sneak reactor  
 RT vera reactor  
 RT zebra reactor  
 RT zenith reactor

## ENRICHMENT

2000-04-12

For isotopic enrichment use ISOTOPE SEPARATION.

NT1 ore enrichment  
 NT1 oxygen enrichment  
 RT isotope separation  
 RT purification  
 RT refining

### enrichment (isotopic)

USE isotope separation

### enrichment (ores)

USE ore enrichment

### enrichment (uranium)

INIS: 1975-08-20; ETDE: 2002-06-13

USE isotope separation

### enrichment plants (centrifuge)

INIS: 1978-02-23; ETDE: 1978-04-27

USE centrifuge enrichment plants

### enrichment plants (gaseous diffusion)

INIS: 1993-11-08; ETDE: 2002-06-13

USE gaseous diffusion plants

### enrichment plants (ultracentrifuge)

INIS: 1993-11-08; ETDE: 2002-06-13

USE centrifuge enrichment plants

## ENRICO FERMI-1 REACTOR

Detroit Edison Co., New Port, Michigan, USA. Shut down in 1972; mothballed.

\*BT1 enriched uranium reactors  
 \*BT1 lmfr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors

## ENRICO FERMI-2 REACTOR

Detroit Edison Co., New Port, Michigan, USA.

\*BT1 bwr type reactors

### enrico fermi award

INIS: 2000-04-12; ETDE: 1981-01-27

(Prior to June 1994, this was a valid ETDE descriptor.)

USE awards

### enrico fermi nuclear research center reactor

1993-11-05

USE cesnef reactor

### enrico fermi reactor

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE pwr type reactors  
 SEE ship propulsion reactors

## ENSTATITE

ETDE: 1976-03-31

A common rock forming mineral of the orthopyroxene group.

\*BT1 silicate minerals  
 RT magnesium silicates

## ENTC LWSR REACTOR

2018-08-20

Esfahan nuclear technology centre, Isfahan, Iran.

\*BT1 enriched uranium reactors  
 \*BT1 subcritical assemblies  
 \*BT1 training reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 \*BT1 zero power reactors

## ENTC MNSR REACTOR

2018-08-17

Esfahan nuclear technology centre, Isfahan, Iran.

\*BT1 mnsr type reactors

## ENTERITIS

\*BT1 digestive system diseases  
 RT diarrhea  
 RT intestines

## ENTHALPY

\*BT1 thermodynamic properties  
 NT1 absorption heat  
 NT1 adsorption heat  
 NT1 mixing heat  
 NT1 reaction heat  
 NT2 combustion heat  
 NT2 dissociation heat  
 NT2 formation heat  
 NT1 solution heat  
 NT1 transition heat  
 NT2 fusion heat  
 NT2 sublimation heat  
 NT2 vaporization heat  
 RT entropy  
 RT heating load  
 RT thermodynamics

### enthalpy of formation

INIS: 1975-09-01; ETDE: 2002-06-13

USE formation heat

### enthalpy wheels

2006-07-03

SEE heat exchangers

## ENTITLEMENTS PROGRAM

INIS: 2000-04-12; ETDE: 1977-06-02

Government program under which refiners with unusually large amounts of old (cheaper) crude pay premium to refine it; premium is paid to firms that have primarily higher-cost crude.

UF domestic crude oil entitlements program

RT allocations  
 RT petroleum refineries  
 RT prices

### entombment (radioactive materials)

INIS: 1993-11-08; ETDE: 2002-06-13

USE containment

### entomology

USE insects

## ENTRAINMENT

1997-06-17

RT babcock and wilcox-dupont process  
 RT ce entrained fuel process  
 RT combined-cycle fw process  
 RT dow gasification process  
 RT extraction apparatuses  
 RT impingement  
 RT solvent extraction

### entrainment separators

INIS: 2000-04-12; ETDE: 1977-03-08

USE mist extractors

**ENTROPY**

- \*BT1 thermodynamic properties
- RT energy quality
- RT enthalpy
- RT formation free enthalpy
- RT h theorem
- RT isentropic processes
- RT quantum information
- RT thermodynamics

**ENTRY CONTROL SYSTEMS**

INIS: 1999-05-12; ETDE: 1982-07-08  
*Systems for controlling access to areas of a facility.*

- UF access denial systems
- BT1 control systems
- RT biometric authentication
- RT human intrusion
- RT identification systems
- RT physical protection
- RT physical protection devices
- RT security

**entwickelter fortschrittlicher druckwasser reaktor**

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE efd-50 reaktor

**envelope houses**

INIS: 2000-04-12; ETDE: 1981-06-13  
 USE double envelope buildings

**ENVIRONMENT**

- RT accidents
- RT biological adaptation
- RT biosphere
- RT clean air acts
- RT clean water acts
- RT contamination
- RT controlled atmospheres
- RT earth atmosphere
- RT ecosystems
- RT environmental awareness
- RT environmental degradation
- RT environmental effects
- RT environmental exposure pathway
- RT environmental impact statements
- RT environmental impacts
- RT environmental policy
- RT environmental protection
- RT environmental transport
- RT fallout deposits
- RT habitat
- RT hydrosphere
- RT land use
- RT nature reserves
- RT pollution
- RT preventive medicine
- RT radiation protection
- RT radionuclide migration
- RT reactor sites
- RT recreational areas
- RT regional analysis
- RT site selection
- RT thermal comfort
- RT us national environmental policy act
- RT water use
- RT wilderness protection acts

**ENVIRONMENTAL AWARENESS**

2004-08-26  
*Public consciousness related to the environment, preservation of its quality, and causes of its deterioration.*

- BT1 public opinion
- RT environment
- RT environmental policy
- RT environmental quality

**environmental concentration**

INIS: 2000-04-12; ETDE: 1984-06-14  
 USE ecological concentration

**ENVIRONMENTAL DEGRADATION**

2013-11-27  
 RT contamination  
 RT environment  
 RT environmental effects  
 RT habitat fragmentation  
 RT pollution

**ENVIRONMENTAL EFFECTS**

1991-08-09  
*Actual effects on the environment.*  
 RT carbon footprint  
 RT environment  
 RT environmental degradation  
 RT environmental impact statements  
 RT environmental impacts  
 RT environmental policy  
 RT environmental protection  
 RT habitat fragmentation  
 RT land pollution  
 RT thermal pollution  
 RT water pollution

**ENVIRONMENTAL ENGINEERING**

- BT1 engineering
- RT aesthetics
- RT air conditioning
- RT pollution control equipment
- RT remedial action

**ENVIRONMENTAL EXPOSURE**

INIS: 1992-02-20; ETDE: 1984-09-21  
 RT acute exposure  
 RT air pollution  
 RT carcinogens  
 RT chronic exposure  
 RT hazardous materials  
 RT ionizing radiations  
 RT land pollution  
 RT mutagens  
 RT water pollution

**environmental exposure chambers**

INIS: 1978-09-28; ETDE: 1977-10-20  
 USE exposure chambers

**ENVIRONMENTAL EXPOSURE PATHWAY**

INIS: 1975-09-25; ETDE: 1975-10-01  
 RT biointrusion  
 RT biological availability  
 RT biological models  
 RT ecosystems  
 RT environment  
 RT food chains  
 RT radioactive waste disposal  
 RT radionuclide migration

**ENVIRONMENTAL IMPACT STATEMENTS**

*Use only for items about Environmental Impact Statements, not for documents which are such statements.*  
 BT1 document types  
 RT environment  
 RT environmental effects  
 RT environmental impacts  
 RT us national environmental policy act

**ENVIRONMENTAL IMPACTS**

INIS: 1977-07-05; ETDE: 1977-01-31  
*Possible or anticipated effects on the environment from a proposed project.*  
 RT aesthetics  
 RT environment  
 RT environmental effects  
 RT environmental impact statements

- RT environmental policy
- RT environmental protection
- RT heavy metals
- RT kyoto protocol
- RT life cycle assessment
- RT nuclear winter
- RT rio declaration

**ENVIRONMENTAL MATERIALS**

INIS: 1980-12-02; ETDE: 1978-01-23  
*Use only for unspecified samples from the environment.*

- UF materials (environmental)
- BT1 materials
- RT air
- RT atmospheric precipitations
- RT biological materials
- RT detritus
- RT minerals
- RT ores
- RT rocks
- RT sediments
- RT soils
- RT water

**ENVIRONMENTAL MEASUREMENTS LABORATORY**

INIS: 1992-07-07; ETDE: 1984-07-20  
 New York, USA.

- SF eml
- \*BT1 us doe

**environmental parks**

INIS: 1992-03-30; ETDE: 1978-08-08  
 USE nature reserves

**ENVIRONMENTAL POLICY**

INIS: 1999-07-07; ETDE: 1978-02-14  
 SF policy  
 BT1 government policies  
 NT1 emissions trading  
 NT1 water policy  
 RT clean air acts  
 RT clean water acts  
 RT economics  
 RT emissions tax  
 RT environment  
 RT environmental awareness  
 RT environmental effects  
 RT environmental impacts  
 RT kyoto protocol  
 RT life cycle assessment  
 RT planning  
 RT rio declaration  
 RT sustainable development  
 RT us national environmental policy act  
 RT us superfund

**ENVIRONMENTAL PROTECTION**

2004-08-26  
*Action to minimize harmful effects of human activities on the environment.*

- UF nature conservation
- RT climatic change
- RT environment
- RT environmental effects
- RT environmental impacts
- RT kyoto protocol
- RT paris agreement
- RT resource conservation
- RT rio declaration
- RT sustainable development

**environmental protection agency**

1978-07-04  
 USE us epa

**ENVIRONMENTAL QUALITY**

INIS: 1991-08-07; ETDE: 1979-09-06  
 NT1 air quality  
 NT1 water quality

RT environmental awareness

### environmental temperature

INIS: 2000-04-12; ETDE: 1976-03-22

USE ambient temperature

### ENVIRONMENTAL TRANSPORT

INIS: 1982-12-03; ETDE: 1976-11-01

For movement of chemicals, nuclides, etc., in the environment; not for goods and persons.

SF transport (environmental)

BT1 mass transfer

NT1 long-range transport

NT1 radionuclide migration

NT1 runoff

RT air-biosphere interactions

RT air-water interactions

RT downwelling

RT ecological concentration

RT environment

RT leachates

RT radioecological concentration

RT sinks

RT transfrontier contamination

### ENZYMATIC HYDROLYSIS

INIS: 1997-06-19; ETDE: 1976-03-22

UF cellulolytic activity

\*BT1 hydrolysis

RT acid hydrolysis

RT alkaline hydrolysis

RT biodegradation

RT cellulase

RT clostridium thermocellum

RT enzymes

RT hydrolases

RT thermoactinomycetes

### ENZYME ACTIVITY

INIS: 1985-07-23; ETDE: 1978-08-08

RT activity levels

RT biochemical reaction kinetics

RT catalysis

RT chemical reaction kinetics

RT enzymes

RT metabolic activation

RT metabolism

RT structure-activity relationships

### ENZYME IMMUNOASSAY

INIS: 1985-01-18; ETDE: 1985-02-22

UF elisa

\*BT1 immunoassay

RT antibodies

RT antigen-antibody reactions

RT antigens

RT cpb

RT enzymes

### ENZYME INDUCTION

INIS: 1992-03-10; ETDE: 1985-11-19

The process by which a cell accelerates the production of a specific protein or enzyme in response to environmental changes.

BT1 gene regulation

RT biosynthesis

RT enzymes

RT gene repressors

### ENZYME INHIBITORS

INIS: 1978-08-30; ETDE: 1976-03-11

Substances capable of stopping or retarding the action of an enzyme. They usually interact with the enzyme to reduce the rate of reaction.

UF inhibitors (enzyme)

RT enzymes

RT inhibition

### ENZYME REACTIVATION

INIS: 1993-08-24; ETDE: 1976-11-01

RT chemical activation

RT enzymes

### ENZYMES

The enzyme code numbers from enzyme nomenclature: Recommendations (1972) of the International Union of Pure and Applied Chemistry and the International Union of Biochemistry are given in scope notes for the individual enzymes.

UF photoreactivating enzyme

UF pre (photoreactivating enzyme)

\*BT1 proteins

NT1 dna helicases

NT1 gene recombination proteins

NT1 hydrolases

NT2 acid anhydrases

NT3 gtp-ases

NT3 phosphohydrolases

NT4 atp-ase

NT2 esterases

NT3 carboxylesterases

NT4 cholinesterase

NT4 lipases

NT3 phosphatases

NT4 acid phosphatase

NT4 alkaline phosphatase

NT4 nucleotidases

NT3 phosphodiesterases

NT4 nucleases

NT5 dna-ase

NT6 endonucleases

NT5 rna-ase

NT2 glycosyl hydrolases

NT3 o-glycosyl hydrolases

NT4 amylase

NT4 cellulase

NT4 galactosidase

NT4 glucosidase

NT4 glucuronidase

NT4 hyaluronidase

NT4 lysozyme

NT4 xylanase

NT2 non-peptide c-n hydrolases

NT3 amidases

NT4 arginase

NT4 urease

NT3 amidinases

NT2 peptide hydrolases

NT3 acid proteinases

NT4 pepsin

NT3 aminopeptidases

NT3 carboxypeptidases

NT3 nonspecific peptidases

NT4 renin

NT4 urokinase

NT3 serine proteinases

NT4 chymotrypsin

NT4 fibrinolysin

NT4 kallikrein

NT4 thrombin

NT4 trypsin

NT3 sh-proteinases

NT4 cathepsins

NT4 papain

NT4 streptococcal proteinase

NT1 isomerases

NT1 ligases

NT1 lyases

NT2 carbon-carbon lyases

NT3 aldehyde-lyases

NT3 aldolases

NT3 carboxy-lyases

NT4 carboxylase

NT4 decarboxylases

NT4 ribulose diphosphate carboxylase

NT2 carbon-oxygen lyases

NT3 hyaluronidase

NT3 hydro-lyases

NT4 carbonic anhydrase

NT2 cyclases

NT2 dna methylases

NT1 oxidoreductases

NT2 amine oxidases

NT2 aryl 4-monooxygenase

NT2 diaphorase

NT2 hemiacetal dehydrogenases

NT3 alcohol dehydrogenase

NT3 lactate dehydrogenase

NT2 hydrogenases

NT2 hydroxylases

NT3 tyrosinase

NT2 nitro-group dehydrogenases

NT3 nitrogenase

NT2 oxidases

NT3 cytochrome oxidase

NT3 luciferase

NT2 oxygenases

NT3 mixed-function oxidases

NT2 peroxidases

NT3 catalase

NT2 superoxide dismutase

NT1 transferases

NT2 carbon-group transferases

NT3 methyl transferases

NT2 glycosyl transferases

NT3 hexosyl transferases

NT3 pentosyl transferases

NT4 hypoxanthine

phosphoribosyltransferase

NT2 nitrogen transferases

NT3 aminotransferases

NT2 phosphorus-group transferases

NT3 nucleotidyltransferases

NT4 polymerases

NT5 dna polymerases

NT5 rna polymerases

NT3 phosphotransferases

NT4 hexokinase

RT autolysis

RT biochemical reaction kinetics

RT biochemistry

RT biosynthesis

RT catalysis

RT coenzymes

RT digestion

RT enzymatic hydrolysis

RT enzyme activity

RT enzyme immunoassay

RT enzyme induction

RT enzyme inhibitors

RT enzyme reactivation

RT glycolysis

RT immobilized enzymes

RT isoenzymes

RT metabolism

RT radioenzymatic assay

RT receptors

RT substrates

### EOCENE EPOCH

INIS: 1992-04-14; ETDE: 1977-10-20

\*BT1 tertiary period

RT geologic history

### EOCR REACTOR

INEEL, Idaho Falls, Idaho, USA. Never operational.

UF experimental organic cooled reactor

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 organic cooled reactors

\*BT1 organic moderated reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

**EOLE REACTOR**

CEA/CEN, Cadarache, St. Paul Lez Durance, France.

- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- RT enriched uranium reactors
- RT natural uranium reactors

**eor**

INIS: 2000-04-12; ETDE: 1980-03-04  
SEE enhanced recovery

**EOSIN**

- BT1 dyes
- \*BT1 hydroxy acids
- BT1 indicators
- \*BT1 organic bromine compounds
- RT phthalic acid

**EOSINOPHILS**

- \*BT1 leukocytes

**epa**

USE us epa

**epca**

INIS: 2000-04-12; ETDE: 1976-09-29  
USE us energy policy and conservation act

**epdm**

INIS: 1992-09-25; ETDE: 1980-05-06  
USE ethylene propylene diene polymers

**EPEC REACTOR**

- \*BT1 power reactors

**EPHEDRINE**

- \*BT1 alkaloids
- \*BT1 amines
- \*BT1 hydroxy compounds
- \*BT1 sympathomimetics
- \*BT1 vasoconstrictors

**EPHEMEROPTERA**

INIS: 1993-07-14; ETDE: 1984-02-21  
UF mayflies  
\*BT1 insects  
RT aquatic organisms

**EPIC STORAGE RING**

Electron-positron(proton) intersecting complex.  
\*BT1 pep storage rings

**EPICENTERS**

INIS: 1985-01-17; ETDE: 1978-10-25  
The parts of the earth's surface directly above the foci of earthquakes.  
RT earthquakes

**EPIDEMIOLOGY**

- RT a-bomb survivors
- RT aids
- RT disease incidence
- RT disease resistance
- RT diseases
- RT human populations
- RT infectious diseases
- RT preventive medicine

**EPIDERMIS**

- \*BT1 epithelium
- \*BT1 skin

**EPIDOTES**

2000-04-12  
A mineral commonly found in metamorphic rock.  
\*BT1 silicate minerals  
RT aluminium silicates  
RT calcium silicates

RT iron silicates

**EPILATION**

- BT1 pathological changes
- RT hair
- RT skin

**EPILEPSY**

INIS: 1980-07-24; ETDE: 1976-07-07  
\*BT1 nervous system diseases

**epinephrine**

ETDE: 1981-04-20  
USE adrenaline

**epiphysis (bones)**

USE bone tissues

**epiphysis (pineal gland)**

USE pineal gland

**EPITAXY**

- BT1 crystal growth methods
- NT1 liquid phase epitaxy
- NT1 molecular beam epitaxy
- NT1 vapor phase epitaxy
- RT crystal growth
- RT crystallization

**EPITHELIOMAS**

- SF skin cancer
- \*BT1 carcinomas
- NT1 melanomas
- RT epithelium

**EPITHELIUM**

- \*BT1 animal tissues
- NT1 epidermis
- RT carcinomas
- RT conjunctiva
- RT crypt cells
- RT endothelium
- RT epitheliomas
- RT hair follicles
- RT mucous membranes

**EPITHERMAL NEUTRONS**

- \*BT1 neutrons
- RT epithermal reactors

**EPITHERMAL REACTORS**

- BT1 reactors
- NT1 fast reactors
- NT2 actinide burner reactors
- NT2 afsr reactor
- NT2 aprf reactor
- NT2 bfs reactor
- NT2 bigr reactor
- NT2 bir reactor
- NT2 brest-od-300 reactor
- NT2 cefr reactor
- NT2 cfrmf reactor
- NT2 clementine reactor
- NT2 coral-1 reactor
- NT2 ecel reactor
- NT2 fbr type reactors
- NT3 aipfr reactor
- NT3 gcfr type reactors
- NT4 gcfr reactor
- NT3 kalpakkam pfr reactor
- NT3 lmfr type reactors
- NT4 beloyarsk-3 reactor
- NT4 beloyarsk-4 reactor
- NT4 bn-1200 reactor
- NT4 bn-1600 reactor
- NT4 bn-350 reactor
- NT4 bor-60 reactor
- NT4 cdfr reactor
- NT4 clinch river breeder reactor
- NT4 dfr reactor
- NT4 ebr-1 reactor
- NT4 ebr-2 reactor

- NT4 Enrico Fermi-1 reactor
- NT4 joyo reactor
- NT4 kalpakkam lmfr reactor
- NT4 monju reactor
- NT4 pfr reactor
- NT4 phenix reactor
- NT4 plbr reactor
- NT4 rapsodie reactor
- NT4 sbr-1 reactor
- NT4 sbr-2 reactor
- NT4 sbr-5 reactor
- NT4 snr-2 reactor
- NT4 snr reactor
- NT4 superphenix reactor
- NT4 venus reactor

- NT3 pec brasimone reactor
- NT3 zebra reactor
- NT2 fbrf reactor
- NT2 fca reactor
- NT2 ffrf reactor
- NT2 fr-0 reactor
- NT2 harmonie reactor
- NT2 hpr reactor
- NT2 ibr-2 reactor
- NT2 ibr-30 reactor
- NT2 ifr reactor
- NT2 kalpakkam pfr reactor
- NT2 kbr-1 reactor
- NT2 knk-2 reactor
- NT2 lampre-1 reactor
- NT2 masurca reactor
- NT2 myrrha facility
- NT2 pumima-2 reactor
- NT2 pumima reactor
- NT2 saref reactor
- NT2 sefor reactor
- NT2 sneak reactor
- NT2 sora reactor
- NT2 stf reactor
- NT2 tapiro reactor
- NT2 tibr reactor
- NT2 vera reactor
- NT2 viper reactor
- NT2 wntr reactor
- NT2 yayoi reactor
- NT2 zephyr reactor
- NT2 zpr reactor
- NT2 zpr-3 reactor
- NT2 zpr-6 reactor
- NT2 zpr-9 reactor
- NT2 zrr reactor
- NT1 intermediate reactors
- NT2 thor reactor
- RT epithermal neutrons

**EPOXIDES**

- UF epoxy compounds
- UF oxirans
- UF poly(isobutylene oxide)
- \*BT1 organic oxygen compounds
- NT1 araldite
- RT heterocyclic compounds
- RT potting materials
- RT resins

**epoxy compounds**

USE epoxides

**epr**

USE electron spin resonance

**EPR SPECTROMETERS**

- \*BT1 spectrometers

**EPRI**

*INIS: 1982-12-03; ETDE: 1977-01-10*  
*Organization founded by US utilities to develop and carryout broad, coordinated technology program for improving electric power.*

*UF electric power research institute*  
*RT electric power*  
*RT electric power industry*

**epsilon resonances**

2000-04-12

USE mesons

**epstein-barr virus**

*INIS: 1976-03-25; ETDE: 1975-08-19*

USE oncogenic viruses

**EQUATIONS**

1996-07-08

(Prior to July 1996 MASSEY-MOHR EQUATION was a valid ETDE descriptor.)

*UF massey-mohr equation*

**NT1** abfst equation

**NT1** arrhenius equation

**NT1** bethe-goldstone equation

**NT1** bethe-salpeter equation

**NT1** bloch equations

**NT1** born-mayer equation

**NT1** differential equations

**NT2** bbgky equation

**NT2** chapman-kolmogorov equation

**NT2** dirac-hestenes equation

**NT2** evolution equations

**NT2** hill equation

**NT2** joos-weinberg equation

**NT2** mathieu equation

**NT2** partial differential equations

**NT3** boltzmann equation

**NT3** boltzmann-vaslov equation

**NT4** plasma fluid equations

**NT3** continuity equations

**NT3** diffusion equations

**NT4** neutron diffusion equation

**NT3** equations of motion

**NT3** fokker-planck equation

**NT3** fourier heat equation

**NT3** grad-shafranov equation

**NT3** hamilton-jacobi equations

**NT3** korteweg-de vries equation

**NT3** lagrange equations

**NT3** laplace equation

**NT3** maxwell equations

**NT3** navier-stokes equations

**NT3** poisson equation

**NT3** proca equations

**NT3** wave equations

**NT4** dirac equation

**NT5** dirac spinors

**NT4** klein-gordon equation

**NT4** majorana equation

**NT4** schroedinger equation

**NT2** riccati equation

**NT2** schwinger functional equations

**NT2** sturm-liouville equation

**NT1** equations of state

**NT1** faddeev equations

**NT1** field equations

**NT2** dirac equation

**NT3** dirac spinors

**NT2** einstein field equations

**NT2** einstein-maxwell equations

**NT2** klein-gordon equation

**NT2** sine-gordon equation

**NT1** gribov-lipatov relation

**NT1** inhour equation

**NT1** integral equations

**NT2** blankenbecler-sugar equations

**NT2** fredholm equation

**NT2** lippmann-schwinger equation

**NT2** quasipotential equation

**NT2** volterra integral equations

**NT1** integro-differential equations

**NT2** boltzmann equation

**NT1** kinetic equations

**NT2** boltzmann equation

**NT1** langevin equation

**NT1** london equation

**NT1** low equation

**NT1** percus-yevick equation

**NT1** prediction equations

**NT1** rankine-hugoniot equations

**NT1** reactor kinetics equations

**NT2** response matrix method

**NT1** richardson equation

**NT1** rydberg equation

**NT1** saha equation

**NT1** secular equation

**NT1** sum rules

**NT1** virial equation

**NT1** weil equation

**NT1** wilkins equation

*RT* functions

*RT* galerkin-petrov method

*RT* mathematical solutions

*RT* mathematics

*RT* series expansion

**equations (differential)**

2000-04-12

USE differential equations

**EQUATIONS OF MOTION**

\***BT1** partial differential equations

*RT* anharmonic oscillators

*RT* canonical transformations

*RT* hamilton-jacobi equations

*RT* hamiltonian function

*RT* harmonic oscillators

*RT* lagrangian function

*RT* limit cycle

*RT* mechanics

*RT* navier-stokes equations

*RT* particle kinematics

**EQUATIONS OF STATE**

**BT1** equations

*RT* thermodynamics

*RT* virial equation

**EQUATOR**

*RT* geomagnetic equator

*RT* latitude effect

**equatorial electrojets**

USE electrojets

**EQUILIBRIUM**

**NT1** lte

**NT1** mhd equilibrium

**NT1** thermal equilibrium

*RT* chemical reactions

*RT* dynamic function studies

*RT* partition

*RT* population dynamics

*RT* reaction kinetics

*RT* stability

*RT* steady-state conditions

*RT* thermodynamic activity

**EQUILIBRIUM PLASMA**

**BT1** plasma

*RT* magnetic surfaces

*RT* non-equilibrium plasma

**EQUIPMENT**

1995-02-27

*Use of a more specific term is strongly recommended.*

*UF apparatus*

*UF devices*

**NT1** appliances

**NT2** coal burning appliances

**NT2** electric appliances

**NT3** clothes dryers

**NT3** clothes washers

**NT3** dishwashers

**NT3** microwave ovens

**NT2** freezers

**NT2** gas appliances

**NT2** ovens

**NT3** microwave ovens

**NT2** space heaters

**NT3** convectors

**NT2** stoves

**NT2** water coolers

**NT2** water heaters

**NT3** solar water heaters

**NT4** passive solar water heaters

**NT5** thermic diode solar panels

**NT2** wood burning appliances

**NT3** wood burning furnaces

**NT1** capacitive energy storage equipment

**NT1** compactors

**NT1** compressed air energy storage

equipment

**NT1** control equipment

**NT2** electric controllers

**NT2** flow regulators

**NT3** baffles

**NT3** valves

**NT4** relief valves

**NT4** water faucets

**NT2** fluidic control devices

**NT2** humidistats

**NT2** hydraulic control devices

**NT2** pneumatic controllers

**NT2** pressure regulators

**NT2** servomechanisms

**NT2** speed regulators

**NT2** thermostats

**NT3** cryostats

**NT1** dissolvers

**NT1** distillation equipment

**NT2** retorts

**NT1** drilling equipment

**NT2** blowout preventers

**NT2** drill bits

**NT2** drill pipes

**NT2** drilling rigs

**NT2** drills

**NT3** jet drills

**NT3** percussive drills

**NT3** rotary drills

**NT4** turbodrills

**NT3** spark drills

**NT3** subterrene penetrators

**NT1** electrical equipment

**NT2** antennas

**NT3** radio telescopes

**NT3** rectennas

**NT2** armatures

**NT2** battery chargers

**NT3** solar battery chargers

**NT2** capacitors

**NT2** circuit breakers

**NT2** conductor devices

**NT3** connectors

**NT3** electric cables

**NT4** coaxial cables

**NT4** cryogenic cables

**NT4** gas-insulated cables

**NT4** mineral-insulated cables

**NT4** oil-filled cables

**NT4** superconducting cables

**NT3** electric fuses

**NT2** current limiters

**NT2** dc to dc converters

**NT2** electric appliances

**NT3** clothes dryers

- NT3 clothes washers
  - NT3 dishwashers
  - NT3 microwave ovens
  - NT2 electric bridges
  - NT2 electric coils
    - NT3 magnet coils
    - NT4 pulsed magnet coils
  - NT3 rogowski coil
  - NT3 solenoids
  - NT3 superconducting coils
  - NT2 electric contacts
  - NT2 electric generators
    - NT3 alternators
    - NT3 flux pumps
    - NT3 homopolar generators
    - NT3 induction generators
    - NT3 rotating generators
      - NT4 superconducting generators
    - NT3 turbogenerators
    - NT3 water current power generators
  - NT2 electric measuring instruments
    - NT3 ammeters
    - NT3 electrometers
    - NT3 electroscopes
    - NT3 galvanometers
    - NT3 potentiometers
    - NT3 power meters
    - NT3 voltmeters
  - NT2 electric motors
    - NT3 superconducting motors
  - NT2 electrical insulators
  - NT2 electromagnets
    - NT3 superconducting magnets
  - NT2 inverters
  - NT2 lightning arresters
  - NT2 potheads
  - NT2 rectifiers
    - NT3 rectifier tubes
      - NT4 ignitrons
    - NT3 semiconductor rectifiers
  - NT2 relays
  - NT2 resistors
    - NT3 photoresistors
    - NT3 semiconductor resistors
  - NT2 shunt reactors
  - NT2 switches
    - NT3 cryotrons
    - NT3 plasma switches
    - NT3 semiconductor switches
  - NT2 transformers
    - NT3 gas-insulated transformers
  - NT1 electronic equipment
  - NT2 amplifiers
    - NT3 ac amplifiers
    - NT3 dc amplifiers
    - NT3 dielectric amplifiers
    - NT3 high frequency amplifiers
    - NT3 lock-in amplifiers
    - NT3 magnetic amplifiers
    - NT3 microwave amplifiers
      - NT4 masers
    - NT3 operational amplifiers
    - NT3 parametric amplifiers
    - NT3 power amplifiers
    - NT3 preamplifiers
    - NT3 pulse amplifiers
    - NT3 transistor amplifiers
  - NT2 analog-to-digital converters
  - NT2 counting ratemeters
    - NT3 linear ratemeters
    - NT3 logarithmic ratemeters
  - NT2 digital-to-analog converters
  - NT2 function generators
    - NT3 pulse generators
      - NT4 high-voltage pulse generators
      - NT5 marx generators
  - NT2 microwave equipment
    - NT3 heterodyne receivers
    - NT3 microwave amplifiers
  - NT4 masers
  - NT3 microwave dryers
  - NT3 microwave tubes
    - NT4 backward wave tubes
    - NT4 klystrons
    - NT4 lasertrons
    - NT4 magnetrons
    - NT4 travelling wave tubes
  - NT3 squid devices
  - NT2 multiplexers
  - NT2 optoelectronic devices
  - NT2 oscillators
    - NT3 blocking oscillators
    - NT3 parametric oscillators
    - NT3 transistor oscillators
  - NT2 oscillographs
  - NT2 power supplies
    - NT3 marx generators
    - NT3 photovoltaic power supplies
    - NT3 radio equipment power supplies
    - NT3 spacecraft power supplies
    - NT3 uninterruptible power supplies
  - NT2 pulse analyzers
    - NT3 multi-channel analyzers
  - NT2 pulse converters
    - NT3 current-to-frequency converters
    - NT3 time-to-amplitude converters
    - NT3 time-to-digital converters
  - NT2 pulse integrators
  - NT2 radio equipment
    - NT3 heterodyne receivers
    - NT3 ionosondes
    - NT3 radio telescopes
  - NT2 resonators
    - NT3 cavity resonators
      - NT4 superconducting cavity resonators
    - NT3 split-ring resonators
  - NT2 scalers
  - NT2 speech synthesizers
  - NT1 farm equipment
  - NT1 field production equipment
    - NT2 well injection equipment
    - NT2 well recovery equipment
    - NT2 wellheads
  - NT1 harvesting equipment
  - NT1 heat recovery equipment
  - NT1 hydraulic equipment
    - NT2 hydraulic control devices
  - NT1 laboratory equipment
    - NT2 dna sequencers
    - NT2 fume hoods
    - NT2 gloveboxes
    - NT2 hot cells
    - NT2 manipulators
    - NT2 vacuum pumps
      - NT3 cryopumps
      - NT3 sputter-ion pumps
      - NT3 turbomolecular pumps
  - NT1 machinery
    - NT2 pulverizers
    - NT2 refrigerating machinery
    - NT2 turbomachinery
      - NT3 turbines
        - NT4 gas turbines
          - NT5 coal-fired gas turbines
          - NT4 hydraulic turbines
            - NT5 pump turbines
          - NT4 radial inflow turbines
          - NT4 radial-outflow reaction turbines
          - NT4 rotary separator turbines
          - NT4 steam turbines
          - NT4 wind turbines
            - NT5 diffuser augmented turbines
            - NT5 horizontal axis turbines
            - NT5 vertical axis turbines
              - NT6 giromill turbines
              - NT6 tornado turbines
            - NT5 vortex augmented turbines
- NT3 turbochargers
- NT3 turbodrills
- NT3 turbofan engines
- NT3 turbogenerators
- NT3 turbojet engines
- NT2 winding machines
- NT1 magnetic energy storage equipment
- NT1 magnets
  - NT2 beam bending magnets
  - NT2 beam focusing magnets
  - NT2 electromagnets
    - NT3 superconducting magnets
  - NT2 kicker magnets
  - NT2 permanent magnets
  - NT2 septum magnets
  - NT2 wiggler magnets
- NT1 materials handling equipment
  - NT2 earthmoving equipment
    - NT3 bucket wheel excavators
    - NT3 draglines
  - NT2 grabs
  - NT2 haulage equipment
    - NT3 conveyors
      - NT4 belt conveyors
      - NT4 chain conveyors
    - NT3 loaders
      - NT4 cutter loaders
        - NT5 coal plows
        - NT5 continuous miners
        - NT5 heading machines
        - NT5 shearer loaders
    - NT3 mine cars
  - NT2 hoists
  - NT2 mixers
  - NT2 remote handling equipment
    - NT3 cranes
      - NT3 manipulators
  - NT2 shredders
  - NT2 winches
- NT1 military equipment
- NT1 mining equipment
  - NT2 bucket wheel excavators
  - NT2 cutting machines
    - NT3 cutter loaders
      - NT4 coal plows
      - NT4 continuous miners
      - NT4 heading machines
      - NT4 shearer loaders
  - NT2 roof bolts
- NT1 odorant dispensers
- NT1 optical equipment
  - NT2 optoelectronic devices
- NT1 particle size classifiers
- NT1 pollution control equipment
  - NT2 acoustic agglomerators
  - NT2 afterburners
  - NT2 air filters
  - NT2 baghouses
  - NT2 catalytic converters
  - NT2 electrostatic precipitators
  - NT2 exhaust recirculation systems
  - NT2 oil retention booms
  - NT2 pcv systems
  - NT2 rotating disk removal systems
  - NT2 scrubbers
    - NT3 dry scrubbers
    - NT3 wet scrubbers
      - NT4 venturi scrubbers
  - NT2 skimmers
  - NT2 weir oil recovery systems
- NT1 portable equipment
- NT1 pumps
  - NT2 centrifugal pumps
  - NT2 electromagnetic pumps
  - NT2 rod pumps
  - NT2 vacuum pumps
    - NT3 cryopumps
    - NT3 sputter-ion pumps
    - NT3 turbomolecular pumps

NT2 water pumps  
 NT3 solar water pumps  
 NT2 wind-powered pumps  
 NT1 remote viewing equipment  
 NT1 robots  
 NT1 samplers  
 NT2 air samplers  
 NT1 scrapers  
 NT1 separation equipment  
 NT2 extraction apparatuses  
 NT3 extraction columns  
 NT3 mist extractors  
 NT3 mixer-settlers  
 NT3 podbielniak contactors  
 NT2 inertial separators  
 NT3 cyclone separators  
 NT2 isotope separators  
 NT2 vapor separators  
 NT3 steam separators  
 NT1 solar equipment  
 NT2 heliostats  
 NT3 solar tracking systems  
 NT2 photovoltaic power supplies  
 NT2 pyranometers  
 NT2 pyrhemometers  
 NT2 solar absorbers  
 NT2 solar battery chargers  
 NT2 solar cell arrays  
 NT3 solar tracking systems  
 NT2 solar cells  
 NT3 aluminium arsenide solar cells  
 NT3 back contact solar cells  
 NT3 cadmium arsenide solar cells  
 NT3 cadmium selenide solar cells  
 NT3 cadmium sulfide solar cells  
 NT3 cadmium telluride solar cells  
 NT3 cascade solar cells  
 NT3 concentrator solar cells  
 NT3 copper oxide solar cells  
 NT3 copper selenide solar cells  
 NT3 copper sulfide solar cells  
 NT3 gallium arsenide solar cells  
 NT3 gallium phosphide solar cells  
 NT3 indium phosphide solar cells  
 NT3 indium selenide solar cells  
 NT3 mi solar cells  
 NT3 mis solar cells  
 NT3 mos solar cells  
 NT3 ms solar cells  
 NT3 organic solar cells  
 NT3 pis solar cells  
 NT3 ps solar cells  
 NT3 schottky barrier solar cells  
 NT3 selenium solar cells  
 NT3 silicon arsenide solar cells  
 NT3 silicon solar cells  
 NT4 soc solar cells  
 NT3 zinc phosphide solar cells  
 NT3 zinc sulfide solar cells  
 NT2 solar collectors  
 NT3 combined collectors  
 NT3 concentrating collectors  
 NT4 fixed mirror collectors  
 NT4 parabolic collectors  
 NT5 parabolic dish collectors  
 NT5 parabolic trough collectors  
 NT4 slat type collectors  
 NT4 tower focus collectors  
 NT4 v trough collectors  
 NT3 evacuated collectors  
 NT4 evacuated tube collectors  
 NT3 flat plate collectors  
 NT4 trickle-type collectors  
 NT3 inflatable collectors  
 NT3 solar air heaters  
 NT3 solar ponds  
 NT4 roof ponds  
 NT3 solar tracking systems  
 NT3 unglazed solar collectors

NT2 solar concentrators  
 NT3 cassegrainian concentrators  
 NT3 compound parabolic concentrators  
 NT3 luminescent concentrators  
 NT3 solar reflectors  
 NT4 fresnel reflectors  
 NT4 orbital solar reflectors  
 NT4 parabolic reflectors  
 NT5 parabolic dish reflectors  
 NT5 parabolic trough reflectors  
 NT2 solar cookers  
 NT2 solar cooling systems  
 NT3 passive solar cooling systems  
 NT4 bead walls  
 NT4 drum walls  
 NT4 roof ponds  
 NT3 solar air conditioners  
 NT4 solar-assisted heat pumps  
 NT3 solar refrigerators  
 NT2 solar dryers  
 NT2 solar furnaces  
 NT2 solar heating systems  
 NT3 passive solar heating systems  
 NT4 bead walls  
 NT4 direct gain systems  
 NT4 drum walls  
 NT4 roof ponds  
 NT4 thermic diode solar panels  
 NT4 trombe walls  
 NT4 water walls  
 NT3 solar-assisted heat pumps  
 NT2 solar kilns  
 NT2 solar regenerators  
 NT2 solar simulators  
 NT2 solar stills  
 NT2 solar water heaters  
 NT3 passive solar water heaters  
 NT4 thermic diode solar panels  
 NT2 solar water pumps  
 NT2 spectrally selective surfaces  
 NT1 thermal energy storage equipment  
 NT1 tools  
 NT2 cutting tools  
 NT2 drill bits  
 NT2 machine tools  
 NT3 grinding machines  
 NT3 lathes  
 NT3 milling machines  
 NT1 tunneling machines  
 NT1 well casings  
 NT1 well logging equipment  
 NT1 wind tunnels  
 NT1 x-ray equipment  
 NT2 x-ray tubes  
 RT equipment interfaces  
 RT human factors engineering  
 RT office furniture  
 RT warranties

## EQUIPMENT INTERFACES

UF *interfaces (equipment)*  
 RT camac system  
 RT computer architecture  
 RT computers  
 RT data transmission  
 RT electronic equipment  
 RT equipment  
 RT fastbus system  
 RT graphical user interface

## EQUIPMENT PROTECTION DEVICES

NT1 circuit breakers  
 NT1 electric fuses  
 RT cryostats  
 RT reactor protection systems  
 RT relays  
 RT switches

## EQUIVALENCE PRINCIPLE

RT general relativity theory  
 RT gravitational fields  
 RT mass

## EQUIVALENT CIRCUITS

BT1 electronic circuits

## EQUIVALENT DOSE RANGE

2012-05-30

BT1 radiation dose ranges  
 NT1 micro sv range  
 NT1 milli sv range  
 NT2 milli sv range 01-10  
 NT2 milli sv range 10-100  
 NT2 milli sv range 100-1000  
 NT1 sv range  
 RT equivalent radiation doses  
 RT radiation dose rate ranges

## EQUIVALENT FISSION FLUENCE

INIS: 1976-05-07; ETDE: 1978-03-08

\*BT1 damaging neutron fluence  
 RT irradiation  
 RT neutronic damage functions  
 RT physical radiation effects

## EQUIVALENT-PHOTON APPROXIMATION

UF *williams-weizsacker approximation*  
 \*BT1 approximations  
 RT photon-photon interactions  
 RT quantum electrodynamics

## EQUIVALENT RADIATION DOSES

2012-05-30

\*BT1 radiation doses  
 RT biological radiation effects  
 RT equivalent dose range  
 RT radiotherapy

## ERBIUM

\*BT1 rare earths

## ERBIUM 143

2007-10-22

\*BT1 electron capture radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei

## ERBIUM 144

2007-10-22

\*BT1 electron capture radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei

## ERBIUM 145

1989-07-19

\*BT1 beta-plus decay radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei

## ERBIUM 146

INIS: 1992-09-22; ETDE: 1984-09-05

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

## ERBIUM 147

INIS: 1983-09-05; ETDE: 1983-08-25

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**ERBIUM 148***1981-09-17*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 149***INIS: 1984-10-19; ETDE: 1984-05-08*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 150***INIS: 1977-01-25; ETDE: 1976-11-01*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 151***1977-01-26*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 152**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 153**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 154**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 155**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 156**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 157**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 158**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 159**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 160**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**ERBIUM 161**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 162**

- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**ERBIUM 162 TARGET***ETDE: 1976-07-09*

- BT1 targets

**ERBIUM 163**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 163 TARGET***INIS: 1979-02-21; ETDE: 1979-03-28*

- BT1 targets

**ERBIUM 164**

- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**ERBIUM 164 TARGET***ETDE: 1976-07-09*

- BT1 targets

**ERBIUM 165**

- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 165 TARGET***INIS: 1979-02-21; ETDE: 1979-03-28*

- BT1 targets

**ERBIUM 166**

- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**ERBIUM 166 REACTIONS***INIS: 1985-11-18; ETDE: 1985-12-13*

- \*BT1 heavy ion reactions

**ERBIUM 166 TARGET***ETDE: 1976-07-09*

- BT1 targets

**ERBIUM 167**

- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**ERBIUM 167 TARGET***ETDE: 1976-07-09*

- BT1 targets

**ERBIUM 168**

- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**ERBIUM 168 TARGET***ETDE: 1976-07-09*

- BT1 targets

**ERBIUM 169**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 170**

- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**ERBIUM 170 TARGET***ETDE: 1976-07-09*

- BT1 targets

**ERBIUM 171**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 172**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**ERBIUM 173**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 174***INIS: 1989-04-20; ETDE: 1989-05-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei



**ERBIUM 175**

1996-03-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**ERBIUM 176**

2007-10-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 177**

2007-10-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM ADDITIONS**

*Alloys containing not more than 1% Er are listed here.*

- \*BT1 erbium alloys
- \*BT1 rare earth additions

**ERBIUM ALLOYS**

*Alloys containing more than 1% Er.*

- \*BT1 rare earth alloys
- NT1 erbium additions
- NT1 erbium base alloys

**ERBIUM BASE ALLOYS**

- \*BT1 erbium alloys

**ERBIUM BORIDES**

- \*BT1 borides
- \*BT1 erbium compounds

**ERBIUM BROMIDES**

- \*BT1 bromides
- \*BT1 erbium halides

**ERBIUM CARBIDES**

- \*BT1 carbides
- \*BT1 erbium compounds

**ERBIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 erbium compounds

**ERBIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 erbium halides

**ERBIUM COMPLEXES**

- \*BT1 rare earth complexes

**ERBIUM COMPOUNDS**

1997-06-17

- BT1 rare earth compounds
- NT1 erbium borides
- NT1 erbium carbides
- NT1 erbium carbonates
- NT1 erbium halides
  - NT2 erbium bromides
  - NT2 erbium chlorides
  - NT2 erbium fluorides
  - NT2 erbium iodides
- NT1 erbium hydrides
- NT1 erbium hydroxides
- NT1 erbium nitrates
- NT1 erbium nitrides
- NT1 erbium oxides
- NT1 erbium perchlorates
- NT1 erbium phosphates
- NT1 erbium phosphides
- NT1 erbium selenides
- NT1 erbium silicides
- NT1 erbium sulfates

NT1 erbium sulfides

NT1 erbium tellurides

NT1 erbium tungstates

**ERBIUM FLUORIDES**

- \*BT1 erbium halides
- \*BT1 fluorides

**ERBIUM HALIDES**

2012-07-19

- \*BT1 erbium compounds
- \*BT1 halides
- NT1 erbium bromides
- NT1 erbium chlorides
- NT1 erbium fluorides
- NT1 erbium iodides

**ERBIUM HYDRIDES**

- \*BT1 erbium compounds
- \*BT1 hydrides

**ERBIUM HYDROXIDES**

- \*BT1 erbium compounds
- \*BT1 hydroxides

**ERBIUM IODIDES**

- \*BT1 erbium halides
- \*BT1 iodides

**ERBIUM IONS**

- \*BT1 ions

**ERBIUM ISOTOPES**

1996-03-14

- BT1 isotopes
- NT1 erbium 143
- NT1 erbium 144
- NT1 erbium 145
- NT1 erbium 146
- NT1 erbium 147
- NT1 erbium 148
- NT1 erbium 149
- NT1 erbium 150
- NT1 erbium 151
- NT1 erbium 152
- NT1 erbium 153
- NT1 erbium 154
- NT1 erbium 155
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- NT1 erbium 168
- NT1 erbium 169
- NT1 erbium 170
- NT1 erbium 171
- NT1 erbium 172
- NT1 erbium 173
- NT1 erbium 174
- NT1 erbium 175
- NT1 erbium 176
- NT1 erbium 177

**ERBIUM NITRATES**

- \*BT1 erbium compounds
- \*BT1 nitrates

**ERBIUM NITRIDES**

- \*BT1 erbium compounds
- \*BT1 nitrides

**ERBIUM OXIDES**

- \*BT1 erbium compounds
- \*BT1 oxides

**ERBIUM PERCHLORATES**

INIS: 2000-04-12; ETDE: 1975-10-28

- \*BT1 erbium compounds
- \*BT1 perchlorates

**ERBIUM PHOSPHATES**

INIS: 1986-01-21; ETDE: 1984-03-06

- \*BT1 erbium compounds
- \*BT1 phosphates

**ERBIUM PHOSPHIDES**

INIS: 1981-08-06; ETDE: 1978-08-07

- \*BT1 erbium compounds
- \*BT1 phosphides

**ERBIUM SELENIDES**

INIS: 1978-08-30; ETDE: 1977-12-22

- \*BT1 erbium compounds
- \*BT1 selenides

**ERBIUM SILICIDES**

INIS: 1975-10-29; ETDE: 1975-12-16

- \*BT1 erbium compounds
- \*BT1 silicides

**ERBIUM SULFATES**

- \*BT1 erbium compounds
- \*BT1 sulfates

**ERBIUM SULFIDES**

- \*BT1 erbium compounds
- \*BT1 sulfides

**ERBIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1977-11-28

- \*BT1 erbium compounds
- \*BT1 tellurides

**ERBIUM TUNGSTATES**

1988-02-02

- \*BT1 erbium compounds
- \*BT1 tungstates

**EREVAN SYNCHROTRON**UF *eku*UF *yerevan synchrotron*

- \*BT1 synchrotrons

**ERGOALCIFEROL**UF *vitamin d-2*

- \*BT1 vitamin d

**ERGODIC DIVERTORS**

1995-11-21

*Devices based on externally produced ergodicity of the magnetic field configuration in the plasma edge region to divert plasma impurities and fuel ash in magnetic fusion devices.*

BT1 divertors

RT randomness

**ERGODIC HYPOTHESIS**

BT1 hypothesis

RT phase space

RT probability

RT statistical mechanics

**ergonomics**

INIS: 1995-01-10; ETDE: 1982-06-07

- USE human factors engineering

**ERGOSTEROL**

- \*BT1 sterols

**ERGOTAMINE**

\*BT1 alkaloids

\*BT1 sympatholytics

RT indoles

**ericson fluctuations**

- USE ericson theory

**ERICSON THEORY**

- UF *ericson fluctuations*  
 RT random phase approximation

**ERICSSON CYCLE**

- 2003-06-26  
*An ideal thermodynamic cycle consisting of two isobaric processes interspersed with processes which are, in effect, isothermal, but each of which consists of an infinite number of alternating isentropic and isobaric processes.*  
 BT1 thermodynamic cycles  
 RT thermodynamics

**ERIE-1 REACTOR**

- INIS: 1977-09-06; ETDE: 1977-06-02  
*Ohio Edison Co., Berlin Heights, Ohio, USA. Canceled in 1980 before construction began.*  
 \*BT1 pwr type reactors

**ERIE-2 REACTOR**

- INIS: 1977-09-06; ETDE: 1977-06-02  
*Ohio Edison Co., Berlin Heights, Ohio, USA. Canceled in 1980 before construction began.*  
 \*BT1 pwr type reactors

**ERIOCHROME DYES**

- \*BT1 azo dyes  
 \*BT1 phenols  
 \*BT1 sulfonic acids

**eriolgaucine**

- 2000-04-12  
 (Prior to February 1996 this was a valid ETDE descriptor.)  
 USE azo dyes  
 USE indicators  
 USE sulfonic acids

**ERITREA**

- INIS: 2002-07-22; ETDE: 2002-06-17  
 BT1 africa  
 BT1 developing countries

**ERMINE REACTOR**

- \*BT1 zero power reactors

**ernest orlando lawrence award**

- INIS: 2000-04-12; ETDE: 1981-01-27  
 (Prior to June 1994, this was a valid ETDE descriptor.)  
 USE awards

**EROSION**

- RT ablation  
 RT abrasion  
 RT corrosion  
 RT ground cover  
 RT soil conservation  
 RT wear

**EROSION CONTROL**

- INIS: 1992-07-07; ETDE: 1985-09-23  
 BT1 control  
 RT revegetation  
 RT soil conservation

**ERR REACTOR**

- US AEC, Elk River, Minnesota, USA.  
 Decommissioned in 1968.  
 UF *elk river reactor*  
 \*BT1 bwr type reactors  
 \*BT1 thorium reactors

**ERRORS**

- For considerations of causes of errors. For data uncertainties use DATA COVARIANCES.*  
 RT accuracy  
 RT comparative evaluations  
 RT corrections  
 RT data covariances  
 RT performance

- RT quality control  
 RT reliability  
 RT resolution  
 RT sensitivity analysis  
 RT tolerance

**ERUPTION**

- INIS: 1993-02-18; ETDE: 1976-08-04  
*The ejection of volcanic materials onto the earth's surface.*  
 RT lava  
 RT volcanism  
 RT volcanoes

**eruptive binary stars**

- INIS: 1984-05-24; ETDE: 2002-06-13  
 USE eruptive variable stars

**ERUPTIVE VARIABLE STARS**

- INIS: 1978-11-24; ETDE: 1978-12-20  
*Variable close binary systems, one star of which provides the other with accretion material.*

- UF *cataclysmic binary stars*  
 UF *cataclysmic variable stars*  
 UF *eruptive binary stars*  
 \*BT1 binary stars  
 \*BT1 variable stars  
 NT1 novae  
 NT1 supernovae  
 NT2 type i supernovae  
 NT2 type ii supernovae  
 NT1 t tauri stars  
 RT accretion disks  
 RT star accretion

**ERYTHEMA**

- BT1 symptoms  
 RT skin  
 RT skin diseases

**ERYTHRITOL**

- UF *tetrahydroxybutane*  
 \*BT1 alcohols  
 \*BT1 monosaccharides

**erythroblasts**

- USE bone marrow cells

**ERYTHROCYTES**

- \*BT1 blood cells  
 NT1 reticulocytes  
 RT anemias  
 RT babesidae  
 RT blood groups  
 RT carboxyhemoglobin  
 RT hemagglutinins  
 RT hemoglobin  
 RT hemolysis  
 RT megaloblastic anemia  
 RT methemoglobin  
 RT sickle cell anemia

**ERYTHROMYCIN**

- \*BT1 antibiotics

**ERYTHROPOIESIS**

- BT1 blood formation  
 RT erythropoietin  
 RT hematopoietic system

**ERYTHROPOIETIN**

- 1999-07-08  
 BT1 mitogens  
 \*BT1 peptide hormones  
 RT erythropoiesis  
 RT growth factors

**ERYTHROSINE**

- ETDE: 1975-09-11  
 \*BT1 fluorescein  
 \*BT1 organic iodine compounds

**ERZGEBIRGE DEPOSIT**

- INIS: 1992-02-04; ETDE: 1992-09-21  
 \*BT1 uranium deposits  
 RT federal republic of germany  
 RT uranium ores

**ES COMPUTERS**

- 1982-02-10  
 BT1 computers

**ES-SALAM REACTOR**

- 2005-02-11  
*Centre de Development des Systemes Energetiques, Ainoussera, Algeria. Temporary shutdown since 2015.*  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**ESA**

- INIS: 1995-10-27; ETDE: 1980-11-25  
*Until 1975 known as ESRO, and older material is indexed to ESRO.*  
 UF *esro*  
 UF *european space agency*  
 UF *european space research organization*  
 BT1 international organizations

**ESADA-VESR REACTOR**

- USA.  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**ESARDA**

- INIS: 1976-09-06; ETDE: 1976-11-01  
*European Safeguards Research and Development Association.*  
 UF *european safeguard research development association*  
 BT1 international organizations

**esca**

- Electron Spectroscopy for Chemical Analysis.*  
 (Prior to Dec 2002 CHEMICALANALYSIS + ELECTRON SPECTROSCOPY was used for this concept.)  
 USE x-ray photoelectron spectroscopy

**ESCAPE PEAKS**

- BT1 peaks  
 RT gamma spectra

**escar**

- INIS: 2000-04-12; ETDE: 1975-11-26  
 (Prior to July 1985, this was a valid ETDE descriptor and older material is so indexed.)  
 USE escar storage ring

**ESCAR STORAGE RING**

- INIS: 1976-02-11; ETDE: 1977-01-31  
*Experimental Superconducting Accelerating Ring at Berkeley.*  
 UF *berkeley escar storage ring*  
 UF *escar*  
 BT1 storage rings  
 \*BT1 synchrotrons

**ESCHERICHIA COLI**

- \*BT1 bacteria  
 RT coliforms  
 RT intestines

**escom-1 reactor**

INIS: 1975-11-07; ETDE: 1975-12-16

USE koeborg-1 reactor

**ESCOM REACTOR**

UF electricity supply company reactor

\*BT1 power reactors

**escrow accounts**

INIS: 2000-04-12; ETDE: 1983-05-21

Monies or other items held by a third party.

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE compliance

**ESERINE**

UF physostigmine

\*BT1 alkaloids

\*BT1 parasymphathomimetics

**ESKIMOS**

\*BT1 indigenous peoples

RT arctic regions

RT sami people

**ESOPHAGUS**

BT1 digestive system

\*BT1 organs

RT mediastinum

**esr**

USE electron spin resonance

**ESR STORAGE RING**

INIS: 1992-02-22; ETDE: 1992-03-09

UF darmstadt storage ring

BT1 storage rings

**esrf**

2000-09-08

USE european synchrotron radiation facility

**esro**

1997-01-28

(Until October 1995 this was a valid descriptor. Name changed in 1975 to ESA, and more recent material should have been indexed to ESA.)

USE esa

**esrom event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**ess**

2016-06-09

USE european spallation source

**ESSENTIAL OILS**

\*BT1 oils

RT buffalo gourd

RT plants

RT vegetable oils

**essex i project**

INIS: 2000-03-27; ETDE: 1975-08-19

(Until July 1996 this was a valid descriptor.)

USE underground explosions

**ESSOR REACTOR**

Joint Research Centre, Ispra, Italy. Permanent shutdown since 1983. Under decommissioning since 1998.

UF orgel reactor

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 natural uranium reactors

\*BT1 organic cooled reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

**ESTERASES**

Code number 3.1.

\*BT1 hydrolases

NT1 carboxylesterases

NT2 cholinesterase

NT2 lipases

NT1 phosphatases

NT2 acid phosphatase

NT2 alkaline phosphatase

NT2 nucleotidases

NT1 phosphodiesterases

NT2 nucleases

NT3 dna-ase

NT4 endonucleases

NT3 rna-ase

RT esters

**ESTERIFICATION**

BT1 chemical reactions

RT esters

**ESTERS**

1996-10-23

Includes esters of organic and inorganic acids.

UF lanolin

UF wool fat

BT1 organic compounds

NT1 acetylcholine

NT1 carbonic acid esters

NT1 carboxylic acid esters

NT2 acetic acid esters

NT3 methyl acetate

NT3 polyvinyl acetate

NT3 vinyl acetate

NT2 acetoacetic acid esters

NT2 acrylic acid esters

NT2 bromosulphophthalein

NT2 carbamic acid esters

NT2 citric acid esters

NT2 glucoheptonate

NT2 malathion

NT2 methacrylic acid esters

NT2 oxalic acid esters

NT2 phenolphthalein

NT2 retinoic acid

NT1 cellulose esters

NT2 nitrocellulose

NT1 isocyanic acid esters

NT1 lactones

NT2 coumarin

NT2 gibberellic acid

NT1 nitric acid esters

NT2 nitrocellulose

NT2 nitroglycerin

NT2 peroxyacetyl nitrate

NT2 petn

NT1 nitrous acid esters

NT1 phorbol esters

NT1 phosphinic acid esters

NT1 phospholipids

NT2 cardiolipin

NT2 lecithins

NT2 sphingomyelins

NT1 phosphonic acid esters

NT2 damp

NT2 dhdecmp

NT1 phosphoric acid esters

NT2 butyl phosphates

NT3 dbp

NT3 mbp

NT3 tbp

NT2 hdehp

NT2 mdpa

NT2 phytic acid

NT2 tcp

NT1 phthalic acid esters

NT1 polyacrylates

NT2 lucite

NT2 perspex

NT2 plexiglas

NT2 pmma

NT1 polyesters

NT2 polyethylene terephthalate

NT3 dacron

NT3 homalite

NT3 mylar

NT1 sulfonic acid esters

NT2 alkyl benzenesulfonates

NT2 ethyl methanesulfonate

NT2 methyl methanesulfonate

NT2 petroleum sulfonates

NT1 sulfuric acid esters

NT1 thiophosphoric acid esters

NT2 cystaphos

NT2 gammaphos

NT2 parathion

NT1 triglycerides

NT2 corn oil

NT2 linseed oil

NT2 olive oil

NT2 peanut oil

NT2 soybean oil

NT2 triolein

RT carboxylic acid salts

RT claisen condensation

RT esterases

RT esterification

RT hydrolysis

RT lipids

**esthetics**

INIS: 1983-06-30; ETDE: 1978-03-03

USE aesthetics

**ESTONIA**

INIS: 1997-08-20; ETDE: 1993-03-15

(Until January 1993, this was indexed by USSR.)

SF soviet union

SF union of soviet socialist republics

SF ussr

\*BT1 eastern europe

**ESTONIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**ESTRADIOL**

\*BT1 estranes

\*BT1 estrogens

\*BT1 hydroxy compounds

NT1 fluoroestradiol

**ESTRANES**

\*BT1 steroids

NT1 estradiol

NT2 fluoroestradiol

NT1 estriol

NT1 estrone

RT estrogens

**ESTRIOL**

\*BT1 estranes

\*BT1 estrogens

\*BT1 hydroxy compounds

**ESTROGENS**

\*BT1 steroid hormones

NT1 estradiol

NT2 fluoroestradiol

NT1 estriol

NT1 estrone

RT castration

RT estranes

RT estrous cycle

RT fsh

RT ovaries

RT stilbestrol

RT tamoxifen

**ESTRONE**

- \*BT1 estranes
- \*BT1 estrogens
- \*BT1 hydroxy compounds
- \*BT1 ketones

**ESTROUS CYCLE**

- RT estrogens
- RT female genitals
- RT luteinizing hormone
- RT menopause
- RT menstrual cycle
- RT menstruation disorders
- RT ovulation
- RT rhythmicity

**ESTUARIES**

- \*BT1 coastal waters
- NT1 fiords
- NT1 long island sound
- RT eutrophication
- RT fresh water
- RT offshore nuclear power plants
- RT offshore sites
- RT rivers
- RT salinity
- RT seas
- RT seawater

**estuarine ecosystems**

USE aquatic ecosystems

**estuary event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**eta-1060 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE eta-1295 mesons

**eta-1275 mesons**

INIS: 1995-08-07; ETDE: 1988-01-29

(From December 1987 until July 1995 this was a valid term.)

USE eta-1295 mesons

**ETA-1295 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by ETA-1060 RESONANCES; from then until July 1995 it was indexed by ETA-1275 MESONS.)

UF eta-1060 resonances

UF eta-1275 mesons

\*BT1 pseudoscalar mesons

**ETA-1440 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29

(Prior to December 1987 this concept was indexed by IOTA-1440 RESONANCES.)

UF iota-1440 resonances

\*BT1 pseudoscalar mesons

**eta-2980 resonances**

INIS: 1987-12-21; ETDE: 1984-12-26

(Prior to December 1987 this was a valid descriptor.)

USE eta c-2980 mesons

**eta-549**

USE eta mesons

**eta-700 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**eta-958 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE eta prime-958 mesons

**ETA C-2980 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by ETA-2980 RESONANCES.)

UF eta-2980 resonances

UF eta-c resonances

\*BT1 charmonium

\*BT1 pseudoscalar mesons

**ETA C-3590 MESONS**

INIS: 1995-08-07; ETDE: 1988-02-01

\*BT1 charmonium

**eta-c resonances**

INIS: 2000-04-12; ETDE: 1984-12-26

USE eta c-2980 mesons

**ETA MESON BEAMS**

\*BT1 meson beams

**ETA MESONS**

UF eta-549

\*BT1 pseudoscalar mesons

**ETA PRIME-958 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-25

(Prior to December 1987 this concept was indexed by ETA-958 RESONANCES.)

UF eta-958 resonances

UF x-zero resonances

\*BT1 pseudoscalar mesons

**ETCHING**

1999-07-08

BT1 surface finishing

RT ceramography

RT dielectric track detectors

RT masking

RT metallography

RT particle tracks

**ETDE**

1991-02-11

UF energy technology data exchange

BT1 information systems

RT international energy agency

**etf (tokamak)**

INIS: 2000-04-12; ETDE: 1979-12-17

USE etf tokamak

**ETF TOKAMAK**

INIS: 1981-07-06; ETDE: 1981-08-04

UF engineering test facility (tokamak)

UF etf (tokamak)

UF tokamak etf

\*BT1 tokamak devices

**ethanal**

USE acetaldehyde

**ETHANE**

\*BT1 alkanes

RT ddt

**ETHANOL**

UF cologne spirits

UF ethyl alcohol

UF fermentation alcohol

UF grain alcohol

\*BT1 alcohols

NT1 bioethanol

NT2 cellulosic ethanol

RT ethanol fuels

RT gasohol program

**ETHANOL FUELS**

INIS: 1992-07-23; ETDE: 1979-09-06

For pure ethanol, ethanol-water mixtures, or ethanol with additives; for ethanol-gasoline mixtures use GASOHOL.

\*BT1 alcohol fuels

RT automotive fuels

RT bioethanol

RT diesel fuels

RT ethanol

RT gasohol

**ETHANOL PLANTS**

INIS: 1992-07-23; ETDE: 1981-05-18

BT1 industrial plants

RT biomass conversion plants

RT chemical plants

**ETHERS**

1996-10-23

For the commonly used anesthetic and solvent, use ETHYL ETHER.

UF batyl alcohol

UF carbitols

UF diglycol monoalkyl ethers

UF ethocel

UF ioglycamic acid

UF octadecyl glyceryl ether-alpha

UF oxetane

\*BT1 organic oxygen compounds

NT1 acetals

NT2 acetal

NT1 anisole

NT1 butyl ether

NT1 cellosolves

NT1 crown ethers

NT1 curcumin

NT1 dme

NT1 ethyl ether

NT1 isopropyl ether

NT1 methyl ether

NT1 methylal

NT1 mexamine

NT1 morpholines

NT1 phenyl ether

RT polyethylene glycols

RT tetrahydropyran

RT thyronine

RT thyroxine

**ETHICAL ASPECTS**

1982-02-09

UF ethics

RT hazards

RT political aspects

RT public opinion

RT radiation protection

RT safety

RT safety culture

RT sociology

**ethics**

INIS: 2000-04-12; ETDE: 1978-03-03

(Prior to July 1985, this was a valid ETDE descriptor.)

USE ethical aspects

**ethine**

USE acetylene

**ETHIONINE**

UF ethylmercaptoaminobutyric acid

UF ethylthioaminobutyric acid

\*BT1 amino acids

\*BT1 antimetabolites

\*BT1 lipotropic factors

\*BT1 organic sulfur compounds

**ETHIOPIA**

BT1 africa

BT1 developing countries

**ethnic groups**

INIS: 2000-04-12; ETDE: 1979-10-23

USE minority groups

**ethocel**

USE cellulose

USE ethers

**ETHOXY RADICALS**

\*BT1 alkoxy radicals

**ethyl alcohol**

USE ethanol

**ETHYL ETHER**

UF diethyl ether

\*BT1 ethers

RT anesthetics

RT organic solvents

**ETHYL METHANESULFONATE**

ETDE: 2005-01-28

(Prior to January 2005 EMS was used for this concept.)

UF ems (ethyl methanesulfonate)

BT1 mutagens

\*BT1 sulfonic acid esters

RT methane

**ETHYL RADICALS**

\*BT1 alkyl radicals

**ethylaldehyde**

USE acetaldehyde

**ETHYLENE**

\*BT1 alkenes

**ETHYLENE GLYCOLS**

2017-11-13

Prior to November 2017, descriptor

GLYCOLS was used for this concept

UF tetraphenylethylene glycol

\*BT1 glycols

NT1 polyethylene glycols

NT2 carbowax

NT2 pluronics

RT polyethylene terephthalate

**ethylene polymers**

USE polyethylenes

**ETHYLENE PROPYLENE DIENE POLYMERS**

INIS: 1992-09-25; ETDE: 1980-05-06

UF epdm

\*BT1 elastomers

RT rubbers

**ethylenecarboxylic acid**

USE acrylic acid

**ethylenediaminetetraacetic acid**

USE edta

**ethylmercaptoaminobutyric acid**

USE ethionine

**ethylthioaminobutyric acid**

USE ethionine

**ethyne**

USE acetylene

**ethyrene**

2000-04-12

(Prior to April 1994, this was a valid ETDE descriptor.)

USE organic sulfur compounds

USE radioprotective substances

**ethyreneethyl phosphinate**

2000-04-12

USE organic sulfur compounds

USE radioprotective substances

**ETIOLOGY**

Dealing with all causes of a disease or abnormal condition of an organism.

RT diseases

**etioporphyrins**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

USE porphyrins

**ETR REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1981.

UF engineering test reactor

UF nrts-etr reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**ETRC REACTOR**

2000-04-12

INEEL, Idaho Falls, Idaho, USA. Shut down in 1981.

UF engineering test reactor critical facility

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 zero power reactors

**ETRR-1 REACTOR**

INIS: 1990-08-24; ETDE: 1990-09-10

Atomic Energy Authority, Cairo, Egypt.

UF egyptian testing research reactor-1

\*BT1 research reactors

\*BT1 tank type reactors

**ETRR-2 REACTOR**

1999-09-24

Atomic Energy Authority, Cairo, Egypt.

UF egyptian testing research reactor-2

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**ettinghausen effect**

USE ettingshausen effect

**ETTINGSHAUSEN EFFECT**

2013-09-13

Prior to September 2013 this descriptor was spelled ETTINGHAUSEN EFFECT.

UF ettinghausen effect

RT hall effect

RT nernst effect

RT righi-leduc effect

**ettingshausen-nernst effect**

2016-04-07

USE nernst effect

**EUCALYPTUSES**

INIS: 1978-01-13; ETDE: 1978-03-03

\*BT1 magnoliopsida

\*BT1 trees

**euclidean quantum field theory**

INIS: 1977-11-21; ETDE: 1978-03-08

USE constructive field theory

USE euclidean space

**EUCLIDEAN SPACE**

UF euclidean quantum field theory

\*BT1 riemann space

**eudialyte**

INIS: 1997-01-28; ETDE: 1975-10-01

(Until October 1996 this was a valid descriptor.)

USE silicate minerals

**eouflavine**

USE acriflavine

**EUGLENA**

\*BT1 euglenophycota

\*BT1 mastigophora

\*BT1 unicellular algae

**EUGLENOPHYCOTA**

INIS: 1991-12-13; ETDE: 1988-12-20

BT1 euglena

NT1 euglena

**EUMYCOTA**

INIS: 1996-11-13; ETDE: 1988-12-20

(The UF terms below were valid ETDE descriptors till March1997.)

UF claviceps

UF pellicularia

UF phycomyces

UF thielavia

\*BT1 fungi

NT1 aspergillus

NT1 fusarium

NT1 lichens

NT1 mildew

NT1 neurospora

NT1 penicillium

NT1 phanerochaete

NT1 rhizopus

NT1 trichoderma

NT2 trichoderma viride

NT1 ustilago

NT1 yeasts

NT2 candida

NT2 saccharomyces

NT3 saccharomyces cerevisiae

NT2 torula

**EUPHORBIA**

INIS: 1997-06-17; ETDE: 1979-07-24

Latex bearing plants and possible source of hydrocarbons.

UF chinese tallow tree

\*BT1 magnoliopsida

NT1 castor

NT1 milkweed

NT1 rubber trees

NT2 guayule

NT2 hevea

**EUPHRATES RIVER**

2009-05-20

UF furat river

\*BT1 rivers

RT iraq

RT syria

RT turkey

**EURATOM**

UF european atomic energy community

\*BT1 european union

RT europe

**eurelios solar power plant**

INIS: 2000-04-12; ETDE: 1986-02-21  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE tower focus power plants

**EUREX PROCESS**

\*BT1 reprocessing  
RT amines  
RT solvent extraction

**EUROCHEMIC**

RT reprocessing

**eurocurrency**

INIS: 2000-04-12; ETDE: 1979-09-28  
USE euromarket

**EURODIF**

INIS: 1975-11-11; ETDE: 1975-12-16  
International association founded in march 1972 to promote the construction of a European gaseous diffusion plant.  
BT1 international organizations  
RT gaseous diffusion plants

**eurodollars**

INIS: 2000-04-12; ETDE: 1979-09-28  
USE euromarket

**EUROMARKET**

INIS: 2000-04-12; ETDE: 1979-10-03  
Money on deposit and available for lending at financial institutions outside the country of the money's origin; beyond the control of any nation, it is mostly in hands of world's largest banks and free from reserve requirements and other national regulations.

UF eurocurrency  
UF eurodollars  
RT capital  
RT international cooperation  
RT investment

**EUROPE**

1995-04-03

NT1 eastern europe  
NT2 albania  
NT2 belarus  
NT2 bosnia and herzegovina  
NT2 bulgaria  
NT2 croatia  
NT2 czech republic  
NT2 estonia  
NT2 hungary  
NT2 latvia  
NT2 lithuania  
NT2 moldova  
NT2 montenegro  
NT2 poland  
NT2 romania  
NT2 russian federation  
NT3 dubna  
NT3 kamchatka  
NT3 kurile islands  
NT3 lovozero  
NT3 novaya zemlya  
NT3 siberia  
NT2 serbia  
NT2 slovakia  
NT2 slovenia  
NT2 the former yugoslav republic of macedonia  
NT2 ukraine  
NT3 crimea  
NT1 western europe  
NT2 austria  
NT2 belgium  
NT2 federal republic of germany  
NT2 france  
NT3 reunion island

NT2 greece  
NT2 holy see  
NT2 iceland  
NT2 ireland  
NT2 italy  
NT3 appennines  
NT3 sicily  
NT2 luxembourg  
NT2 malta  
NT2 monaco  
NT2 netherlands  
NT2 portugal  
NT3 azores islands  
NT2 san marino  
NT2 scandinavia  
NT3 denmark  
NT3 finland  
NT3 norway  
NT3 sweden  
NT2 spain  
NT3 canary islands  
NT2 switzerland  
NT2 united kingdom  
RT euratom  
RT european union

**european atomic energy community**

1999-07-08  
USE euratom

**european coal and steel community**

USE ecsc

**european committee for standardization**

INIS: 2004-07-16; ETDE: 2002-10-02  
USE cen

**european communities**

1997-01-28  
(Until December 1994 this was a valid descriptor.)  
USE european union

**european economic community**

USE internal market

**european muon collaboration effect**

INIS: 1993-11-08; ETDE: 1985-06-25  
USE emc effect

**european nuclear energy agency**

1995-03-28  
USE nea

**european organization for nuclear research**

USE cern

**european safeguard research development association**

INIS: 1993-11-08; ETDE: 1976-11-02  
USE esarda

**european space agency**

INIS: 1982-04-13; ETDE: 1982-05-07  
USE esa

**european space research organization**

1995-10-27  
USE esa

**EUROPEAN SPALLATION SOURCE**

2016-06-09  
Lund, Sweden  
UF ess  
\*BT1 spallation neutron source facilities

**EUROPEAN SYNCHROTRON RADIATION FACILITY**

2000-09-08  
Grenoble, France.  
UF esrf  
\*BT1 synchrotron radiation sources

**EUROPEAN UNION**

INIS: 1995-04-03; ETDE: 1994-10-20  
(Until December 1994 this concept was indexed to EUROPEAN COMMUNITIES.)  
UF european communities  
BT1 international organizations  
NT1 ecsc  
NT1 euratom  
NT1 internal market  
RT europe

**EUROPIUM**

\*BT1 rare earths

**EUROPIUM 130**

INIS: 2003-01-03; ETDE: 2002-12-26  
\*BT1 europium isotopes  
\*BT1 microseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 rare earth nuclei

**EUROPIUM 131**

INIS: 2003-01-03; ETDE: 2002-12-26  
\*BT1 europium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 rare earth nuclei

**EUROPIUM 132**

2007-01-30  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 europium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 rare earth nuclei

**EUROPIUM 133**

2007-01-30  
\*BT1 electron capture radioisotopes  
\*BT1 europium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

**EUROPIUM 134**

INIS: 1989-10-27; ETDE: 1989-11-21  
\*BT1 beta-plus decay radioisotopes  
\*BT1 europium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei

**EUROPIUM 135**

INIS: 1989-10-27; ETDE: 1989-11-21  
\*BT1 beta-plus decay radioisotopes  
\*BT1 europium isotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**EUROPIUM 136**

INIS: 1986-04-02; ETDE: 1985-12-11  
\*BT1 beta-plus decay radioisotopes  
\*BT1 europium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**EUROPIUM 137**

INIS: 1988-04-15; ETDE: 1984-08-20  
\*BT1 europium isotopes

- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 138**

*INIS: 1977-06-14; ETDE: 1977-10-20*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 139**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 140**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 141**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 142**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 143**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 144**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 145**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 146**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 147**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes

- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 148**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 149**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 150**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 151**

- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**EUROPIUM 151 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**EUROPIUM 152**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 152 TARGET**

*INIS: 1977-11-21; ETDE: 1977-12-22*

- BT1 targets

**EUROPIUM 153**

- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**EUROPIUM 153 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**EUROPIUM 154**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 154 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*

- BT1 targets

**EUROPIUM 155**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei

- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 155 TARGET**

*INIS: 1979-12-20; ETDE: 1980-01-24*

- BT1 targets

**EUROPIUM 156**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 157**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 158**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 159**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 160**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 161**

*INIS: 1986-10-29; ETDE: 1986-11-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 162**

*INIS: 1987-08-27; ETDE: 1987-10-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 163**

*2007-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 164**

*2007-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 165**

*2007-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 166**

2007-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 167**

2007-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM ADDITIONS**

*Alloys containing not more than 1% Eu are listed here.*

- \*BT1 europium alloys
- \*BT1 rare earth additions

**EUROPIUM ALLOYS**

*Alloys containing more than 1% Eu.*

- \*BT1 rare earth alloys
- NT1 europium additions
- NT1 europium base alloys

**EUROPIUM ARSENIDES**

*INIS: 1989-09-14; ETDE: 1976-08-24*

- \*BT1 arsenides
- \*BT1 europium compounds

**EUROPIUM BASE ALLOYS**

- \*BT1 europium alloys

**EUROPIUM BORIDES**

- \*BT1 borides
- \*BT1 europium compounds

**EUROPIUM BROMIDES**

- \*BT1 bromides
- \*BT1 europium halides

**EUROPIUM CARBIDES**

- \*BT1 carbides
- \*BT1 europium compounds

**EUROPIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 europium compounds

**EUROPIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 europium halides

**EUROPIUM COMPLEXES**

- \*BT1 rare earth complexes

**EUROPIUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 europium arsenides
- NT1 europium borides
- NT1 europium carbides
- NT1 europium carbonates
- NT1 europium halides
- NT2 europium bromides
- NT2 europium chlorides
- NT2 europium fluorides
- NT2 europium iodides
- NT1 europium hydrides
- NT1 europium hydroxides
- NT1 europium nitrates
- NT1 europium nitrides
- NT1 europium oxides
- NT1 europium perchlorates
- NT1 europium phosphates
- NT1 europium phosphides
- NT1 europium selenides
- NT1 europium silicates
- NT1 europium silicides
- NT1 europium sulfates
- NT1 europium sulfides

NT1 europium tellurides

**EUROPIUM FLUORIDES**

- \*BT1 europium halides
- \*BT1 fluorides

**EUROPIUM HALIDES**

2012-07-19

- \*BT1 europium compounds
- \*BT1 halides
- NT1 europium bromides
- NT1 europium chlorides
- NT1 europium fluorides
- NT1 europium iodides

**EUROPIUM HYDRIDES**

- \*BT1 europium compounds
- \*BT1 hydrides

**EUROPIUM HYDROXIDES**

- \*BT1 europium compounds
- \*BT1 hydroxides

**EUROPIUM IODIDES**

- \*BT1 europium halides
- \*BT1 iodides

**EUROPIUM IONS**

- \*BT1 ions

**EUROPIUM ISOTOPES**

- BT1 isotopes
- NT1 europium 130
- NT1 europium 131
- NT1 europium 132
- NT1 europium 133
- NT1 europium 134
- NT1 europium 135
- NT1 europium 136
- NT1 europium 137
- NT1 europium 138
- NT1 europium 139
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- NT1 europium 158
- NT1 europium 159
- NT1 europium 160
- NT1 europium 161
- NT1 europium 162
- NT1 europium 163
- NT1 europium 164
- NT1 europium 165
- NT1 europium 166
- NT1 europium 167

**EUROPIUM NITRATES**

- \*BT1 europium compounds
- \*BT1 nitrates

**EUROPIUM NITRIDES**

- \*BT1 europium compounds
- \*BT1 nitrides

**EUROPIUM OXIDES**

- \*BT1 europium compounds
- \*BT1 oxides

**EUROPIUM PERCHLORATES**

*INIS: 1991-09-16; ETDE: 1975-10-28*

- \*BT1 europium compounds
- \*BT1 perchlorates

**EUROPIUM PHOSPHATES**

*INIS: 1975-10-23; ETDE: 1975-12-16*

- \*BT1 europium compounds
- \*BT1 phosphates

**EUROPIUM PHOSPHIDES**

*INIS: 1983-10-14; ETDE: 1977-11-28*

- \*BT1 europium compounds
- \*BT1 phosphides

**EUROPIUM SELENIDES**

*INIS: 1976-10-29; ETDE: 1975-09-11*

- \*BT1 europium compounds
- \*BT1 selenides

**EUROPIUM SILICATES**

- \*BT1 europium compounds
- \*BT1 silicates

**EUROPIUM SILICIDES**

*INIS: 1975-10-29; ETDE: 1975-12-16*

- \*BT1 europium compounds
- \*BT1 silicides

**EUROPIUM SULFATES**

- \*BT1 europium compounds
- \*BT1 sulfates

**EUROPIUM SULFIDES**

- \*BT1 europium compounds
- \*BT1 sulfides

**EUROPIUM TELLURIDES**

*INIS: 1976-05-05; ETDE: 1975-09-11*

- \*BT1 europium compounds
- \*BT1 tellurides

**EUTECTICS**

- RT monotectics
- RT phase change materials
- RT phase diagrams
- RT phase transformations

**EUTECTOIDS**

- RT monotectoids
- RT phase diagrams
- RT phase transformations

**EUTERPE STORAGE RING**

*INIS: 1992-10-19; ETDE: 1992-11-04*

*Eindhoven University of Technology ring for protons and electrons.*

- BT1 storage rings

**EUTROPHICATION**

*INIS: 1975-12-17; ETDE: 1976-08-24*

- RT algae
- RT aquatic ecosystems
- RT estuaries
- RT fertilizers
- RT lakes
- RT limnology
- RT nutrients
- RT water pollution

**euxenite**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE uranium minerals

**EV RANGE**

- BT1 energy range
- NT1 ev range 01-10
- NT1 ev range 10-100
- NT1 ev range 100-1000

**EV RANGE 01-10**

- \*BT1 ev range



**EV RANGE 10-100**

\*BT1 ev range

**EV RANGE 100-1000**

\*BT1 ev range

**EVACUATED COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-03-08

\*BT1 solar collectors

NT1 evacuated tube collectors

**EVACUATED TUBE COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-03-08

\*BT1 evacuated collectors

**EVACUATION**

INIS: 1997-06-17; ETDE: 1983-03-23

*An organized withdrawal of people from a place or area as a protective measure.*

RT accidents

RT civil defense

RT emergency plans

RT external zones

RT mine rescue

RT population relocation

RT routing

**EVALUATED DATA**

INIS: 1978-10-20; ETDE: 1979-02-27

*Use only in conjunction with literary indicator N for data flagging; refers to data gathered from other sources and may consist of a compilation of data which, however, has been evaluated and some judgement as to its accuracy or value is expressed or implied.*

UF data compilation (evaluated)

\*BT1 numerical data

RT nuclear data collections

**evaluated nuclear data file**

INIS: 1994-07-01; ETDE: 1983-03-23

USE nuclear data collections

**EVALUATION**

INIS: 1995-04-09; ETDE: 1976-06-07

*Process of subjecting to critical judgement or interpretation.*

NT1 comparative evaluations

RT audits

RT feasibility studies

RT forecasting

RT inspection

RT quality assurance

RT testing

RT validation

**EVANS BLUE**

\*BT1 azo dyes

BT1 reagents

\*BT1 sulfonic acids

**EVAPORATION**

UF vaporization

UF volatilization

BT1 phase transformations

NT1 flashing

NT1 sublimation

NT1 vacuum evaporation

RT blowoff

RT boiling

RT dehydration

RT distillation

RT drying

RT evaporative cooling

RT evaporators

RT flash heating

RT interception

RT spray drying

RT throughfall

RT transpiration

RT vaporization heat

RT vapors

RT waste processing

**EVAPORATION MODEL**

UF nuclear evaporation

\*BT1 nuclear models

NT1 weisskopf model

RT compound-nucleus reactions

RT nuclear fireball model

RT nuclear temperature

RT precompound-nucleus emission

**EVAPORATIVE COOLING**

INIS: 1976-09-06; ETDE: 1975-10-01

*Cooling of a liquid by using the vaporization heat of part of the liquid or cooling air by evaporating water into it.*

BT1 cooling

RT cold storage

RT cooling systems

RT cooling towers

RT evaporation

**EVAPORATORS**

NT1 solar stills

RT counterflow systems

RT crossflow systems

RT desalination

RT distillation

RT dryers

RT evaporation

RT heat exchangers

RT vapor condensers

**EVAPORITES**

INIS: 1984-04-04; ETDE: 1981-07-06

\*BT1 sedimentary rocks

RT halite

**EVEN-EVEN NUCLEI**

1996-06-17

*Even protons, even neutrons.*

BT1 nuclei

NT1 argon 30

NT1 argon 32

NT1 argon 34

NT1 argon 36

NT1 argon 38

NT1 argon 40

NT1 argon 42

NT1 argon 44

NT1 argon 46

NT1 argon 48

NT1 argon 50

NT1 argon 52

NT1 barium 114

NT1 barium 116

NT1 barium 118

NT1 barium 120

NT1 barium 122

NT1 barium 124

NT1 barium 126

NT1 barium 128

NT1 barium 130

NT1 barium 132

NT1 barium 134

NT1 barium 136

NT1 barium 138

NT1 barium 140

NT1 barium 142

NT1 barium 144

NT1 barium 146

NT1 barium 148

NT1 barium 150

NT1 barium 152

NT1 beryllium 10

NT1 beryllium 12

NT1 beryllium 14

NT1 beryllium 16

NT1 beryllium 6

NT1 beryllium 8

NT1 cadmium 100

NT1 cadmium 102

NT1 cadmium 104

NT1 cadmium 106

NT1 cadmium 108

NT1 cadmium 110

NT1 cadmium 112

NT1 cadmium 114

NT1 cadmium 116

NT1 cadmium 118

NT1 cadmium 120

NT1 cadmium 122

NT1 cadmium 124

NT1 cadmium 126

NT1 cadmium 128

NT1 cadmium 130

NT1 cadmium 132

NT1 cadmium 96

NT1 cadmium 98

NT1 calcium 34

NT1 calcium 36

NT1 calcium 38

NT1 calcium 40

NT1 calcium 42

NT1 calcium 44

NT1 calcium 46

NT1 calcium 48

NT1 calcium 50

NT1 calcium 52

NT1 calcium 54

NT1 calcium 56

NT1 calcium 58

NT1 calcium 60

NT1 californium 236

NT1 californium 238

NT1 californium 240

NT1 californium 242

NT1 californium 244

NT1 californium 246

NT1 californium 248

NT1 californium 250

NT1 californium 252

NT1 californium 254

NT1 californium 256

NT1 carbon 10

NT1 carbon 12

NT1 carbon 14

NT1 carbon 16

NT1 carbon 18

NT1 carbon 20

NT1 carbon 22

NT1 carbon 8

NT1 cerium 120

NT1 cerium 122

NT1 cerium 124

NT1 cerium 126

NT1 cerium 128

NT1 cerium 130

NT1 cerium 132

NT1 cerium 134

NT1 cerium 136

NT1 cerium 138

NT1 cerium 140

NT1 cerium 142

NT1 cerium 144

NT1 cerium 146

NT1 cerium 148

NT1 cerium 150

NT1 cerium 152

NT1 cerium 154

NT1 cerium 156

NT1 chromium 42

NT1 chromium 44

NT1 chromium 46

NT1 chromium 48

NT1 chromium 50

NT1 chromium 52

NT1 chromium 54

NT1 chromium 56

NT1 chromium 58

NT1	chromium 60	NT1	gadolinium 150	NT1	krypton 84
NT1	chromium 62	NT1	gadolinium 152	NT1	krypton 86
NT1	chromium 64	NT1	gadolinium 154	NT1	krypton 88
NT1	chromium 66	NT1	gadolinium 156	NT1	krypton 90
NT1	chromium 68	NT1	gadolinium 158	NT1	krypton 92
NT1	copernicium 278	NT1	gadolinium 160	NT1	krypton 94
NT1	copernicium 282	NT1	gadolinium 162	NT1	krypton 96
NT1	copernicium 284	NT1	gadolinium 164	NT1	krypton 98
NT1	curium 232	NT1	gadolinium 166	NT1	lead 178
NT1	curium 234	NT1	gadolinium 168	NT1	lead 180
NT1	curium 236	NT1	germanium 58	NT1	lead 182
NT1	curium 238	NT1	germanium 60	NT1	lead 184
NT1	curium 240	NT1	germanium 62	NT1	lead 186
NT1	curium 242	NT1	germanium 64	NT1	lead 188
NT1	curium 244	NT1	germanium 66	NT1	lead 190
NT1	curium 246	NT1	germanium 68	NT1	lead 192
NT1	curium 248	NT1	germanium 70	NT1	lead 194
NT1	curium 250	NT1	germanium 72	NT1	lead 196
NT1	curium 252	NT1	germanium 74	NT1	lead 198
NT1	darmstadtium 270	NT1	germanium 76	NT1	lead 200
NT1	darmstadtium 272	NT1	germanium 78	NT1	lead 202
NT1	dysprosium 138	NT1	germanium 80	NT1	lead 204
NT1	dysprosium 140	NT1	germanium 82	NT1	lead 206
NT1	dysprosium 142	NT1	germanium 84	NT1	lead 208
NT1	dysprosium 144	NT1	germanium 86	NT1	lead 210
NT1	dysprosium 146	NT1	germanium 88	NT1	lead 212
NT1	dysprosium 148	NT1	hafnium 154	NT1	lead 214
NT1	dysprosium 150	NT1	hafnium 156	NT1	lead 216
NT1	dysprosium 152	NT1	hafnium 158	NT1	livermorium 290
NT1	dysprosium 154	NT1	hafnium 160	NT1	livermorium 292
NT1	dysprosium 156	NT1	hafnium 162	NT1	magnesium 20
NT1	dysprosium 158	NT1	hafnium 164	NT1	magnesium 22
NT1	dysprosium 160	NT1	hafnium 166	NT1	magnesium 24
NT1	dysprosium 162	NT1	hafnium 168	NT1	magnesium 26
NT1	dysprosium 164	NT1	hafnium 170	NT1	magnesium 28
NT1	dysprosium 166	NT1	hafnium 172	NT1	magnesium 30
NT1	dysprosium 168	NT1	hafnium 174	NT1	magnesium 32
NT1	dysprosium 170	NT1	hafnium 176	NT1	magnesium 34
NT1	dysprosium 172	NT1	hafnium 178	NT1	magnesium 36
NT1	element 124 312	NT1	hafnium 180	NT1	magnesium 38
NT1	erbium 144	NT1	hafnium 182	NT1	magnesium 40
NT1	erbium 146	NT1	hafnium 184	NT1	mercury 172
NT1	erbium 148	NT1	hafnium 186	NT1	mercury 174
NT1	erbium 150	NT1	hafnium 188	NT1	mercury 176
NT1	erbium 152	NT1	hassium 264	NT1	mercury 178
NT1	erbium 154	NT1	hassium 266	NT1	mercury 180
NT1	erbium 156	NT1	hassium 270	NT1	mercury 182
NT1	erbium 158	NT1	hassium 272	NT1	mercury 184
NT1	erbium 160	NT1	hassium 274	NT1	mercury 186
NT1	erbium 162	NT1	hassium 276	NT1	mercury 188
NT1	erbium 164	NT1	helium 10	NT1	mercury 190
NT1	erbium 166	NT1	helium 2	NT1	mercury 192
NT1	erbium 168	NT1	helium 4	NT1	mercury 194
NT1	erbium 170	NT2	helium i	NT1	mercury 196
NT1	erbium 172	NT2	helium ii	NT1	mercury 198
NT1	erbium 174	NT1	helium 6	NT1	mercury 200
NT1	erbium 176	NT1	helium 8	NT1	mercury 202
NT1	fermium 242	NT1	iron 46	NT1	mercury 204
NT1	fermium 244	NT1	iron 48	NT1	mercury 206
NT1	fermium 246	NT1	iron 50	NT1	mercury 208
NT1	fermium 248	NT1	iron 52	NT1	mercury 210
NT1	fermium 250	NT1	iron 54	NT1	mercury 212
NT1	fermium 252	NT1	iron 56	NT1	molybdenum 100
NT1	fermium 254	NT1	iron 58	NT1	molybdenum 102
NT1	fermium 256	NT1	iron 60	NT1	molybdenum 104
NT1	fermium 258	NT1	iron 62	NT1	molybdenum 106
NT1	fermium 260	NT1	iron 64	NT1	molybdenum 108
NT1	fermium 264	NT1	iron 66	NT1	molybdenum 110
NT1	flerovium 286	NT1	iron 68	NT1	molybdenum 112
NT1	flerovium 288	NT1	iron 70	NT1	molybdenum 114
NT1	flerovium 292	NT1	iron 72	NT1	molybdenum 84
NT1	gadolinium 134	NT1	krypton 100	NT1	molybdenum 86
NT1	gadolinium 136	NT1	krypton 70	NT1	molybdenum 88
NT1	gadolinium 138	NT1	krypton 72	NT1	molybdenum 90
NT1	gadolinium 140	NT1	krypton 74	NT1	molybdenum 92
NT1	gadolinium 142	NT1	krypton 76	NT1	molybdenum 94
NT1	gadolinium 144	NT1	krypton 78	NT1	molybdenum 96
NT1	gadolinium 146	NT1	krypton 80	NT1	molybdenum 98
NT1	gadolinium 148	NT1	krypton 82	NT1	neodymium 124

NT1 neodymium 126  
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NT1 ruthenium 98  
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NT1 samarium 156  
NT1 samarium 158  
NT1 samarium 160  
NT1 samarium 162  
NT1 samarium 164  
NT1 seaborgium 258  
NT1 seaborgium 260  
NT1 seaborgium 262  
NT1 seaborgium 264  
NT1 seaborgium 266  
NT1 seaborgium 268

**NT1** seaborgium 270  
**NT1** seaborgium 272  
**NT1** selenium 64  
**NT1** selenium 66  
**NT1** selenium 68  
**NT1** selenium 70  
**NT1** selenium 72  
**NT1** selenium 74  
**NT1** selenium 76  
**NT1** selenium 78  
**NT1** selenium 80  
**NT1** selenium 82  
**NT1** selenium 84  
**NT1** selenium 86  
**NT1** selenium 88  
**NT1** silicon 22  
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**NT1** silicon 32  
**NT1** silicon 34  
**NT1** silicon 36  
**NT1** silicon 38  
**NT1** silicon 40  
**NT1** silicon 42  
**NT1** silicon 44  
**NT1** strontium 100  
**NT1** strontium 102  
**NT1** strontium 104  
**NT1** strontium 74  
**NT1** strontium 76  
**NT1** strontium 78  
**NT1** strontium 80  
**NT1** strontium 82  
**NT1** strontium 84  
**NT1** strontium 86  
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**NT1** strontium 92  
**NT1** strontium 94  
**NT1** strontium 96  
**NT1** strontium 98  
**NT1** sulfur 24  
**NT1** sulfur 26  
**NT1** sulfur 28  
**NT1** sulfur 30  
**NT1** sulfur 32  
**NT1** sulfur 34  
**NT1** sulfur 36  
**NT1** sulfur 38  
**NT1** sulfur 40  
**NT1** sulfur 42  
**NT1** sulfur 44  
**NT1** sulfur 46  
**NT1** sulfur 48  
**NT1** tellurium 106  
**NT1** tellurium 108  
**NT1** tellurium 110  
**NT1** tellurium 112  
**NT1** tellurium 114  
**NT1** tellurium 116  
**NT1** tellurium 118  
**NT1** tellurium 120  
**NT1** tellurium 122  
**NT1** tellurium 124  
**NT1** tellurium 126  
**NT1** tellurium 128  
**NT1** tellurium 130  
**NT1** tellurium 132  
**NT1** tellurium 134  
**NT1** tellurium 136  
**NT1** tellurium 138  
**NT1** tellurium 140  
**NT1** tellurium 142  
**NT1** thorium 208  
**NT1** thorium 210  
**NT1** thorium 212  
**NT1** thorium 214

**NT1** thorium 216  
**NT1** thorium 218  
**NT1** thorium 220  
**NT1** thorium 224  
**NT1** thorium 226  
**NT1** thorium 228  
**NT1** thorium 230  
**NT1** thorium 232  
**NT1** thorium 234  
**NT1** thorium 236  
**NT1** thorium 238  
**NT1** tin 100  
**NT1** tin 102  
**NT1** tin 104  
**NT1** tin 106  
**NT1** tin 108  
**NT1** tin 110  
**NT1** tin 112  
**NT1** tin 114  
**NT1** tin 116  
**NT1** tin 118  
**NT1** tin 120  
**NT1** tin 122  
**NT1** tin 124  
**NT1** tin 126  
**NT1** tin 128  
**NT1** tin 130  
**NT1** tin 132  
**NT1** tin 134  
**NT1** tin 136  
**NT1** titanium 38  
**NT1** titanium 40  
**NT1** titanium 42  
**NT1** titanium 44  
**NT1** titanium 46  
**NT1** titanium 48  
**NT1** titanium 50  
**NT1** titanium 52  
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**NT1** titanium 56  
**NT1** titanium 58  
**NT1** titanium 60  
**NT1** titanium 62  
**NT1** tungsten 158  
**NT1** tungsten 160  
**NT1** tungsten 162  
**NT1** tungsten 164  
**NT1** tungsten 166  
**NT1** tungsten 168  
**NT1** tungsten 170  
**NT1** tungsten 172  
**NT1** tungsten 174  
**NT1** tungsten 176  
**NT1** tungsten 178  
**NT1** tungsten 180  
**NT1** tungsten 182  
**NT1** tungsten 184  
**NT1** tungsten 186  
**NT1** tungsten 188  
**NT1** tungsten 190  
**NT1** tungsten 192  
**NT1** uranium 218  
**NT1** uranium 220  
**NT1** uranium 222  
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**NT1** uranium 226  
**NT1** uranium 228  
**NT1** uranium 230  
**NT1** uranium 232  
**NT1** uranium 234  
**NT1** uranium 236  
**NT1** uranium 238  
**NT1** uranium 240  
**NT1** uranium 242  
**NT1** xenon 110  
**NT1** xenon 112  
**NT1** xenon 114  
**NT1** xenon 116  
**NT1** xenon 118

**NT1** xenon 120  
**NT1** xenon 122  
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**NT1** xenon 128  
**NT1** xenon 130  
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**NT1** xenon 134  
**NT1** xenon 136  
**NT1** xenon 138  
**NT1** xenon 140  
**NT1** xenon 142  
**NT1** xenon 144  
**NT1** xenon 146  
**NT1** ytterbium 148  
**NT1** ytterbium 150  
**NT1** ytterbium 152  
**NT1** ytterbium 154  
**NT1** ytterbium 156  
**NT1** ytterbium 158  
**NT1** ytterbium 160  
**NT1** ytterbium 162  
**NT1** ytterbium 164  
**NT1** ytterbium 166  
**NT1** ytterbium 168  
**NT1** ytterbium 170  
**NT1** ytterbium 172  
**NT1** ytterbium 174  
**NT1** ytterbium 176  
**NT1** ytterbium 178  
**NT1** ytterbium 180  
**NT1** zinc 54  
**NT1** zinc 56  
**NT1** zinc 58  
**NT1** zinc 60  
**NT1** zinc 62  
**NT1** zinc 64  
**NT1** zinc 66  
**NT1** zinc 68  
**NT1** zinc 70  
**NT1** zinc 72  
**NT1** zinc 74  
**NT1** zinc 76  
**NT1** zinc 78  
**NT1** zinc 80  
**NT1** zinc 82  
**NT1** zirconium 100  
**NT1** zirconium 102  
**NT1** zirconium 104  
**NT1** zirconium 106  
**NT1** zirconium 108  
**NT1** zirconium 110  
**NT1** zirconium 78  
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**NT1** zirconium 82  
**NT1** zirconium 84  
**NT1** zirconium 86  
**NT1** zirconium 88  
**NT1** zirconium 90  
**NT1** zirconium 92  
**NT1** zirconium 94  
**NT1** zirconium 96  
**NT1** zirconium 98  
*RT* nuclear structure

**EVEN-ODD NUCLEI***1998-01-27**Even protons, odd neutrons.*

**BT1** nuclei  
**NT1** argon 31  
**NT1** argon 33  
**NT1** argon 35  
**NT1** argon 37  
**NT1** argon 39  
**NT1** argon 41  
**NT1** argon 43  
**NT1** argon 45  
**NT1** argon 47  
**NT1** argon 49

NT1	argon 51	NT1	cerium 125	NT1	erbium 167
NT1	argon 53	NT1	cerium 127	NT1	erbium 169
NT1	barium 115	NT1	cerium 129	NT1	erbium 171
NT1	barium 117	NT1	cerium 131	NT1	erbium 173
NT1	barium 119	NT1	cerium 133	NT1	erbium 175
NT1	barium 121	NT1	cerium 135	NT1	erbium 177
NT1	barium 123	NT1	cerium 137	NT1	fermium 241
NT1	barium 125	NT1	cerium 139	NT1	fermium 243
NT1	barium 127	NT1	cerium 141	NT1	fermium 245
NT1	barium 129	NT1	cerium 143	NT1	fermium 247
NT1	barium 131	NT1	cerium 145	NT1	fermium 249
NT1	barium 133	NT1	cerium 147	NT1	fermium 251
NT1	barium 135	NT1	cerium 149	NT1	fermium 253
NT1	barium 137	NT1	cerium 151	NT1	fermium 255
NT1	barium 139	NT1	cerium 153	NT1	fermium 257
NT1	barium 141	NT1	cerium 155	NT1	fermium 259
NT1	barium 143	NT1	cerium 157	NT1	flerovium 285
NT1	barium 145	NT1	chromium 43	NT1	flerovium 287
NT1	barium 147	NT1	chromium 45	NT1	flerovium 289
NT1	barium 149	NT1	chromium 47	NT1	gadolinium 135
NT1	barium 151	NT1	chromium 49	NT1	gadolinium 137
NT1	barium 153	NT1	chromium 51	NT1	gadolinium 139
NT1	beryllium 11	NT1	chromium 53	NT1	gadolinium 141
NT1	beryllium 13	NT1	chromium 55	NT1	gadolinium 143
NT1	beryllium 15	NT1	chromium 57	NT1	gadolinium 145
NT1	beryllium 5	NT1	chromium 59	NT1	gadolinium 147
NT1	beryllium 7	NT1	chromium 61	NT1	gadolinium 149
NT1	beryllium 9	NT1	chromium 63	NT1	gadolinium 151
NT1	cadmium 101	NT1	chromium 65	NT1	gadolinium 153
NT1	cadmium 103	NT1	chromium 67	NT1	gadolinium 155
NT1	cadmium 105	NT1	copernicium 277	NT1	gadolinium 157
NT1	cadmium 107	NT1	copernicium 283	NT1	gadolinium 159
NT1	cadmium 109	NT1	copernicium 285	NT1	gadolinium 161
NT1	cadmium 111	NT1	curium 233	NT1	gadolinium 163
NT1	cadmium 113	NT1	curium 235	NT1	gadolinium 165
NT1	cadmium 115	NT1	curium 237	NT1	gadolinium 167
NT1	cadmium 117	NT1	curium 239	NT1	gadolinium 169
NT1	cadmium 119	NT1	curium 241	NT1	germanium 59
NT1	cadmium 121	NT1	curium 243	NT1	germanium 61
NT1	cadmium 123	NT1	curium 245	NT1	germanium 63
NT1	cadmium 125	NT1	curium 247	NT1	germanium 65
NT1	cadmium 127	NT1	curium 249	NT1	germanium 67
NT1	cadmium 129	NT1	curium 251	NT1	germanium 69
NT1	cadmium 131	NT1	darmstadtium 267	NT1	germanium 71
NT1	cadmium 95	NT1	darmstadtium 269	NT1	germanium 73
NT1	cadmium 97	NT1	darmstadtium 271	NT1	germanium 75
NT1	cadmium 99	NT1	darmstadtium 273	NT1	germanium 77
NT1	calcium 35	NT1	darmstadtium 279	NT1	germanium 79
NT1	calcium 37	NT1	darmstadtium 281	NT1	germanium 81
NT1	calcium 39	NT1	dysprosium 139	NT1	germanium 83
NT1	calcium 41	NT1	dysprosium 141	NT1	germanium 85
NT1	calcium 43	NT1	dysprosium 143	NT1	germanium 87
NT1	calcium 45	NT1	dysprosium 145	NT1	germanium 89
NT1	calcium 47	NT1	dysprosium 147	NT1	hafnium 153
NT1	calcium 49	NT1	dysprosium 149	NT1	hafnium 155
NT1	calcium 51	NT1	dysprosium 151	NT1	hafnium 157
NT1	calcium 53	NT1	dysprosium 153	NT1	hafnium 159
NT1	calcium 55	NT1	dysprosium 155	NT1	hafnium 161
NT1	calcium 57	NT1	dysprosium 157	NT1	hafnium 163
NT1	californium 237	NT1	dysprosium 159	NT1	hafnium 165
NT1	californium 239	NT1	dysprosium 161	NT1	hafnium 167
NT1	californium 241	NT1	dysprosium 163	NT1	hafnium 169
NT1	californium 243	NT1	dysprosium 165	NT1	hafnium 171
NT1	californium 245	NT1	dysprosium 167	NT1	hafnium 173
NT1	californium 247	NT1	dysprosium 169	NT1	hafnium 175
NT1	californium 249	NT1	dysprosium 171	NT1	hafnium 177
NT1	californium 251	NT1	dysprosium 173	NT1	hafnium 179
NT1	californium 253	NT1	erbium 143	NT1	hafnium 181
NT1	californium 255	NT1	erbium 145	NT1	hafnium 183
NT1	carbon 11	NT1	erbium 147	NT1	hafnium 185
NT1	carbon 13	NT1	erbium 149	NT1	hafnium 187
NT1	carbon 15	NT1	erbium 151	NT1	hassium 263
NT1	carbon 17	NT1	erbium 153	NT1	hassium 265
NT1	carbon 19	NT1	erbium 155	NT1	hassium 267
NT1	carbon 21	NT1	erbium 157	NT1	hassium 269
NT1	carbon 9	NT1	erbium 159	NT1	hassium 271
NT1	cerium 119	NT1	erbium 161	NT1	hassium 275
NT1	cerium 121	NT1	erbium 163	NT1	helium 3
NT1	cerium 123	NT1	erbium 165	NT2	helium 3 a

<b>NT2</b> helium 3 a1	<b>NT1</b> mercury 195	<b>NT1</b> osmium 167
<b>NT2</b> helium 3 b	<b>NT1</b> mercury 197	<b>NT1</b> osmium 169
<b>NT1</b> helium 5	<b>NT1</b> mercury 199	<b>NT1</b> osmium 171
<b>NT1</b> helium 7	<b>NT1</b> mercury 201	<b>NT1</b> osmium 173
<b>NT1</b> helium 9	<b>NT1</b> mercury 203	<b>NT1</b> osmium 175
<b>NT1</b> iron 45	<b>NT1</b> mercury 205	<b>NT1</b> osmium 177
<b>NT1</b> iron 47	<b>NT1</b> mercury 207	<b>NT1</b> osmium 179
<b>NT1</b> iron 49	<b>NT1</b> mercury 209	<b>NT1</b> osmium 181
<b>NT1</b> iron 51	<b>NT1</b> mercury 211	<b>NT1</b> osmium 183
<b>NT1</b> iron 53	<b>NT1</b> molybdenum 101	<b>NT1</b> osmium 185
<b>NT1</b> iron 55	<b>NT1</b> molybdenum 103	<b>NT1</b> osmium 187
<b>NT1</b> iron 57	<b>NT1</b> molybdenum 105	<b>NT1</b> osmium 189
<b>NT1</b> iron 59	<b>NT1</b> molybdenum 107	<b>NT1</b> osmium 191
<b>NT1</b> iron 61	<b>NT1</b> molybdenum 109	<b>NT1</b> osmium 193
<b>NT1</b> iron 63	<b>NT1</b> molybdenum 111	<b>NT1</b> osmium 195
<b>NT1</b> iron 65	<b>NT1</b> molybdenum 113	<b>NT1</b> osmium 197
<b>NT1</b> iron 67	<b>NT1</b> molybdenum 115	<b>NT1</b> osmium 199
<b>NT1</b> iron 69	<b>NT1</b> molybdenum 83	<b>NT1</b> oxygen 13
<b>NT1</b> iron 71	<b>NT1</b> molybdenum 85	<b>NT1</b> oxygen 15
<b>NT1</b> krypton 69	<b>NT1</b> molybdenum 87	<b>NT1</b> oxygen 17
<b>NT1</b> krypton 71	<b>NT1</b> molybdenum 89	<b>NT1</b> oxygen 19
<b>NT1</b> krypton 73	<b>NT1</b> molybdenum 91	<b>NT1</b> oxygen 21
<b>NT1</b> krypton 75	<b>NT1</b> molybdenum 93	<b>NT1</b> oxygen 23
<b>NT1</b> krypton 77	<b>NT1</b> molybdenum 95	<b>NT1</b> oxygen 25
<b>NT1</b> krypton 79	<b>NT1</b> molybdenum 97	<b>NT1</b> oxygen 27
<b>NT1</b> krypton 81	<b>NT1</b> molybdenum 99	<b>NT1</b> palladium 101
<b>NT1</b> krypton 83	<b>NT1</b> neodymium 125	<b>NT1</b> palladium 103
<b>NT1</b> krypton 85	<b>NT1</b> neodymium 127	<b>NT1</b> palladium 105
<b>NT1</b> krypton 87	<b>NT1</b> neodymium 129	<b>NT1</b> palladium 107
<b>NT1</b> krypton 89	<b>NT1</b> neodymium 131	<b>NT1</b> palladium 109
<b>NT1</b> krypton 91	<b>NT1</b> neodymium 133	<b>NT1</b> palladium 111
<b>NT1</b> krypton 93	<b>NT1</b> neodymium 135	<b>NT1</b> palladium 113
<b>NT1</b> krypton 95	<b>NT1</b> neodymium 137	<b>NT1</b> palladium 115
<b>NT1</b> krypton 97	<b>NT1</b> neodymium 139	<b>NT1</b> palladium 117
<b>NT1</b> krypton 99	<b>NT1</b> neodymium 141	<b>NT1</b> palladium 119
<b>NT1</b> lead 179	<b>NT1</b> neodymium 143	<b>NT1</b> palladium 121
<b>NT1</b> lead 181	<b>NT1</b> neodymium 145	<b>NT1</b> palladium 123
<b>NT1</b> lead 183	<b>NT1</b> neodymium 147	<b>NT1</b> palladium 91
<b>NT1</b> lead 185	<b>NT1</b> neodymium 149	<b>NT1</b> palladium 93
<b>NT1</b> lead 187	<b>NT1</b> neodymium 151	<b>NT1</b> palladium 95
<b>NT1</b> lead 189	<b>NT1</b> neodymium 153	<b>NT1</b> palladium 97
<b>NT1</b> lead 191	<b>NT1</b> neodymium 155	<b>NT1</b> palladium 99
<b>NT1</b> lead 193	<b>NT1</b> neodymium 157	<b>NT1</b> platinum 167
<b>NT1</b> lead 195	<b>NT1</b> neodymium 159	<b>NT1</b> platinum 169
<b>NT1</b> lead 197	<b>NT1</b> neodymium 161	<b>NT1</b> platinum 171
<b>NT1</b> lead 199	<b>NT1</b> neon 17	<b>NT1</b> platinum 173
<b>NT1</b> lead 201	<b>NT1</b> neon 19	<b>NT1</b> platinum 175
<b>NT1</b> lead 203	<b>NT1</b> neon 21	<b>NT1</b> platinum 177
<b>NT1</b> lead 205	<b>NT1</b> neon 23	<b>NT1</b> platinum 179
<b>NT1</b> lead 207	<b>NT1</b> neon 25	<b>NT1</b> platinum 181
<b>NT1</b> lead 209	<b>NT1</b> neon 27	<b>NT1</b> platinum 183
<b>NT1</b> lead 211	<b>NT1</b> neon 29	<b>NT1</b> platinum 185
<b>NT1</b> lead 213	<b>NT1</b> neon 31	<b>NT1</b> platinum 187
<b>NT1</b> lead 215	<b>NT1</b> neon 33	<b>NT1</b> platinum 189
<b>NT1</b> livermorium 291	<b>NT1</b> nickel 49	<b>NT1</b> platinum 191
<b>NT1</b> livermorium 293	<b>NT1</b> nickel 51	<b>NT1</b> platinum 193
<b>NT1</b> magnesium 19	<b>NT1</b> nickel 53	<b>NT1</b> platinum 195
<b>NT1</b> magnesium 21	<b>NT1</b> nickel 55	<b>NT1</b> platinum 197
<b>NT1</b> magnesium 23	<b>NT1</b> nickel 57	<b>NT1</b> platinum 199
<b>NT1</b> magnesium 25	<b>NT1</b> nickel 59	<b>NT1</b> platinum 201
<b>NT1</b> magnesium 27	<b>NT1</b> nickel 61	<b>NT1</b> platinum 203
<b>NT1</b> magnesium 29	<b>NT1</b> nickel 63	<b>NT1</b> platinum 205
<b>NT1</b> magnesium 31	<b>NT1</b> nickel 65	<b>NT1</b> platinum 207
<b>NT1</b> magnesium 33	<b>NT1</b> nickel 67	<b>NT1</b> plutonium 229
<b>NT1</b> magnesium 35	<b>NT1</b> nickel 69	<b>NT1</b> plutonium 231
<b>NT1</b> magnesium 37	<b>NT1</b> nickel 71	<b>NT1</b> plutonium 233
<b>NT1</b> magnesium 39	<b>NT1</b> nickel 73	<b>NT1</b> plutonium 235
<b>NT1</b> mercury 171	<b>NT1</b> nickel 75	<b>NT1</b> plutonium 237
<b>NT1</b> mercury 173	<b>NT1</b> nickel 77	<b>NT1</b> plutonium 239
<b>NT1</b> mercury 175	<b>NT1</b> nobelium 251	<b>NT1</b> plutonium 241
<b>NT1</b> mercury 177	<b>NT1</b> nobelium 253	<b>NT1</b> plutonium 243
<b>NT1</b> mercury 179	<b>NT1</b> nobelium 255	<b>NT1</b> plutonium 245
<b>NT1</b> mercury 181	<b>NT1</b> nobelium 257	<b>NT1</b> plutonium 247
<b>NT1</b> mercury 183	<b>NT1</b> nobelium 259	<b>NT1</b> polonium 187
<b>NT1</b> mercury 185	<b>NT1</b> nobelium 261	<b>NT1</b> polonium 189
<b>NT1</b> mercury 187	<b>NT1</b> nobelium 263	<b>NT1</b> polonium 191
<b>NT1</b> mercury 189	<b>NT1</b> osmium 161	<b>NT1</b> polonium 193
<b>NT1</b> mercury 191	<b>NT1</b> osmium 163	<b>NT1</b> polonium 195
<b>NT1</b> mercury 193	<b>NT1</b> osmium 165	<b>NT1</b> polonium 197

NT1	polonium 199	NT1	samarium 143	NT1	tellurium 119
NT1	polonium 201	NT1	samarium 145	NT1	tellurium 121
NT1	polonium 203	NT1	samarium 147	NT1	tellurium 123
NT1	polonium 205	NT1	samarium 149	NT1	tellurium 125
NT1	polonium 207	NT1	samarium 151	NT1	tellurium 127
NT1	polonium 209	NT1	samarium 153	NT1	tellurium 129
NT1	polonium 211	NT1	samarium 155	NT1	tellurium 131
NT1	polonium 213	NT1	samarium 157	NT1	tellurium 133
NT1	polonium 215	NT1	samarium 159	NT1	tellurium 135
NT1	polonium 217	NT1	samarium 161	NT1	tellurium 137
NT1	polonium 219	NT1	samarium 163	NT1	tellurium 139
NT1	radium 201	NT1	samarium 165	NT1	tellurium 141
NT1	radium 203	NT1	seaborgium 259	NT1	thorium 209
NT1	radium 205	NT1	seaborgium 261	NT1	thorium 211
NT1	radium 207	NT1	seaborgium 263	NT1	thorium 213
NT1	radium 209	NT1	seaborgium 265	NT1	thorium 215
NT1	radium 211	NT1	seaborgium 271	NT1	thorium 217
NT1	radium 213	NT1	seaborgium 273	NT1	thorium 219
NT1	radium 215	NT1	selenium 65	NT1	thorium 221
NT1	radium 217	NT1	selenium 67	NT1	thorium 222
NT1	radium 219	NT1	selenium 69	NT1	thorium 223
NT1	radium 221	NT1	selenium 71	NT1	thorium 225
NT1	radium 223	NT1	selenium 73	NT1	thorium 227
NT1	radium 225	NT1	selenium 75	NT1	thorium 229
NT1	radium 227	NT1	selenium 77	NT1	thorium 231
NT1	radium 229	NT1	selenium 79	NT1	thorium 233
NT1	radium 231	NT1	selenium 81	NT1	thorium 235
NT1	radium 233	NT1	selenium 83	NT1	thorium 237
NT1	radon 193	NT1	selenium 85	NT1	tin 101
NT1	radon 195	NT1	selenium 87	NT1	tin 103
NT1	radon 197	NT1	selenium 89	NT1	tin 105
NT1	radon 199	NT1	selenium 91	NT1	tin 107
NT1	radon 201	NT1	silicon 23	NT1	tin 109
NT1	radon 203	NT1	silicon 25	NT1	tin 111
NT1	radon 205	NT1	silicon 27	NT1	tin 113
NT1	radon 207	NT1	silicon 29	NT1	tin 115
NT1	radon 209	NT1	silicon 31	NT1	tin 117
NT1	radon 211	NT1	silicon 33	NT1	tin 119
NT1	radon 213	NT1	silicon 35	NT1	tin 121
NT1	radon 215	NT1	silicon 37	NT1	tin 123
NT1	radon 217	NT1	silicon 39	NT1	tin 125
NT1	radon 219	NT1	silicon 41	NT1	tin 127
NT1	radon 221	NT1	silicon 43	NT1	tin 129
NT1	radon 223	NT1	strontium 101	NT1	tin 131
NT1	radon 225	NT1	strontium 103	NT1	tin 133
NT1	radon 227	NT1	strontium 105	NT1	tin 135
NT1	radon 229	NT1	strontium 73	NT1	tin 137
NT1	ruthenium 101	NT1	strontium 75	NT1	tin 99
NT1	ruthenium 103	NT1	strontium 77	NT1	titanium 39
NT1	ruthenium 105	NT1	strontium 79	NT1	titanium 41
NT1	ruthenium 107	NT1	strontium 81	NT1	titanium 43
NT1	ruthenium 109	NT1	strontium 83	NT1	titanium 45
NT1	ruthenium 111	NT1	strontium 85	NT1	titanium 47
NT1	ruthenium 113	NT1	strontium 87	NT1	titanium 49
NT1	ruthenium 115	NT1	strontium 89	NT1	titanium 51
NT1	ruthenium 117	NT1	strontium 91	NT1	titanium 53
NT1	ruthenium 119	NT1	strontium 93	NT1	titanium 55
NT1	ruthenium 87	NT1	strontium 95	NT1	titanium 57
NT1	ruthenium 89	NT1	strontium 97	NT1	titanium 59
NT1	ruthenium 91	NT1	strontium 99	NT1	titanium 61
NT1	ruthenium 93	NT1	sulfur 27	NT1	titanium 63
NT1	ruthenium 95	NT1	sulfur 29	NT1	tungsten 157
NT1	ruthenium 97	NT1	sulfur 31	NT1	tungsten 159
NT1	ruthenium 99	NT1	sulfur 33	NT1	tungsten 161
NT1	rutherfordium 253	NT1	sulfur 35	NT1	tungsten 163
NT1	rutherfordium 255	NT1	sulfur 37	NT1	tungsten 165
NT1	rutherfordium 257	NT1	sulfur 39	NT1	tungsten 167
NT1	rutherfordium 259	NT1	sulfur 41	NT1	tungsten 169
NT1	rutherfordium 261	NT1	sulfur 43	NT1	tungsten 171
NT1	rutherfordium 263	NT1	sulfur 45	NT1	tungsten 173
NT1	rutherfordium 265	NT1	sulfur 47	NT1	tungsten 175
NT1	rutherfordium 267	NT1	sulfur 49	NT1	tungsten 177
NT1	samarium 129	NT1	tellurium 105	NT1	tungsten 179
NT1	samarium 131	NT1	tellurium 107	NT1	tungsten 181
NT1	samarium 133	NT1	tellurium 109	NT1	tungsten 183
NT1	samarium 135	NT1	tellurium 111	NT1	tungsten 185
NT1	samarium 137	NT1	tellurium 113	NT1	tungsten 187
NT1	samarium 139	NT1	tellurium 115	NT1	tungsten 189
NT1	samarium 141	NT1	tellurium 117	NT1	tungsten 191

NT1 uranium 217  
 NT1 uranium 219  
 NT1 uranium 221  
 NT1 uranium 223  
 NT1 uranium 225  
 NT1 uranium 227  
 NT1 uranium 229  
 NT1 uranium 231  
 NT1 uranium 233  
 NT1 uranium 235  
 NT1 uranium 237  
 NT1 uranium 239  
 NT1 uranium 241  
 NT1 xenon 109  
 NT1 xenon 111  
 NT1 xenon 113  
 NT1 xenon 115  
 NT1 xenon 117  
 NT1 xenon 119  
 NT1 xenon 121  
 NT1 xenon 123  
 NT1 xenon 125  
 NT1 xenon 127  
 NT1 xenon 129  
 NT1 xenon 131  
 NT1 xenon 133  
 NT1 xenon 135  
 NT1 xenon 137  
 NT1 xenon 139  
 NT1 xenon 141  
 NT1 xenon 143  
 NT1 xenon 145  
 NT1 xenon 147  
 NT1 ytterbium 149  
 NT1 ytterbium 151  
 NT1 ytterbium 153  
 NT1 ytterbium 155  
 NT1 ytterbium 157  
 NT1 ytterbium 159  
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 NT1 ytterbium 167  
 NT1 ytterbium 169  
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 NT1 ytterbium 175  
 NT1 ytterbium 177  
 NT1 ytterbium 179  
 NT1 ytterbium 181  
 NT1 zinc 55  
 NT1 zinc 57  
 NT1 zinc 59  
 NT1 zinc 61  
 NT1 zinc 63  
 NT1 zinc 65  
 NT1 zinc 67  
 NT1 zinc 69  
 NT1 zinc 71  
 NT1 zinc 73  
 NT1 zinc 75  
 NT1 zinc 77  
 NT1 zinc 79  
 NT1 zinc 81  
 NT1 zinc 83  
 NT1 zirconium 101  
 NT1 zirconium 103  
 NT1 zirconium 105  
 NT1 zirconium 107  
 NT1 zirconium 109  
 NT1 zirconium 79  
 NT1 zirconium 81  
 NT1 zirconium 83  
 NT1 zirconium 85  
 NT1 zirconium 87  
 NT1 zirconium 89  
 NT1 zirconium 91  
 NT1 zirconium 93  
 NT1 zirconium 95

NT1 zirconium 97  
 NT1 zirconium 99  
 RT nuclear structure

### event tree analysis

USE failure mode analysis

### events (chemical explosions)

ETDE: 2002-06-13

See also under CHEMICAL EXPLOSIONS the list of specific chemical explosion events.

USE chemical explosions

### events (nuclear explosions)

ETDE: 2002-06-13

See also under NUCLEAR EXPLOSIONS the list of specific named nuclear events.

USE nuclear explosions

### EVERGLADES NATIONAL PARK

INIS: 1992-06-04; ETDE: 1975-10-28

SF parks

BT1 public lands

RT florida

RT swamps

### EVOLUTION

INIS: 2000-04-12; ETDE: 1978-02-14

A process of development, as from a simple to a complex form.

NT1 biological evolution

NT1 galactic evolution

NT1 mathematical evolution

NT1 solar system evolution

NT1 star evolution

NT2 r process

NT2 s process

NT2 star accretion

### EVOLUTION EQUATIONS

2017-10-05

\*BT1 differential equations

RT mathematical evolution

RT time dependence

### EVSR REACTOR

2000-04-12

Vallecitos, California, USA.

UF vallecitos reactor

\*BT1 enriched uranium reactors

\*BT1 power reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

### EWA REACTOR

Inst. of Nuclear Research, Swierk, Poland.

UF swierk ewa reactor

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

### EWG-1 REACTOR

INIS: 2003-11-26; ETDE: 2003-12-03

National Nuclear Center of the Republic of Kazakhstan, Kurchatov city, East Kazakhstan.

UF ewg-1m reactor

UF iwg-1m reactor

UF kazakhstan ewg-1 reactor

\*BT1 beryllium moderated reactors

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 gas cooled reactors

\*BT1 materials testing reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

### ewg-1m reactor

INIS: 2003-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

USE ewg-1 reactor

### EXACT SOLUTIONS

INIS: 2003-06-19; ETDE: 2003-07-29

BT1 mathematical solutions

RT functions

RT mathematical models

RT series expansion

### EXAWATT POWER RANGE

INIS: 2003-08-15; ETDE: 2002-09-17

From 10 exp 18 to 10 exp 21 W.

BT1 power range

NT1 power range 01-10 ew

NT1 power range 10-100 ew

NT1 power range 100-1000 ew

### EXCAVATION

NT1 nuclear excavation

RT cavities

RT construction

RT craters

RT draglines

RT dredging

RT earthmoving equipment

RT explosions

RT mining

RT nuclear explosions

RT shaft excavations

RT slope stability

RT subterrene penetrators

RT surface mining

RT tunneling machines

RT tunnels

RT underground mining

### excavators

INIS: 1983-06-30; ETDE: 1978-05-03

USE earthmoving equipment

### EXCEPTIONAL NATURAL DISASTER

INIS: 1999-02-24; ETDE: 2002-01-30

In the legal sense when so declared by the competent authority in relation to compensation for damages.

UF disaster (exceptional natural)

UF natural disaster (exceptional)

BT1 natural disasters

RT earthquakes

RT floods

RT liabilities

RT victims compensation

### EXCEPTIONS

INIS: 2000-04-12; ETDE: 1979-12-10

SF exemptions

BT1 administrative procedures

### excess costs

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to April 1994, this was a valid ETDE descriptor.)

USE cost

### exchange (charge)

USE charge exchange

### exchange (electron)

USE electron exchange

### exchange (heat)

USE heat transfer

### exchange (ion)

USE ion exchange

### exchange (isotopic)

USE isotopic exchange



**EXCHANGE DEGENERACY**

RT regge poles

**EXCHANGE INTERACTIONS**

*Not for chemical reactions.*

BT1 interactions  
 RT cim model  
 RT morrison rule  
 RT quark-hadron interactions  
 RT spin exchange

**exchange models**

USE peripheral models

**exchange rate**

INIS: 1992-07-23; ETDE: 1984-09-21  
 USE foreign exchange rate

**EXCIMER LASERS**

INIS: 1997-06-17; ETDE: 1984-05-08  
*Lasers whose lasing medium is a dimer that exists in the excited state and dissociates in the ground state.*

\*BT1 gas lasers  
 NT1 krypton chloride lasers  
 NT1 krypton fluoride lasers

**EXCISION REPAIR**

1995-01-10  
 \*BT1 dna repair

**EXCITATION**

*Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state.*

UF core polarization (nuclei)  
 BT1 energy-level transitions  
 NT1 collective excitations  
 NT1 coulomb excitation  
 NT1 inner-shell excitation  
 RT activation energy  
 RT chemical activation  
 RT de-excitation  
 RT electron beam pumping  
 RT excited states  
 RT fission barrier  
 RT optical pumping

**EXCITATION FUNCTIONS**

1999-05-19  
 (Prior to July 1996 GERJUOY-STEIN THEORY was a valid ETDE descriptor.)  
 SF gerjuoy-stein theory  
 \*BT1 differential cross sections  
 BT1 functions  
 RT energy dependence  
 RT integral cross sections  
 RT nuclear reactions  
 RT total cross sections

**EXCITATION SYSTEMS**

INIS: 2000-04-12; ETDE: 1978-04-05  
*Equipment for providing field current for an a-c generator or similar device.*  
 UF exciters  
 RT control equipment  
 RT electric currents  
 RT electric fields  
 RT electric generators  
 RT electrical equipment

**EXCITED STATES**

BT1 energy levels  
 NT1 metastable states  
 NT1 rotational states  
 NT1 rydberg states  
 NT1 vibrational states  
 RT excitation

**exciters**

INIS: 2000-04-12; ETDE: 1978-04-05  
 USE excitation systems

**EXCITON MODEL**

INIS: 1982-01-13; ETDE: 1979-05-09  
 \*BT1 nuclear models

**EXCITONS**

UF biexcitons  
 BT1 quasi particles  
 RT electron-hole droplets

**exclusion principle**

USE pauli principle

**exclusions (liability)**

INIS: 1976-12-08; ETDE: 1994-08-10  
 USE liability exclusions

**EXCLUSIVE INTERACTIONS**

*The group of all interactions of two particles producing a specific final state but excluding the final-state particle itself.*

\*BT1 particle interactions  
 NT1 semi-exclusive interactions  
 RT inclusive interactions

**exclusive liability**

INIS: 1990-12-15; ETDE: 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
 USE liabilities

**EXCRETION**

UF excretion analysis  
 BT1 clearance  
 NT1 exhalation  
 NT1 lung clearance  
 NT1 renal clearance  
 RT biological wastes  
 RT body fluids  
 RT feces  
 RT glands  
 RT glucuronide conjugates  
 RT glutathione conjugates  
 RT kidneys  
 RT large intestine  
 RT lavage  
 RT phagocytosis  
 RT physiology  
 RT radionuclide kinetics  
 RT retention  
 RT secretion  
 RT sweat  
 RT urinary tract  
 RT urine

**excretion analysis**

USE excretion  
 USE personnel monitoring

**excretion functions**

USE retention functions

**EXCURSIONS**

UF power excursions  
 UF runaway (reactor accident)  
 \*BT1 reactor accidents  
 RT hazards  
 RT reactors

**EXECUTIVE CODES**

INIS: 1988-11-16; ETDE: 1983-08-25  
*A digital computer code that controls other codes, allocates storage to these codes and controls the servicing of peripheral devices.*

UF monitor codes  
 UF operating systems (computer)  
 UF supervisor codes  
 BT1 computer codes  
 RT memory management  
 RT programming  
 RT task scheduling

**EXECUTIVE ORDERS**

INIS: 2000-04-12; ETDE: 1983-05-21  
 RT laws  
 RT legal aspects  
 RT regulations

**exemptions**

INIS: 2000-04-12; ETDE: 1980-11-25  
 SEE exceptions

**EXERCISE**

UF physical effort  
 UF swimming  
 RT biological fatigue  
 RT biological stress  
 RT muscles

**EXERGY**

INIS: 1980-02-26; ETDE: 1980-03-29  
*That portion of energy which is converted into the desired, economically utilizable form.*  
 BT1 energy  
 RT thermodynamics

**EXHALATION**

\*BT1 excretion  
 RT breath  
 RT lung clearance

**exhaust gas recirculation systems**

INIS: 1992-07-07; ETDE: 1976-01-07  
 USE exhaust recirculation systems

**EXHAUST GASES**

1991-10-24  
 SF emissions (industrial)  
 \*BT1 gaseous wastes  
 \*BT1 gases  
 RT afterburners  
 RT automobiles  
 RT catalytic converters  
 RT combustion products  
 RT emissions tax  
 RT emissions trading  
 RT exhaust recirculation systems  
 RT exhaust systems  
 RT federal test procedure  
 RT internal combustion engines

**EXHAUST RECIRCULATION SYSTEMS**

INIS: 1992-07-07; ETDE: 1976-01-07  
 UF egr systems  
 UF exhaust gas recirculation systems  
 BT1 exhaust systems  
 \*BT1 pollution control equipment  
 RT air pollution control  
 RT automobiles  
 RT combustion  
 RT exhaust gases

**EXHAUST SYSTEMS**

INIS: 1983-03-15; ETDE: 1977-03-08  
 NT1 exhaust recirculation systems  
 RT afterburners  
 RT air pollution  
 RT chimneys  
 RT divertors  
 RT exhaust gases  
 RT ventilation

**EXHIBITS**

INIS: 1993-06-07; ETDE: 1979-05-31  
 RT educational facilities  
 RT educational tools

**EXINITE**

INIS: 2000-04-12; ETDE: 1987-07-24  
 UF liptinite  
 BT1 macerals

**EXOELECTRON DOSEMETERS**

\*BT1 dosimeters

**EXOELECTRONS**

\*BT1 electrons

**EXONS**

INIS: 1995-06-09; ETDE: 1995-05-05

RT dna  
 RT gene regulation  
 RT genes  
 RT introns  
 RT messenger-rna  
 RT splicing

**EXOSKELETON**

\*BT1 skeleton  
 RT echinoderms

**EXOSPHERE**

BT1 earth atmosphere

**exotic atoms**

USE hadronic atoms

**EXOTIC RESONANCES**

*Resonance states not accommodated by the naive quark model.*

\*BT1 resonance particles

**EXPANSION**

*Increase in size or volume, not for the concept covered by SERIES EXPANSION.*

NT1 plasma expansion  
 NT1 thermal expansion  
 RT augmentation  
 RT contraction  
 RT cosmological models  
 RT elongation  
 RT hubble effect  
 RT solar wind  
 RT swelling

**EXPANSION CHAMBERS**

\*BT1 cloud chambers

**EXPANSION JOINTS**

INIS: 1975-10-09; ETDE: 1975-12-16

BT1 joints  
 RT bellows  
 RT contraction  
 RT pipe fittings  
 RT pipe joints  
 RT thermal expansion

**EXPECTATION VALUE**

RT eigenfunctions  
 RT eigenvalues  
 RT probability  
 RT quantum mechanics  
 RT statistics

**EXPENDITURES**

INIS: 1992-04-09; ETDE: 1981-07-06

UF federal expenditures  
 UF government spending  
 UF spending  
 RT budgets  
 RT capital  
 RT cost  
 RT economics  
 RT financing

**experience critique orgel**

USE eco reactor

**EXPERIMENT DESIGN**

2015-11-26

*Procedure and conditions for testing a hypothesis in experimental physics*

RT experiment planning  
 RT experiment results

**EXPERIMENT PLANNING**

INIS: 1985-12-10; ETDE: 1975-09-11

BT1 planning  
 RT demonstration programs  
 RT experiment design  
 RT experiment results  
 RT research programs

**EXPERIMENT RESULTS**

2015-11-26

*Use when important experimental results are discussed*

RT experiment design  
 RT experiment planning

**experimental advanced superconducting tokamak**

2006-07-25

USE ht-7u tokamak

**experimental beryllium oxide reactor**

1993-11-08

USE ebor reactor

**experimental boiling water reactor**

2000-04-12

USE ebwr reactor

**experimental breeder reactor-1**

2000-04-12

USE ebr-1 reactor

**experimental breeder reactor-2**

2000-04-12

USE ebr-2 reactor

**EXPERIMENTAL CHANNELS**

UF irradiation channels  
 \*BT1 reactor channels  
 \*BT1 reactor experimental facilities  
 RT in pile loops  
 RT irradiation capsules

**EXPERIMENTAL DATA**

INIS: 1978-10-20; ETDE: 1979-02-27

*Use only in conjunction with literary indicator N for data flagging.*

\*BT1 numerical data  
 RT benchmarks

**experimental facilities (accelerator)**

1993-11-08

**experimental facilities (reactor)**

INIS: 2000-04-12; ETDE: 1977-03-04

USE reactor experimental facilities

**experimental gas cooled reactor**

2000-04-12

USE egr reactor

**experimental graphite reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

*Kurchatov city, East Kazakhstan.*

USE igr reactor

**EXPERIMENTAL NEOPLASMS**

1999-07-08

UF jensen sarcoma  
 UF walker carcinoma  
 UF yoshida sarcoma  
 \*BT1 neoplasms  
 NT1 ehrlich ascites tumor  
 RT leukemia viruses

**experimental organic cooled reactor**

2000-04-12

USE eocr reactor

**experimental propulsion test reactor**

1993-11-08

SEE tory-2a reactor

SEE tory-2c reactor

**EXPERIMENTAL REACTORS**

1998-01-29

*For engineering testing of reactor components such as fuel elements, cooling systems, etc.*

UF br-3-vn reactor  
 UF lcre reactor  
 UF lithium cooled reactor experiment  
 \*BT1 research and test reactors  
 NT1 aps reactor  
 NT1 arbus reactor  
 NT1 atrc reactor  
 NT1 bilibin reactor  
 NT1 bor-60 reactor  
 NT1 borax-1 reactor  
 NT1 borax-2 reactor  
 NT1 borax-3 reactor  
 NT1 borax-4 reactor  
 NT1 brest-od-300 reactor  
 NT1 cefr reactor  
 NT1 cesar reactor  
 NT1 dfr reactor  
 NT1 dragon reactor  
 NT1 ebr-1 reactor  
 NT1 ebr-2 reactor  
 NT1 ebwr reactor  
 NT1 egr reactor  
 NT1 el-1 reactor  
 NT1 eocr reactor  
 NT1 esada-vesr reactor  
 NT1 ewg-1 reactor  
 NT1 gcre reactor  
 NT1 hbwr reactor  
 NT1 hdr reactor  
 NT1 hre-2 reactor  
 NT1 htr-10 reactor  
 NT1 httr reactor  
 NT1 igr reactor  
 NT1 ir-100 reactor  
 NT1 joyo reactor  
 NT1 jpdr reactor  
 NT1 jules horowitz reactor  
 NT1 kiwi-tnt reactor  
 NT1 knk-2 reactor  
 NT1 knk reactor  
 NT1 lampre-1 reactor  
 NT1 mh-1a reactor  
 NT1 mir reactor  
 NT1 msre reactor  
 NT1 nrx-a1 reactor  
 NT1 nrx-a2 reactor  
 NT1 nrx-a3 reactor  
 NT1 nrx-a4-est reactor  
 NT1 nrx-a5 reactor  
 NT1 nrx-a6 reactor  
 NT1 nrx-a7 reactor  
 NT1 omre reactor  
 NT1 opal reactor  
 NT1 rover reactors  
 NT1 sefor reactor  
 NT1 spert-1 reactor  
 NT1 spert-2 reactor  
 NT1 spert-3 reactor  
 NT1 spert-4 reactor  
 NT1 sre reactor  
 NT1 subcritical assemblies  
 NT2 accelerator-driven subcritical systems  
 NT3 accelerator-driven transmutation facilities  
 NT3 brahma facility  
 NT3 myrrha facility  
 NT3 venus reactor  
 NT3 yalina facility  
 NT2 entc lwsr reactor  
 NT2 pse reactor  
 NT2 sm-1 subcritical assembly  
 NT2 stsf assembly

NT2 venus-1 reactor  
 NT1 topaz reactor  
 NT1 tory-2a reactor  
 NT1 tory-2c reactor  
 NT1 treat reactor  
 NT1 tz1 reactor  
 NT1 tz2 reactor  
 NT1 uhtrex reactor  
 NT1 venus reactor  
 NT1 vhtr reactor  
 NT1 xe-2 reactor  
 NT1 xe-prime reactor  
 NT1 xma-1 reactor  
 NT1 zero power reactors  
 NT2 agata reactor  
 NT2 akr-1 reactor  
 NT2 anex reactor  
 NT2 anna reactor  
 NT2 apfa-3 reactor  
 NT2 aquilon reactor  
 NT2 bfs reactor  
 NT2 big ten reactor  
 NT2 cfrmf reactor  
 NT2 cml reactor  
 NT2 coral-1 reactor  
 NT2 crocus reactor  
 NT2 dca reactor  
 NT2 dimple reactor  
 NT2 ecel reactor  
 NT2 entc lwsr reactor  
 NT2 ermine reactor  
 NT2 etrc reactor  
 NT2 fca reactor  
 NT2 flattop reactor  
 NT2 fr-0 reactor  
 NT2 giacint reactor  
 NT2 godiva reactor  
 NT2 hero reactor  
 NT2 hitrex-1 reactor  
 NT2 horace reactor  
 NT2 hzwpr reactor  
 NT2 iea-zpr reactor  
 NT2 ifr reactor  
 NT2 ipen-mb-1 reactor  
 NT2 jezebel reactor  
 NT2 juno reactor  
 NT2 kahter reactor  
 NT2 kbr-1 reactor  
 NT2 kritz reactor  
 NT2 kuca reactor  
 NT2 lptf reactor  
 NT2 lr-0 reactor  
 NT2 lvr-15 reactor  
 NT2 marius reactor  
 NT2 maryla reactor  
 NT2 masurca reactor  
 NT2 minerve reactor  
 NT2 neptune reactor  
 NT2 nsf-rfp reactor  
 NT2 or-cef reactor  
 NT2 ornl-pca reactor  
 NT2 parka reactor  
 NT2 pdp reactor  
 NT2 peggy reactor  
 NT2 pelinduna reactor  
 NT2 plasma core assembly  
 NT2 prcf reactor  
 NT2 ptf-unc reactor  
 NT2 purmima-2 reactor  
 NT2 purmima reactor  
 NT2 r-b reactor  
 NT2 ra-0 reactor  
 NT2 ra-2 reactor  
 NT2 ra-8 reactor  
 NT2 rake-2 reactor  
 NT2 rb-1 reactor  
 NT2 rb-3 reactor  
 NT2 rensselaer critical facility  
 NT2 ritmo reactor

NT2 rospo reactor  
 NT2 saref reactor  
 NT2 shea reactor  
 NT2 silene reactor  
 NT2 siloette reactor  
 NT2 sm-1 subcritical assembly  
 NT2 sneak reactor  
 NT2 split table reactor  
 NT2 sr-0a reactor  
 NT2 stacy reactor  
 NT2 tca reactor  
 NT2 tr-0 reactor  
 NT2 tracy reactor  
 NT2 vera reactor  
 NT2 zebra reactor  
 NT2 zeep reactor  
 NT2 zenith reactor  
 NT2 zephyr reactor  
 NT2 zerlina reactor  
 NT2 zlfr reactor  
 NT2 zppr reactor  
 NT2 zpr-3 reactor  
 NT2 zpr-6 reactor  
 NT2 zpr-9 reactor  
 NT2 zpr reactor  
 NT2 zr-6 reactor  
 NT1 zrr reactor

### *experimental very high temperature gas cooled reactor*

INIS: 1978-01-16; ETDE: 2002-06-13

USE vhtr reactor

### EXPERT SYSTEMS

INIS: 1986-09-26; ETDE: 1985-09-24

*Computer programs comprising a knowledge-based component, constructed from an expert skill, operating in such a way that the system can offer intelligent advice or make an intelligent decision about a processing function.*

RT artificial intelligence  
 RT data processing  
 RT knowledge base  
 RT machine translations  
 RT neural networks  
 RT programming

### EXPLODING WIRES

BT1 wires  
 RT detonators

### exploitation

2000-03-27

SEE resource exploitation

### EXPLORATION

NT1 geothermal exploration  
 RT aerial prospecting  
 RT electrical surveys  
 RT exploratory wells  
 RT geochemical surveys  
 RT geologic surveys  
 RT geophysical surveys  
 RT landsat satellites  
 RT magnetic surveys  
 RT petroleum geology  
 RT prospecting  
 RT radiometric surveys  
 RT remote sensing  
 RT resource potential

### EXPLORATORY WELLS

INIS: 1992-07-08; ETDE: 1979-01-30

UF test wells  
 BT1 wells  
 RT boreholes  
 RT exploration  
 RT geothermal exploration  
 RT geothermal wells

RT natural gas wells  
 RT oil wells  
 RT well drilling

### EXPLORER SATELLITES

BT1 satellites

### EXPLOSION WELDING

\*BT1 welding

### EXPLOSIONS

(From February 1975 until March 1996 DETONATIONS was a valid ETDE descriptor.)

UF blasts  
 UF detonations  
 NT1 atmospheric explosions  
 NT2 ranger project  
 NT2 trinity event  
 NT1 chemical explosions  
 NT1 cratering explosions  
 NT2 sedan event  
 NT1 nuclear explosions  
 NT2 anvil project  
 NT2 arbor project  
 NT2 bedrock project  
 NT2 castle project  
 NT2 crossroads project  
 NT2 crosstie operation  
 NT3 gasbuggy event  
 NT2 dominic project  
 NT2 greenhouse project  
 NT2 grommet operation  
 NT2 hardtack project  
 NT2 latchkey operation  
 NT2 mandrel operation  
 NT2 nougat operation  
 NT2 plumbbob project  
 NT2 praetorian project  
 NT2 ranger project  
 NT2 sandstone project  
 NT2 sun beam operation  
 NT2 thermonuclear explosions  
 NT2 toggle operation  
 NT3 rio blanco event  
 NT2 trinity event  
 NT2 whetstone operation  
 NT1 surface explosions  
 NT1 underground explosions  
 NT2 arbor project  
 NT2 contained explosions  
 NT2 crosstie operation  
 NT3 gasbuggy event  
 NT2 grommet operation  
 NT2 latchkey operation  
 NT2 mandrel operation  
 NT2 nougat operation  
 NT2 sun beam operation  
 NT2 toggle operation  
 NT3 rio blanco event  
 NT2 whetstone operation  
 NT1 underwater explosions  
 NT1 vapor explosions  
 RT accidents  
 RT blast effects  
 RT combustion waves  
 RT detonation waves  
 RT detonators  
 RT excavation  
 RT fires  
 RT implosions  
 RT molten metal-water reactions  
 RT natural disasters  
 RT overpressure  
 RT seismic events  
 RT shock waves  
 RT spontaneous combustion

### EXPLOSIVE FORMING

\*BT1 materials working

**EXPLOSIVE FRACTURING**

INIS: 1995-09-08; ETDE: 1976-04-19

- UF *blasting*
- UF *shotfiring*
- UF *solfrac process*
- BT1 *fracturing*
- RT *chemical explosions*
- RT *fractures*
- RT *mining*
- RT *nuclear explosions*
- RT *underground explosions*

**EXPLOSIVE INSTABILITY**

- \*BT1 *plasma instability*

**EXPLOSIVE STIMULATION**

*The use of chemical-or nuclear-explosive fracturing to increase reservoir production.*

- UF *stimulation (explosive)*
- UF *well shooting*
- \*BT1 *well stimulation*
- RT *chemical explosions*
- RT *chimneys*
- RT *enhanced recovery*
- RT *nuclear explosions*
- RT *oil shales*
- RT *underground explosions*

**explosively-driven mhd generators**

INIS: 2000-04-12; ETDE: 1977-05-07

- USE *pulsed mhd generators*

**EXPLOSIVES**

(From January 1975 till March 1997 PROPELLANTS was a valid ETDE descriptor.)

- SF *propellants*
- NT1 *chemical explosives*
- NT2 *dynamite*
- NT2 *nitrocellulose*
- NT2 *nitroglycerin*
- NT2 *nitromethane*
- NT2 *petn*
- NT2 *picric acid*
- NT2 *tatb*
- NT2 *tetryl*
- NT2 *tnt*
- NT1 *nuclear explosives*
- RT *ammunition*
- RT *guns*

**exponential piles**

- USE *subcritical assemblies*

**EXPORTS**

INIS: 1991-12-10; ETDE: 1978-07-05

- BT1 *trade*
- RT *domestic supplies*
- RT *foreign policy*
- RT *imports*
- RT *sales*
- RT *tariffs*

**exposure (radiation doses)**

- USE *radiation doses*

**EXPOSURE CHAMBERS**

INIS: 1978-09-28; ETDE: 1977-10-20

- UF *atmospheric exposure chambers*
- UF *environmental exposure chambers*
- UF *inhalation exposure chambers*
- RT *controlled atmospheres*

**EXPOSURE RATEMETERS**

- UF *ratemeters (exposure)*
- \*BT1 *radiation monitors*
- RT *counting ratemeters*
- RT *radiation monitoring*

**EXTENDED PARTICLE MODEL**

- \*BT1 *particle models*
- NT1 *bag model*

- NT1 *string models*
- NT2 *superstring models*
- RT *solitons*

**EXTENSIVE AIR SHOWERS**

- \*BT1 *cosmic showers*
- RT *centauro-type events*

**EXTENSOMETERS**

- RT *dilatometry*
- RT *strain gages*

**EXTERNAL BEAM RADIATION THERAPY**

2013-02-28

- \*BT1 *radiotherapy*

**EXTERNAL CONVERSION**

- BT1 *conversion*
- RT *energy levels*

**EXTERNAL COST**

2004-09-03

*Cost of a product or operation not included in the balance sheet but borne by society as a whole, such as health effects of environmental pollution.*

- UF *externalities*
- SF *societal costs*
- BT1 *cost*
- RT *cost benefit analysis*
- RT *life-cycle cost*

**EXTERNAL IRRADIATION**

- BT1 *irradiation*
- NT1 *extracorporeal irradiation*
- NT1 *partial body irradiation*
- NT1 *whole-body irradiation*
- RT *irradiation devices*
- RT *irradiation plants*
- RT *irradiation procedures*
- RT *local fallout*
- RT *local irradiation*
- RT *personnel dosimetry*
- RT *radiation protection*
- RT *radioactive clouds*
- RT *shielding*

**external magnetic fields**

INIS: 1976-01-28; ETDE: 2002-06-13

- USE *magnetic fields*

**EXTERNAL RECEIVERS**

INIS: 2000-04-12; ETDE: 1982-02-08

*Solar receivers with absorbers on the outside surface.*

- BT1 *solar receivers*

**EXTERNAL ZONES**

INIS: 1984-05-28; ETDE: 1984-06-14

*Areas immediately surrounding nuclear facility sites in which population distribution and density, and land and water uses, are considered with respect to the possibility of implementing emergency measures.*

- RT *emergency plans*
- RT *evacuation*
- RT *land use*
- RT *nuclear facilities*
- RT *population relocation*
- RT *reactor sites*
- RT *routing*
- RT *site selection*
- RT *water use*

**externalities**

2004-09-03

- USE *external cost*

**extinguishment**

INIS: 2000-04-12; ETDE: 1976-01-26

- USE *inhibition*

**EXTRACELLULAR SPACE**

1999-10-11

- BT1 *space*
- RT *compartments*
- RT *edema*

**EXTRACORPOREAL IRRADIATION**

*In vivo irradiation of organ, tissue or body fluid while outside the body.*

- \*BT1 *external irradiation*
- RT *blood*

**EXTRACTION**

1993-08-02

- BT1 *separation processes*
- NT1 *deasphalting*
- NT1 *reductive extraction*
- NT1 *solvent extraction*
- NT2 *phenosolvan process*
- NT2 *supercritical gas extraction*

**extraction (beam)**

- USE *beam extraction*

**extraction (heat)**

INIS: 2000-04-12; ETDE: 1975-08-19

- USE *heat extraction*

**extraction (solvent)**

- USE *solvent extraction*

**EXTRACTION APPARATUSES**

- UF *centrifugal contactors*
- \*BT1 *separation equipment*
- NT1 *extraction columns*
- NT1 *mist extractors*
- NT1 *mixer-settlers*
- NT1 *podbielniak contactors*
- RT *coolant cleanup systems*
- RT *entrainment*
- RT *laboratory equipment*
- RT *solvent extraction*

**EXTRACTION****CHROMATOGRAPHY**

- \*BT1 *chromatography*

**EXTRACTION COLUMNS**

- UF *cascade (extraction)*
- UF *chromatographic columns*
- UF *columns (extraction)*
- UF *pulse columns*
- UF *towers (extraction)*
- \*BT1 *extraction apparatuses*
- RT *column packing*

**EXTRACTIVE METALLURGY**

- BT1 *metallurgy*
- NT1 *hydrometallurgy*
- NT1 *pyrometallurgy*
- NT2 *chloride volatility process*
- NT2 *fluoride volatility process*
- RT *electrometallurgy*
- RT *refining*

**extrahigh voltage ac systems**

INIS: 1993-01-18; ETDE: 2002-06-13

- USE *ehv ac systems*

**extrahigh voltage alternating current systems**

INIS: 2000-04-12; ETDE: 1976-05-17

- USE *ehv ac systems*

**extrahigh voltage dc systems**

INIS: 1992-03-09; ETDE: 2002-06-13

- USE *ehv dc systems*

**extrahigh voltage direct current systems**

INIS: 2000-04-12; ETDE: 1976-05-17

- USE *ehv dc systems*

**EXTRAP-T2 DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03  
External Ring Trap, Royal Institute of Technology, Sweden.

\*BT1 reversed-field pinch devices

**EXTRAPOLATION**

\*BT1 numerical solution  
RT extrapolation length  
RT interpolation  
RT mathematics

**EXTRAPOLATION CHAMBERS**

\*BT1 dosimeters  
\*BT1 ionization chambers

**EXTRAPOLATION LENGTH**

1999-07-20

\*BT1 length  
RT extrapolation  
RT neutron transport theory

**EXTREME ULTRAVIOLET RADIATION**

Wavelength range 400-100 Å.

UF xuv  
\*BT1 ultraviolet radiation  
RT extreme ultraviolet spectra

**EXTREME ULTRAVIOLET SPECTRA**

INIS: 1989-09-14; ETDE: 1986-11-20

\*BT1 ultraviolet spectra  
RT absorption spectroscopy  
RT electronic structure  
RT extreme ultraviolet radiation  
RT structural chemical analysis

**EXTREME-VALUE PROBLEMS**

INIS: 1976-10-07; ETDE: 1976-11-01  
RT mathematics

**extremely high frequency radiation**

1993-11-08

USE microwave radiation

**EXTRUSION**

\*BT1 materials working  
NT1 coextrusion  
RT cold working  
RT dies  
RT hot working  
RT presses  
RT pressing

**exxon donor solvent liquefaction**

INIS: 2000-04-12; ETDE: 1980-10-27  
USE Exxon liquefaction process

**EXXON FUEL FABRICATION FACILITY**

\*BT1 fuel fabrication plants

**EXXON GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1976-09-14  
Coal is reacted with steam in a fluidized-bed gasifier at 1500-1700 degrees F. To provide the necessary heat, a stream of circulating char is withdrawn from the gasifier and partially burned with air in a char heater to raise its temperature. The heated char is returned to the gasifier after separation from the flue gas. The product gas is a medium-btu gas suitable for methanation to sng.  
\*BT1 coal gasification  
RT sng processes

**EXXON LIQUEFACTION PROCESS**

INIS: 2000-04-12; ETDE: 1976-09-14  
Crushed coal is slurried with a recycle solvent, preheated to about 800 degrees F, and then pumped into the liquefaction reactor

operating at about 2,000 P.S.I. Preheated hydrogen is also added to the reactor. The product from the liquefaction reactor is sent to the separation step where gas, naphtha, recycle solvent, distillate, and heavy bottoms are separated by distillation.

UF eds liquefaction  
UF Exxon donor solvent liquefaction  
\*BT1 coal liquefaction

**exxon nuclear facility**

INIS: 2000-04-12; ETDE: 1980-04-14

SEE nuclear fuel recovery and recycling center

**exxon recovery and recycle plant**

INIS: 1990-12-15; ETDE: 1984-05-09

(Prior to December 1990, this was a valid descriptor.)  
USE nuclear fuel recovery and recycling center

**eye cataracts**

USE cataracts

**EYES**

UF aqueous humor  
UF sclera  
\*BT1 face  
\*BT1 sense organs  
NT1 conjunctiva  
NT1 cornea  
NT1 crystalline lens  
NT1 lacrimal ducts  
NT1 retina  
NT1 uvea  
RT ophthalmology  
RT vision

**ezeiza argentine ra-3 reactor**

USE ra-3 reactor

**ezeiza argentine ra-4 reactor**

INIS: 2002-08-13; ETDE: 2002-06-16

USE ra-4 reactor

**F-1 REACTOR**

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 graphite moderated reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors

**f-1260 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE f2-1270 mesons

**f-1514 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE f2 prime-1525 mesons

**f-1540 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**f-2030 resonances**

INIS: 1985-01-17; ETDE: 1978-09-11

(This was a valid ETDE descriptor prior to January 1985.)

USE d s mesons

**F CENTERS**

\*BT1 color centers

**F-CHART**

INIS: 2000-04-12; ETDE: 1979-10-23  
Performance measure used to determine fraction of total heating load provided by a particular solar collector.

RT performance  
RT solar collectors  
RT solar heating systems  
RT solar water heaters

**F CODES**

BT1 computer codes

**f mesons**

INIS: 1987-12-21; ETDE: 1985-02-07  
(Prior to December 1987 this was a valid descriptor.)

USE d s mesons

**F REGION**

\*BT1 ionosphere  
NT1 f1 layer  
NT1 f2 layer  
NT1 spread f  
RT ionospheric storms

**F STATES**

BT1 energy levels

**F WAVES**

BT1 partial waves  
RT angular momentum  
RT quantum mechanics

**f\*resonances**

INIS: 1987-12-21; ETDE: 1978-09-11  
(Prior to December 1987 this was a valid descriptor.)

USE d\*s-2110 mesons

**F0-1240 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-28

\*BT1 scalar mesons

**F0-1300 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29

\*BT1 scalar mesons

**F0-1590 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 scalar mesons

**F0-1730 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 scalar mesons

**f0-975 mesons**

INIS: 1995-08-07; ETDE: 1988-01-25

(From December 1987 until July 1995 this was a valid term.)

USE f0-980 mesons

**F0-980 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by S-993 RESONANCES; from then until July 1995 it was indexed by F0-975 MESONS.)

UF f0-975 mesons  
UF s-993 resonances  
\*BT1 scalar mesons

**F1-1285 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29  
(Prior to December 1987 this concept was indexed by D-1285RESONANCES.)

UF d-1285 resonances  
\*BT1 axial vector mesons

**F1-1420 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-29*  
(Prior to December 1987 this concept was indexed by E-1422RESONANCES.)  
*UF e-1422 resonances*  
\*BT1 axial vector mesons

**F1-1510 MESONS**

*1995-08-07*  
(Until July 1995 this concept was indexed by F1-1530 MESONS.)  
*UF f1-1530 mesons*  
\*BT1 axial vector mesons

**f1-1530 mesons**

*INIS: 1995-08-07; ETDE: 1988-02-01*  
(Until July 1995 this was a valid term.)  
USE f1-1510 mesons

**F1 LAYER**

\*BT1 f region

**F2-1270 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-28*  
(Prior to December 1987 this concept was indexed by F-1260RESONANCES.)  
*UF f-1260 resonances*  
\*BT1 tensor mesons

**f2-1410 mesons**

*INIS: 1995-08-07; ETDE: 1988-01-29*  
(Until July 1995 this was a valid term.)  
USE f2-1430 mesons

**F2-1430 MESONS**

*1995-08-07*  
(Until July 1995 this concept was indexed by F2-1410 MESONS.)  
*UF f2-1410 mesons*  
\*BT1 tensor mesons

**f2-1525 mesons**

*INIS: 1995-08-07; ETDE: 1988-02-01*  
(From December 1987 until July 1995 this was a valid term.)  
USE f2 prime-1525 mesons

**F2-1720 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
(Prior to December 1987 this concept was indexed by THETA-1690 RESONANCES.)  
*UF theta-1640 resonances*  
*UF theta-1690 resonances*  
\*BT1 tensor mesons

**F2-1810 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
\*BT1 tensor mesons

**F2-2010 MESONS**

*1995-07-17*  
\*BT1 tensor mesons

**F2-2300 MESONS**

*1995-07-17*  
\*BT1 tensor mesons

**F2-2340 MESONS**

*1995-07-17*  
\*BT1 tensor mesons

**F2 LAYER**

\*BT1 f region

**F2 PRIME-1525 MESONS**

*1995-08-07*  
(Until December 1987 this concept was indexed by F-1514 RESONANCES; from then until July 1995 it was indexed to F2-1525 MESONS.)  
*UF f-1514 resonances*  
*UF f2-1525 mesons*  
\*BT1 strangeonium

\*BT1 tensor mesons

**f4-2030 mesons**

*INIS: 1995-08-07; ETDE: 1988-02-01*  
(From December 1987 until July 1995 this was a valid term.)  
USE f4-2050 mesons

**F4-2050 MESONS**

*1995-08-07*  
(Until December 1987 this concept was indexed by H-2050 RESONANCES; from then until July 1995 it was indexed by F4-2030 MESONS.)  
*UF f4-2030 mesons*  
*UF h-2050 resonances*  
\*BT1 tensor mesons

**F4-2300 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
(Prior to December 1987 this concept was indexed by U-2375RESONANCES.)  
*UF u-2375 resonances*  
\*BT1 tensor mesons

**F6-2510 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
(Prior to December 1987 this concept was indexed by R-2510RESONANCES.)  
*UF r-2510 resonances*  
\*BT1 tensor mesons

**FABRIC FILTERS**

*INIS: 1992-03-27; ETDE: 1978-10-23*  
BT1 filters  
RT baghouses  
RT dust collectors  
RT pollution control equipment

**FABRICATION**

*Limited to the concepts of shaping and manufacturing, use of a more specific term is recommended; for large scale building see CONSTRUCTION.*

*UF building (manufacturing)*

NT1 casting

NT2 electroslag casting

NT2 slip casting

NT2 vacuum casting

NT1 compacting

NT1 granulation

NT1 joining

NT2 bonding

NT2 fastening

NT2 welding

NT3 arc welding

NT4 gas metal-arc welding

NT5 gas tungsten-arc welding

NT4 plasma arc welding

NT4 shielded metal-arc welding

NT4 submerged arc welding

NT3 brazing

NT3 diffusion welding

NT3 electron beam welding

NT3 electroslag welding

NT3 explosion welding

NT3 forge welding

NT3 friction welding

NT3 gas welding

NT3 induction welding

NT3 laser welding

NT3 magnetic force welding

NT3 resistance welding

NT4 flash welding

NT3 soldering

NT3 ultrasonic welding

NT3 vacuum welding

NT1 materials working

NT2 canning

NT2 cold working

NT3 shot peening

NT2 drawing

NT2 explosive forming

NT2 extrusion

NT3 coextrusion

NT2 forging

NT2 hot working

NT2 magnetic forming

NT2 pressing

NT3 cold pressing

NT3 hot pressing

NT2 rolling

NT2 swaging

NT2 thermomechanical treatments

NT1 molding

NT2 briquetting

NT2 pelletizing

NT1 sintering

RT computer-aided manufacturing

RT fuel fabrication plants

RT manufacturing

RT modular structures

RT production

**FABRY-PEROT INTERFEROMETER**

\*BT1 interferometers

**FACE**

\*BT1 head

NT1 eyes

NT2 conjunctiva

NT2 cornea

NT2 crystalline lens

NT2 lacrimal ducts

NT2 retina

NT2 uvea

NT1 nose

RT oral cavity

RT respirators

RT sinuses

**face centered cubic**

USE fcc lattices

**facilities (accelerator)**

*INIS: 2000-04-12; ETDE: 1981-01-09*

**facilities (educational)**

*INIS: 2000-04-12; ETDE: 1981-01-09*

USE educational facilities

**facilities (energy)**

*INIS: 1994-10-13; ETDE: 1981-01-09*

USE energy facilities

**facilities (maintenance)**

*INIS: 2000-04-12; ETDE: 1981-06-13*

USE maintenance facilities

**facilities (military)**

*INIS: 2000-04-12; ETDE: 1981-01-09*

USE military facilities

**facilities (nuclear)**

*INIS: 2000-04-12; ETDE: 1981-01-09*

USE nuclear facilities

**facilities (resource recovery)**

*INIS: 1992-07-09; ETDE: 1981-01-09*

USE resource recovery facilities

**facilities (sport)**

*2004-09-17*

USE sport facilities

**facilities (storage)**

*INIS: 2000-04-12; ETDE: 1981-01-09*

USE storage facilities

**facilities (terminal)**

*INIS: 2000-04-12; ETDE: 1981-01-09*

USE terminal facilities

**facilities (test)**

INIS: 1986-05-26; ETDE: 1981-01-09  
USE test facilities

**facilities (underground)**

INIS: 1986-07-09; ETDE: 2002-06-13  
USE underground facilities

**facilities (underwater)**

INIS: 2000-04-12; ETDE: 1981-01-09  
USE underwater facilities

**FACOM COMPUTERS**

INIS: 1985-11-16; ETDE: 1990-10-09  
BT1 computers

**FACTORIZATION**

RT mathematics

**FACULAE**

\*BT1 solar activity  
RT photosphere  
RT plages

**FADDEEV EQUATIONS**

BT1 equations  
RT lippmann-schwinger equation  
RT multiple scattering  
RT three-body problem

**FAEROE ISLANDS**

UF faroe islands  
BT1 islands  
RT atlantic ocean  
RT denmark

**FAILED ELEMENT DETECTION**

UF burst can detection  
UF burst slug detection  
UF detection (failed element)  
UF fedal  
BT1 detection  
RT failed element monitors  
RT fuel cans  
RT fuel element failure  
RT fuel elements  
RT fuel motion detection

**FAILED ELEMENT MONITORS**

UF burst can monitors  
UF burst slug monitors  
UF monitors (failed elements)  
\*BT1 monitors  
RT failed element detection  
RT fuel cans  
RT fuel element failure  
RT fuel elements  
RT reactor monitoring systems

**FAILURE MODE ANALYSIS**

UF event tree analysis  
\*BT1 system failure analysis  
RT markov process  
RT redundancy  
RT reliability

**failure propagation**

2003-10-21  
SEE crack propagation  
SEE failures  
SEE system failure analysis

**FAILURES**

SF failure propagation  
NT1 fractures  
NT2 hydraulic fractures  
NT2 thermal fractures  
NT1 fuel element failure  
NT1 ruptures  
RT accidents  
RT amoeba effect  
RT corrosion

RT damage  
RT electrical faults  
RT fatigue  
RT fracture properties  
RT hazards  
RT human factors  
RT impact shock  
RT leaks  
RT outages  
RT reliability  
RT safety  
RT systems analysis

**fair accelerator**

2017-11-01  
Facility for Antiproton and Ion Research  
located at GSI in Darmstadt, Germany  
USE fair accelerator complex

**FAIR ACCELERATOR COMPLEX**

2018-06-04  
International multipurpose accelerator  
Facility for Antiproton and Ion Research  
located at GSI in Darmstadt, Germany  
(Prior to June 2018 FAIR ACCELERATOR  
was used for this concept.)

UF fair accelerator  
\*BT1 cyclic accelerators  
\*BT1 linear accelerators  
BT1 storage rings  
RT cbm detector  
RT hades detector  
RT panda detector  
RT unilac

**FALLOUT**

For radioactive fallout only.  
UF fallout particulates  
UF fragments (fallout)  
NT1 fallout deposits  
NT1 global fallout  
NT1 local fallout  
NT1 washout  
RT accidents  
RT aerial monitoring  
RT aerosols  
RT air  
RT atmospheric precipitations  
RT contamination  
RT earth atmosphere  
RT fission products  
RT global aspects  
RT nuclear explosions  
RT nuclear weapons  
RT particle resuspension  
RT radiation hazards  
RT radiation protection  
RT radioactive aerosols  
RT radioactive clouds  
RT regional analysis  
RT residence half-time  
RT sedimentation  
RT sunshine project  
RT wind

**FALLOUT DEPOSITS**

BT1 fallout  
RT environment  
RT food chains  
RT radionuclide migration  
RT sedimentation  
RT soils

**fallout particulates**

USE fallout  
USE particles

**FALLOUT SHELTERS**

BT1 shelters  
RT earth-covered buildings  
RT local fallout

RT radiation protection  
RT subsurface structures  
RT underground facilities

**FANGCHENGGANG-1 REACTOR**

2017-10-25  
Fangchenggang, China  
\*BT1 pwr type reactors

**FANGCHENGGANG-2 REACTOR**

2017-10-25  
Fangchenggang, China  
\*BT1 pwr type reactors

**FANGJIASHAN-1 REACTOR**

2017-10-25  
Zhejiang province, China  
\*BT1 pwr type reactors

**FANGJIASHAN-2 REACTOR**

2017-10-25  
Zhejiang province, China  
\*BT1 pwr type reactors

**FANO FACTOR**

BT1 dimensionless numbers  
RT ionization  
RT semiconductor materials

**fano-lichten model**

USE electron-promotion model

**fans**

USE blowers

**FAO**

UF food and agriculture organization  
BT1 international organizations  
RT agriculture  
RT agris  
RT food  
RT united nations

**FAR INFRARED RADIATION**

Wavelength range 50-1000 microns.  
\*BT1 infrared radiation

**FAR ULTRAVIOLET RADIATION**

Wavelength range 2000-400 A.  
UF vacuum ultraviolet radiation  
\*BT1 ultraviolet radiation

**faraday cages**

USE faraday cups

**FARADAY CUPS**

UF faraday cages  
\*BT1 beam monitors  
RT beam currents  
RT electric measuring instruments

**FARADAY CURRENT**

\*BT1 electric currents

**FARADAY EFFECT**

UF faraday rotation  
RT electromagnetic radiation  
RT magneto-optical effects  
RT polarization

**faraday generators**

USE mhd generators

**FARADAY INDUCTION**

BT1 induction

**FARADAY LAWS**

RT electrolysis

**FARADAY METHOD**

RT magnetic fields

**faraday rotation**

USE faraday effect

**FARLEY-1 REACTOR**

*Southern Nuclear Operating Co., Inc.,  
Dothan, Alabama, USA.*

*UF joseph m. farley-1 reactor*

*\*BT1 pwr type reactors*

**FARLEY-2 REACTOR**

*Southern Nuclear Operating Co., Inc.,  
Dothan, Alabama, USA.*

*UF joseph m. farley-2 reactor*

*\*BT1 pwr type reactors*

**farm animals**

*USE domestic animals*

**FARM EQUIPMENT**

*INIS: 2000-04-12; ETDE: 1977-06-21*

*BT1 equipment*

*RT farms*

*RT harvesting equipment*

**FARMS**

*INIS: 1992-09-01; ETDE: 1977-06-21*

*RT agriculture*

*RT biomass plantations*

*RT cooperatives*

*RT farm equipment*

*RT land use*

**faeroe islands**

*USE faeroe islands*

**FASCIA**

*\*BT1 connective tissue*

**FASCIOLA**

*\*BT1 trematodes*

*RT fascioliasis*

**FASCIOLIASIS**

*\*BT1 parasitic diseases*

*RT fasciola*

**fast breeder blanket facility (fbbf)**

*INIS: 2000-04-12; ETDE: 1976-11-17*

*USE subcritical assemblies*

**fast breeder test reactor (kalpakkam)**

*INIS: 1993-11-08; ETDE: 2002-06-13*

*USE kalpakkam lmfbr reactor*

**fast breeder type reactors**

*USE fbr type reactors*

**fast burst reactor facility**

*USE fbrf reactor*

**fast experimental breeder reactor  
japan**

*1993-11-08*

*USE joyo reactor*

**FAST FISSION**

*\*BT1 fission*

*\*BT1 neutron reactions*

*RT fast fission factor*

*RT fast neutrons*

**FAST FISSION FACTOR**

*BT1 dimensionless numbers*

*RT fast fission*

*RT fast reactors*

*RT fission*

*RT multiplication factors*

**fast flux test facility**

*INIS: 1979-02-21; ETDE: 2002-06-13*

*USE ffitf reactor*

**fast flux test facility reactor**

*2000-04-12*

*USE ffitf reactor*

**FAST MAGNETOACOUSTIC WAVES**

*\*BT1 magnetoacoustic waves*

*RT transit-time magnetic pumping*

**fast-mixed spectrum reactor**

*INIS: 2000-04-12; ETDE: 1981-11-10*

*USE fbr type reactors*

*USE mixed spectrum reactors*

**fast neutron reactors**

*2016-05-03*

*USE fast reactors*

**FAST NEUTRONS**

*\*BT1 neutrons*

*RT fast fission*

*RT fast reactors*

*RT nisus facility*

**fast prototype reactor japan**

*ETDE: 2002-06-13*

*USE monju reactor*

**fast reactor core test facility**

*USE frctf reactor*

**FAST REACTORS**

*1995-12-08*

*UF fast neutron reactors*

*SF 710 reactor*

*SF fcel reactor*

*\*BT1 epithermal burners*

*NT1 actinide burner reactors*

*NT1 afsr reactor*

*NT1 aprf reactor*

*NT1 bfs reactor*

*NT1 bigr reactor*

*NT1 bir reactor*

*NT1 brest-od-300 reactor*

*NT1 cefr reactor*

*NT1 cfrmf reactor*

*NT1 clementine reactor*

*NT1 coral-1 reactor*

*NT1 ecel reactor*

*NT1 fbr type reactors*

*NT2 aipfr reactor*

*NT2 gcfr type reactors*

*NT3 gcfr reactor*

*NT2 kalpakkam pfbr reactor*

*NT2 lmfbr type reactors*

*NT3 beloyarsk-3 reactor*

*NT3 beloyarsk-4 reactor*

*NT3 bn-1200 reactor*

*NT3 bn-1600 reactor*

*NT3 bn-350 reactor*

*NT3 bor-60 reactor*

*NT3 cdfr reactor*

*NT3 clinch river breeder reactor*

*NT3 dfr reactor*

*NT3 ebr-1 reactor*

*NT3 ebr-2 reactor*

*NT3 Enrico Fermi-1 reactor*

*NT3 joyo reactor*

*NT3 kalpakkam lmfbr reactor*

*NT3 monju reactor*

*NT3 pfr reactor*

*NT3 phenix reactor*

*NT3 plbr reactor*

*NT3 rapsodie reactor*

*NT3 sbr-1 reactor*

*NT3 sbr-2 reactor*

*NT3 sbr-5 reactor*

*NT3 snr-2 reactor*

*NT3 snr reactor*

*NT3 superphenix reactor*

*NT3 venus reactor*

*NT2 pec brasimone reactor*

*NT2 zebra reactor*

*NT1 fbrf reactor*

*NT1 fca reactor*

*NT1 ffitf reactor*

*NT1 fr-0 reactor*

*NT1 harmonie reactor*

*NT1 hprf reactor*

*NT1 ibr-2 reactor*

*NT1 ibr-30 reactor*

*NT1 ifr reactor*

*NT1 kalpakkam pfr reactor*

*NT1 kbr-1 reactor*

*NT1 knk-2 reactor*

*NT1 lampre-1 reactor*

*NT1 masurca reactor*

*NT1 myrrha facility*

*NT1 purnima-2 reactor*

*NT1 purnima reactor*

*NT1 saref reactor*

*NT1 sefor reactor*

*NT1 sneak reactor*

*NT1 sora reactor*

*NT1 stf reactor*

*NT1 tapiro reactor*

*NT1 tibr reactor*

*NT1 vera reactor*

*NT1 viper reactor*

*NT1 wntf reactor*

*NT1 yayoi reactor*

*NT1 zephyr reactor*

*NT1 zprf reactor*

*NT1 zpr-3 reactor*

*NT1 zpr-6 reactor*

*NT1 zpr-9 reactor*

*NT1 zrr reactor*

*RT fast fission factor*

*RT fast neutrons*

**fast source reactor aec**

*USE afsr reactor*

**FASTBUS SYSTEM**

*INIS: 1983-09-06; ETDE: 1983-03-23*

*RT camac system*

*RT computers*

*RT data acquisition systems*

*RT equipment interfaces*

*RT nuclear instrument modules*

*RT on-line control systems*

*RT on-line measurement systems*

**FASTENERS**

*UF bolts*

*UF nuts (mechanical)*

*UF rivets*

*UF screws*

*UF studs*

*RT anchors*

*RT couplings*

*RT fastening*

*RT joining*

*RT restraints*

**FASTENING**

*UF anchoring*

*UF bolting*

*UF connecting*

*UF riveting*

*UF screwing*

*\*BT1 joining*

*RT fasteners*

*RT joints*

**FASTING**

*UF starvation*

*RT biological stress*

*RT diet*

*RT metabolism*

**FAT CELLS**

*\*BT1 connective tissue cells*

*RT adipose tissue*

*RT leptin*



**FATHEAD MINNOW**

INIS: 1993-07-14; ETDE: 1984-08-20

UF *pimephales promelas*

\*BT1 fishes

RT fresh water

RT ichthyoplankton

**FATIGUE**

BT1 mechanical properties

NT1 corrosion fatigue

NT1 thermal fatigue

RT crack propagation

RT damage

RT failures

RT s-n diagram

**fatigue (biological)**

USE biological fatigue

**FATS**

1996-10-22

UF *butter fat*

RT adipose tissue

RT food

RT leptin

RT lipids

**fatty acids**

USE carboxylic acids

**faucets (water)**

INIS: 2000-04-12; ETDE: 1977-06-21

USE water faucets

**FAUJASITE**

INIS: 2000-04-12; ETDE: 1979-07-18

\*BT1 zeolites

**fault liability**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

USE liabilities

**FAULT TOLERANT COMPUTERS**

INIS: 1988-11-16; ETDE: 1986-01-14

Systems which have the ability to produce correct result even in the presence of a fault.

\*BT1 digital computers

RT computerized control systems

RT programming

RT reliability

**FAULT TREE ANALYSIS**

UF *fault tree systems*

\*BT1 system failure analysis

RT control

RT monte carlo method

RT planning

RT probabilistic estimation

RT statistics

**fault tree systems**

USE fault tree analysis

**faultless event**

1994-10-14

A test made during operation crosstie.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**faults (geologic)**

INIS: 1975-11-07; ETDE: 2002-06-13

USE geologic faults

**faure cyclotron**

INIS: 1983-06-01; ETDE: 1983-07-07

USE nac cyclotron

**fbh process**

INIS: 2000-04-12; ETDE: 1976-01-26

USE fluidized bed hydrogenation process

**fbi**

INIS: 2000-04-12; ETDE: 1979-12-10

USE federal bureau of investigation

**FBR TYPE REACTORS**

UF *fast breeder type reactors*

UF *fast-mixed spectrum reactor*

\*BT1 breeder reactors

\*BT1 fast reactors

NT1 aipfr reactor

NT1 gcftr type reactors

NT2 gcftr reactor

NT1 kalpakkam pfbr reactor

NT1 lmfbr type reactors

NT2 beloyarsk-3 reactor

NT2 beloyarsk-4 reactor

NT2 bn-1200 reactor

NT2 bn-1600 reactor

NT2 bn-350 reactor

NT2 bor-60 reactor

NT2 cdftr reactor

NT2 clinch river breeder reactor

NT2 dfr reactor

NT2 ebr-1 reactor

NT2 ebr-2 reactor

NT2 enrico fermi-1 reactor

NT2 joyo reactor

NT2 kalpakkam lmfbr reactor

NT2 monju reactor

NT2 pfr reactor

NT2 phenix reactor

NT2 plbr reactor

NT2 rapsodie reactor

NT2 sbr-1 reactor

NT2 sbr-2 reactor

NT2 sbr-5 reactor

NT2 snr-2 reactor

NT2 snr reactor

NT2 superphenix reactor

NT2 venus reactor

NT1 pec brasimone reactor

NT1 zebra reactor

RT civex process

RT heterogeneous reactor cores

RT power reactors

**FBRF REACTOR**

*Fast Burst Reactor Facility, White Sands*

*Missile Range, New Mexico, USA.*

UF *fast burst reactor facility*

\*BT1 fast reactors

\*BT1 pulsed reactors

\*BT1 research reactors

**fbtr reactor (kalpakkam)**

INIS: 1986-06-10; ETDE: 2002-06-13

USE kalpakkam lmfbr reactor

**FCA REACTOR**

*JAERI, Tokai, Ibaraki, Japan.*

UF *tokai-mura fast critical assembly*

\*BT1 fast reactors

\*BT1 zero power reactors

**FCC LATTICES**

UF *face centered cubic*

\*BT1 cubic lattices

**fccl reactor**

2000-04-12

SEE fast reactors

SEE zero power reactors

**fdr reactor**

2000-04-12

USE otto hahn reactor

**FEASIBILITY STUDIES**

UF *mission analysis*

RT bench-scale experiments

RT commercialization

RT comparative evaluations

RT design

RT economics

RT efficiency

RT evaluation

RT field tests

RT implementation

RT performance

RT planning

RT productivity

RT technology assessment

RT technology utilization

RT testing

**FEATHERS**

RT birds

RT skin

**FECES**

\*BT1 biological wastes

RT body fluids

RT excretion

RT large intestine

RT proteus

RT rectum

**fedal**

USE failed element detection

**federal assistance programs**

INIS: 2000-04-12; ETDE: 1977-10-20

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us federal assistance programs

**federal aviation administration**

INIS: 2000-04-12; ETDE: 1978-09-13

USE us faa

**federal buildings**

INIS: 1994-10-03; ETDE: 1979-02-23

(Until September 1994 this was a valid descriptor.)

USE government buildings

**FEDERAL BUREAU OF INVESTIGATION**

INIS: 2000-04-12; ETDE: 1979-12-10

UF *fbi*

\*BT1 us doj

**federal driving cycle**

INIS: 2000-04-12; ETDE: 1975-11-12

USE federal test procedure

**federal emergency management agency**

INIS: 2000-04-12; ETDE: 1984-02-10

USE us fema

**federal energy administration**

1977-07-05

USE us fea

**federal energy regulatory commission**

INIS: 2000-04-12; ETDE: 1978-02-14

USE us ferc

**federal expenditures**

INIS: 2000-04-12; ETDE: 1980-08-25

(Prior to February 1997 this was a valid ETDE descriptor.)

USE expenditures

USE national government

**federal government**

INIS: 1980-11-07; ETDE: 1980-03-04  
USE national government

**federal power commission**

INIS: 2000-04-12; ETDE: 1976-10-13  
(Prior to February 1992 this was a valid ETDE descriptor.)  
USE us federal power commission

**FEDERAL RADIATION COUNCIL**

UF *frc*  
\*BT1 us organizations  
RT radiation protection  
RT radiation protection laws  
RT safety standards

**federal region i**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by NORTH ATLANTIC REGION. From June 1982 to February 1992 this was a valid descriptor.)  
USE usa

**federal region ii**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982, this concept in ETDE was indexed by MID-ATLANTIC REGION. From June 1982 to April 1992 this was a valid ETDE descriptor.)  
USE usa

**federal region iii**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by CENTRAL REGION. From June 1982 to April 1992 this was a valid descriptor.)  
USE usa

**federal region iv**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by SOUTHEAST REGION. From June 1982 to April 1992 this was a valid descriptor.)  
USE usa

**federal region ix**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by WESTERN REGION. From June 1982 to April 1993 this was a valid descriptor.)  
USE usa

**federal region v**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by GREAT LAKES REGION. From June 1982 to April 1992 this was a valid descriptor.)  
USE usa

**federal region vi**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by SOUTHWEST REGION. From June 1982 to April 1993 this was a valid descriptor.)  
USE usa

**federal region vii**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by MIDWEST REGION. From June 1982 to April 1993 this was a valid descriptor.)  
USE usa

**federal region viii**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by ROCKY MOUNTAIN REGION. From June 1982 to April 1993 this was a valid descriptor.)  
USE usa

**federal region x**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by PACIFIC NORTHWEST REGION. From June 1982 to April 1993 this was a valid descriptor.)  
USE usa

**FEDERAL REPUBLIC OF GERMANY**

INIS: 1997-06-19; ETDE: 1979-10-23  
UF *german democratic republic*  
UF *german federal republic*  
UF *germany*  
UF *germany (democratic republic)*  
UF *germany (federal republic)*  
UF *west germany*  
BT1 developed countries  
\*BT1 western europe  
RT alps  
RT asse salt mine  
RT danube river  
RT erzgebirge deposit  
RT german fr organizations  
RT oecd  
RT rhine river  
RT urach geothermal field

**FEDERAL TEST PROCEDURE**

INIS: 2000-04-12; ETDE: 1975-11-11  
*Test procedures for exhaust emissions and fuel economy.*  
UF *federal driving cycle*  
RT engines  
RT exhaust gases  
RT performance testing  
RT pollution regulations

**federal water pollution control act**

INIS: 1977-03-01; ETDE: 1976-06-07  
(Prior to April 1980, this was a valid ETDE descriptor.)  
USE clean water acts

**federation of malaya**

USE malaysia

**FEED MATERIALS PLANTS**

1996-07-23  
*Plants for the production of refined uranium or plutonium metal or their pure compounds in a form suitable for use in nuclear reactor fuel elements or as feed for uranium enrichment processes.*  
UF *anaconda uranium mill*  
UF *highland uranium mill*  
UF *shirley basin uranium mill*  
UF *uranium mills*  
BT1 industrial plants  
BT1 nuclear facilities  
NT1 areva nc malvesi  
NT1 feed materials production center  
NT1 west valley uf6 facility  
RT fuel cycle centers  
RT uranium  
RT uranium concentrates

**FEED MATERIALS PRODUCTION CENTER**

*Fernald, Ohio.*  
UF *fernald production plant*  
\*BT1 feed materials plants  
\*BT1 us aec

\*BT1 us doe  
\*BT1 us erda  
RT ohio

**FEEDBACK**

UF *climate feedback*  
RT closed-loop control  
RT control  
RT control theory  
RT nyquist diagrams  
RT servomechanisms

**FEEDING**

NT1 grazing  
RT diet  
RT food  
RT nutrients

**FEEDWATER**

\*BT1 water  
RT auxiliary water systems  
RT boilers  
RT deaerators  
RT demineralization  
RT feedwater heaters  
RT reactor cooling systems  
RT steam generators  
RT water chemistry

**FEEDWATER HEATERS**

BT1 heaters  
RT feedwater  
RT reactor cooling systems

**fees**

USE charges

**FEET**

\*BT1 legs

**feinberg-pais theory**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
SEE leptons  
SEE weak interactions

**FELDSPARS**

*A group of abundant rock-forming minerals. (From November 1976 till February 1997 ALBITE was a valid ETDE descriptor; from June 1977 till March 1996 MICROCLINE was a valid ETDE descriptor.)*

UF *albite*  
UF *microcline*  
\*BT1 silicate minerals  
NT1 anorthite  
NT1 orthoclase  
RT anorthosites  
RT aplites  
RT basalt  
RT gabbros  
RT granites  
RT granodiorites  
RT pegmatites  
RT quartz monzonite  
RT rhyolites  
RT shales  
RT syenites

**FELIX FACILITY**

INIS: 1992-01-07; ETDE: 1983-06-20  
*Experimental test facility at Argonne National Laboratory, USA, for the study of electromagnetic effects in fusion reactor materials.*

UF *fusion electromagnetic induction experiment*  
BT1 test facilities  
RT thermonuclear reactors

**FEMALE GENITALS**

UF *genitals (female)*

*UF* vagina  
 \*BT1 organs  
 NT1 ovaries  
 NT1 uterus  
 RT estrous cycle  
 RT fertility  
 RT gonads  
 RT gynecology  
 RT menstrual cycle  
 RT menstruation disorders  
 RT pelvis  
 RT reproduction  
 RT sex  
 RT urogenital system diseases

**FEMALES**

NT1 women  
 RT animals  
 RT sex  
 RT sex dependence

**FEMUR**

\*BT1 skeleton  
 RT legs

**FENCES**

2006-06-27

BT1 physical protection devices  
 RT biointrusion  
 RT human intrusion

**FERC GAS AREAS**

INIS: 2000-04-12; ETDE: 1979-12-10

*UF* fpc gas areas  
 RT natural gas distribution systems  
 RT natural gas industry  
 RT us ferc

**FERGHANITE**

2000-04-12

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT uranium oxides  
 RT vanadium oxides

**FERMAT PRINCIPLE**

RT wave propagation

**FERMENTATION**

1997-06-19

(From October 1978 to February 1997 CELL RECYCLE was a valid ETDE descriptor.)

*UF* biothermohol process  
*SF* cell recycle  
*SF* microbial processes  
 BT1 bioconversion  
 NT1 vacuum fermentation  
 RT anaerobic digestion  
 RT batch culture  
 RT biochemistry  
 RT biological pathways  
 RT chemical reactions  
 RT clostridium thermocellum  
 RT continuous culture  
 RT distillers dried grains  
 RT mesophilic conditions  
 RT saccharification  
 RT semibatch culture  
 RT stillage  
 RT thermophilic conditions

**fermentation alcohol**

USE ethanol

**fermi age**

USE fermi age theory  
 USE neutron age

**FERMI AGE THEORY**

*UF* fermi age  
 BT1 neutron slowing-down theory  
 RT neutron age

RT slowing-down

**fermi beta theory**

USE fermi interactions

**fermi constants**

USE fermi interactions

**fermi diagram**

USE fermi plot

**fermi-dirac gas**

USE fermi gas

**fermi-dirac statistics**

INIS: 1975-09-16; ETDE: 1976-05-19

USE fermi statistics

**fermi fluid**

USE fermi gas

**FERMI GAS**

*UF* fermi-dirac gas  
*UF* fermi fluid  
*UF* fermi liquid  
 RT bose-einstein gas  
 RT electron gas  
 RT fermi statistics  
 RT gases

**FERMI GAS MODEL**

\*BT1 nuclear models

**FERMI INTERACTIONS**

*UF* fermi beta theory  
*UF* fermi constants  
*UF* fermi pseudopotential  
*UF* fermi-weizsaecker formula  
*UF* four-fermion interaction  
 \*BT1 weak interactions  
 RT primakoff theory  
 RT v-a theory

**fermi-kurie plot**

USE fermi plot

**FERMI LEVEL**

*UF* fermi surface  
 BT1 energy levels  
 RT band theory  
 RT cooper pairs

**fermi liquid**

USE fermi gas

**FERMI PLOT**

*UF* fermi diagram  
*UF* fermi-kurie plot  
*UF* kurie plot  
 \*BT1 diagrams  
 RT beta decay

**fermi pseudopotential**

USE fermi interactions

**FERMI RESONANCE**

BT1 resonance

**FERMI-SEGRE FORMULA**

RT magnetic moments

**FERMI STATISTICS**

INIS: 1975-09-16; ETDE: 1975-10-28

*UF* fermi-dirac statistics  
 RT bose-einstein statistics  
 RT fermi gas  
 RT fermions  
 RT parastatistics  
 RT statistical mechanics

**fermi surface**

USE fermi level

**fermi-thomas model**

USE thomas-fermi model

**fermi-weizsaecker formula**

USE fermi interactions

**FERMILAB**

1995-01-27

\*BT1 us doe  
 RT illinois

**FERMILAB ACCELERATOR**

INIS: 1977-10-17; ETDE: 1975-11-11

Facility at Fermi National Accelerator Laboratory, Batavia, Illinois, includes main synchrotron, booster synchrotron, and linac.

*UF* nal synchrotron  
*UF* national accelerator laboratory  
 \*BT1 synchrotrons  
 RT fermilab tevatron  
 RT popae storage ring

**FERMILAB COLLIDER DETECTOR**

1992-01-14

Detector to study proton-antiproton collisions at 2 TeV center-of-mass energy.

*UF* cdf  
*UF* collider detector at fermilab  
 \*BT1 radiation detectors  
 RT drift chambers  
 RT projection spark chambers  
 RT shower counters

**FERMILAB TEVATRON**

INIS: 1984-02-22; ETDE: 1984-03-06

TeV range proton synchrotron at Fermi National Accelerator Laboratory.

*UF* tevatron  
*UF* tevatron (fermilab)  
 \*BT1 synchrotrons  
 RT fermilab accelerator

**fermion-boson symmetry**

1984-12-04

USE boson-fermion symmetry

**FERMIONS**

NT1 baryons  
 NT2 antibaryons  
 NT3 antihyperons  
 NT4 antilambda particles  
 NT4 antiomega particles  
 NT4 antisigma particles  
 NT4 antixi particles  
 NT3 antinucleons  
 NT4 antineutrons  
 NT4 antiprotons  
 NT2 beauty baryons  
 NT3 lambda b neutral baryons  
 NT2 charmed baryons  
 NT3 lambda c-2625 baryons  
 NT3 lambda c plus baryons  
 NT3 omega c neutral baryons  
 NT3 sigma c-2455 baryons  
 NT3 xi c neutral baryons  
 NT3 xi c plus baryons  
 NT2 dibaryons  
 NT3 dineutrons  
 NT3 diprotons  
 NT3 lambda-n-2130 dibaryons  
 NT3 nn-2170 dibaryons  
 NT3 nn-2250 dibaryons  
 NT2 hyperons  
 NT3 antihyperons  
 NT4 antilambda particles  
 NT4 antiomega particles  
 NT4 antisigma particles  
 NT4 antixi particles  
 NT3 lambda baryons  
 NT4 lambda-1405 baryons  
 NT4 lambda-1520 baryons

- NT4** lambda-1600 baryons  
**NT4** lambda-1670 baryons  
**NT4** lambda-1690 baryons  
**NT4** lambda-1800 baryons  
**NT4** lambda-1810 baryons  
**NT4** lambda-1820 baryons  
**NT4** lambda-1830 baryons  
**NT4** lambda-1890 baryons  
**NT4** lambda-2100 baryons  
**NT4** lambda-2110 baryons  
**NT4** lambda particles  
**NT5** antilambda particles  
**NT3** lambda-n-2130 dibaryons  
**NT3** omega baryons  
**NT4** omega-2250 baryons  
**NT4** omega particles  
**NT5** antiomega particles  
**NT5** omega minus particles  
**NT3** sigma baryons  
**NT4** sigma-1385 baryons  
**NT4** sigma-1660 baryons  
**NT4** sigma-1670 baryons  
**NT4** sigma-1750 baryons  
**NT4** sigma-1770 baryons  
**NT4** sigma-1775 baryons  
**NT4** sigma-1915 baryons  
**NT4** sigma-1940 baryons  
**NT4** sigma-2030 baryons  
**NT4** sigma-2455 baryons  
**NT4** sigma particles  
**NT5** antisigma particles  
**NT5** sigma minus particles  
**NT5** sigma neutral particles  
**NT5** sigma plus particles  
**NT3** xi baryons  
**NT4** xi-1530 baryons  
**NT4** xi-1690 baryons  
**NT4** xi-1820 baryons  
**NT4** xi-1950 baryons  
**NT4** xi-2030 baryons  
**NT4** xi-2250 baryons  
**NT4** xi-2500 baryons  
**NT4** xi particles  
**NT5** antixi particles  
**NT5** xi minus particles  
**NT5** xi neutral particles  
**NT3** z\*baryons  
**NT2** n\*baryons  
**NT3** delta baryons  
**NT4** delta-1232 baryons  
**NT4** delta-1600 baryons  
**NT4** delta-1620 baryons  
**NT4** delta-1700 baryons  
**NT4** delta-1900 baryons  
**NT4** delta-1905 baryons  
**NT4** delta-1910 baryons  
**NT4** delta-1920 baryons  
**NT4** delta-1930 baryons  
**NT4** delta-1950 baryons  
**NT4** delta-2000 baryons  
**NT4** delta-2150 baryons  
**NT4** delta-2200 baryons  
**NT4** delta-2400 baryons  
**NT4** delta-2420 baryons  
**NT4** delta-3000 baryons  
**NT3** n baryons  
**NT4** n-1440 baryons  
**NT4** n-1520 baryons  
**NT4** n-1535 baryons  
**NT4** n-1650 baryons  
**NT4** n-1675 baryons  
**NT4** n-1680 baryons  
**NT4** n-1700 baryons  
**NT4** n-1710 baryons  
**NT4** n-1720 baryons  
**NT4** n-1960 baryons  
**NT4** n-1990 baryons  
**NT4** n-2000 baryons  
**NT4** n-2080 baryons  
**NT4** n-2100 baryons  
**NT4** n-2190 baryons  
**NT4** n-2250 baryons  
**NT4** n-3000 baryons  
**NT2** nucleons  
**NT3** antinucleons  
**NT4** antineutrons  
**NT4** antiprotons  
**NT3** neutrons  
**NT4** antineutrons  
**NT4** beta-delayed neutrons  
**NT4** cold neutrons  
**NT5** ultracold neutrons  
**NT4** cosmic neutrons  
**NT4** epithermal neutrons  
**NT4** fast neutrons  
**NT4** fission neutrons  
**NT5** delayed neutrons  
**NT5** prompt neutrons  
**NT4** intermediate neutrons  
**NT4** photoneutrons  
**NT4** pile neutrons  
**NT4** polynucleons  
**NT5** dineutrons  
**NT5** tetra-neutrons  
**NT5** trineutrons  
**NT4** resonance neutrons  
**NT4** slow neutrons  
**NT4** solar neutrons  
**NT4** thermal neutrons  
**NT3** photonucleons  
**NT4** photoneutrons  
**NT4** photoprotons  
**NT3** protons  
**NT4** antiprotons  
**NT4** cosmic protons  
**NT4** delayed protons  
**NT4** diprotons  
**NT4** photoprotons  
**NT4** prompt protons  
**NT4** solar protons  
**NT4** trapped protons  
**NT1** leptons  
**NT2** antileptons  
**NT3** antineutrinos  
**NT4** electron antineutrinos  
**NT4** muon antineutrinos  
**NT3** muons plus  
**NT3** positrons  
**NT4** cosmic positrons  
**NT2** electrons  
**NT3** cosmic electrons  
**NT3** exoelectrons  
**NT3** prompt electrons  
**NT3** runaway electrons  
**NT3** solar electrons  
**NT3** solvated electrons  
**NT3** tail electrons  
**NT3** trapped electrons  
**NT2** heavy leptons  
**NT3** heavy neutral muons  
**NT3** tau neutrinos  
**NT3** tau particles  
**NT2** muons  
**NT3** cosmic muons  
**NT3** muons minus  
**NT3** muons plus  
**NT2** neutrinos  
**NT3** antineutrinos  
**NT4** electron antineutrinos  
**NT4** muon antineutrinos  
**NT3** atmospheric neutrinos  
**NT4** conventional neutrinos  
**NT4** prompt neutrinos  
**NT3** cosmic neutrinos  
**NT3** electron neutrinos  
**NT4** electron antineutrinos  
**NT3** geoneutrinos  
**NT3** muon neutrinos  
**NT4** muon antineutrinos  
**NT3** reactor neutrinos  
**NT3** solar neutrinos  
**NT3** sterile neutrinos  
**NT3** tau neutrinos  
**NT1** majorana fermions  
**NT1** quarks  
**NT2** antiquarks  
**NT3** b antiquarks  
**NT3** c antiquarks  
**NT3** d antiquarks  
**NT3** s antiquarks  
**NT3** t antiquarks  
**NT3** u antiquarks  
**NT2** b quarks  
**NT3** b antiquarks  
**NT2** c quarks  
**NT3** c antiquarks  
**NT2** d quarks  
**NT3** d antiquarks  
**NT2** s quarks  
**NT3** s antiquarks  
**NT2** t quarks  
**NT3** t antiquarks  
**NT2** u quarks  
**NT3** u antiquarks  
**RT** boson-fermion symmetry  
**RT** fermi statistics  
**FERMIUM**  
**\*BT1** actinides  
**\*BT1** transplutonium elements  
**FERMIUM 241**  
*2008-10-20*  
**\*BT1** actinide nuclei  
**\*BT1** even-odd nuclei  
**\*BT1** fermium isotopes  
**\*BT1** microseconds living radioisotopes  
**\*BT1** spontaneous fission radioisotopes  
**FERMIUM 242**  
*INIS: 1976-03-25; ETDE: 1975-11-26*  
**\*BT1** actinide nuclei  
**\*BT1** even-even nuclei  
**\*BT1** fermium isotopes  
**\*BT1** microseconds living radioisotopes  
**\*BT1** spontaneous fission radioisotopes  
**FERMIUM 243**  
*INIS: 1986-06-09; ETDE: 1982-03-11*  
**\*BT1** actinide nuclei  
**\*BT1** alpha decay radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** fermium isotopes  
**\*BT1** milliseconds living radioisotopes  
**FERMIUM 244**  
**\*BT1** actinide nuclei  
**\*BT1** even-even nuclei  
**\*BT1** fermium isotopes  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** spontaneous fission radioisotopes  
**FERMIUM 245**  
**\*BT1** actinide nuclei  
**\*BT1** alpha decay radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** fermium isotopes  
**\*BT1** seconds living radioisotopes  
**\*BT1** spontaneous fission radioisotopes  
**FERMIUM 246**  
**\*BT1** actinide nuclei  
**\*BT1** alpha decay radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** fermium isotopes  
**\*BT1** seconds living radioisotopes  
**\*BT1** spontaneous fission radioisotopes  
**FERMIUM 247**  
**\*BT1** actinide nuclei  
**\*BT1** alpha decay radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 fermium isotopes
- \*BT1 seconds living radioisotopes

**FERMIUM 248**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 fermium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 249**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 fermium isotopes
- \*BT1 minutes living radioisotopes

**FERMIUM 250**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 fermium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 251**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 fermium isotopes
- \*BT1 hours living radioisotopes

**FERMIUM 252**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 fermium isotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 253**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 fermium isotopes

**FERMIUM 253 TARGET**

1980-05-14

- BT1 targets

**FERMIUM 254**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 fermium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 254 TARGET**

ETDE: 1976-07-09

- BT1 targets

**FERMIUM 255**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 fermium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 255 TARGET**

ETDE: 1976-07-09

- BT1 targets

**FERMIUM 256**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 fermium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 256 TARGET**

1980-05-14

- BT1 targets

**FERMIUM 257**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 fermium isotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 257 TARGET**

INIS: 1976-03-02; ETDE: 1976-07-12

- BT1 targets

**FERMIUM 258**

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 fermium isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 258 TARGET**

1980-05-14

- BT1 targets

**FERMIUM 259**

- \*BT1 actinide nuclei
- \*BT1 even-odd nuclei
- \*BT1 fermium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 259 TARGET**

1980-05-14

- BT1 targets

**FERMIUM 260**

2007-10-22

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 fermium isotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 260 TARGET**

1980-05-14

- BT1 targets

**FERMIUM 264**

2010-05-19

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 fermium isotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM BROMIDES**

INIS: 2000-04-12; ETDE: 1987-10-02

- \*BT1 bromides
- \*BT1 fermium halides

**FERMIUM CHLORIDES**

1996-07-18

(From July 1996 to February 2008 FERMIUM COMPOUNDS + CHLORIDES was used for this concept.)

- \*BT1 chlorides
- \*BT1 fermium halides

**FERMIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**FERMIUM COMPOUNDS**

1996-11-13

- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 fermium halides
- NT2 fermium bromides
- NT2 fermium chlorides
- NT2 fermium iodides
- NT1 fermium oxides

**FERMIUM HALIDES**

2008-02-07

- \*BT1 fermium compounds
- \*BT1 halides
- NT1 fermium bromides
- NT1 fermium chlorides
- NT1 fermium iodides

**FERMIUM IODIDES**

INIS: 1997-01-28; ETDE: 1987-10-02

(From October 1996 to February 2008 FERMIUM COMPOUNDS + IODIDES was used for this concept.)

- \*BT1 fermium halides
- \*BT1 iodides

**FERMIUM IONS**

- \*BT1 ions

**FERMIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 fermium 241
- NT1 fermium 242
- NT1 fermium 243
- NT1 fermium 244
- NT1 fermium 245
- NT1 fermium 246
- NT1 fermium 247
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- NT1 fermium 255
- NT1 fermium 256
- NT1 fermium 257
- NT1 fermium 258
- NT1 fermium 259
- NT1 fermium 260
- NT1 fermium 264

**FERMIUM OXIDES**

1996-07-18

(From July 1996 to November 2007 FERMIUM COMPOUNDS + OXIDES was used for this concept.)

- \*BT1 fermium compounds
- \*BT1 oxides

***fernal* production plant**

INIS: 2000-04-12; ETDE: 1991-03-11

- USE feed materials production center

**FERNS**

- UF *azolla*
- BT1 plants

***ferranti* computers**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE computers

**FERRATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 iron compounds

BT1 oxygen compounds  
RT iron oxides

**FERREDOXIN**

INIS: 1993-08-26; ETDE: 1978-07-06

\*BT1 metalloproteins  
RT rubredoxin

**ferric compounds**

USE iron compounds

**FERRICYANIDES**

UF cyanoferrates  
\*BT1 iron complexes

**FERRIMAGNETIC MATERIALS**

UF materials (ferrimagnetic)  
\*BT1 magnetic materials  
NT1 ferrites  
RT ferrimagnetic resonance  
RT ferrimagnetism  
RT ferrite garnets  
RT perovskites

**FERRIMAGNETIC RESONANCE**

INIS: 1977-09-06; ETDE: 1977-10-19

\*BT1 magnetic resonance  
RT ferrimagnetic materials  
RT ferrimagnetism

**FERRIMAGNETISM**

BT1 magnetism  
RT antiferromagnetism  
RT ferrimagnetic materials  
RT ferrimagnetic resonance  
RT ferromagnetism

**FERRITE**

A solid solution of carbon in alpha-iron.

\*BT1 carbon additions  
\*BT1 iron alloys  
RT ferritic steels  
RT iron-alpha  
RT magnetite  
RT martensite  
RT pearlite  
RT solid solutions  
RT steel-cr2moninb  
RT steels

**FERRITE GARNETS**

Minerals with the general formula  $Y_3M_5O_{12}$ , where *Y* is yttrium or other rare earth, and *M* is usually iron, but may be another metal. For silicate garnets use GARNETS.

UF iron garnets  
UF yttrium aluminium garnets  
\*BT1 oxide minerals  
RT ferrimagnetic materials  
RT garnets

**FERRITES**

Specific compounds should be indexed by coordination of a descriptor of the form (cation) compounds and the above anion descriptor.

\*BT1 ferrimagnetic materials  
\*BT1 iron compounds  
BT1 oxygen compounds  
RT iron oxides

**FERRITIC STEELS**

INIS: 1979-05-28; ETDE: 1979-09-06

\*BT1 steels  
NT1 steel-cr12moniv  
NT1 steel-cr13al  
NT2 stainless steel-405  
NT1 steel-cr16  
NT2 stainless steel-430  
NT1 steel-cr25  
NT2 stainless steel-446  
NT1 steel-cr9mo

NT1 steel-cr9monbv  
RT corrosion resistant alloys  
RT ferrite

**FERRITIN**

\*BT1 iron complexes  
\*BT1 metalloproteins  
RT hemosiderin  
RT iron

**ferroan**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)  
SEE carbonates

**ferrobacillus ferrooxidans**

INIS: 2000-04-12; ETDE: 1977-09-19  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE bacillus

**FERROCENE**

\*BT1 dienes  
\*BT1 iron complexes

**FERROCYANIDES**

UF prussian blue  
\*BT1 iron complexes

**FERROELECTRIC CONVERTERS**

INIS: 2000-04-12; ETDE: 1977-03-04

BT1 direct energy converters  
RT ferroelectric materials

**FERROELECTRIC MATERIALS**

UF materials (ferroelectric)  
\*BT1 dielectric materials  
RT antiferroelectric materials  
RT ferroelectric converters

**ferrofluids**

INIS: 2000-04-12; ETDE: 1985-03-12  
(Prior to March 1997 MAGNETIC LIQUIDS was used for this concept in ETDE.)  
USE liquids  
USE magnetic materials

**FEROIN**

\*BT1 phenanthrolines  
BT1 reagents  
RT iron complexes  
RT phenanthroline-ortho

**FERROMAGNETIC MATERIALS**

UF materials (ferromagnetic)  
\*BT1 magnetic materials  
RT antiferromagnetic materials  
RT ferromagnetic resonance  
RT magnetic semiconductors  
RT spin glass state

**FERROMAGNETIC RESONANCE**

INIS: 1976-05-07; ETDE: 1976-08-04

\*BT1 magnetic resonance  
RT ferromagnetic materials  
RT ferromagnetism

**FERROMAGNETISM**

UF nuclear ferromagnetism  
BT1 magnetism  
NT1 mictomagnetism  
RT antiferromagnetism  
RT curie point  
RT ferrimagnetism  
RT ferromagnetic resonance  
RT heisenberg model  
RT hubbard model

**FERRON**

\*BT1 hydroxy compounds  
\*BT1 organic iodine compounds  
\*BT1 quinolines

BT1 reagents  
\*BT1 sulfonic acids

**ferrous compounds**

USE iron compounds

**ferrox process**

2000-04-12

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**FERSMITE**

2000-04-12

\*BT1 radioactive minerals

**FERTILE MATERIALS**

Materials containing nuclides capable of being transformed into fissile nuclides by neutron capture.

BT1 materials  
RT breeding blankets  
RT nuclear fuel conversion  
RT nuclear fuels

**FERTILITY**

RT female genitals  
RT fertilization  
RT gonads  
RT male genitals  
RT menopause  
RT menstrual cycle  
RT progeny  
RT reproduction  
RT reproductive disorders  
RT sterility

**FERTILIZATION**

INIS: 1986-12-18; ETDE: 1977-10-20

RT fertility  
RT gametes  
RT ova  
RT ovulation  
RT reproduction  
RT zygotes

**FERTILIZER INDUSTRY**

INIS: 1993-01-28; ETDE: 1977-08-09

BT1 industry  
RT agriculture

**FERTILIZERS**

NT1 superphosphates  
RT agriculture  
RT eutrophication  
RT nitrogen cycle  
RT nutrients  
RT plants  
RT soil chemistry  
RT soil conservation

**feshbach-porter-weisskopf model**

USE optical models

**FESHBACH-WEISSKOPF MODEL**

RT nuclear reactions

**FESSENHEIM-1 REACTOR**

Electricite de France, Fessenheim, Haut-Rhin, France

\*BT1 pwr type reactors

**FESSENHEIM-2 REACTOR**

Electricite de France, Fessenheim, Haut-Rhin, France

\*BT1 pwr type reactors

**FETAL MEMBRANES**

UF amnion  
UF chorioallantoic membrane  
BT1 membranes  
NT1 placenta  
RT embryos

RT fetuses

## FETUSES

RT age groups  
 RT amniotic fluid  
 RT congenital malformations  
 RT embryos  
 RT fetal membranes  
 RT ontogenesis  
 RT pregnancy  
 RT prenatal exposure  
 RT prenatal irradiation  
 RT teratogens  
 RT uterus

## FEULGEN METHOD

RT cytochemistry  
 RT dna

## FEVER

BT1 symptoms  
 RT antipyretics  
 RT body temperature  
 RT heat stress  
 RT hyperthermia  
 RT pyrogens

## FEYNMAN DIAGRAM

\*BT1 diagrams  
 RT quantum field theory

## FEYNMAN GAS MODEL

\*BT1 particle models  
 \*BT1 statistical models

## FEYNMAN-GELL-MANN THEORY

RT beta decay  
 RT neutrinos

## FEYNMAN METHOD

UF *welton method*  
 BT1 calculation methods  
 RT neutron transport theory  
 RT transport theory

## FEYNMAN PATH INTEGRAL

\*BT1 path integrals  
 RT propagator  
 RT quantum mechanics  
 RT wilson loop

## FFTF REACTOR

*Westinghouse Hanford Company, Richland, Washington, USA. Shut down in 1992.*

UF *fast flux test facility*  
 UF *fast flux test facility reactor*  
 UF *fr reactor (richland)*  
 UF *richland fff reactor*  
 \*BT1 fast reactors  
 \*BT1 research reactors  
 \*BT1 sodium cooled reactors  
 \*BT1 test reactors  
 RT hanford engineering development laboratory

## FIAN SYNCHROTRON

UF *lebedev synchrotron*  
 \*BT1 synchrotrons

## FIBER OPTICS

*INIS: 1979-04-27; ETDE: 1978-09-11*  
*The technique of transmitting light through long, thin, flexible fibers of glass, plastic or other transparent materials.*

BT1 optics  
 RT light transmission  
 RT optical equipment  
 RT optical fibers  
 RT optical properties  
 RT optical systems  
 RT optoelectronic devices

## FIBERGLASS

*INIS: 1978-08-30; ETDE: 1978-04-06*

\*BT1 composite materials  
 RT fibers  
 RT glass  
 RT glazing materials  
 RT organic polymers

## FIBERS

*1996-08-05*

NT1 carbon fibers  
 NT1 optical fibers  
 RT aramids  
 RT cotton  
 RT dacron  
 RT fiberglass  
 RT jute  
 RT mineral wool  
 RT rayon  
 RT synthetic materials  
 RT textiles  
 RT wool

## *fibration (topological maps)*

USE mapping fibration

## FIBRIN

\*BT1 blood coagulation factors  
 \*BT1 scleroproteins

## FIBRINOGEN

\*BT1 blood coagulation factors  
 \*BT1 globulins

## FIBRINOLYSIN

*ETDE: 1981-06-13*

*Code number 3.4.21.7.*

UF *plasmin*  
 \*BT1 fibrinolytic agents  
 \*BT1 serine proteinases  
 RT anticoagulants  
 RT blood coagulation  
 RT blood coagulation factors  
 RT fibrinolysis  
 RT thrombosis

## FIBRINOLYSIS

\*BT1 proteolysis  
 RT fibrinolysis  
 RT streptococcal proteinase  
 RT urokinase

## FIBRINOLYTIC AGENTS

*INIS: 1996-11-13; ETDE: 1981-04-20*

UF *streptidine kinase*  
 \*BT1 hematologic agents  
 NT1 fibrinolysin  
 NT1 plasminogen  
 NT1 urokinase  
 RT anticoagulants  
 RT blood substitutes  
 RT coagulants  
 RT hematincs

## FIBROBLASTS

\*BT1 connective tissue cells  
 RT collagen  
 RT fibrosis  
 RT l cells

## FIBROSARCOMAS

\*BT1 sarcomas

## FIBROSIS

BT1 pathological changes  
 RT connective tissue  
 RT fibroblasts

## FICK LAWS

RT diffusion  
 RT neutron diffusion equation  
 RT neutron transport theory

## FIDUCIAL MARKERS

*2015-05-18*

*Objects placed in the field of view of an imaging system which appear in the image produced, for use as points of reference or measure.*

RT benchmarks  
 RT image processing  
 RT measuring methods  
 RT pattern recognition

## FIELD ALGEBRA

RT current algebra  
 RT parastatistics  
 RT quantum field theory

## FIELD EFFECT TRANSISTORS

UF *unipolar transistors*  
 \*BT1 transistors  
 NT1 mosfet

## FIELD EMISSION

BT1 emission  
 RT electron emission  
 RT ion emission  
 RT ion microscopy

## *field emission microscopy*

USE ion microscopy

## FIELD EQUATIONS

BT1 equations  
 NT1 dirac equation  
 NT2 dirac spinors  
 NT1 einstein field equations  
 NT1 einstein-maxwell equations  
 NT1 klein-gordon equation  
 NT1 sine-gordon equation  
 RT field theories  
 RT instantons  
 RT maxwell equations  
 RT merons  
 RT solitons

## FIELD FLOW FRACTIONATION

*2014-03-28*

BT1 separation processes

## *field ion microscopy*

USE ion microscopy

## *field offices*

*INIS: 2000-04-12; ETDE: 1983-03-24*

USE us doe field offices

## FIELD OPERATORS

\*BT1 quantum operators  
 RT quantum field theory  
 RT vacuum states

## FIELD PRODUCTION EQUIPMENT

*INIS: 1994-09-08; ETDE: 1984-03-19*

BT1 equipment  
 NT1 well injection equipment  
 NT1 well recovery equipment  
 NT1 wellheads  
 RT natural gas fields  
 RT natural gas wells  
 RT oil fields  
 RT oil wells

## *field-reversed configurations*

*INIS: 1986-08-19; ETDE: 2002-06-13*

USE field-reversed theta pinch devices

## *field-reversed mirror reactors*

*INIS: 1995-01-16; ETDE: 1978-04-06*

*(Prior to January 1995, this was a valid ETDE descriptor.)*

USE magnetic mirror type reactors  
 USE reversed-field mirrors

**field-reversed mirrors**

INIS: 1982-11-30; ETDE: 2002-06-13  
 USE reversed-field mirrors

**FIELD-REVERSED THETA PINCH DEVICES**

INIS: 1986-08-19; ETDE: 1986-09-05  
 A type of compact torus with poloidal magnetic field only.

UF field-reversed configurations  
 \*BT1 compact torus  
 \*BT1 pinch devices

**FIELD TESTS**

INIS: 1981-05-11; ETDE: 1979-02-05  
 BT1 testing  
 RT bench-scale experiments  
 RT demonstration plants  
 RT feasibility studies  
 RT process development units

**FIELD THEORIES**

NT1 general relativity theory  
 NT1 quantum field theory  
 NT2 axiomatic field theory  
 NT3 algebraic field theory  
 NT3 lsz theory  
 NT3 wightman field theory  
 NT2 constructive field theory  
 NT3 lattice field theory  
 NT2 lagrangian field theory  
 NT2 phi4-field theory  
 NT2 quantum chromodynamics  
 NT2 quantum electrodynamics  
 NT3 schwinger-tomonaga formalism  
 NT2 quantum flavordynamics  
 NT2 quantum gravity  
 NT3 loop quantum gravity  
 NT2 unified gauge models  
 NT3 grand unified theory  
 NT4 standard model  
 NT3 weinberg-salam gauge model  
 NT2 yukawa nonlocal theory  
 NT1 unified field theories  
 NT2 einstein-schroedinger theory  
 NT2 kaluza-klein theory  
 NT2 supergravity  
 NT2 weinberg-salam gauge model  
 NT2 weyl unified theory  
 RT action integral  
 RT electrodynamics  
 RT field equations  
 RT instantons  
 RT string theory

**fields (crossed)**

USE crossed fields

**fields (electric)**

USE electric fields

**fields (electromagnetic)**

INIS: 1982-04-14; ETDE: 1982-05-07  
 USE electromagnetic fields

**fields (gravitational)**

USE gravitational fields

**fields (magnetic)**

USE magnetic fields

**FIERZ INTERFERENCE**

RT beta decay

**FIERZ-PAULI THEORY**

RT quantum mechanics

**FIFTH SOUND**

INIS: 1977-09-15; ETDE: 1977-11-10  
 RT sound waves  
 RT superfluidity

**FIGS**

\*BT1 fruits

**figure of merit**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE performance

**FIJI**

BT1 islands  
 RT pacific ocean

**filament (plasma)**

USE plasma filament

**FILAMENT CRYSTAL COUNTERS**

Gamma counter filled with crystalline argon, xenon, methane, etc. at cryogenic temperatures.

\*BT1 crystal counters  
 RT gamma detection

**FILAMENTS**

RT wires

**FILARIASIS**

INIS: 1975-09-16; ETDE: 1975-10-28  
 \*BT1 parasitic diseases  
 RT nematodes  
 RT parasites

**FILL FACTORS**

2000-04-12  
 Fractions of power available to loads.  
 BT1 dimensionless numbers  
 RT power demand  
 RT power generation

**FILLER METALS**

RT brazing alloys  
 RT welding

**FILLERS**

RT binders  
 RT grouting

**filling stations**

INIS: 2000-04-12; ETDE: 1979-05-09  
 USE gasoline service stations

**film badges**

USE photographic film dosimeters

**FILM BOILING**

\*BT1 boiling

**FILM CONDENSATION**

BT1 vapor condensation  
 RT steam condensers

**FILM COOLING**

BT1 cooling

**film dosimeters**

USE photographic film dosimeters

**FILM DOSIMETRY**

BT1 dosimetry  
 RT photographic film dosimeters

**FILM FLOW**

1975-08-20  
 BT1 fluid flow  
 RT helium ii  
 RT superfluidity

**FILMLESS SPARK CHAMBERS**

\*BT1 spark chambers  
 NT1 sonic spark chambers  
 NT1 wire spark chambers

**FILMS**

Not for the concepts covered by PHOTOGRAPHIC FILMS or NUCLEAR EMULSIONS.

NT1 solar control films  
 NT1 superconducting films  
 NT1 thin films  
 RT coatings  
 RT foils  
 RT heat mirrors  
 RT layers  
 RT waterproofing

**FILTERS**

See also DIGITAL FILTERS.

NT1 air filters  
 NT1 electric filters  
 NT1 electromagnetic filters  
 NT1 fabric filters  
 NT1 magnetic filters  
 NT1 mechanical filters  
 NT2 granular bed filters  
 NT1 optical filters  
 RT aerosols  
 RT coolant cleanup systems  
 RT diatomaceous earth  
 RT dust collectors  
 RT dusts  
 RT filtration  
 RT fouling  
 RT hot gas cleanup  
 RT respirators  
 RT samplers  
 RT screens  
 RT scrubbing  
 RT sorting  
 RT suspensions  
 RT ultrafiltration  
 RT ventilation

**filters (electric)**

2000-04-12  
 USE electric filters

**FILTRATION**

BT1 separation processes  
 NT1 ultrafiltration  
 RT electromagnetic filters  
 RT filters  
 RT hot gas cleanup  
 RT magnetic filters

**FINAL-STATE INTERACTIONS**

BT1 interactions  
 RT proximity scattering

**financial assistance**

INIS: 1982-12-03; ETDE: 1979-12-17  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
 USE financing

**FINANCIAL DATA**

1992-09-01  
 Use only in conjunction with literary indicator N for data flagging.  
 UF assets  
 SF credits  
 SF debits  
 \*BT1 numerical data  
 RT budgets  
 RT economics  
 RT reactor licensing

**FINANCIAL INCENTIVES**

INIS: 1997-06-19; ETDE: 1976-12-16  
 (From January 1981 till March 1997 LOAN GUARANTEES was a valid ETDE descriptor. From May 1979 till April 1997 SUBSIDIES was a valid ETDE descriptor.)  
 UF loan guarantees



UF *property tax exemption*  
 UF *subsidies*  
 SF *incentives*  
**NT1** tax credits  
 RT depreciation  
 RT economics  
 RT financing  
 RT legal aspects  
 RT national energy conservation incentives act  
 RT payback period  
 RT socio-economic factors  
 RT taxes  
 RT us depletion allowances  
 RT us economic recovery tax act  
 RT us energy tax act

### financial management

INIS: 2000-04-12; ETDE: 1983-03-23  
 USE program management

### financial penalties

INIS: 2000-04-12; ETDE: 1979-07-24  
 USE charges

### FINANCIAL SECURITY

INIS: 1976-12-08; ETDE: 1989-04-19  
*Insurance or other financial security a nuclear operator must have to cover his civil liability.*  
 UF *security (financial)*  
 RT insurance  
 RT liabilities  
 RT victims compensation  
 RT workmens compensation

### FINANCING

(CREDIT ACCOUNTS, CREDIT CARDS, DISBURSEMENTS, FINANCIAL ASSISTANCE, and GRANTS have been valid ETDE descriptors.)

UF *financial assistance*  
 UF *grants*  
 UF *loans*  
 SF *bank accounts*  
 SF *credit accounts*  
 SF *credit cards*  
 SF *disbursements*  
 SF *letters-of-credit*  
 RT amortization  
 RT budgets  
 RT capital  
 RT cost  
 RT cost recovery  
 RT depreciation  
 RT economics  
 RT economy  
 RT expenditures  
 RT financial incentives  
 RT interest rate  
 RT investment  
 RT lending institutions  
 RT world bank

### fine control rods

USE regulating rods

### FINE PARTICLES

2014-08-20  
*Particles with an aerodynamic diameter from 100 to 2500 nm.*  
 BT1 particles

### FINE STRUCTURE

RT energy levels  
 RT paschen-back effect  
 RT sommerfeld constant  
 RT spectra

### fingerprinting (oil spills)

INIS: 2000-04-12; ETDE: 1978-08-07  
 USE oil spills

USE pattern recognition

### FINGERS

\*BT1 hands  
 RT nails

### finished oils

INIS: 2000-04-12; ETDE: 1979-12-10  
*Products requiring no further refinery processing.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE petroleum products

### finishing (surface)

USE surface finishing

### FINITE DIFFERENCE METHOD

UF *coarse mesh method*  
 \*BT1 iterative methods  
 \*BT1 numerical solution  
 RT boundary element method  
 RT differential equations  
 RT finite element method  
 RT mathematics  
 RT mesh generation  
 RT nodal expansion method

### FINITE ELEMENT METHOD

BT1 calculation methods  
 \*BT1 numerical solution  
 NT1 boundary element method  
 RT differential equations  
 RT finite difference method  
 RT mathematics  
 RT mesh generation  
 RT nodal expansion method

### FINITE-RANGE INTERACTIONS

BT1 interactions  
 RT nuclear reaction kinetics  
 RT zero-range approximation

### FINLAND

BT1 developed countries  
 \*BT1 scandinavia  
 RT oecd  
 RT sami people

### FINNISH ORGANIZATIONS

INIS: 1976-08-17; ETDE: 1976-11-01  
 BT1 national organizations

### finnish reactor-1

USE fir-1 reactor

### FINS

RT reactor components  
 RT spacers  
 RT vanes

### FIORDS

INIS: 1992-06-04; ETDE: 1980-11-25  
*Arms of the sea having steep sides, deep bottoms, and shallow sills separating them from the sea.*

\*BT1 estuaries  
 RT salinity  
 RT seawater

### FIR-1 REACTOR

*Technical Research Centre of Finland Reactor Lab., Espoo, Finland. Permanent shutdown since 2015*

UF *finnish reactor-1*  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

### FIRE DETECTORS

INIS: 1992-01-22; ETDE: 1986-01-14  
 BT1 measuring instruments  
 NT1 smoke detectors  
 RT alarm systems  
 RT fire prevention  
 RT safety

### FIRE EXTINGUISHERS

RT fire fighting  
 RT fires  
 RT safety

### FIRE FIGHTING

INIS: 1985-12-10; ETDE: 1978-04-28  
 RT fire extinguishers  
 RT fire hazards  
 RT fires  
 RT safety

### fire flooding

INIS: 2000-04-12; ETDE: 1988-05-23  
 USE in-situ combustion

### FIRE HAZARDS

BT1 hazards  
 RT fire fighting  
 RT fire prevention  
 RT fires  
 RT spontaneous combustion

### FIRE PREVENTION

INIS: 1985-12-10; ETDE: 1975-08-19  
 RT combustion  
 RT fire detectors  
 RT fire hazards  
 RT fire resistance  
 RT fires  
 RT mineral-insulated cables  
 RT safety  
 RT spontaneous combustion

### FIRE RESISTANCE

RT fire prevention  
 RT fires  
 RT thermal insulation

### fire stations

INIS: 2000-04-12; ETDE: 1981-01-09  
 USE public buildings

### FIREBALL MODEL

UF *two-fireball model*  
 \*BT1 particle models  
 RT centauro-type events  
 RT cluster emission model

### fireballs

INIS: 2000-04-12; ETDE: 1979-05-02  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 SEE flames  
 SEE nuclear fireballs

### fireballs (nuclear)

INIS: 1975-08-22; ETDE: 2002-06-13  
 USE nuclear fireballs

### fire damp

INIS: 2000-04-12; ETDE: 1978-04-28  
 USE methane

### firehose instability

USE hose instability

### FIREPLACES

INIS: 2000-04-12; ETDE: 1977-06-21  
 RT chimneys  
 RT space heating

### FIRES

RT accidents  
 RT burns

RT combustion  
 RT explosions  
 RT fire extinguishers  
 RT fire fighting  
 RT fire hazards  
 RT fire prevention  
 RT fire resistance  
 RT flammability  
 RT hazards  
 RT natural disasters  
 RT safety engineering  
 RT smoke detectors  
 RT spontaneous combustion

**firestreak model**

INIS: 1978-09-28; ETDE: 1978-10-19  
 USE nuclear fireball model

**firewood**

INIS: 1992-04-09; ETDE: 1981-01-30  
 USE wood fuels

**FIRS**

INIS: 1992-02-05; ETDE: 1985-12-11  
 UF abies  
 \*BT1 conifers  
 \*BT1 trees

**FIRST AID**

UF cardiopulmonary resuscitation  
 UF cpr  
 \*BT1 therapy  
 RT accident management  
 RT accidents  
 RT health hazards  
 RT injuries  
 RT safety showers  
 RT single intake

**first sound**

INIS: 2000-04-12; ETDE: 1997-09-02  
 USE sound waves

**FIRST WALL**

INIS: 1975-08-20; ETDE: 1975-10-01  
 BT1 thermonuclear reactor walls  
 RT steel-cr10mo2  
 RT wall loading

**FISCHER ASSAY**

2000-04-12  
 RT oil shales  
 RT shale oil

**fischer-tropsch/mobil process**

INIS: 2000-04-12; ETDE: 1984-02-10  
 Two-stage process from synthesis gas to gasoline with different catalysts in each stage. (Prior to March 1994, this was a valid ETDE descriptor.)

SEE coal gasification  
 SEE coal liquefaction

**FISCHER-TROPSCH SYNTHESIS**

UF synthine process  
 BT1 chemical reactions  
 RT hydrocarbons  
 RT hydrogenation  
 RT sasol-ii process

**fish and wildlife service**

INIS: 2000-04-12; ETDE: 1984-12-26  
 USE us fws

**fish culture**

INIS: 1992-05-08; ETDE: 1975-11-12  
 USE fisheries

**fish hatcheries**

INIS: 1992-05-08; ETDE: 1981-08-21  
 USE fisheries

**fish ladders**

INIS: 1991-08-09; ETDE: 1980-01-24  
 USE fish passage facilities

**fish lifts**

INIS: 1991-08-09; ETDE: 1980-01-24  
 USE fish passage facilities

**fish locks**

INIS: 1991-08-09; ETDE: 1980-01-24  
 USE fish passage facilities

**fish meal**

USE fish products

**FISH OIL**

INIS: 1976-10-29; ETDE: 1976-12-16  
 \*BT1 oils  
 RT fishes  
 RT hydrocarbons

**FISH PASSAGE FACILITIES**

INIS: 1991-08-09; ETDE: 1980-01-24  
 Structures that carry water around dams thus facilitating the migration of fish.

UF fish ladders  
 UF fish lifts  
 UF fish locks  
 UF fishways  
 RT anadromous fishes  
 RT dams  
 RT fishes  
 RT hydroelectric power plants  
 RT migration

**FISH PRODUCTS**

UF fish meal  
 NT1 seafood  
 RT fishes

**FISH SCALES**

INIS: 1992-07-23; ETDE: 1977-05-07  
 RT fishes  
 RT skin

**FISHBONE INSTABILITY**

INIS: 1984-06-25; ETDE: 1984-07-10  
 \*BT1 plasma macroinstabilities

**FISHERIES**

INIS: 1992-05-08; ETDE: 1981-08-04  
 (Prior to August 1981, this concept in ETDE was indexed to AQUACULTURE.)  
 UF fish culture  
 UF fish hatcheries  
 RT aquaculture  
 RT fishing industry

**FISHERY LAWS**

1990-12-15  
 (Prior to December 1990, this descriptor was spelled FISHERY LAW.)  
 BT1 laws  
 RT high seas  
 RT territorial waters

**FISHES**

Not for the concept of the edible flesh of a fish for which use SEAFOOD.  
 UF flukes (fishes)  
 UF misgurnus  
 BT1 aquatic organisms  
 \*BT1 vertebrates  
 NT1 anadromous fishes  
 NT2 salmon  
 NT2 striped bass  
 NT1 codfish  
 NT1 eel  
 NT1 fathead minnow  
 NT1 goldfish  
 NT1 plaice  
 NT1 trout

NT1 tuna  
 RT aquaculture  
 RT fish oil  
 RT fish passage facilities  
 RT fish products  
 RT fish scales  
 RT food  
 RT gas bubble disease  
 RT gills  
 RT ichthyoplankton  
 RT seafood  
 RT surface waters

**FISHING INDUSTRY**

INIS: 1975-12-17; ETDE: 1976-01-26  
 BT1 industry  
 RT fisheries

**fishways**

INIS: 1991-08-09; ETDE: 1980-01-24  
 USE fish passage facilities

**FISSILE MATERIALS**

Materials containing nuclides capable of undergoing fission by interaction with slow neutrons.

\*BT1 fissionable materials  
 RT fission  
 RT nuclear fuels  
 RT nuclear materials management

**fissile materials cut-off treaty**

2010-03-03  
 USE fmct

**FISSION**

1996-01-24  
 UF disintegration (fission)  
 BT1 nuclear reactions  
 NT1 binary fission  
 NT1 cold fission  
 NT1 electrofission  
 NT1 fast fission  
 NT1 photofission  
 NT1 quaternary fission  
 NT1 spontaneous fission  
 NT1 ternary fission  
 NT1 thermal fission  
 RT bohr-wheeler theory  
 RT chain reactions  
 RT criticality  
 RT fast fission factor  
 RT fissile materials  
 RT fission barrier  
 RT fission fragments  
 RT fission products  
 RT fission spectra  
 RT fission yield  
 RT fissionable materials  
 RT fissioning plasma  
 RT governor model  
 RT nuclear explosions  
 RT nuclear fragmentation  
 RT nuclear fragments  
 RT order-disorder model  
 RT quasi-fission  
 RT reactors  
 RT recoils  
 RT scission-point model  
 RT spallation  
 RT strutinsky theory  
 RT thermal fission factor  
 RT watt fission spectrum

**FISSION BARRIER**

\*BT1 nuclear potential  
 \*BT1 potential energy  
 RT excitation  
 RT fission

**FISSION CHAMBERS**

- \*BT1 ionization chambers
- \*BT1 neutron detectors
- RT threshold detectors

**FISSION FOIL DETECTORS**

- \*BT1 neutron detectors
- RT activation detectors
- RT dielectric track detectors
- RT fission thermocouple detectors
- RT threshold detectors

**FISSION FRAGMENT DETECTION**

- \*BT1 radiation detection
- RT charged particle detection
- RT radiation detectors

**FISSION FRAGMENT SPECTROMETERS**

- \*BT1 spectrometers

**FISSION FRAGMENTS**

- UF fragments (fission)
- BT1 nuclear fragments
- RT fission
- RT fission tracks

**FISSION ISOMERS**

- RT isomeric nuclei
- RT spontaneous fission

**fission-like reactions**

- INIS: 1977-04-07; ETDE: 2002-06-13
- USE quasi-fission

**FISSION NEUTRONS**

- \*BT1 neutrons
- NT1 delayed neutrons
- NT1 prompt neutrons
- RT multiplication factors

**FISSION POISONS**

- \*BT1 nuclear poisons

**FISSION PRODUCT RELEASE**

1995-05-10

Coordinate with descriptors for the area of release, such as BIOSPHERE or COOLANTS, and for the specific fission products, if known.

- UF release (fission product)
- RT containment
- RT contamination
- RT degassing
- RT desorption
- RT fission products
- RT international nuclear event scale
- RT leaks
- RT radiation hazards
- RT radioactive waste disposal
- RT removal
- RT source terms

**FISSION PRODUCTS**

1996-07-18

(Prior to March 1997 FONG THEORY was a valid ETDE descriptor.)

- UF debris (nuclear)
- SF fong-newton theory
- SF fong theory
- BT1 isotopes
- \*BT1 radioactive materials
- RT accidents
- RT containment
- RT containment systems
- RT fallout
- RT fission
- RT fission product release
- RT fission yield
- RT fissionium
- RT fuel cooling time
- RT fuel reprocessing plants
- RT nuclear explosions

- RT radioactive wastes
- RT reactors
- RT source terms
- RT spent fuels

**FISSION RATIO**

- BT1 dimensionless numbers
- RT capture-to-fission ratio
- RT resonance neutrons

**fission reactor control theory**

- INIS: 1982-11-29; ETDE: 2002-06-13
- USE reactor kinetics

**FISSION SPECTRA**

- UF spectra (fission)
- BT1 spectra
- RT fission
- RT prompt neutrons

**FISSION THERMOCOUPLE DETECTORS**

- INIS: 2000-04-12; ETDE: 1979-03-27
- Neutron detectors using a thin film of fissile material overlaid on a thermocouple junction.
- \*BT1 neutron detectors
- RT fission foil detectors
- RT thermocouples

**FISSION TRACKS**

- BT1 particle tracks
- RT age estimation
- RT fission fragments

**FISSION YIELD**

- UF yield (fission)
- \*BT1 nuclear reaction yield
- RT fission
- RT fission products

**FISSIONABLE MATERIALS**

Materials containing nuclides capable of undergoing fission by any process.

- BT1 materials
- NT1 fissile materials
- RT accelerator breeders
- RT fission
- RT fuel cycle
- RT nuclear materials management
- RT radioactive wastes

**fissionable materials management**

- USE nuclear materials management

**FISSIONING PLASMA**

- BT1 plasma
- RT chain reactions
- RT fission
- RT gas fuels
- RT space propulsion reactors

**FISSIONIUM**

- RT fission products
- RT nuclear fuels

**fissured formations**

- INIS: 2000-04-12; ETDE: 1977-08-24
- USE fractured reservoirs

**FISTULAE**

- BT1 pathological changes
- RT necrosis
- RT ulcers

**FITZPATRICK REACTOR**

- Entergy Nuclear Operations, Inc., North Scriba, New York, USA.
- UF easton power reactor
- UF james a. fitzpatrick reactor
- \*BT1 bwr type reactors

**five-dimensional calculations**

- INIS: 1984-04-04; ETDE: 2002-06-13
- USE many-dimensional calculations

**fixation (carbon dioxide)**

- 1982-02-10
- USE carbon dioxide fixation

**fixation (nitrogen)**

- INIS: 1982-02-10; ETDE: 2002-06-13
- USE nitrogen fixation

**fixation (waste treatment)**

- USE solidification

**fixed beds**

- INIS: 1992-03-02; ETDE: 2001-01-23
- USE packed beds

**FIXED MIRROR COLLECTORS**

- INIS: 2000-04-12; ETDE: 1978-08-07
- \*BT1 concentrating collectors

**fixed-price contracts**

- INIS: 2000-04-12; ETDE: 1983-03-23
- (Prior to February 1995, this was a valid ETDE descriptor.)
- USE contracts

**fixed scattering centres****approximation**

- INIS: 1984-04-04; ETDE: 2003-01-10
- USE fsc approximation

**flagyl**

- USE metronidazole

**FLAMANVILLE-1 REACTOR**

- INIS: 1984-07-20; ETDE: 1984-09-05
- Electricite de France, Flamanville, Manche, France
- \*BT1 pwr type reactors

**FLAMANVILLE-2 REACTOR**

- INIS: 1984-07-20; ETDE: 1984-09-05
- Electricite de France, Flamanville, Manche, France
- \*BT1 pwr type reactors

**FLAMANVILLE-3 REACTOR**

- 2010-08-17
- European Pressurised Reactor - EPR, Electricite de France, Flamanville, Manche, France
- \*BT1 pwr type reactors

**flame chamber process**

- INIS: 2000-04-12; ETDE: 1976-11-01
- High-temperature waste combustion process in which waste is fed into ring column created between two concentric cylinders causing combustion steps to be above each other rather than following each other.
- (Prior to February 1995, this was a valid ETDE descriptor.)
- USE waste processing

**FLAME EXTINCTION**

- 2007-01-08
- RT flame propagation
- RT flames

**FLAME PHOTOMETRY**

- INIS: 2000-04-12; ETDE: 1980-11-08
- BT1 photometry
- RT spectrophotometry
- RT spectroscopy

**FLAME PROPAGATION**

- INIS: 1998-12-08; ETDE: 1976-09-28
- RT blowoff
- RT combustion kinetics

RT flame extinction  
 RT flames  
 RT flashback

**flame spectrometry**

INIS: 2000-04-12; ETDE: 1980-08-12  
 USE emission spectroscopy

**FLAME SPRAYING**

\*BT1 spray coating

**flame temperature**

INIS: 2000-04-12; ETDE: 1975-11-11  
 USE combustion properties

**FLAMES**

SF fireballs  
 NT1 laminar flames  
 NT1 verneuil method  
 RT blowoff  
 RT combustion  
 RT flame extinction  
 RT flame propagation  
 RT flashback  
 RT ignition  
 RT inhibition  
 RT stagnation point

**FLAMMABILITY**

INIS: 1977-11-21; ETDE: 1976-04-19  
 BT1 combustion properties  
 RT combustion  
 RT fires  
 RT ignition

**FLANGES**

RT joints

**FLARING**

INIS: 1999-05-18; ETDE: 1979-12-10  
 RT combustion  
 RT energy losses  
 RT natural gas

**FLASH BURNS**

\*BT1 burns

**FLASH HEATING**

BT1 heating  
 RT distillation  
 RT evaporation  
 RT steam

**FLASH HYDROLYSIS PROCESS**

INIS: 2000-04-12; ETDE: 1976-07-07  
 Process for converting coal or biomass to liquid and gaseous hydrocarbons directly by heating with preheated hydrogen to reaction temperature followed by rapid cooling.

\*BT1 coal gasification  
 \*BT1 coal liquefaction  
 \*BT1 pyrolysis  
 RT hydrogenation

**flash point**

INIS: 1992-07-10; ETDE: 1975-11-11  
 USE combustion properties

**FLASH TUBES**

\*BT1 gas discharge tubes

**FLASH WELDING**

\*BT1 resistance welding

**FLASHBACK**

INIS: 2000-04-12; ETDE: 1977-01-28  
 Backward burning of a flame into the lip of a burner or torch.  
 RT blowoff  
 RT burners  
 RT chemical explosions  
 RT flame propagation

RT flames

**FLASHED STEAM SYSTEMS**

2000-04-12

Systems in which a well-head mixture of hot water and steam is flashed in a separator; the saturated steam, then, is used to drive multistage turbines, and the remaining hot liquid is discarded.

\*BT1 steam systems  
 RT flashing  
 RT geothermal energy conversion  
 RT geothermal power plants  
 RT steam  
 RT steam separators  
 RT steam turbines  
 RT thermodynamic cycles

**FLASHING**

1976-05-07

\*BT1 evaporation  
 RT flashed steam systems  
 RT steam

**FLASHOVER**

INIS: 1985-12-10; ETDE: 1975-09-11

BT1 electric discharges  
 RT breakdown  
 RT electric arcs  
 RT electric currents  
 RT electric sparks  
 RT electrical faults

**flasks**

USE casks

**FLAT MAGNETIC SPECTROMETERS**

UF double focusing spectrometers  
 UF iron-free spectrometers  
 UF orange-type spectrometers  
 UF semicircular spectrometers  
 UF siegbahn spectrometers  
 UF spiral orbit spectrometers  
 \*BT1 magnetic spectrometers

**flat mirrors**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)  
 USE mirrors

**FLAT PLATE COLLECTORS**

1998-12-28

\*BT1 solar collectors  
 NT1 trickle-type collectors  
 RT solar air heaters

**flattening (neutron flux)**

USE neutron flux flattening

**FLATTOP REACTOR**

LANL, Los Alamos, New Mexico, USA.  
 \*BT1 zero power reactors

**flavonoids**

ETDE: 1975-09-11

(Prior to January 2004 this was a valid descriptor.)  
 USE flavonoids

**FLAVINES**

\*BT1 acridines  
 \*BT1 amines  
 NT1 acriflavine  
 NT1 proflavine

**flavins**

USE isoalloxazines

**FLAVONES**

1996-06-28

UF hesperidin

\*BT1 flavonoids

NT1 morin

NT1 quercetin

**FLAVONOIDS**

2004-01-14

(Prior to January 2004 this descriptor was spelled FLAVENOIDS.)

UF flavenoids  
 \*BT1 organic oxygen compounds  
 NT1 flavones  
 NT2 morin  
 NT2 quercetin

**flavoprotein enzymes**

1996-07-18

USE diaphorase

**FLAVOR**

Not for elementary particles.

BT1 organoleptic properties  
 RT chemoreceptors  
 RT spices  
 RT taste buds

**FLAVOR MODEL**

INIS: 1977-07-05; ETDE: 1977-10-19

UF beauty model  
 UF bottom quark model  
 UF top quark model  
 UF truth model  
 \*BT1 quark model  
 RT beauty particles  
 RT charmonium  
 RT kobayashi-maskawa matrix  
 RT quantum chromodynamics  
 RT quantum flavordynamics  
 RT quantum numbers  
 RT top particles  
 RT toponium

**flavordynamics**

INIS: 2000-04-12; ETDE: 1979-05-25

USE quantum flavordynamics

**flaws**

USE defects

**FLAX PLANTS**

UF linseed plants  
 \*BT1 magnoliopsida  
 RT linseed oil

**flaxseed oil**

USE linseed oil

**FLEROVIUM**

2013-06-05

Prior to June 2013 ELEMENT 114 was used for this element.

UF eka-lead  
 UF element 114  
 UF ununquadium  
 \*BT1 transactinide elements

**FLEROVIUM 285**

2014-03-28

Prior to June 2013 ELEMENT 114 285 was used for this concept.

UF element 114 285  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 flerovium isotopes  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes

**FLEROVIUM 286**

2014-03-28

Prior to June 2013 ELEMENT 114 286 was used for this concept.

UF element 114 286  
 \*BT1 alpha decay radioisotopes

- \*BT1 even-even nuclei
- \*BT1 flerovium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**FLEROVIUM 287**

2014-03-28

Prior to June 2013 *ELEMENT 114 287* was used for this concept.

UF *element 114 287*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 flerovium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**FLEROVIUM 288**

2014-03-28

Prior to June 2013 *ELEMENT 114 288* was used for this concept.

UF *element 114 288*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 flerovium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**FLEROVIUM 289**

2014-03-28

Prior to June 2013 *ELEMENT 114 289* was used for this concept.

UF *element 114 289*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 flerovium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**FLEROVIUM 292**

2014-03-28

Prior to June 2013 *ELEMENT 114 292* was used for this concept.

UF *element 114 292*

- \*BT1 even-even nuclei
- \*BT1 flerovium isotopes
- \*BT1 heavy nuclei

**FLEROVIUM COMPOUNDS**

2014-03-28

Prior to June 2013 *ELEMENT 114 COMPOUNDS* was used for this concept.

UF *element 114 compounds*

- \*BT1 transactinide compounds

**FLEROVIUM IONS**

2018-01-24

- \*BT1 ions

**FLEROVIUM ISOTOPES**

2014-03-28

Prior to June 2013 *ELEMENT 114 ISOTOPES* was used for this concept.

UF *element 114 isotopes*

- BT1 isotopes
- NT1 flerovium 285
- NT1 flerovium 286
- NT1 flerovium 287
- NT1 flerovium 288
- NT1 flerovium 289
- NT1 flerovium 292

**FLEXIBILITY**

UF *stiffness*

- \*BT1 tensile properties
- RT flexural strength

**flexitime**

INIS: 2000-04-12; ETDE: 1977-06-21

- USE alternative work schedules

**FLEXURAL STRENGTH**

UF *strength (flexural)*

- BT1 mechanical properties
- RT bending
- RT flexibility

**FLIBE**

INIS: 1975-08-20; ETDE: 1975-10-01

Molten salt of fluorine, lithium and beryllium.

- \*BT1 molten salts
- RT beryllium fluorides
- RT breeding blankets
- RT lithium fluorides
- RT thermonuclear reactor walls

**FLIES**

- \*BT1 diptera
- NT1 fruit flies
- NT2 anastrepha
- NT2 ceratitis capitata
- NT2 dacus
- NT3 dacus oleae
- NT2 drosophila
- NT1 glossina
- NT1 hylemya antiqua
- NT1 screwworm fly

**FLIGHT TESTING**

INIS: 1999-08-19; ETDE: 1981-01-09

- BT1 testing
- RT aircraft
- RT missiles
- RT reentry vehicles

**flintlock operation**

INIS: 2000-04-12; ETDE: 1976-11-01

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**FLIP-FLOP CIRCUITS**

UF *eccles-jordan circuits*

- \*BT1 multivibrators

**floating nuclear power plant-sturgis**

1993-11-08

- USE mh-1a reactor

**floating nuclear power plants**

- USE offshore nuclear power plants

**FLOATING ROOF TANKS**

INIS: 1992-07-08; ETDE: 1981-08-04

- \*BT1 tanks
- RT petroleum
- RT storage facilities

**floating zone techniques**

- USE zone melting

**FLOCCULATION**

UF *coagulation (colloid)*

UF *colloid coagulation*

- \*BT1 precipitation
- RT coprecipitation
- RT deflocculating agents

**FLOOD CONTROL**

1999-05-12

- BT1 control
- RT coastal regions
- RT dams
- RT hydroelectric power plants
- RT power generation
- RT rivers

**flooding fluids**

INIS: 2000-04-12; ETDE: 1983-11-09

- USE displacement fluids

**FLOODS**

- RT drainage
- RT exceptional natural disaster
- RT hydrology
- RT natural disasters
- RT runoff
- RT surface waters

**FLOORS**

INIS: 1999-08-04; ETDE: 1975-09-11

- UF *heating floors*
- RT basements
- RT buildings

**FLOQUET FUNCTION**

- BT1 functions
- RT differential equations

**florence oil**

- USE olive oil

**florencite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

- USE phosphate minerals
- USE radioactive minerals

**FLORIDA**

1997-06-17

- \*BT1 usa
- NT1 cape kennedy
- RT biscayne bay
- RT chattahoochee river
- RT everglades national park
- RT pinellas plant
- RT us east coast
- RT us gulf coast

**florida current**

INIS: 1992-02-18; ETDE: 1977-06-21

- USE gulf stream

**florida university reactor**

- USE uitr reactor

**FLOTATION**

- BT1 separation processes
- RT coal preparation
- RT foam separation
- RT ore enrichment
- RT ore processing
- RT waste processing

**FLOUR**

- BT1 food
- RT bread
- RT cereals

**flow (blood)**

INIS: 2000-04-12; ETDE: 1980-11-08

- USE blood flow

**flow (fluid)**

- USE fluid flow

**FLOW BLOCKAGE**

- RT fluid flow
- RT loss of flow

**FLOW COUNTERS**

UF *fluid flow counters*

- \*BT1 radiation detectors
- RT geiger-mueller counters
- RT proportional counters

**flow cytometers**

INIS: 2000-04-12; ETDE: 1976-09-14

- USE cell flow systems

**FLOW MODELS**

UF *models (flow)*

- BT1 mathematical models
- RT fluid flow

RT thermal hydraulics

## FLOW RATE

RT dynamic function studies  
 RT flow regulators  
 RT flowmeters  
 RT fluid flow  
 RT hydraulics  
 RT mach number  
 RT plasma eaters  
 RT pressure drop  
 RT stokes number  
 RT time dependence  
 RT velocity

## FLOW REGULATORS

UF dampers (gas flow)  
 UF draft control systems  
 \*BT1 control equipment  
 NT1 baffles  
 NT1 valves  
 NT2 relief valves  
 NT2 water faucets  
 RT flow rate  
 RT penstocks

## flow sheets

USE flowsheets

## FLOW STRESS

BT1 stresses  
 RT plasticity

## FLOW VISUALIZATION

INIS: 1986-10-29; ETDE: 1984-03-06  
 UF visualization (flow)  
 RT aerosols  
 RT bubbles  
 RT data visualization  
 RT fluid flow

## FLOWERS

For reproductive organs of plants.  
 NT1 stamen  
 RT plants  
 RT pollen  
 RT reproduction

## FLOWMETERS

\*BT1 meters  
 NT1 plasma eaters  
 RT anemometers  
 RT flow rate  
 RT nozzles  
 RT orifices  
 RT pitot tubes  
 RT venturi tubes

## FLWSHEETS

UF flow sheets  
 \*BT1 diagrams

## FLUCTUATIONS

INIS: 1999-07-15; ETDE: 1975-07-29  
 Stochastic variations.  
 BT1 variations  
 NT1 landau fluctuations  
 RT noise

## FLUE GAS

1976-07-16  
 UF combustion gases  
 \*BT1 gaseous wastes  
 RT combustion products  
 RT condensing boilers  
 RT dry scrubbers  
 RT scrubbing  
 RT selective catalytic reduction  
 RT wet scrubbers

## fluence (neutron)

USE neutron fluence

## fluid equations (plasma)

INIS: 1988-11-16; ETDE: 2002-06-13  
 USE plasma fluid equations

## FLUID FLOW

(From September 1979 till February 1997  
 DISPLACEMENT RATES was a valid ETDE  
 descriptor.)

UF flow (fluid)  
 SF displacement rates  
 NT1 capillary flow  
 NT1 compressible flow  
 NT1 critical flow  
 NT1 film flow  
 NT1 gas flow  
 NT2 air flow  
 NT2 knudsen flow  
 NT2 slip flow  
 NT1 hypersonic flow  
 NT1 incompressible flow  
 NT2 ideal flow  
 NT1 laminar flow  
 NT1 liquid flow  
 NT1 multiphase flow  
 NT1 potential flow  
 NT1 solids flow  
 NT1 steady flow  
 NT2 ideal flow  
 NT1 stokes number  
 NT1 subsonic flow  
 NT1 supersonic flow  
 NT1 transition flow  
 NT1 transonic flow  
 NT1 turbulent flow  
 NT1 two-phase flow  
 NT1 unsteady flow  
 NT1 viscous flow  
 NT2 couette flow  
 NT1 vortex flow  
 RT advection  
 RT aerodynamic heating  
 RT baffles  
 RT bernoulli law  
 RT boundary layers  
 RT cavitation  
 RT continuity equations  
 RT darcy law  
 RT diffusers  
 RT drainage  
 RT flow blockage  
 RT flow models  
 RT flow rate  
 RT flow visualization  
 RT fluid mechanics  
 RT fluid-structure interactions  
 RT fluids  
 RT friction factor  
 RT froude number  
 RT hartmann number  
 RT heat transfer  
 RT helmholtz instability  
 RT hydraulics  
 RT hydrodynamics  
 RT jets  
 RT magnetohydrodynamics  
 RT mass transfer  
 RT oseen method  
 RT pressure drop  
 RT rayleigh-taylor instability  
 RT reactor cooling systems  
 RT rheology  
 RT shear  
 RT stagnation  
 RT superfluidity  
 RT surges  
 RT thermal hydraulics  
 RT turbulence  
 RT two-stream instability  
 RT viscosity

## fluid flow counters

USE flow counters

## FLUID FUELED REACTORS

UF dust fueled reactors  
 BT1 reactors  
 NT1 gas fueled reactors  
 NT2 coaxial flow reactors  
 NT2 light bulb reactors  
 NT2 plasma core assembly  
 NT1 liquid homogeneous reactors  
 NT2 aqueous homogeneous reactors  
 NT3 ai-1-77 reactor  
 NT3 argus reactor  
 NT3 ber-2 reactor  
 NT3 byu 1-77 reactor  
 NT3 cesnef reactor  
 NT3 dr-1 reactor  
 NT3 frf reactor  
 NT3 gidra reactor  
 NT3 hre-2 reactor  
 NT3 jrr-1 reactor  
 NT3 kewb reactor  
 NT3 kstr reactor  
 NT3 nscr-1 reactor  
 NT3 nevada university reactor  
 NT3 prnc-1-77 reactor  
 NT3 supo reactor  
 NT3 wrrr reactor  
 NT1 molten salt fueled reactors  
 RT fluidized bed reactors  
 RT liquid metal fuels

## FLUID INJECTION

INIS: 2000-01-05; ETDE: 1976-03-11  
 NT1 gas injection  
 NT1 miscible-phase displacement  
 NT2 carbon dioxide injection  
 NT2 microemulsion flooding  
 NT1 steam injection  
 NT1 waterflooding  
 NT2 caustic flooding  
 RT displacement fluids  
 RT enhanced recovery  
 RT fluid injection processes  
 RT hydraulic fracturing  
 RT hydrology  
 RT pressurization  
 RT well stimulation

## FLUID INJECTION PROCESSES

2000-04-12  
 UF cyclic steam injection process  
 UF huff and puff process  
 UF steam drive process  
 NT1 cold-water processes  
 NT1 hot-water processes  
 NT1 steam soak processes  
 RT enhanced recovery  
 RT fluid injection  
 RT oil sands

## FLUID MECHANICS

UF computational fluid dynamics  
 BT1 mechanics  
 NT1 aerodynamics  
 NT1 electrogasdynamics  
 NT1 hydraulics  
 NT2 thermal hydraulics  
 NT1 hydrodynamics  
 NT2 electrohydrodynamics  
 NT2 magnetohydrodynamics  
 NT1 magnetogasdynamics  
 NT1 nanofluidics  
 NT1 pneumatics  
 RT aerodynamic heating  
 RT drag  
 RT fluid flow  
 RT fluid-structure interactions  
 RT fluids

RT friction factor  
 RT general circulation models  
 RT gravity waves  
 RT hydraulic conductivity  
 RT hydrostatics  
 RT navier-stokes equations  
 RT stagnation point

**FLUID POISON CONTROL**

1999-05-12

UF chemical shimming  
 BT1 control  
 RT burnable poisons  
 RT poisoning  
 RT reactor control systems  
 RT scram  
 RT soluble poisons

**FLUID-STRUCTURE INTERACTIONS**

1980-11-07

*Interactions between fluids, usually coolants, and structural components involving distortion of components such as shields, spacers, supports etc. in reactors.*

RT fluid flow  
 RT fluid mechanics  
 RT fuel-coolant interactions  
 RT reactor components  
 RT reactor cooling systems  
 RT reactor cores

**FLUID WITHDRAWAL**

INIS: 2000-04-12; ETDE: 1975-11-11

*The process of withdrawing fluids such as ground water from a source, also the quantity of fluid withdrawn.*

UF ground water withdrawal  
 RT geothermal fluids  
 RT ground water

**fluidic computers**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE computers

**FLUIDIC CONTROL DEVICES**

\*BT1 control equipment  
 BT1 fluidic devices

**FLUIDIC DEVICES**

NT1 fluidic control devices  
 RT amplification

**FLUIDIZATION**

1975-12-09

RT fluidized-bed combustion  
 RT fluidized bed reactors  
 RT fluidized beds  
 RT suspensions

**fluidized bed**

2000-04-12

(Prior to July 1985, this was a valid ETDE descriptor.)

USE fluidized beds

**FLUIDIZED BED BOILERS**

INIS: 1992-03-12; ETDE: 1982-03-11

UF circulating fluidized bed boilers  
 BT1 boilers  
 RT fluidized-bed combustion  
 RT fluidized-bed combustors  
 RT fluidized beds

**FLUIDIZED-BED COMBUSTION**

1976-02-11

*The combustion of pulverized coal (or other material) in a fluidized bed with limestone or dolomite both to suppress sulfur emission (by chemically combining the sulfur with the bed*

*material) and to limit the tendency of atmospheric nitrogen and oxygen to combine into nitrogen oxides (by limiting the temperature of the combustion reaction).*

\*BT1 combustion  
 RT coal  
 RT fluidization  
 RT fluidized bed boilers  
 RT fluidized-bed combustors

**FLUIDIZED-BED COMBUSTORS**

INIS: 1993-08-02; ETDE: 1976-11-01

BT1 combustors  
 RT coal  
 RT fluidized bed boilers  
 RT fluidized-bed combustion  
 RT fluidized beds  
 RT pollution control equipment

**fluidized bed heat exchangers**

INIS: 2000-04-12; ETDE: 1977-07-23

(Prior to February 1997 this was a valid ETDE descriptor.)

USE fluidized beds  
 USE heat exchangers

**FLUIDIZED BED HYDROGENATION PROCESS**

INIS: 2000-04-12; ETDE: 1976-01-23

*Production of methane- and ethane-rich gas at elevated temperatures and pressure from hydrocarbons.*

UF fbh process  
 BT1 sng processes  
 RT hydrocarbons  
 RT petroleum

**FLUIDIZED BED REACTORS**

\*BT1 fuel dispersion reactors  
 RT fluid fueled reactors  
 RT fluidization

**FLUIDIZED BED REFUSE****GASIFICATION**

INIS: 1993-03-25; ETDE: 1976-11-01

*Partial oxidation pyrolysis using air and air or steam for gasification and catalysts to increase thermal efficiency. May be used for coal or oil shale gasification. Produces fuel gas.*

\*BT1 gasification  
 \*BT1 waste processing  
 RT coal gasification  
 RT oil shales

**FLUIDIZED BEDS**

INIS: 1975-12-09; ETDE: 1976-03-25

UF circulating fluidized beds  
 UF fluidized bed  
 UF fluidized bed heat exchangers  
 RT cafb process  
 RT chemical reactions  
 RT chemical reactors  
 RT ebullated bed  
 RT fluidization  
 RT fluidized bed boilers  
 RT fluidized-bed combustors  
 RT packed beds  
 RT suspensions

**FLUIDS**

*Not for the concepts covered by BODY FLUIDS.*

NT1 cryogenic fluids  
 NT1 cutting fluids  
 NT1 displacement fluids  
 NT1 drilling fluids  
 NT1 fracturing fluids  
 NT1 gases  
 NT2 air  
 NT3 compressed air

NT3 surface air  
 NT2 associated gas  
 NT2 coal gas  
 NT2 compressed gases  
 NT3 compressed air  
 NT3 compressed natural gas  
 NT2 cosmic gases  
 NT2 cover gas  
 NT2 dissociating gases  
 NT2 dissolved gases  
 NT2 exhaust gases  
 NT2 fuel gas  
 NT3 high btu gas  
 NT3 intermediate btu gas  
 NT4 carburetted water gas  
 NT4 town gas  
 NT4 water gas  
 NT3 landfill gas  
 NT3 low btu gas  
 NT4 producer gas  
 NT3 natural gas  
 NT4 abiogenic gas  
 NT4 compressed natural gas  
 NT4 liquefied natural gas  
 NT2 ionized gases  
 NT3 fully ionized gases  
 NT4 lorentz gas  
 NT3 strongly ionized gases  
 NT3 weakly ionized gases  
 NT2 pyrolytic gases  
 NT2 rare gases  
 NT3 argon  
 NT3 helium  
 NT3 krypton  
 NT3 neon  
 NT3 radon  
 NT3 xenon  
 NT2 rarefied gases  
 NT2 refinery gases  
 NT2 shale gas  
 NT2 synthesis gas  
 NT2 vapors  
 NT3 water vapor  
 NT2 volcanic gases  
 NT1 geothermal fluids  
 NT2 fumarolic fluids  
 NT2 natural steam  
 NT1 heat transfer fluids  
 NT1 liquids  
 NT2 black liquids  
 NT2 coal liquids  
 NT2 dnapl  
 NT2 liquefied gases  
 NT3 liquefied natural gas  
 NT3 liquefied petroleum gases  
 NT2 liquid crystals  
 NT2 liquid metals  
 NT2 natural gas liquids  
 NT3 gas condensates  
 NT3 lease condensates  
 NT3 liquefied petroleum gases  
 NT3 plant condensates  
 NT1 nanofluids  
 NT1 quantum fluids  
 NT2 helium ii  
 NT1 reservoir fluids  
 NT1 working fluids  
 NT2 hydraulic fluids  
 NT2 refrigerants  
 RT fluid flow  
 RT fluid mechanics  
 RT pour point

**flukes (fishes)**

INIS: 1982-01-13; ETDE: 2002-06-13

USE fishes

**flukes (trematodes)**

1982-01-13

USE trematodes

**fluor econamine process**

2000-04-12

Process using an aqueous solution of the primary alkanolamine, diglycolamine, for the removal of acidic impurities hydrogen sulfide and carbon dioxide.

(Prior to February 1995, this was a valid ETDE descriptor.)

USE desulfurization

**fluor solvent process**

2000-04-12

Process using anhydrous propylene carbonate for removal of high concentrations of acidic impurities carbon dioxide and hydrogen sulfide from natural or synthetic gas streams.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**fluoranthene**

INIS: 2000-04-12; ETDE: 1980-11-25

USE polycyclic aromatic hydrocarbons

**FLUORATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 fluorine compounds

BT1 oxygen compounds

**FLUORENE**

\*BT1 polycyclic aromatic hydrocarbons

**FLUORESCCEIN**

1999-07-08

BT1 dyes

\*BT1 hydroxy acids

\*BT1 polyphenols

NT1 erythrosine

RT fluorescence

RT phthalic acid

**FLUORESCENCE**

UF quenching (fluorescence)

\*BT1 luminescence

NT1 resonance fluorescence

RT fluorescein

RT fluorescence spectroscopy

RT radiationless decay

RT superradiance

RT x-ray fluorescence analysis

**FLUORESCENCE SPECTROSCOPY**

UF atomic fluorescence spectroscopy

UF fluorimetry

UF molecular fluorescence spectroscopy

\*BT1 emission spectroscopy

RT fluorescence

RT fluorimeters

RT laser spectroscopy

RT quantitative chemical analysis

RT x-ray fluorescence analysis

**fluorescent concentrators**

INIS: 2000-04-12; ETDE: 1980-02-11

USE luminescent concentrators

**FLUORESCENT LAMPS**

INIS: 2000-04-12; ETDE: 1977-07-23

UF litek lamp

BT1 light bulbs

RT ballasts

RT lighting systems

**fluorescent penetrant tests**

USE liquid penetrant inspection

**FLUORIDE VOLATILITY PROCESS**

\*BT1 pyrometallurgy

\*BT1 reprocessing

RT distillation

RT refining

RT volatility

**FLUORIDES**

1996-11-13

\*BT1 fluorine compounds

\*BT1 halides

NT1 actinium fluorides

NT1 aluminium fluorides

NT1 americium fluorides

NT1 ammonium fluorides

NT1 antimony fluorides

NT1 argon fluorides

NT1 arsenic fluorides

NT1 barium fluorides

NT1 berkelium fluorides

NT1 beryllium fluorides

NT1 bismuth fluorides

NT1 boron fluorides

NT1 bromine fluorides

NT1 cadmium fluorides

NT1 calcium fluorides

NT1 californium fluorides

NT1 carbon fluorides

NT1 cerium fluorides

NT1 cesium fluorides

NT1 chlorine fluorides

NT1 chromium fluorides

NT1 cobalt fluorides

NT1 copper fluorides

NT1 curium fluorides

NT1 dysprosium fluorides

NT1 einsteinium fluorides

NT1 erbium fluorides

NT1 europium fluorides

NT1 gadolinium fluorides

NT1 gallium fluorides

NT1 germanium fluorides

NT1 gold fluorides

NT1 hafnium fluorides

NT1 holmium fluorides

NT1 hydrogen fluorides

NT1 indium fluorides

NT1 iodine fluorides

NT1 iridium fluorides

NT1 iron fluorides

NT1 krypton fluorides

NT1 lanthanum fluorides

NT1 lead fluorides

NT1 lithium fluorides

NT1 lutetium fluorides

NT1 magnesium fluorides

NT1 manganese fluorides

NT1 mercury fluorides

NT1 molybdenum fluorides

NT1 neodymium fluorides

NT1 neon fluorides

NT1 neptunium fluorides

NT1 nickel fluorides

NT1 niobium fluorides

NT1 nitrogen fluorides

NT1 osmium fluorides

NT1 palladium fluorides

NT1 phosphorus fluorides

NT1 platinum fluorides

NT1 plutonium fluorides

NT1 polonium fluorides

NT1 potassium fluorides

NT1 praseodymium fluorides

NT1 promethium fluorides

NT1 protactinium fluorides

NT1 radium fluorides

NT1 radon fluorides

NT1 rhenium fluorides

NT1 rhodium fluorides

NT1 rubidium fluorides

NT1 ruthenium fluorides

NT1 samarium fluorides

NT1 scandium fluorides

NT1 selenium fluorides

NT1 silicon fluorides

NT1 silver fluorides

NT1 sodium fluorides

NT1 strontium fluorides

NT1 sulfur fluorides

NT1 tantalum fluorides

NT1 technetium fluorides

NT1 tellurium fluorides

NT1 terbium fluorides

NT1 thallium fluorides

NT1 thorium fluorides

NT1 thulium fluorides

NT1 tin fluorides

NT1 titanium fluorides

NT1 tungsten fluorides

NT1 uranium fluorides

NT2 uranium hexafluoride

NT2 uranium pentafluoride

NT2 uranium tetrafluoride

NT1 uranyl fluorides

NT1 vanadium fluorides

NT1 xenon fluorides

NT1 ytterbium fluorides

NT1 yttrium fluorides

NT1 zinc fluorides

NT1 zirconium fluorides

RT fluorine additions

RT oxyfluorides

**FLUORIMETERS**

Instrument for measuring fluorescent radiation emitted by a sample exposed to monochromatic radiation, used in chemical analysis or to determine the intensity of the radiation producing fluorescence.

UF fluorometers

BT1 measuring instruments

RT fluorescence spectroscopy

**fluorimetry**

USE fluorescence spectroscopy

**FLUORINATED ALICYCLIC HYDROCARBONS**

2000-04-12

\*BT1 halogenated alicyclic hydrocarbons

\*BT1 organic fluorine compounds

**FLUORINATED ALIPHATIC HYDROCARBONS**

1991-09-30

(Prior to October 1991, this concept was indexed by ORGANIC FLUORINE COMPOUNDS.)

UF poly(vinylidene fluoride)

\*BT1 halogenated aliphatic hydrocarbons

\*BT1 organic fluorine compounds

NT1 carbon tetrafluoride

NT1 fluorofom

NT1 methyl fluoride

NT1 polytetrafluoroethylene

NT2 teflon

NT1 tedlar

RT chlorofluorocarbons

**FLUORINATED AROMATIC HYDROCARBONS**

1991-10-01

\*BT1 halogenated aromatic hydrocarbons

\*BT1 organic fluorine compounds

**fluorinated hydrocarbons**

ETDE: 2002-06-13

USE organic fluorine compounds



**FLUORINATION**

\*BT1 halogenation

**FLUORINE***UF* fluorine fluorides

\*BT1 halogens

**FLUORINE 14**\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 odd-odd nuclei  
\*BT1 proton decay radioisotopes**FLUORINE 15***INIS: 1978-11-24; ETDE: 1978-09-11*\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei**FLUORINE 16**\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 odd-odd nuclei**FLUORINE 16 TARGET***INIS: 1992-09-22; ETDE: 1977-05-07*

BT1 targets

**FLUORINE 17**\*BT1 beta-plus decay radioisotopes  
\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei**FLUORINE 17 TARGET***1998-01-29*

BT1 targets

**FLUORINE 18**\*BT1 beta-plus decay radioisotopes  
\*BT1 fluorine isotopes  
\*BT1 hours living radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 light nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 odd-odd nuclei**FLUORINE 18 TARGET***INIS: 1980-04-02; ETDE: 1979-08-09*

BT1 targets

**FLUORINE 19**\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei  
\*BT1 stable isotopes  
*RT* fluorine 19 reactions**FLUORINE 19 BEAMS***INIS: 1976-10-07; ETDE: 1976-11-01*

\*BT1 ion beams

**FLUORINE 19 REACTIONS**\*BT1 heavy ion reactions  
*RT* fluorine 19**FLUORINE 19 TARGET***ETDE: 1976-07-09*

BT1 targets

**FLUORINE 20**\*BT1 beta-minus decay radioisotopes  
\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes**FLUORINE 21**\*BT1 beta-minus decay radioisotopes  
\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes**FLUORINE 22**\*BT1 beta-minus decay radioisotopes  
\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes**FLUORINE 23**\*BT1 beta-minus decay radioisotopes  
\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes**FLUORINE 24**\*BT1 beta-minus decay radioisotopes  
\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei**FLUORINE 25**\*BT1 beta-minus decay radioisotopes  
\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei**FLUORINE 26***INIS: 1980-07-24; ETDE: 1980-02-11*\*BT1 beta-minus decay radioisotopes  
\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 odd-odd nuclei**FLUORINE 27***INIS: 1986-04-02; ETDE: 1981-12-14*\*BT1 beta-minus decay radioisotopes  
\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei**FLUORINE 28***2007-01-30*\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 odd-odd nuclei**FLUORINE 29***INIS: 1989-09-14; ETDE: 1989-10-16*\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei**FLUORINE 30***2007-01-30*\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 odd-odd nuclei**FLUORINE 31***2007-01-30*\*BT1 fluorine isotopes  
\*BT1 light nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 odd-even nuclei**FLUORINE ADDITIONS***1989-07-20**RT* crystal doping  
*RT* doped materials  
*RT* fluorides**fluorine bromides**

USE bromine fluorides

**fluorine chlorides**

USE chlorine fluorides

**FLUORINE COMPLEXES**

BT1 complexes

**FLUORINE COMPOUNDS**

BT1 halogen compounds

NT1 fluorates

NT1 fluorides

NT2 actinium fluorides

NT2 aluminium fluorides

NT2 americium fluorides

NT2 ammonium fluorides

NT2 antimony fluorides

NT2 argon fluorides

NT2 arsenic fluorides

NT2 barium fluorides

NT2 berkelium fluorides

NT2 beryllium fluorides

NT2 bismuth fluorides

NT2 boron fluorides

NT2 bromine fluorides

NT2 cadmium fluorides

NT2 calcium fluorides

NT2 californium fluorides

NT2 carbon fluorides

NT2 cerium fluorides

NT2 cesium fluorides

NT2 chlorine fluorides

NT2 chromium fluorides

NT2 cobalt fluorides

NT2 copper fluorides

NT2 curium fluorides

NT2 dysprosium fluorides

NT2 einsteinium fluorides

NT2 erbium fluorides

NT2 europium fluorides

NT2 gadolinium fluorides

NT2 gallium fluorides

NT2 germanium fluorides

NT2 gold fluorides

NT2 hafnium fluorides

NT2 holmium fluorides

NT2 hydrogen fluorides

NT2 indium fluorides

NT2 iodine fluorides

NT2 iridium fluorides

NT2 iron fluorides

NT2 krypton fluorides

NT2 lanthanum fluorides

NT2 lead fluorides

NT2 lithium fluorides

NT2 lutetium fluorides

NT2 magnesium fluorides

NT2 manganese fluorides

NT2 mercury fluorides

NT2 molybdenum fluorides

NT2 neodymium fluorides

NT2 neon fluorides

NT2 neptunium fluorides

NT2 nickel fluorides

NT2 niobium fluorides

NT2 nitrogen fluorides

NT2 osmium fluorides

NT2 palladium fluorides

NT2 phosphorus fluorides

NT2 platinum fluorides

NT2 plutonium fluorides

NT2 polonium fluorides

NT2 potassium fluorides

NT2 praseodymium fluorides

NT2 promethium fluorides

NT2 protactinium fluorides

NT2 radium fluorides

NT2 radon fluorides

NT2 rhenium fluorides

NT2 rhodium fluorides

NT2 rubidium fluorides

NT2 ruthenium fluorides

NT2 samarium fluorides

NT2 scandium fluorides

NT2 selenium fluorides

NT2 silicon fluorides

NT2 silver fluorides

**NT2** sodium fluorides  
**NT2** strontium fluorides  
**NT2** sulfur fluorides  
**NT2** tantalum fluorides  
**NT2** technetium fluorides  
**NT2** tellurium fluorides  
**NT2** terbium fluorides  
**NT2** thallium fluorides  
**NT2** thorium fluorides  
**NT2** thulium fluorides  
**NT2** tin fluorides  
**NT2** titanium fluorides  
**NT2** tungsten fluorides  
**NT2** uranium fluorides  
**NT3** uranium hexafluoride  
**NT3** uranium pentafluoride  
**NT3** uranium tetrafluoride  
**NT2** uranyl fluorides  
**NT2** vanadium fluorides  
**NT2** xenon fluorides  
**NT2** ytterbium fluorides  
**NT2** yttrium fluorides  
**NT2** zinc fluorides  
**NT2** zirconium fluorides  
**NT1** fluorine oxides  
**NT1** fluoroborates  
**NT1** fluoroboric acid  
**NT1** hydrofluoric acid  
**NT1** hypofluorous acid  
**NT1** oxyfluorides  
**RT** organic fluorine compounds

**fluorine fluorides**

USE fluorine

**fluorine iodides**

USE iodine fluorides

**FLUORINE IONS**

\*BT1 ions

**FLUORINE ISOTOPES**

1999-07-16

**BT1** isotopes  
**NT1** fluorine 14  
**NT1** fluorine 15  
**NT1** fluorine 16  
**NT1** fluorine 17  
**NT1** fluorine 18  
**NT1** fluorine 19  
**NT1** fluorine 20  
**NT1** fluorine 21  
**NT1** fluorine 22  
**NT1** fluorine 23  
**NT1** fluorine 24  
**NT1** fluorine 25  
**NT1** fluorine 26  
**NT1** fluorine 27  
**NT1** fluorine 28  
**NT1** fluorine 29  
**NT1** fluorine 30  
**NT1** fluorine 31

**FLUORINE OXIDES**

**UF** oxygen fluorides  
**\*BT1** fluorine compounds  
**\*BT1** oxides  
**RT** oxyfluorides

**FLUORITE**

**\*BT1** halide minerals  
**RT** calcium fluorides

**FLUOROBORATES**

1999-04-07

**BT1** boron compounds  
**\*BT1** fluorine compounds  
**RT** boron fluorides  
**RT** fluoroboric acid

**FLUOROBORIC ACID**

*INIS: 1991-09-16; ETDE: 1985-02-22*

**BT1** boron compounds  
**\*BT1** fluorine compounds  
**\*BT1** inorganic acids  
**RT** fluoroborates

**fluorod**

USE rpl dosimeters

**FLUORODEOXYGLUCOSE**

*INIS: 1986-05-23; ETDE: 1985-10-25*

**\*BT1** antimetabolites  
**RT** glucose

**fluorodeoxyuridine**

USE fudr

**FLUROESTRADIOL**

2018-01-25

**\*BT1** estradiol  
**\*BT1** organic fluorine compounds

**FLUROFORM**

**\*BT1** fluorinated aliphatic hydrocarbons  
**RT** hydrocarbons  
**RT** methane

**fluorometers**

*ETDE: 2002-06-13*

USE fluorimeters

**FLUOROSCOPY**

**\*BT1** biomedical radiography  
**RT** image intensifiers  
**RT** x radiation

**FLUROTHYMIDINE**

2018-01-25

**\*BT1** organic fluorine compounds  
**\*BT1** thymidine

**FLUROURACILS**

**\*BT1** antimetabolites  
**\*BT1** organic fluorine compounds  
**\*BT1** uracils  
**NT1** fudr

**fluorox process**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE reprocessing

**fluors**

*INIS: 1975-12-17; ETDE: 1976-05-17*

USE phosphors

**flurex process**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE reprocessing

**FLUTE INSTABILITY**

**UF** interchange instability  
**\*BT1** plasma macroinstabilities  
**RT** hydrodynamics  
**RT** mercier criterion

**flux (cosmic ray)**

USE cosmic ray flux

**flux (magnetic)**

USE magnetic flux

**flux (metallurgy)**

USE metallurgical flux

**flux (neutron)**

USE neutron flux

**flux (radiation)**

*INIS: 1976-03-25; ETDE: 1976-05-17*

USE radiation flux

**flux conserving tokamaks**

*INIS: 2000-04-12; ETDE: 1979-08-07*

(Prior to February 1995, this was a valid ETDE descriptor.)

USE tokamak devices

**flux cored arc welding**

*ETDE: 2002-06-13*

USE arc welding

**FLUX DENSITY**

Coordinate with descriptors for the flux considered, e.g., *MAGNETIC FLUX*, *NEUTRON FLUX*, etc.

**UF** density (flux)

**UF** neutron flux density

**NT1** radiant flux density

**RT** magnetic flux

**RT** poynting theorem

**RT** radiation flux

**flux jumps**

USE magnetic flux

**flux pinning**

USE magnetic flux

**FLUX PUMPS**

1975-08-22

A cryogenic dc generator.

**UF** superconducting flux pumps

**\*BT1** electric generators

**BT1** superconducting devices

**FLUX QUANTIZATION**

1975-10-09

**RT** magnetic flux

**RT** superconductivity

**flux surfaces**

*INIS: 1988-11-16; ETDE: 2002-06-13*

USE magnetic surfaces

**FLUX SYNTHESIS**

**RT** neutron diffusion equation

**RT** neutron flux

**FLUXGATE MAGNETOMETERS**

**UF** saturable core magnetometers

**\*BT1** magnetometers

**FLUXMETERS**

**BT1** measuring instruments

**NT1** squid devices

**RT** magnetometers

**fluxoids**

USE magnetic flux

**FLY ASH**

**UF** pulverized fuel ash

**\*BT1** aerosol wastes

**\*BT1** ashes

**RT** air pollution

**RT** lime-soda sinter process

**RT** particulates

**RT** solid wastes

**FLYING SPOT DIGITIZERS**

*Mechanical flying spot digitizers; see also CATHODE RAY TUBE DIGITIZERS.*

**UF** fsd devices

**UF** hough-powell devices

**UF** hpd devices

**\*BT1** digitizers

**FLYWHEEL ENERGY STORAGE**

*INIS: 1993-03-25; ETDE: 1976-10-13*

**\*BT1** energy storage

RT flywheel-powered vehicles  
RT flywheels

**FLYWHEEL-POWERED VEHICLES**

INIS: 2000-04-12; ETDE: 1979-03-27

BT1 vehicles  
RT flywheel energy storage  
RT flywheels

**FLYWHEELS**

\*BT1 energy storage systems  
BT1 mechanical energy storage equipment  
BT1 rotors  
RT energy storage  
RT flywheel energy storage  
RT flywheel-powered vehicles

**fm cyclotrons**

INIS: 1985-10-23; ETDE: 2002-06-13

Frequency-modulated cyclotrons.  
USE synchrocyclotrons

**FM DEVICES**

Floating multipoles.

\*BT1 internal ring devices  
RT multipolar configurations

**FMC DOUBLE ALKALI PROCESS**

INIS: 2000-04-12; ETDE: 1979-05-25

Desulfurization process in which sulfur dioxide is absorbed in sodium sulfite forming bisulfite. This solution is reacted with slaked lime to form solid calcium sulfite and regenerate the sodium sulfite.

\*BT1 desulfurization  
RT waste processing

**FMCT**

2010-03-03

UF fissile materials cut-off treaty  
BT1 treaties  
RT arms control  
RT nuclear disarmament  
RT nuclear freeze  
RT nuclear weapons

**fmit facility**

INIS: 2000-04-12; ETDE: 1979-08-09

USE fmit linac

**FMIT LINAC**

INIS: 1979-12-20; ETDE: 1980-01-24

Linear accelerator at the Hanford Fusion Materials Irradiation Test facility.

UF fmit facility  
\*BT1 linear accelerators  
RT materials testing  
RT quadrupole linacs  
RT thermonuclear reactor materials

**FMRB REACTOR**

Physikalisch-Technische Bundesanstalt, Braunschweig, Niedersachsen, Federal Republic of Germany. Decommissioned since 2005.

UF braunschweig experimental reactor  
UF braunschweig research reactor  
UF forschungs und messreaktor braunschweig  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 test reactors

**FNR REACTOR**

Univ. of Michigan, Ann Arbor, Michigan, USA.

UF ford nuclear reactor  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**fns facilities**

2016-06-09

USE fusion neutron source facilities

**foam-lift cycles**

INIS: 2000-04-12; ETDE: 1980-08-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE lift cycles

**FOAM SEPARATION**

BT1 separation processes  
RT flotation  
RT foams

**FOAMS**

\*BT1 colloids  
NT1 plastic foams  
NT1 urea-formaldehyde foams  
RT boiling detection  
RT bubbles  
RT foam separation

**foce verde reactor**

USE latina reactor

**fock method**

USE hartree-fock method

**FOCK REPRESENTATION**

RT mathematical space  
RT quantum field theory

**fock self-consistent field**

USE hartree-fock method

**FOCUSING**

RT beam optics  
RT beam shaping  
RT tomography

**FOCUSONS**

1976-03-17

Focused collision sequences behaving like particles in solids.

BT1 quasi particles

**focussed logging**

INIS: 2000-06-27; ETDE: 1979-05-02

USE resistivity logging

**fodder**

INIS: 1975-11-27; ETDE: 2002-06-13

USE animal feeds

**FOG**

INIS: 1999-03-17; ETDE: 1977-03-08

RT atmospheric precipitations  
RT vapor condensation  
RT visibility  
RT water vapor

**fog (sprays)**

USE sprays

**FOG COOLED REACTORS**

BT1 reactors  
RT core spray systems  
RT fog cooling

**FOG COOLING**

BT1 cooling  
RT core spray systems  
RT fog cooled reactors  
RT spray cooling

**FOILS**

Thinner than plates or sheets.

RT films  
RT plates

RT sheets

**fokker-planck coefficients**

USE fokker-planck equation

**FOKKER-PLANCK EQUATION**

UF besse differential equation  
UF fokker-planck coefficients  
SF kolmogorov equation  
\*BT1 partial differential equations  
RT ionized gases  
RT transport theory

**FOLDING MODEL**

INIS: 1989-11-24; ETDE: 1989-12-08

\*BT1 nuclear models

**FOLDY-WOUTHUYSEN TRANSFORM**

\*BT1 canonical transformations  
RT dirac equation

**foliage**

USE leaves

**FOLIAR UPTAKE**

UF absorption (leaves)  
BT1 uptake  
RT leaves

**FOLIC ACID**

UF formylpteroic acid  
UF pteroylglutamic acid  
UF rhizopterin  
\*BT1 amino acids  
\*BT1 hematinics  
\*BT1 hydroxy compounds  
\*BT1 pteridines  
\*BT1 vitamin b group  
RT anemias  
RT blood coagulation factors  
RT citrovorum factor  
RT paba

**folinic acid**

USE citrovorum factor

**follicle stimulating hormone**

USE fish

**fong-newton theory**

1996-07-18

(Prior to March 1997 FONG THEORY was used for this conceptin ETDE.)

SEE fission products

**fong theory**

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE fission products

**fontenay-aux-roses (cea)**

USE cea fontenay-aux-roses

**fontina event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**FOOD**

UF condiments  
UF foodstuffs  
UF seasonings  
NT1 animal feeds  
NT2 forage  
NT1 beverages  
NT1 bread  
NT1 cocoa products  
NT1 flour  
NT1 fruits  
NT2 apples  
NT2 apricots  
NT2 avocados  
NT2 bananas

**NT2** berries  
**NT3** blueberries  
**NT3** raspberries  
**NT3** strawberries  
**NT2** cherries  
**NT2** coconuts  
**NT2** dates  
**NT2** figs  
**NT2** grapefruits  
**NT2** grapes  
**NT2** lemons  
**NT2** mangoes  
**NT2** nuts  
**NT3** chestnuts  
**NT2** olives  
**NT2** oranges  
**NT2** papayas  
**NT2** peaches  
**NT2** pears  
**NT2** pineapples  
**NT2** plums  
**NT2** tomatoes  
**NT1** honey  
**NT1** meat  
**NT1** milk  
**NT1** milk products  
**NT2** butter  
**NT2** cheese  
**NT2** whey  
**NT1** molasses  
**NT1** seafood  
**NT1** vegetables  
**NT2** beans  
**NT3** mungbeans  
**NT2** beets  
**NT3** sugar beets  
**NT2** brassica  
**NT3** kale  
**NT2** carrots  
**NT2** cucumbers  
**NT2** garlic  
**NT2** lettuce  
**NT2** onions  
**NT3** allium cepa  
**NT2** peas  
**NT2** peppers  
**NT2** potatoes  
**NT2** radishes  
**NT2** soybeans  
**NT2** spinach  
**NT2** yams  
**RT** agriculture  
**RT** biological materials  
**RT** carbohydrates  
**RT** cassava  
**RT** cereals  
**RT** consumer products  
**RT** crops  
**RT** diet  
**RT** drinking water  
**RT** eggs  
**RT** fao  
**RT** fats  
**RT** feeding  
**RT** fishes  
**RT** food additives  
**RT** food chains  
**RT** food processing  
**RT** fowl  
**RT** ifip  
**RT** ingestion  
**RT** nutrients  
**RT** nutrition  
**RT** organoleptic properties  
**RT** preservation  
**RT** proteins  
**RT** radappertization  
**RT** radication  
**RT** radiopreservation

**RT** radurization  
**RT** restaurants  
**RT** seeds  
**RT** spices  
**RT** sterilization  
**RT** vitamins  
**RT** wholesomeness

### FOOD ADDITIVES

*INIS: 1992-03-26; ETDE: 1992-02-05*

**BT1** additives  
**RT** animal feeds  
**RT** diet  
**RT** drugs  
**RT** food  
**RT** vitamins

### food and agriculture organization

*2000-04-12*

USE fao

### food and drug administration

*INIS: 1978-11-27; ETDE: 1978-06-14*

USE us fda

### FOOD CHAINS

**RT** diet  
**RT** environmental exposure pathway  
**RT** fallout deposits  
**RT** food  
**RT** plaice  
**RT** predator-prey interactions  
**RT** radioecological concentration  
**RT** radionuclide migration

### food disposers

*INIS: 2000-04-12; ETDE: 1977-06-21*

(Prior to September 1994, this was a valid ETDE descriptor.)

SEE electric appliances

### FOOD INDUSTRY

*INIS: 1992-03-18; ETDE: 1977-01-10*

**BT1** industry  
**NT1** dairy industry  
**NT1** meat industry  
**RT** beverage industry  
**RT** food processing  
**RT** restaurants  
**RT** whey

### food irradiation

*2000-04-12*

USE food processing  
 USE irradiation

### food irradiation (radiopasteurization)

*INIS: 1993-11-08; ETDE: 2002-06-13*

USE radication

### food irradiation (radiopreservation)

*INIS: 1993-11-08; ETDE: 2002-06-13*

USE radurization

### food irradiation (radiosterilization)

*INIS: 1993-11-08; ETDE: 1995-05-05*

USE radappertization

### FOOD PROCESSING

*INIS: 2000-02-01; ETDE: 1976-07-07*

*Processing of food by individuals or large-scale commercial establishments.*

**UF** baking (food)  
**UF** canning (food)  
**UF** cooking (food)  
**UF** food irradiation  
**UF** freezing (food)  
**UF** processing (food)  
**SF** cooking  
**BT1** processing  
**NT1** pasteurization  
**NT2** radication

**NT1** radappertization  
**NT1** radurization  
**RT** food  
**RT** food industry  
**RT** heat treatments  
**RT** preservation  
**RT** radiopreservation  
**RT** storage life

### foodstuffs

USE food

### FORAGE

**\*BT1** animal feeds  
**BT1** plants  
**RT** cattle  
**RT** clover  
**RT** glycine hispida  
**RT** gramineae  
**RT** grazing  
**RT** pastures

### FORAMINIFERA

*INIS: 1992-04-27; ETDE: 1976-05-13*

*An order of sarcodine protozoa, characterized by delicate calcareous shells with holes through which pseudopods are extruded.*

**\*BT1** sarcodina

### FORATOM

*INIS: 1978-02-23; ETDE: 1978-04-28*

*Forum Atomique Europeen.*

**BT1** international organizations

### FORBIDDEN TRANSITIONS

**UF** transitions (forbidden)  
**BT1** energy-level transitions  
**RT** decay  
**RT** selection rules

### FORBUSH DECREASE

**UF** forbush depression  
**UF** forbush event  
**RT** cosmic radiation  
**RT** magnetic storms  
**RT** solar flares  
**RT** solar wind

### forbush depression

USE forbush decrease

### forbush event

USE forbush decrease

### FORCE-FREE MAGNETIC FIELDS

**BT1** magnetic fields  
**RT** astrophysics

### FORCED CONVECTION

*Heat transfer by forced convection.*

**UF** forced draft cooling towers

**UF** mechanical draft cooling towers

**\*BT1** convection

**RT** nusselt number

**RT** rayleigh number

### forced draft cooling towers

*2000-04-12*

(Prior to March 1997 MECHANICAL

DRAFT COOLING TOWERS was used for this concept in ETDE.)

USE cooling towers

USE forced convection

### forcing functions

*INIS: 2000-04-12; ETDE: 1986-11-20*

*Forces exerted on a system or system component.*

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE functions

**ford nuclear reactor**

USE fnr reactor

**FORECASTING**

UF prediction

NT1 delphi method

NT1 projection series

RT cost estimation

RT deterministic estimation

RT economic policy

RT economy

RT evaluation

RT management

RT market

RT planning

RT probabilistic estimation

RT regression analysis

RT schedules

RT time-series analysis

RT weather

**FOREIGN EXCHANGE RATE**

INIS: 1992-07-23; ETDE: 1980-03-29

*The price of one currency in terms of another.*

UF exchange rate

RT economics

RT trade

**FOREIGN POLICY**

INIS: 1996-01-09; ETDE: 1976-08-04

SF policy

BT1 government policies

RT economic policy

RT embargoes

RT energy policy

RT exports

RT imports

RT international agreements

RT international cooperation

RT military assistance

RT salt talks

**forensic science**

INIS: 2000-04-12; ETDE: 1978-08-07

USE crime detection

**FORESHOCKS**

INIS: 2000-04-12; ETDE: 1978-07-05

*Small tremors that commonly precede a larger earthquake by seconds to weeks and that originate at or near the focus of the larger earthquake.*

RT aftershocks

RT earthquakes

**FOREST LITTER***Natural organic debris on the forest floor.*

\*BT1 biological materials

RT coppices

RT ecosystems

RT forests

RT humus

RT leaves

**FORESTRY**

INIS: 1992-03-27; ETDE: 1977-07-23

NT1 silviculture

RT deforestation

RT forests

RT harvesting equipment

RT paper industry

RT short rotation cultivation

RT wood products industry

**FORESTS**

NT1 coppices

RT canopies

RT deforestation

RT forest litter

RT forestry

RT ground cover

RT interception

RT redd

RT stand density

RT terrestrial ecosystems

RT throughfall

RT trees

**FORGE WELDING**

UF roll welding

\*BT1 welding

**FORGING**

\*BT1 materials working

RT cold working

RT dies

RT hot working

RT presses

RT pressing

RT swaging

**FORKED RIVER-1 REACTOR***Jersey Central Power and Light Co., Forked River, New Jersey, USA. Canceled in 1980 before construction began.*

UF oyster creek-2 reactor

\*BT1 pwr type reactors

**FORM FACTORS**

BT1 dimensionless numbers

BT1 particle properties

NT1 dirac form factors

NT1 electromagnetic form factors

NT1 pauli form factors

RT nuclear reactions

RT vertex functions

**formal (methylal)**

USE methylal

**FORMALDEHYDE**

UF formalin

UF formalith

UF formic aldehyde

UF formol

UF oxymethylene

\*BT1 aldehydes

RT bakelite

RT formyl radicals

RT methylal

RT polyoxymethylenes

RT urea-formaldehyde foams

**FORMALDEHYDE FUEL CELLS**

INIS: 2000-04-12; ETDE: 1976-01-07

\*BT1 fuel cells

**formaldehydedimethylacetal**

USE methylal

**formalin**

USE formaldehyde

**formalith**

USE formaldehyde

**FORMAMIDE**

\*BT1 amides

RT formic acid

**FORMATE FUEL CELLS**

2000-04-12

\*BT1 fuel cells

**FORMATES**

1976-02-24

BT1 carboxylic acid salts

RT formic acid

**formation (synthesis)**

1975-10-22

USE synthesis

**FORMATION DAMAGE**

INIS: 1992-08-13; ETDE: 1983-01-21

*Damage to rock surrounding a borehole that adversely affects well productivity.*

UF condition ratio

UF damage factor

UF damage ratio

UF damage zone

UF improvement ratio

UF permeability damage

UF permeability reduction

UF porosity reduction

UF productivity factor

UF skin damage

UF skin effect (well)

UF well bore damage

UF well skin effect

RT boreholes

RT geologic formations

RT porosity

RT reservoir rock

RT wells

**formation enthalpy**

INIS: 1975-09-01; ETDE: 2002-06-13

USE formation heat

**FORMATION FREE ENERGY**

\*BT1 free energy

RT formation heat

**FORMATION FREE ENTHALPY**

INIS: 1976-03-25; ETDE: 1976-05-17

UF gibbs formation free energy

\*BT1 free enthalpy

RT entropy

RT formation heat

**FORMATION HEAT**

UF enthalpy of formation

UF formation enthalpy

UF heat of formation

\*BT1 reaction heat

RT dissociation energy

RT dissociation heat

RT formation free energy

RT formation free enthalpy

RT thermochemical heat storage

**formation pressure**

INIS: 1986-07-09; ETDE: 1978-09-11

USE reservoir pressure

**formation water**

INIS: 1994-08-26; ETDE: 1976-11-17

USE interstitial water

**FORMED COKE PROCESSES**

INIS: 2000-04-12; ETDE: 1976-08-24

*Processes for forming compressed coal briquets of uniform size and with sufficient strength after carbonization for blast furnace use.*

RT briquetting

RT coke

RT coke ovens

**former yugoslav republic of macedonia**

INIS: 1997-06-05; ETDE: 1998-04-10

USE the former yugoslav republic of macedonia

**FORMIC ACID**

\*BT1 monocarboxylic acids

RT formamide

RT formates

**FORMIC ACID FUEL CELLS**

INIS: 2000-04-12; ETDE: 1976-04-19

\*BT1 fuel cells

**formic aldehyde**

USE formaldehyde

**forming (materials)**

USE materials working

**formol**

USE formaldehyde

**formosa**

2000-04-12

USE taiwan

**FORMVAR**

\*BT1 plastics

\*BT1 polyacetals

**FORMYL RADICALS**

\*BT1 acyl radicals

RT formaldehyde

**formylpteroic acid**

USE folic acid

**forschungs und messreaktor****braunschweig**

USE fmr b reactor

**forschungsreaktor-2 frankfurt**

USE frf-2 reactor

**forschungsreaktor berlin-2**

USE ber-2 reactor

**forschungsreaktor frankfurt**

USE frf reactor

**forschungsreaktor geesthacht-1**

USE frg-1 reactor

**forschungsreaktor geesthacht-2**

USE frg-2 reactor

**forschungsreaktor muenchen**

USE frm reactor

**forschungsreaktor neuherberg**

USE frm reactor

**FORSCHUNGSZENTRUM JUELICH**

1995-03-27

Until March 1995 this was known as

KERNFORSCHUNGSANLAGE JUELICH.

UF juelich (kernforschungsanlage)

UF kernforschungsanlage juelich

\*BT1 german fr organizations

**FORSCHUNGSZENTRUM****KARLSRUHE**

1995-10-25

Until October 1995 this was known as

KERNFORSCHUNGSZENTRUM

KARLSRUHE.

UF karlsruhe (forschungszenrum)

UF karlsruhe (kernforschungszenrum)

UF karlsruhe nuclear research center

UF kernforschungszenrum karlsruhe

\*BT1 german fr organizations

**FORSMARK-1 REACTOR**

Oesthammar, Uppsala, Sweden.

\*BT1 bwr type reactors

**FORSMARK-2 REACTOR**

INIS: 1977-02-08; ETDE: 1977-04-13

Oesthammar, Uppsala, Sweden.

\*BT1 bwr type reactors

**FORSMARK-3 REACTOR**

INIS: 1976-09-06; ETDE: 1976-11-01

Oesthammar, Uppsala, Sweden.

\*BT1 bwr type reactors

**fort calhoun-1 reactor**

INIS: 1999-04-15; ETDE: 1978-09-13

USE calhoun-1 reactor

**fort calhoun-2 reactor**

INIS: 1999-04-15; ETDE: 1978-09-13

USE calhoun-2 reactor

**fort shevchenko reactor**

USE bn-350 reactor

**fort st. vrain reactor**

USE vrain reactor

**fort worth astr reactor**

2000-04-12

USE astr reactor

**fort worth gtr reactor**

USE gtr reactor

**forth**

INIS: 2000-04-12; ETDE: 1986-09-05

(Prior to September 1994, this was a valid ETDE descriptor.)

USE programming languages

**fortissimo reactor**

INIS: 2000-04-12; ETDE: 1975-08-19

USE rapsodie reactor

**FORTTRAN**

BT1 programming languages

**FOSSIL-FUEL POWER PLANTS**

1997-06-19

UF mine-mouth generating plants

UF san juan power plant

\*BT1 thermal power plants

NT1 kingston steam plant

NT1 paradise steam plant

NT1 shawnee steam plant

NT1 widows creek steam plant

RT boiler fuels

RT coal-fired gas turbines

RT mhd power plants

RT solar repowering

RT us power plant and industrial fuel use act

**fossil fuel reserves**

USE fossil fuels

USE reserves

**FOSSIL FUELS**

UF fossil fuel reserves

BT1 energy sources

BT1 fuels

NT1 coal

NT2 black coal

NT3 anthracite

NT3 bituminous coal

NT2 brown coal

NT3 lignite

NT2 coal fines

NT2 high-sulfur coal

NT2 low-sulfur coal

NT2 sapropelic coal

NT3 boghead coal

NT4 torbanite

NT3 cannel coal

NT2 subbituminous coal

NT1 natural gas

NT2 abiogenic gas

NT2 compressed natural gas

NT2 liquefied natural gas

NT1 oil sands

NT1 oil shales

NT2 black shales

NT1 peat

NT1 petroleum

NT2 petroleum fractions

NT3 petroleum distillates

NT4 gas oils

NT5 diesel fuels

NT5 fuel oils

NT6 heating oils

NT6 residual fuels

NT5 kerosene

NT3 petroleum residues

NT3 refinery gases

NT2 residual petroleum

NT2 shale oil

NT3 shale oil fractions

NT2 sour crudes

RT briquets

RT coke

RT fuel feeding systems

RT fuel substitution

RT us power plant and industrial fuel use act

**FOSSILS**

INIS: 1980-07-24; ETDE: 1978-02-14

*Remains, traces, or imprints of organisms preserved in the earth's crust some time in geologic past.*

UF plant fossils

UF skeletal fossils

RT animals

RT archaeological specimens

RT biological evolution

RT paleoclimatology

RT paleontology

RT sedimentary rocks

**foster wheeler gasification process**

INIS: 2000-04-12; ETDE: 1977-05-07

USE combined-cycle fw process

**foucault current**

2000-04-12

*Current induced in interior of conductors by variations of magnetic flux. Current induced in interior of conductors by variations of magnetic flux.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE electric currents

USE magnetic flux

**FOULING**

INIS: 1996-05-14; ETDE: 1975-11-28

*Deposition of unwanted materials on equipment, e.g., heat exchangers, usually in a water environment.*

NT1 biological fouling

RT antifoulants

RT contamination

RT corrosion

RT deposition

RT deposits

RT filters

RT impingement

RT screens

RT water pollution

**FOUNDATIONS**

1975-12-17

UF building foundations

UF piles

\*BT1 supports

RT basements

RT buildings

RT construction

RT soil-structure interactions

**FOUNDRIES**

INIS: 1993-06-04; ETDE: 1976-08-04

BT1 industrial plants

RT casting

RT metal industry

**FOUR-BODY PROBLEM**

BT1 many-body problem

**FOUR-DIMENSIONAL CALCULATIONS**

UF 4-dimensional calculations  
 UF calculations (4-dimensional)  
 RT many-dimensional calculations  
 RT mathematics

**four-fermion interaction**

USE fermi interactions

**FOUR MOMENTUM TRANSFER**

INIS: 1978-02-23; ETDE: 1978-04-28  
 UF transfer (four momentum)  
 UF transfer (q-squared)  
 BT1 momentum transfer  
 RT cross sections  
 RT electromagnetic form factors  
 RT linear momentum transfer  
 RT particle interactions  
 RT rosenbluth formula  
 RT scattering

**four-nucleon structure**

USE quartet model

**FOUR-NUCLEON TRANSFER REACTIONS**

\*BT1 multi-nucleon transfer reactions  
 NT1 alpha-transfer reactions

**FOUR-PI COUNTING**

BT1 counting techniques  
 RT four-pi detectors

**FOUR-PI DETECTORS**

1994-06-29  
 \*BT1 radiation detectors  
 RT four-pi counting  
 RT nica mpd detector

**four wave mixing**

INIS: 2000-04-12; ETDE: 1986-01-14  
 USE frequency mixing

**FOURIER ANALYSIS**

UF analysis (fourier)  
 RT frequency analysis  
 RT mathematics  
 RT normal-mode analysis

**FOURIER HEAT EQUATION**

\*BT1 partial differential equations  
 RT heat transfer

**FOURIER TRANSFORM SPECTROMETERS**

INIS: 1991-10-22; ETDE: 1983-07-20  
 \*BT1 spectrometers  
 RT emission spectroscopy

**FOURIER TRANSFORMATION**

\*BT1 integral transformations

**FOURMARIERITE**

2000-04-12  
 \*BT1 uranium minerals  
 RT lead oxides  
 RT uranium oxides

**FOURTH SOUND**

RT sound waves  
 RT superfluidity

**FOWL**

1997-06-17  
 UF poultry  
 \*BT1 birds  
 NT1 chickens  
 NT1 ducks  
 NT1 geese

RT food  
 RT pigeons

**fowler equation**

USE fowler-nordheim theory

**FOWLER-NORDHEIM THEORY**

UF fowler equation  
 RT photoelectric effect

**FOXES**

INIS: 1993-02-18; ETDE: 1985-03-12  
 UF urocyon  
 UF vulpes  
 \*BT1 mammals  
 RT coyotes  
 RT dogs  
 RT wild animals  
 RT wolves

**fpc**

INIS: 2000-04-12; ETDE: 1976-10-13  
 USE us federal power commission

**fpc gas areas**

INIS: 2000-04-12; ETDE: 1979-12-10  
 USE ferc gas areas

**FR-0 REACTOR**

UF studsvik fr-0 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 fast reactors  
 \*BT1 research reactors  
 \*BT1 training reactors  
 \*BT1 zero power reactors

**FR-2 REACTOR**

Gesellschaft fuer Kernforschung mbH,  
 Karlsruhe, Baden-Wuerttemberg, Federal  
 Republic of Germany. Decommissioned since  
 1996.  
 UF karlsruhe research reactor fr-2  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**fracer-fulco method**

USE dispersion relations

**FRACTALS**

INIS: 1987-05-26; ETDE: 1987-06-09  
 Fractals have structure which looks the same  
 for any level of magnification.  
 RT metrics  
 RT topology

**FRACTIONAL-PARENTAGE COEFFICIENTS**

Numerical coefficients for proper  
 antisymmetric combinations of wave functions  
 for (n-1) and 1 particles to form wave  
 functions for n-particle states.  
 RT n\*baryons  
 RT orbital angular momentum  
 RT wave functions

**FRACTIONATED IRRADIATION**

UF dose fractionation  
 UF split dose irradiation  
 BT1 irradiation  
 RT cumulative radiation effects  
 RT dose-response relationships  
 RT radiotherapy  
 RT temporal dose distributions

**FRACTIONATION**

1985-12-10  
 BT1 separation processes  
 RT dissolution  
 RT distillation  
 RT two-dimensional electrophoresis

**FRACTOGRAPHY**

RT ceramography  
 RT fractures  
 RT metallography  
 RT photomicrography

**FRACTURE MECHANICS**

INIS: 1980-09-12; ETDE: 1980-10-07  
 BT1 mechanics  
 RT crack propagation  
 RT cracks  
 RT defects  
 RT fracture properties  
 RT fractures  
 RT stress intensity factors

**FRACTURE PROPERTIES**

UF fracture strength  
 UF fracture toughness  
 UF strength (fracture)  
 UF toughness (fracture)  
 BT1 mechanical properties  
 RT cracks  
 RT failures  
 RT fracture mechanics  
 RT fractures  
 RT helium embrittlement  
 RT hydrogen embrittlement  
 RT ruptures  
 RT stress intensity factors

**fracture strength**

USE fracture properties

**fracture toughness**

USE fracture properties

**fractured formations**

INIS: 2000-04-12; ETDE: 1977-08-24  
 USE fractured reservoirs

**FRACTURED RESERVOIRS**

INIS: 1992-04-29; ETDE: 1977-08-24  
 UF fissured formations  
 UF fractured formations  
 BT1 geologic structures  
 RT geologic fissures  
 RT reservoir rock

**FRACTURES**

1995-09-08  
 BT1 failures  
 NT1 hydraulic fractures  
 NT1 thermal fractures  
 RT crack propagation  
 RT cracks  
 RT defects  
 RT deformation  
 RT explosive fracturing  
 RT fractography  
 RT fracture mechanics  
 RT fracture properties  
 RT fracturing  
 RT fragmentation  
 RT geologic fissures  
 RT geologic fractures  
 RT hydraulic fracturing  
 RT ruptures  
 RT stress intensity factors

**fractures (bone)**

USE bone fractures

**FRACTURING**

1981-02-27

- NT1 electrolinking
- NT1 explosive fracturing
- NT1 hydraulic fracturing
- NT1 thermal fracturing
- RT comminution
- RT fractures
- RT fragmentation
- RT surface mining
- RT underground mining

**FRACTURING FLUIDS**

INIS: 2000-04-12; ETDE: 1982-10-05

- UF hydraulic fracturing fluids
- BT1 fluids
- RT hydraulic fractures
- RT hydraulic fracturing
- RT well stimulation

**FRAGMENTATION**

1999-05-19

See also **NUCLEAR FRAGMENTATION**.(Until August 1995 this concept was indexed to **MECHANICAL FRAGMENTATION**.)

- UF mechanical fragmentation
- UF shattering
- RT comminution
- RT crushing
- RT fractures
- RT fracturing

**fragmentation (limiting)**

INIS: 1975-11-27; ETDE: 2002-06-13

- USE limiting fragmentation

**fragments (decay)**

- USE decay

**fragments (fallout)**

- USE fallout

**fragments (fission)**

- USE fission fragments

**fragments (nuclear)**

INIS: 1978-11-24; ETDE: 2002-06-13

- USE nuclear fragments

**fragments (particles)**

- USE particles

**fragments (spallation)**

INIS: 1978-11-24; ETDE: 1978-12-20

- USE spallation fragments

**FRANCE**

1997-06-17

- BT1 developed countries
- \*BT1 western europe
- NT1 reunion island
- RT alps
- RT bay of biscay
- RT cea
- RT cnrs solar facility
- RT oecd
- RT rhine river
- RT rhone river
- RT sultz-sous-forets geothermal field

**francevillite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE oxide minerals
- USE uranium minerals

**FRANCIUM**

- \*BT1 alkali metals

**FRANCIUM 199**

INIS: 1999-07-21; ETDE: 2002-01-18

- \*BT1 alpha decay radioisotopes

- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 200**

INIS: 1995-10-03; ETDE: 1995-09-22

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 201**

INIS: 1979-05-28; ETDE: 1979-09-06

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 202**

INIS: 1979-05-28; ETDE: 1979-09-06

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 203**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 204**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 205**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 206**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 207**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 208**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 209**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei

- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 210**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 211**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 212**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 214**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 215**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 216**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 218**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 219**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes



- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 220**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 221**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 222**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 223**

- UF actinium k*
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 224**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 225**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 226**

- INIS: 1976-07-06; ETDE: 1976-08-24*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 227**

- INIS: 1976-07-06; ETDE: 1975-08-19*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 228**

- INIS: 1976-07-06; ETDE: 1975-08-19*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 229**

- INIS: 1979-01-18; ETDE: 1975-08-19*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 230**

- INIS: 1979-05-28; ETDE: 1979-09-06*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 231**

- 1985-05-15*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 232**

- INIS: 1990-12-05; ETDE: 1991-01-15*
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM ADDITIONS**

- 1996-01-24*
- Alloys containing not more than 1% Fr are listed here.*
- \*BT1 francium alloys
- RT francium compounds*

**FRANCIUM ALLOYS**

- 2000-04-12*
- BT1 alloys*
- NT1 francium additions*

**FRANCIUM CHLORIDES**

- 1996-07-18*
- (From July 1996 to January 2007*
- FRANCIUM COMPOUNDS plus HALIDES*
- was used for this concept.)*
- \*BT1 chlorides
- \*BT1 francium halides

**FRANCIUM COMPLEXES**

- 1996-07-18*
- (From March 1997 to January 2007 ALKALI*
- METAL COMPLEXES was used for this*
- concept.)*
- \*BT1 alkali metal complexes

**FRANCIUM COMPOUNDS**

- 1996-07-18*
- BT1 alkali metal compounds*
- NT1 francium halides*
- NT2 francium chlorides*
- RT francium additions*

**FRANCIUM HALIDES**

- 2007-01-19*
- \*BT1 francium compounds
- \*BT1 halides
- NT1 francium chlorides*

**FRANCIUM IONS**

- \*BT1 ions

**FRANCIUM ISOTOPES**

- 1999-07-16*
- BT1 isotopes*
- NT1 francium 199*
- NT1 francium 200*
- NT1 francium 201*
- NT1 francium 202*
- NT1 francium 203*
- NT1 francium 204*
- NT1 francium 205*
- NT1 francium 206*
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- NT1 francium 227*
- NT1 francium 228*
- NT1 francium 229*
- NT1 francium 230*
- NT1 francium 231*
- NT1 francium 232*

**FRANCK-CONDON PRINCIPLE**

- RT energy-level transitions*

**frankenstein**

- USE scanning measuring projectors*

**franco-german high flux reactor**

- USE grenoble reactor*

**frank dislocations**

- ETDE: 2002-06-13*
- USE screw dislocations*

**frank loops**

- USE screw dislocations*

**frank-read source**

- 2000-04-12*
- A source of dislocation loops in a strained crystal.*
- (Prior to February 1995, this was a valid*
- ETDE descriptor.)*
- SEE dislocations*

**frankfurt research reactor**

- USE frf reactor*

**frankfurt research reactor-2**

- USE frf-2 reactor*

**FRANKIA**

- INIS: 2000-04-12; ETDE: 1986-07-08*
- \*BT1 actinomyces
- RT mycorrhizas*
- RT nitrogen fixation*
- RT symbiosis*

**FRASCATI LINAC**

- \*BT1 linear accelerators
- RT frascati national laboratory*

**FRASCATI NATIONAL LABORATORY**

- 2016-12-12*
- UF laboratori nazionali di frascati*
- RT frascati linac*
- RT frascati synchrotron*
- RT infn*

**FRASCATI SYNCHROTRON**

- \*BT1 synchrotrons
- RT frascati national laboratory*

**frascati tokamak**

- INIS: 1983-10-14; ETDE: 1983-11-09*
- USE ft tokamak*

**FRASER RIVER**

- INIS: 2000-04-12; ETDE: 1975-11-11*
- \*BT1 rivers
- RT canada*

**FRAUD**

INIS: 2000-04-12; ETDE: 1983-05-21

BT1 crime

**FRAUNHOFER LINES**

UF *fraunhofer spectrum*

RT spectra

***fraunhofer spectrum***

USE fraunhofer lines

***frc***

USE federal radiation council

**FRCTF REACTOR**

LANL, Los Alamos, New Mexico, USA.

UF *fast reactor core test facility*

UF *lampre-2 reactor*

\*BT1 test reactors

**FREDHOLM EQUATION**

\*BT1 integral equations

***free convection***

USE natural convection

**FREE ELECTRON LASERS**

INIS: 1981-04-03; ETDE: 1979-01-30

BT1 lasers

**FREE ENERGY**

UF *free energy (helmholtz)*

UF *helmholtz free energy*

BT1 energy

\*BT1 thermodynamic properties

NT1 formation free energy

NT1 surface energy

RT affinity

***free energy (gibbs)***

USE free enthalpy

***free energy (helmholtz)***

USE free energy

**FREE ENTHALPY**

UF *free energy (gibbs)*

UF *gibbs free energy*

BT1 energy

\*BT1 thermodynamic properties

NT1 formation free enthalpy

NT1 oxygen potential

***free radicals***

USE radicals

***free steered vehicles***

INIS: 2000-04-12; ETDE: 1979-06-06

USE trackless vehicles

**FREEDOM OF INFORMATION ACT**

INIS: 2000-04-12; ETDE: 1976-09-29

BT1 laws

RT legislation

***freeze-cycle system***

INIS: 2000-04-12; ETDE: 1978-03-03

*System for recirculation of water from the heat storage tank, which requires that the circulating pump be started when the collector plate reaches a temperature slightly above freezing.*

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE freeze protection

SEE solar heating systems

SEE solar water heaters

***freeze drying***

INIS: 2000-04-12; ETDE: 1979-11-23

SEE lyophilization

**FREEZE PROTECTION**

INIS: 2000-04-12; ETDE: 1977-10-20

(From March 1978 until March 1996 DRAIN-DOWN SYSTEMS was a valid ETDE descriptor.)

UF *drain-down systems*

SF *freeze-cycle system*

RT antifreeze

RT melting points

RT safety engineering

RT working fluids

**FREEZERS**

INIS: 1993-08-02; ETDE: 1977-06-21

\*BT1 appliances

RT electric appliances

RT gas appliances

RT refrigerators

**FREEZING**

BT1 phase transformations

RT antifreeze

RT cryobiology

RT defrosting

RT lyophilization

RT melting

RT solidification

RT thawing

***freezing (food)***

INIS: 1984-04-04; ETDE: 2002-06-13

USE food processing

**FREEZING OUT**

BT1 separation processes

RT desalination

RT temperature range 0065-0273 k

RT waste processing

***freezing point depression***

USE cryoscopy

***freezing points***

USE melting points

***freight***

INIS: 1992-06-30; ETDE: 1979-11-23

USE cargo

***freight pipelines***

INIS: 2000-04-12; ETDE: 1978-04-06

*Pipelines whose main purpose is to convey products that exist in solid form. See also hydraulic transport and pneumatic transport. (Prior to February 1997 this was a valid ETDE descriptor.)*

USE pipelines

**FRENCH GUIANA**

\*BT1 south america

***french minerve reactor***

USE minerve reactor

**FRENCH ORGANIZATIONS**

BT1 national organizations

NT1 areva nc

NT2 areva nc la hague

NT2 areva nc malvesi

NT2 areva nc marcoule

NT2 areva nc miramas

NT2 areva nc pierrelatte

NT1 cea

NT2 cea bruyeres-le-chatel

NT2 cea cadarache

NT2 cea fontenay-aux-roses

NT2 cea grenoble

NT2 cea la hague

NT2 cea marcoule

NT2 cea pierrelatte

NT2 cea saclay

NT1 electricite de france

**FRENKEL DEFECTS**

\*BT1 vacancies

**FREONS**

\*BT1 halogenated aliphatic hydrocarbons

RT chlorofluorocarbons

RT cryogenics

RT hydrocarbons

RT refrigerants

***frequency (cyclotron)***

USE cyclotron frequency

***frequency (eigen)***

USE eigenfrequency

***frequency (gyro)***

USE gyrofrequency

***frequency (langmuir)***

USE langmuir frequency

**FREQUENCY ANALYSIS**

INIS: 1979-05-28; ETDE: 1979-09-06

NT1 digital frequency analysis

RT data processing

RT digital filters

RT fourier analysis

RT frequency measurement

**FREQUENCY CONTROL**

INIS: 1976-02-11; ETDE: 1975-10-28

BT1 control

RT frequency dependence

RT frequency measurement

RT frequency modulation

RT frequency selection

RT tuning

**FREQUENCY CONVERTERS**

RT frequency range

RT heterodyne receivers

RT parametric amplifiers

RT pulse generators

**FREQUENCY DEPENDENCE**

UF *wavelength dependence*

RT frequency control

RT frequency measurement

RT frequency range

**FREQUENCY MEASUREMENT**

RT frequency analysis

RT frequency control

RT frequency dependence

RT frequency modulation

RT measuring methods

**FREQUENCY MIXING**

INIS: 2000-05-16; ETDE: 1986-01-14

*The combination of two or more electromagnetic waves in a nonlinear medium to form another wave whose frequency is a sum or difference of the frequencies of the incident waves.*

UF *four wave mixing*

NT1 harmonic generation

RT electromagnetic radiation

RT frequency modulation

RT nonlinear optics

RT nonlinear problems

RT plasma waves

RT sound waves

***frequency modulated cyclotrons***

INIS: 1985-10-23; ETDE: 2002-06-13

USE synchrocyclotrons

**FREQUENCY MODULATION**

INIS: 1985-10-23; ETDE: 1981-09-08

BT1 modulation

RT frequency control

RT frequency measurement  
 RT frequency mixing  
 RT frequency selection

**FREQUENCY RANGE**

NT1 ghz range  
 NT2 ghz range 01-100  
 NT2 ghz range 100-1000  
 NT1 hz range  
 NT1 khz range  
 NT2 khz range 01-100  
 NT2 khz range 100-1000  
 NT1 mhz range  
 NT2 mhz range 01-100  
 NT2 mhz range 100-1000  
 NT1 milli hz range  
 NT1 thz range  
 NT2 thz range 01-100  
 NT2 thz range 100-1000  
 RT frequency converters  
 RT frequency dependence  
 RT radar  
 RT sonar  
 RT wavelenghts

**FREQUENCY RESPONSE TESTING**

1976-07-30  
 BT1 testing  
 RT reactor stability

**FREQUENCY SELECTION**

1992-08-11  
 BT1 tuning  
 RT frequency control  
 RT frequency modulation  
 RT lasers  
 RT mode selection

**FRESH WATER**

\*BT1 water  
 RT drinking water  
 RT estuaries  
 RT fathead minnow  
 RT irrigation  
 RT lakes  
 RT limnology  
 RT rivers  
 RT rotifera  
 RT water reservoirs

**fresh water ecosystems**

USE aquatic ecosystems

**FRESNEL COEFFICIENT**

One minus the reciprocal of the square of the refractive index.  
 RT refraction  
 RT refractive index  
 RT visible radiation

**FRESNEL LENS**

1976-06-23  
 A lens with a surface consisting of a concentric series of simple lens sections.  
 BT1 lenses  
 RT solar concentrators

**FRESNEL REFLECTORS**

INIS: 1992-07-09; ETDE: 1981-09-08  
 Mirrors with varying orientation arranged so as to have the optical properties of a smooth reflector, e.g., parabolic reflector.  
 BT1 mirrors  
 \*BT1 solar reflectors

**FRETTING CORROSION**

\*BT1 corrosion

**FREUNDS ADJUVANT**

RT antigens

**FREYALITE**

2000-04-12  
 \*BT1 silicate minerals  
 \*BT1 thorium minerals  
 RT thorium silicates

**FRF-2 REACTOR**

Reactor was not operated. Decommissioned since 2006.  
 UF forschungsreaktor-2 frankfurt  
 UF frankfurt research reactor-2  
 \*BT1 triga type reactors

**FRF REACTOR**

Johann Wolfgang Goethe-Univ., Frankfurt am Main, Essen, Federal Republic of Germany. Shut down since 1968. Decommissioned since 2006.  
 UF forschungsreaktor frankfurt  
 UF frankfurt research reactor  
 \*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 training reactors

**FRG-1 REACTOR**

Gesellschaft fuer Kernenergieverwertung in Schiffbau und Schifffahrt mbH, Geesthacht, Schleswig-Holstein, Federal Republic of Germany. Under decommissioning since 2016.  
 UF forschungsreaktor geesthacht-1  
 UF geesthacht-1 research reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**FRG-2 REACTOR**

Gesellschaft fuer Kernenergieverwertung in Schiffbau und Schifffahrt mbH, Geesthacht, Schleswig-Holstein, Federal Republic of Germany. Under decommissioning since 2012.  
 UF forschungsreaktor geesthacht-2  
 UF geesthacht-2 research reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**frh reactor**

1991-07-02  
 USE triga-1-hanover reactor

**friambient process**

INIS: 2000-04-12; ETDE: 1982-02-23  
 (Prior to July 1993, this was a valid ETDE descriptor.)  
 USE coal liquefaction

**fricke dosimeters**

USE chemical dosimeters

**FRICTION**

NT1 internal friction  
 NT1 rolling friction  
 NT1 sliding friction  
 RT energy losses  
 RT friction factor  
 RT tribology  
 RT wear

**friction (internal)**

2000-04-12  
 USE internal friction

**FRICTION FACTOR**

INIS: 1983-03-14; ETDE: 1977-06-21  
 Dimensionless number used in study of fluid friction in conduits; not for coefficient of friction.  
 BT1 dimensionless numbers  
 RT fluid flow  
 RT fluid mechanics  
 RT friction  
 RT hydraulics  
 RT reynolds number

**FRICTION WELDING**

\*BT1 welding

**frictionless flow**

1986-03-04  
 USE ideal flow

**FRIEDEL-CRAFTS REACTION**

BT1 chemical reactions

**FRJ-1 REACTOR**

Kernforschungsanlage Juelich GmbH, Juelich, Nordrhein-Westfalen, Federal Republic of Germany. Decommissioning since 2007.  
 UF juelich-merlin reactor  
 UF merlin-juelich reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**FRJ-2 REACTOR**

Kernforschungsanlage Juelich GmbH, Juelich, Nordrhein-Westfalen, Federal Republic of Germany. Under decommissioning since 2012.  
 UF dido-juelich reactor  
 UF juelich-dido reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors

**FRM-II REACTOR**

2004-04-02  
 Technische Universitaet Muenchen, Germany.  
 UF new neutron source frm-ii  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**FRM REACTOR**

Technische Universitaet Muenchen, Ministry for Education and Culture, Garching, Bayern, Federal Republic of Germany. Under decommissioning since 1998. Shutdown shut down on 28 July 2000.  
 UF forschungsreaktor muenchen  
 UF munich research reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**frm reactors (thermonuclear)**

1995-01-16  
 Field-reversed mirror reactors.  
 USE magnetic mirror type reactors

**FRN REACTOR**

Gesellschaft fuer Strahlen und Umweltforschung mbH, Neuherberg, Bayern, Federal Republic of Germany. Decommissioned since 1984.  
 UF forschungsreaktor neuherberg

*UF* *neuberberg research reactor*

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 triga type reactors

## FROGS

*UF* *rana*

\*BT1 amphibians

*RT* salamanders

*RT* toads

## FROST

1984-04-04

BT1 ice

*RT* crystallization

*RT* defrosting

*RT* solidification

*RT* weather

## FROST TESTS

\*BT1 thermal testing

## FROUDE NUMBER

BT1 dimensionless numbers

*RT* fluid flow

## FRUCTOSE

*UF* *levulose*

\*BT1 hexoses

\*BT1 ketones

## fruit (seeds)

USE seeds

## FRUIT FLIES

1996-07-23

(From January 1976 till March 1997

RHAGOLETIS CERASI was a valid ETDE descriptor.)

*UF* *cherry fruit fly*

*UF* *rhagoletis cerasi*

\*BT1 flies

NT1 anastrepha

NT1 ceratitis capitata

NT1 dacus

NT2 dacus oleae

NT1 drosophila

## FRUIT TREES

\*BT1 trees

*RT* apples

*RT* apricots

*RT* avocados

*RT* banana plants

*RT* bananas

*RT* cherries

*RT* citrus

*RT* fruits

*RT* peaches

## FRUITS

*Edible parts of plants only.*

BT1 food

NT1 apples

NT1 apricots

NT1 avocados

NT1 bananas

NT1 berries

NT2 blueberries

NT2 raspberries

NT2 strawberries

NT1 cherries

NT1 coconuts

NT1 dates

NT1 figs

NT1 grapefruits

NT1 grapes

NT1 lemons

NT1 mangoes

NT1 nuts

NT2 chestnuts

NT1 olives

NT1 oranges

NT1 papayas

NT1 peaches

NT1 pears

NT1 pineapples

NT1 plums

NT1 tomatoes

*RT* crops

*RT* fruit trees

*RT* plants

## *fs krao mochovce*

2012-11-27

*Finalne spracovanie kvapalných*

*radioaktivných odpadov Mochovce*

USE mochovce liquid raw final treatment facility

## *fsa*

INIS: 1984-04-04; ETDE: 2002-06-13

*Fixed scatterer approximation.*

USE fsc approximation

## FSC APPROXIMATION

*UF* *approximation (fixed scattering centres)*

*UF* *fixed scattering centres approximation*

*UF* *fsa*

\*BT1 approximations

*RT* glauber theory

*RT* many-body problem

*RT* optical models

*RT* scattering

## *fsd devices*

USE flying spot digitizers

## FSH

*UF* *follicle stimulating hormone*

\*BT1 gonadotropins

*RT* estrogens

## FT TOKAMAK

INIS: 1983-10-14; ETDE: 1983-11-09

*UF* *frascati tokamak*

*UF* *ftu tokamak*

\*BT1 tokamak devices

## FT VALUE

*RT* beta decay

*RT* branching ratio

*RT* decay

*RT* decoupling

*RT* half-life

## *ft reactor (richland)*

2000-04-12

USE ftf reactor

## *ftu tokamak*

INIS: 1999-07-26; ETDE: 2002-06-13

USE ft tokamak

## *fuco*

USE hexoses

## FUCUS

\*BT1 chromophycota

\*BT1 seaweeds

## FUDR

*UF* *fluorodeoxyuridine*

\*BT1 antimicrobial agents

\*BT1 fluorouracils

\*BT1 nucleosides

\*BT1 radiosensitizers

*RT* deoxyuridine

## FUEL ADDITIVES

INIS: 1992-05-11; ETDE: 1979-03-05

BT1 additives

*RT* fuels

*RT* tetraethyl lead

## FUEL ADJUSTMENT MECHANISMS

INIS: 2000-04-12; ETDE: 1979-03-27

*RT* prices

*RT* public utilities

## FUEL-AIR RATIO

INIS: 1997-06-17; ETDE: 1976-07-07

*UF* *air-fuel ratio*

BT1 dimensionless numbers

*RT* air

*RT* carburetors

*RT* combustion

*RT* combustion control

*RT* fuels

*RT* oxygen enrichment

## FUEL ASSEMBLIES

NT1 fuel element clusters

NT1 reloadable fuel assemblies

NT1 replaceable fuel assemblies

*RT* fuel assembly dismantling

*RT* fuel elements

*RT* guide tubes

*RT* reactor cores

*RT* shrouds

## FUEL ASSEMBLY DISMANTLING

*UF* *dismantling (fuel assembly)*

*RT* fuel assemblies

*RT* reactor dismantling

## *fuel bundles*

USE fuel element clusters

## FUEL CANS

*UF* *fuel sheaths*

*UF* *sheaths (fuel)*

*RT* canning

*RT* cladding

*RT* decladding

*RT* failed element detection

*RT* failed element monitors

*RT* fuel-cladding interactions

*RT* fuel elements

*RT* hot spots

*RT* jackets

## *fuel casks*

INIS: 1977-03-14; ETDE: 2002-06-13

USE casks

## *fuel cell catalysts*

INIS: 1992-02-26; ETDE: 1978-10-30

USE electrocatalysts

## FUEL CELL POWER PLANTS

1992-05-11

*For commercial, residential, or electric utility use.*

BT1 power plants

*RT* fuel cells

*RT* microgeneration

## FUEL CELLS

1997-06-17

BT1 direct energy converters

BT1 electrochemical cells

NT1 acid electrolyte fuel cells

NT1 alcohol fuel cells

NT2 direct ethanol fuel cells

NT2 direct methanol fuel cells

NT1 alkaline electrolyte fuel cells

NT1 ammonia fuel cells

NT1 biochemical fuel cells

NT1 coal fuel cells

NT1 formaldehyde fuel cells

NT1 formate fuel cells

NT1 formic acid fuel cells

NT1 high-temperature fuel cells

**NT2** molten carbonate fuel cells  
**NT2** solid oxide fuel cells  
**NT1** hydrazine fuel cells  
**NT1** hydrocarbon fuel cells  
**NT1** hydrogen fuel cells  
**NT1** natural gas fuel cells  
**NT1** regenerative fuel cells  
**NT2** redox fuel cells  
**NT1** solid electrolyte fuel cells  
**NT2** proton exchange membrane fuel cells  
**NT2** solid oxide fuel cells  
*RT* electric-powered vehicles  
*RT* electrochemistry  
*RT* fuel cell power plants  
*RT* matrix materials  
*RT* metal-gas batteries  
*RT* off-peak energy storage  
*RT* solid electrolytes

### FUEL CHANNELS

**\*BT1** reactor channels  
*RT* ducts  
*RT* fuel elements  
*RT* hot channel  
*RT* shrouds

### FUEL-CLADDING INTERACTIONS

*UF* cladding-fuel interactions  
*RT* chemical reactions  
*RT* fuel cans  
*RT* nuclear fuels

### FUEL CONSUMPTION

1992-03-12  
*UF* fuel economy  
**BT1** energy consumption  
*RT* automotive fuels  
*RT* consumption rates  
*RT* demand  
*RT* fuels  
*RT* off-highway use  
*RT* on-highway use

### FUEL-COOLANT INTERACTIONS

*UF* coolant-fuel interactions  
*RT* chemical reactions  
*RT* coolants  
*RT* fluid-structure interactions  
*RT* molten metal-water reactions  
*RT* nuclear fuels  
*RT* reactor accidents

### fuel cooling installations

USE spent fuel storage

### FUEL COOLING TIME

INIS: 1980-07-24; ETDE: 1980-05-06  
*The cooling time of spent fuel after its discharge from the reactor core.*  
**BT1** cooling time  
*RT* after-heat  
*RT* burnup  
*RT* cooling  
*RT* fission products  
*RT* fuel storage pools  
*RT* gamma spectroscopy  
*RT* spent fuel storage  
*RT* spent fuels

### FUEL CYCLE

*UF* recycle (nuclear fuel)  
**NT1** closed fuel cycle  
**NT2** plutonium recycle  
**NT2** uranium recycle  
**NT1** open fuel cycle  
**NT1** thorium cycle  
*RT* burnup  
*RT* cost  
*RT* depleted uranium  
*RT* fissionable materials

*RT* fuel cycle centers  
*RT* fuel management  
*RT* harvest process  
*RT* nuclear fuels  
*RT* nuclear materials management  
*RT* present worth method  
*RT* proliferation  
*RT* reprocessing  
*RT* risk assessment  
*RT* sol-gel process  
*RT* westinghouse recycle fuels plant

### FUEL CYCLE CENTERS

INIS: 1978-07-03; ETDE: 1978-08-07

*UF* nuclear fuel centers  
**BT1** nuclear facilities  
*RT* feed materials plants  
*RT* fuel cycle  
*RT* fuel fabrication plants  
*RT* fuel reprocessing plants  
*RT* fuel storage pools  
*RT* plutonium recycle  
*RT* radioactive waste disposal  
*RT* radioactive waste facilities  
*RT* radioactive waste processing  
*RT* radioactive waste storage  
*RT* spent fuel storage  
*RT* uranium recycle

### FUEL DEGRADATION

2017-07-18

**\*BT1** reactor accidents

### FUEL DENSIFICATION

*The increase in density of nuclear fuel resulting from thermal and/or radiation effects.*

*RT* density  
*RT* fuel elements  
*RT* nuclear fuels  
*RT* physical radiation effects  
*RT* reactor safety

### FUEL DISPERSION REACTORS

**\*BT1** homogeneous reactors  
**NT1** fluidized bed reactors  
**NT1** slurry reactors  
*RT* dispersion nuclear fuels

### fuel economy

INIS: 1992-08-17; ETDE: 1976-04-19  
 (Prior to December 1991 this was a valid ETDE descriptor.)  
 USE fuel consumption

### FUEL ELEMENT CLUSTERS

*UF* bundles (fuel elements)  
*UF* clusters (fuel elements)  
*UF* fuel bundles  
*UF* rod bundles  
**BT1** fuel assemblies  
*RT* spacers

### FUEL ELEMENT FAILURE

1997-04-29

**BT1** failures  
*RT* failed element detection  
*RT* failed element monitors  
*RT* fuel motion detection  
*RT* radiation hazards  
*RT* reactor accidents  
*RT* reactor operation  
*RT* reactor safety

### FUEL ELEMENTS

(From January 1975 to February 1997 FUEL SPHERES was a valid ETDE descriptor.)

*UF* fuel spheres  
*UF* nuclear fuel elements  
*UF* reactor fuel elements  
*UF* spheres (fuel)  
**BT1** reactor components

**NT1** annular fuel elements  
**NT1** fuel pins  
**NT1** fuel plates  
**NT1** fuel rods  
**NT2** hollow fuel rods  
**NT1** fuel wires  
**NT1** spent fuel elements  
**NT1** thermionic fuel elements  
*RT* burnout  
*RT* decladding  
*RT* failed element detection  
*RT* failed element monitors  
*RT* fuel assemblies  
*RT* fuel cans  
*RT* fuel channels  
*RT* fuel densification  
*RT* fuel fabrication plants  
*RT* fuel integrity  
*RT* fuel storage pools  
*RT* matrix materials  
*RT* nuclear fuels  
*RT* positioning  
*RT* post-irradiation examination  
*RT* reactor cores  
*RT* reactor lattices  
*RT* reactors

### FUEL FABRICATION PLANTS

1996-07-18

(Prior to March 1997 GENERAL ATOMIC FUEL FABRICATION FACILITY was a valid ETDE descriptor.)

*UF* general atomic fuel fabrication facility

**BT1** nuclear facilities  
**NT1** cimarron plutonium production plant  
**NT1** cimarron uranium fuel plant  
**NT1** exxon fuel fabrication facility  
**NT1** mixed oxide fuel fabrication plants  
**NT1** westinghouse recycle fuels plant  
*RT* fabrication  
*RT* fuel cycle centers  
*RT* fuel elements  
*RT* industrial plants  
*RT* nuclear industry  
*RT* nuclear parks

### FUEL FEEDING SYSTEMS

INIS: 1983-03-15; ETDE: 1976-07-07

*UF* coaltek process  
**BT1** fuel systems  
**NT1** stokers  
*RT* fossil fuels  
*RT* fuel gas  
*RT* materials handling  
*RT* pellet injection  
*RT* pulverizers  
*RT* thermonuclear fuels  
*RT* thermonuclear reactor fueling

### FUEL GAGES

2000-04-12

**BT1** measuring instruments

### FUEL GAS

**BT1** energy sources  
**\*BT1** gas fuels  
**\*BT1** gases  
**NT1** high btu gas  
**NT1** intermediate btu gas  
**NT2** carburetted water gas  
**NT2** town gas  
**NT2** water gas  
**NT1** landfill gas  
**NT1** low btu gas  
**NT2** producer gas  
**NT1** natural gas  
**NT2** abiogenic gas  
**NT2** compressed natural gas  
**NT2** liquefied natural gas

RT coal gas  
 RT dual-fuel engines  
 RT fuel feeding systems  
 RT hot gas cleanup  
 RT public utilities  
 RT refinery gases  
 RT synthetic fuels

**FUEL HANDLING ACCIDENTS**

2017-07-18

\*BT1 reactor accidents

**FUEL INJECTION SYSTEMS**

1992-08-13

BT1 fuel systems  
 RT atomization  
 RT combustion  
 RT combustion chambers  
 RT diesel engines  
 RT engines  
 RT nozzles  
 RT spark ignition engines  
 RT stratified charge engines  
 RT thermonuclear reactors

**FUEL INTEGRITY**

INIS: 1986-03-04; ETDE: 1985-03-26

UF integrity (fuel)  
 RT fuel elements  
 RT nuclear fuels  
 RT spent fuel elements  
 RT spent fuel storage  
 RT spent fuels

**fuel kernels**

USE fuel particles

**fuel loading (fission reactor)**

1982-11-29

USE reactor fueling

**FUEL MANAGEMENT**

UF in-core fuel management  
 \*BT1 nuclear materials management  
 RT fuel cycle  
 RT reactor cores  
 RT reactor fueling

**FUEL MOTION DETECTION**

INIS: 1979-09-18; ETDE: 1979-03-05

Determination of in-core nuclear fuel behavior.

BT1 detection  
 RT failed element detection  
 RT fuel element failure

**FUEL OILS**

1992-02-22

UF coal-oil mixtures  
 \*BT1 gas oils  
 \*BT1 liquid fuels  
 NT1 heating oils  
 NT1 residual fuels  
 RT oils

**FUEL PARTICLES**

UF fuel kernels  
 UF kernels (fuel)  
 UF particles (fuel)  
 NT1 coated fuel particles  
 RT dispersion nuclear fuels  
 RT nuclear fuels

**FUEL PELLETS**

BT1 pellets  
 RT fuel rods  
 RT nuclear fuels  
 RT pellet injection  
 RT pelletizing

**fuel pencils**

USE fuel pins

**FUEL PINS**

UF fuel pencils  
 UF pins (fuel)  
 \*BT1 fuel elements

**FUEL PLATES**

UF plates (fuel)  
 \*BT1 fuel elements

**fuel pools**

1984-04-04

(Prior to January 1995, this was a valid ETDE descriptor.)

USE fuel storage pools

**FUEL RACKS**

INIS: 1980-04-02; ETDE: 1978-10-23

UF racks (fuel)  
 \*BT1 supports  
 RT fuel storage pools  
 RT spent fuel storage

**fuel reprocessing**

USE reprocessing

**FUEL REPROCESSING PLANTS**

1996-06-26

BT1 nuclear facilities  
 NT1 areva nc la hague  
 NT1 barnwell fuel processing plant  
 NT1 cea la hague  
 NT1 coral reprocessing plant  
 NT1 hef  
 NT1 idaho chemical processing plant  
 NT1 midwest fuel recovery plant  
 NT1 nuclear fuel recovery and recycling center  
 NT1 rokkasho reprocessing plant  
 NT1 sellafeld reprocessing plant  
 NT1 tokai reprocessing plant  
 NT1 wackersdorf reprocessing plant  
 NT1 wak  
 NT1 west valley processing plant  
 NT1 westinghouse recycle fuels plant  
 RT fission products  
 RT fuel cycle centers  
 RT industry  
 RT mayak plant  
 RT nuclear industry  
 RT nuclear parks  
 RT radioactive waste facilities  
 RT reprocessing  
 RT risk assessment  
 RT spent fuels

**fuel rod consolidation**

INIS: 2000-04-12; ETDE: 1985-03-26

USE configuration  
 USE fuel rods

**FUEL RODS**

UF fuel rod consolidation  
 UF fuel slugs  
 UF rods (fuel)  
 UF slugs (fuel)  
 \*BT1 fuel elements  
 NT1 hollow fuel rods  
 RT fuel pellets

**FUEL SCANNING**

UF scanning (fuel)  
 NT1 gamma fuel scanning  
 RT burnup  
 RT nondestructive testing  
 RT nuclear reaction analyzers

**fuel sheaths**

USE fuel cans

**fuel slugs**

USE fuel rods

**FUEL SLURRIES**

UF coal-oil mixtures  
 UF fuel suspensions  
 UF slurries (fuel)  
 UF suspensions (fuel)  
 BT1 fuels  
 \*BT1 slurries  
 RT slurry reactors

**FUEL SOLUTIONS**

\*BT1 liquid fuels  
 \*BT1 nuclear fuels  
 \*BT1 solutions  
 RT liquid homogeneous reactors

**fuel spheres**

2000-04-12

Pebble bed reactor fuel elements.

(Prior to February 1997 this was a valid ETDE descriptor.)

USE fuel elements

**FUEL STORAGE POOLS**

INIS: 1976-02-18; ETDE: 1976-03-25

UF fuel pools  
 UF pools (fuel storage)  
 UF storage pools (fuel)  
 RT away-from-reactor storage  
 RT fuel cooling time  
 RT fuel cycle centers  
 RT fuel elements  
 RT fuel racks  
 RT spent fuel storage

**FUEL SUBSTITUTION**

INIS: 1992-03-16; ETDE: 1977-12-22

SF alternate fuels  
 RT alternative fuels  
 RT energy shortages  
 RT energy substitution  
 RT energy substitution equivalent  
 RT energy supplies  
 RT energy surpluses  
 RT fossil fuels  
 RT fuels  
 RT interchangeability  
 RT material substitution  
 RT rolled-in pricing

**fuel substitution equivalent**

INIS: 2000-04-12; ETDE: 1978-06-14

USE energy substitution equivalent

**FUEL SUPPLIES**

INIS: 1992-07-09; ETDE: 1979-11-23

BT1 energy supplies  
 RT demand  
 RT fuels  
 RT receipts  
 RT shortages  
 RT us naval petroleum reserves

**fuel suspensions**

USE fuel slurries

**FUEL SYSTEMS**

1997-06-17

Non-nuclear fuels.

NT1 carburetors  
 NT1 fuel feeding systems  
 NT2 stokers  
 NT1 fuel injection systems  
 RT fuels  
 RT oxygen enrichment

**fuel use act**

INIS: 2000-04-12; ETDE: 1980-01-24

USE us power plant and industrial fuel use act

**FUEL WASHERS**

UF washers (fuel)

RT annular fuel elements  
RT nuclear fuels

**FUEL WIRES**

UF wires (*fuel*)  
\*BT1 fuel elements

**fueling machines (fission reactors)**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE reactor charging machines

**FUELS**

1997-06-19

(From January 1975 till March 1997 PROPELLANTS was a valid ETDE descriptor.)

SF *propellants*

NT1 alternative fuels

NT2 biofuels

NT3 biodiesel fuels

NT3 wood fuels

NT2 refuse derived fuels

NT2 solvent-refined coal

NT2 synthetic fuels

NT3 alcohol fuels

NT4 ethanol fuels

NT4 methanol fuels

NT3 hydrogen fuels

NT3 pyrolytic oils

NT3 synthetic petroleum

NT1 automotive fuels

NT1 boiler fuels

NT1 fossil fuels

NT2 coal

NT3 black coal

NT4 anthracite

NT4 bituminous coal

NT3 brown coal

NT4 lignite

NT3 coal fines

NT3 high-sulfur coal

NT3 low-sulfur coal

NT3 sapropelic coal

NT4 boghead coal

NT5 torbanite

NT4 cannel coal

NT3 subbituminous coal

NT2 natural gas

NT3 abiogenic gas

NT3 compressed natural gas

NT3 liquefied natural gas

NT2 oil sands

NT2 oil shales

NT3 black shales

NT2 peat

NT2 petroleum

NT3 petroleum fractions

NT4 petroleum distillates

NT5 gas oils

NT6 diesel fuels

NT6 fuel oils

NT7 heating oils

NT7 residual fuels

NT6 kerosene

NT4 petroleum residues

NT4 refinery gases

NT3 residual petroleum

NT3 shale oil

NT4 shale oil fractions

NT3 sour crudes

NT1 fuel slurries

NT1 gas fuels

NT2 fuel gas

NT3 high btu gas

NT3 intermediate btu gas

NT4 carburetted water gas

NT4 town gas

NT4 water gas

NT3 landfill gas

NT3 low btu gas

NT4 producer gas

NT3 natural gas

NT4 abiogenic gas

NT4 compressed natural gas

NT4 liquefied natural gas

NT1 liquid fuels

NT2 alcohol fuels

NT3 ethanol fuels

NT3 methanol fuels

NT2 biodiesel fuels

NT2 diesel fuels

NT2 fuel oils

NT3 heating oils

NT3 residual fuels

NT2 fuel solutions

NT2 gasohol

NT2 gasoline

NT3 unleaded gasoline

NT2 jet engine fuels

NT2 kerosene

NT2 liquid metal fuels

NT2 molten salt fuels

NT2 oxygenated fuels

NT1 nuclear fuels

NT2 accident-tolerant nuclear fuels

NT2 alloy nuclear fuels

NT3 uranium-molybdenum fuels

NT2 denatured fuel

NT2 dispersion nuclear fuels

NT2 fuel solutions

NT2 liquid metal fuels

NT2 mixed carbide fuels

NT2 mixed nitride fuels

NT2 mixed oxide fuels

NT2 molten salt fuels

NT2 spent fuels

NT1 solid fuels

NT2 alloy nuclear fuels

NT3 uranium-molybdenum fuels

NT2 briquets

NT2 dispersion nuclear fuels

NT2 mixed carbide fuels

NT2 mixed nitride fuels

NT2 mixed oxide fuels

NT2 peat

NT2 wood fuels

NT1 synthetic fuels

NT2 alcohol fuels

NT3 ethanol fuels

NT3 methanol fuels

NT2 hydrogen fuels

NT2 pyrolytic oils

NT2 synthetic petroleum

NT1 thermonuclear fuels

RT calorific value

RT fuel additives

RT fuel-air ratio

RT fuel consumption

RT fuel substitution

RT fuel supplies

RT fuel systems

RT interchangeability

RT rolled-in pricing

RT semicoke

RT semicoking

RT wood

**fuels (nuclear)**

2000-04-12

USE nuclear fuels

**fuelwood**

INIS: 1992-04-09; ETDE: 1981-01-30

USE wood fuels

**fugen atr**

USE jatr reactor

**fujaira**

INIS: 1992-05-07; ETDE: 1976-08-05

USE united arab emirates

**FUJITSU COMPUTERS**

INIS: 1992-08-18; ETDE: 1985-12-13

BT1 computers

**FUKUSHIMA-1 REACTOR**

TEPCO, Okuma, Fukushima, Japan.

Permanent shutdown in 2011.

UF tokyo-1 reactor

\*BT1 bwr type reactors

RT fukushima daiichi nuclear power station

**FUKUSHIMA-2 REACTOR**

TEPCO, Okuma, Fukushima, Japan.

Permanent shutdown since 2011.

UF tokyo-2 reactor

\*BT1 bwr type reactors

RT fukushima daiichi nuclear power station

**FUKUSHIMA-3 REACTOR**

TEPCO, Okuma, Fukushima, Japan.

Permanent shutdown since 2011.

UF tokyo-3 reactor

\*BT1 bwr type reactors

RT fukushima daiichi nuclear power station

**FUKUSHIMA-4 REACTOR**

TEPCO, Okuma, Fukushima, Japan.

Permanent shutdown since 2011.

UF tokyo-4 reactor

\*BT1 bwr type reactors

RT fukushima daiichi nuclear power station

**FUKUSHIMA-5 REACTOR**

TEPCO, Futaba, Fukushima, Japan.

\*BT1 bwr type reactors

RT fukushima daiichi nuclear power station

**FUKUSHIMA-6 REACTOR**

TEPCO, Futaba, Fukushima, Japan.

\*BT1 bwr type reactors

RT fukushima daiichi nuclear power station

**FUKUSHIMA ACCIDENT ARCHIVE**

2014-08-04

UF fukushima nuclear accident archive

NT1 fukushima accident data

RT fukushima daiichi nuclear power station

RT reactor accidents

**FUKUSHIMA ACCIDENT DATA**

2014-08-04

Used for data from Fukushima Nuclear

Accident Archive

\*BT1 datasets

BT1 fukushima accident archive

RT data compilation

RT fukushima daiichi nuclear power station

RT reactor accidents

**FUKUSHIMA DAIICHI NUCLEAR POWER STATION**

2013-10-23

TEPCO, Okuma and Futaba, Fukushima,

Japan. Use for documents focusing on the site

as a whole and not individual reactors, e.g.,

radiation monitoring, contamination,

decontamination, remedial actions, etc.

(Prior to November 2013 this was a forbidden term.)

BT1 reactor sites

RT fukushima-1 reactor  
 RT fukushima-2 reactor  
 RT fukushima-3 reactor  
 RT fukushima-4 reactor  
 RT fukushima-5 reactor  
 RT fukushima-6 reactor  
 RT fukushima accident archive  
 RT fukushima accident data

**FUKUSHIMA-II-1 REACTOR**

INIS: 1979-09-18; ETDE: 1980-05-06  
 TEPCO, Naraha, Fukushima, Japan.  
 \*BT1 bwr type reactors

**FUKUSHIMA-II-2 REACTOR**

INIS: 1979-09-18; ETDE: 1980-05-06  
 TEPCO, Naraha, Fukushima, Japan.  
 \*BT1 bwr type reactors

**FUKUSHIMA-II-3 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04  
 TEPCO, Tomioka, Fukushima, Japan.  
 \*BT1 bwr type reactors

**FUKUSHIMA-II-4 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04  
 TEPCO, Tomioka, Fukushima, Japan.  
 \*BT1 bwr type reactors

**fukushima nuclear accident archive**

2014-08-04  
 USE fukushima accident archive

**fulcrum operation**

INIS: 2000-04-12; ETDE: 1978-10-30  
 (Prior to September 1994, this was a valid  
 ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**fulham-simon-carves process**

2000-04-12  
 Process for recovery of sulfur from flue gases  
 by causing flue gas to react directly with  
 ammonia liquor from gas works followed by  
 processing of solution to give ammonium  
 sulfate and sulfur.  
 USE desulfurization

**full-serve stations**

INIS: 2000-04-12; ETDE: 1979-05-09  
 USE gasoline service stations

**FULLERENES**

INIS: 1992-04-08; ETDE: 1992-01-09  
 Carbon allotrope containing 60 carbon atoms  
 in a hollow spherical configuration similar to  
 a geodesic dome.  
 \*BT1 carbon  
 RT atomic clusters  
 RT carbon nanotubes  
 RT graphene

**FULLERS EARTH**

\*BT1 clays  
 RT attapulgite

**FULLY IONIZED GASES**

Use only when the gas is not macroscopically  
 electrically neutral; otherwise use PLASMA.  
 \*BT1 ionized gases  
 NT1 lorentz gas

**FULTON-1 REACTOR**

Philadelphia Electric Co., USA. Canceled in  
 1975 before construction began.  
 \*BT1 enriched uranium reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**FULTON-2 REACTOR**

Philadelphia Electric Co., USA. Canceled in  
 1975 before construction began.  
 \*BT1 enriched uranium reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**FULVIC ACIDS**

\*BT1 organic acids  
 RT humic acids  
 RT humus  
 RT soils

**fumaks process**

INIS: 2000-04-12; ETDE: 1979-01-30  
 (Prior to February 1995, this was a valid  
 ETDE descriptor.)  
 USE desulfurization

**FUMARIC ACID**

\*BT1 dicarboxylic acids

**FUMAROLES**

1992-04-13  
 Vents, usually volcanic, from which gases and  
 vapors are emitted. They are characteristic of  
 a late stage of volcanic activity.  
 NT1 solfataras  
 RT fumarolic fluids  
 RT hydrothermal systems  
 RT volcanoes

**FUMAROLIC FLUIDS**

1992-05-12  
 \*BT1 geothermal fluids  
 RT fumaroles  
 RT volcanic gases

**FUME HOODS**

INIS: 1980-09-11; ETDE: 1978-10-23  
 \*BT1 laboratory equipment  
 RT gaseous wastes  
 RT ventilation

**fumes**

USE aerosols

**FUMIGANTS**

BT1 pesticides  
 RT grain disinfection  
 RT methyl bromide  
 RT preservation

**function (biological)**

INIS: 1975-10-23; ETDE: 1976-08-26  
 USE biological functions

**FUNCTION GENERATORS**

UF sine generators  
 UF square-wave generators  
 \*BT1 electronic equipment  
 NT1 pulse generators  
 NT2 high-voltage pulse generators  
 NT3 marx generators

**FUNCTIONAL ANALYSIS**

INIS: 1976-09-06; ETDE: 1976-11-01  
 BT1 mathematics  
 RT mathematical evolution  
 RT mathematical space  
 RT periodicity

**FUNCTIONAL MODELS**

UF models (functional)  
 NT1 pilot plants  
 NT2 barstow solar pilot plant  
 NT2 wipp  
 NT1 process development units  
 NT1 simulators  
 NT2 reactor simulators

**NT2 solar simulators**

RT analog systems  
 RT biological models  
 RT comparative evaluations  
 RT hypothesis  
 RT mathematical models  
 RT microcosms  
 RT mockup  
 RT phantoms  
 RT plasma simulation  
 RT scale models  
 RT simulation  
 RT structural models

**FUNCTIONALS**

BT1 functions  
 RT density functional method  
 RT variational methods

**FUNCTIONS**

1996-04-16

(From November 1986 till February 1997  
 FORCING FUNCTIONS was a valid ETDE  
 descriptor.)

UF periodic functions  
 SF forcing functions  
 NT1 airy functions  
 NT1 analytic functions  
 NT1 bessell functions  
 NT1 correlation functions  
 NT1 delta function  
 NT1 distribution functions  
 NT1 eigenfunctions  
 NT1 excitation functions  
 NT1 floquet function  
 NT1 functionals  
 NT1 gamma function  
 NT1 gauss function  
 NT1 green function  
 NT1 hamiltonian function  
 NT1 hypergeometric functions  
 NT1 jacobian function  
 NT1 jost function  
 NT1 lagrangian function  
 NT1 neutron importance function  
 NT1 neutronic damage functions  
 NT1 partition functions  
 NT1 placzec function  
 NT1 polynomials  
 NT2 hermite polynomials  
 NT2 laguerre polynomials  
 NT2 legendre polynomials  
 NT1 probability density functions  
 NT1 response functions  
 NT1 retention functions  
 NT1 riemann function  
 NT1 spectral functions  
 NT2 spectral density  
 NT1 spherical harmonics  
 NT1 spline functions  
 NT1 strength functions  
 NT1 structure functions  
 NT1 transfer functions  
 NT1 vertex functions  
 NT1 wave functions  
 NT1 weierstrass functions  
 NT1 weighting functions  
 NT1 work functions  
 RT algorithms  
 RT equations  
 RT exact solutions  
 RT mathematics  
 RT recursion relations  
 RT riemann sheet  
 RT series expansion  
 RT singularity



**FUNDAMENTAL CONSTANTS**

(From February 1975 till March 1997  
 RYDBERG CONSTANT was a valid ETDE  
 descriptor.)

*UF* *gravitational charges*  
*UF* *rydberg constant*  
*RT* atoms  
*RT* cosmology  
*RT* elementary particles  
*RT* natural units  
*RT* nuclei

**FUNDAMENTAL INTERACTIONS**

1999-03-23

*UF* *basic interactions*  
 BT1 interactions  
 NT1 electromagnetic interactions  
 NT2 compton effect  
 NT2 coulomb scattering  
 NT2 electroproduction  
 NT2 photon-hadron interactions  
 NT3 photon-baryon interactions  
 NT4 photon-hyperon interactions  
 NT4 photon-nucleon interactions  
 NT5 photon-neutron interactions  
 NT5 photon-proton interactions  
 NT3 photon-meson interactions  
 NT2 photon-photon interactions  
 NT2 photoproduction  
 NT3 primakoff effect  
 NT2 umklapp processes  
 NT1 gravitational interactions  
 NT1 strong interactions  
 NT2 charge-exchange interactions  
 NT2 peripheral collisions  
 NT1 weak interactions  
 NT2 fermi interactions  
 NT2 leptonic decay  
*RT* charged-current interactions  
*RT* conservation laws  
*RT* high-energy limit  
*RT* invariance principles  
*RT* low-energy limit  
*RT* neutral-current interactions  
*RT* potentials  
*RT* unified field theories

**fundamental particles**

USE elementary particles

**FUNGAL DISEASES**

INIS: 1982-12-08; ETDE: 1981-01-12

\*BT1 infectious diseases  
 NT1 mycoses  
 NT1 tinea  
*RT* fungi  
*RT* fungicides  
*RT* host

**FUNGI**

1997-06-19

*UF* *molds*  
 BT1 plants  
 NT1 eumycota  
 NT2 aspergillus  
 NT2 fusarium  
 NT2 lichens  
 NT2 mildew  
 NT2 neurospora  
 NT2 penicillium  
 NT2 phanerochaete  
 NT2 rhizopus  
 NT2 trichoderma  
 NT3 trichoderma viride  
 NT2 ustilago  
 NT2 yeasts  
 NT3 candida  
 NT3 saccharomyces  
 NT4 saccharomyces cerevisiae  
 NT3 torula

NT1 mushrooms  
 NT1 myxomycetes  
 NT1 physarum  
 NT1 polyporus versicolor  
*RT* bioadsorbents  
*RT* conidia  
*RT* fungal diseases  
*RT* fungicides  
*RT* mycelium  
*RT* mycorrhizas  
*RT* mycoses  
*RT* mycotoxins  
*RT* parasites  
*RT* pathogens  
*RT* spores  
*RT* tinea  
*RT* vaccines

**FUNGICIDES**

BT1 pesticides  
 NT1 cycloheximide  
*RT* fungal diseases  
*RT* fungi

**FUQING-1 REACTOR**

2017-06-09

*Fuqing, China*

\*BT1 pwr type reactors

**FUQING-2 REACTOR**

2017-06-09

*Fuqing, China*

\*BT1 pwr type reactors

**FUQING-3 REACTOR**

2017-06-09

*Fuqing, China*

\*BT1 pwr type reactors

**FUQING-4 REACTOR**

2017-06-09

*Fuqing, China. The reactor is under construction.*

\*BT1 pwr type reactors

**FUQING-5 REACTOR**

2017-06-09

*Fuqing, China. The reactor is under construction.*

\*BT1 pwr type reactors

**FUQING-6 REACTOR**

2017-06-09

*Fuqing, China. The reactor is under construction.*

\*BT1 pwr type reactors

**FURANS**

1996-10-23

*UF* *furildioxime*

\*BT1 heterocyclic compounds

\*BT1 organic oxygen compounds

NT1 benzofurans

NT1 furfural

NT1 tetrahydrofuran

NT2 mthf

*RT* heterocyclic oxygen compounds

*RT* kinetin

**furat river**

2009-05-20

USE euphrates river

**FURFURAL**

*UF* *2-furalaldehyde*

\*BT1 aldehydes

\*BT1 furans

**furildioxime**

1996-10-23

(Until October 1996 this was a valid  
 descriptor.)

USE furans

USE oximes

**furnace oil**

INIS: 2000-04-12; ETDE: 1976-03-11

USE heating oils

**FURNACES**

NT1 blast furnaces  
 NT1 chamber furnaces  
 NT1 electric furnaces  
 NT2 arc furnaces  
 NT2 ceramic melters  
 NT2 induction furnaces  
 NT1 electron beam furnaces  
 NT1 gas furnaces  
 NT1 multiple-heat furnace  
 NT1 oil furnaces  
 NT1 plasma furnaces  
 NT1 smelters  
 NT1 solar furnaces  
 NT1 tunnel furnaces  
 NT1 vacuum furnaces  
 NT1 wood burning furnaces  
*RT* burners  
*RT* combustion chambers  
*RT* crucibles  
*RT* gas generators  
*RT* gratings  
*RT* heat production  
*RT* incinerators  
*RT* kilns  
*RT* melting  
*RT* sintering  
*RT* stokers

**FURNITURE INDUSTRY**

INIS: 1992-03-10; ETDE: 1977-07-23

BT1 industry

*RT* wood products industry

**FUSARIUM**

\*BT1 eumycota

BT1 parasites

**fused cells (animal)**

INIS: 2000-04-12; ETDE: 1984-02-10

USE hybridomas

**fused salt fuels**

USE molten salt fuels

**fused salts**

USE molten salts

**fuses (detonators)**

INIS: 2000-04-12; ETDE: 1979-10-03

(Prior to February 1997 FUSES was a valid  
 ETDE descriptor.)

USE detonators

**fuses (electric)**

USE electric fuses

**fuses (reactor safety)**

USE reactor safety fuses

**fushun process**

INIS: 2000-04-12; ETDE: 1975-10-28

*Oil shale retorting process involving direct  
 heating by a mixture of combustion gases and  
 reheated recycled gases.*

(Prior to February 1995, this was a valid  
 ETDE descriptor.)

SEE oil shales

SEE retorting

**fusileer operation**

INIS: 2000-04-12; ETDE: 1985-10-25  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE nuclear explosions  
USE underground explosions

**fusion (bonding, nonmetallic)**

USE bonding

**fusion (melting)**

USE melting

**fusion (nuclear)**

2000-04-12  
USE thermonuclear reactions

**fusion (welding)**

USE welding

**fusion electromagnetic induction experiment**

INIS: 2000-04-12; ETDE: 1983-06-20  
USE felix facility

**fusion energy**

INIS: 2000-04-12; ETDE: 1985-09-23  
USE thermonuclear reactors

**fusion fuels**

INIS: 2000-04-12; ETDE: 1980-05-23  
USE thermonuclear fuels

**FUSION HEAT**

UF heat of fusion  
UF latent heat of fusion  
\*BT1 transition heat  
RT latent heat storage  
RT phase change materials

**FUSION NEUTRON SOURCE FACILITIES**

2016-06-09  
UF fns facilities  
BT1 neutron source facilities  
RT hybrid reactors  
RT tokamak type reactors

**fusion reactions**

2000-04-12  
SEE heavy ion fusion reactions  
SEE thermonuclear reactions

**fusion reactions (endoenergetic)**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE heavy ion fusion reactions

**fusion reactions (exoenergetic)**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE thermonuclear reactions

**fusion reactions (heavy ion)**

INIS: 1985-07-18; ETDE: 2002-06-13  
USE heavy ion fusion reactions

**fusion reactions (thermonuclear)**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE thermonuclear reactions

**fusion-reactor materials**

ETDE: 2002-06-13  
USE thermonuclear reactor materials

**fusion reactors**

USE thermonuclear reactors

**FUSION YIELD**

1975-09-16  
UF yield (fusion)  
\*BT1 nuclear reaction yield  
RT laser implosions  
RT thermonuclear fuels

RT thermonuclear reactions  
RT thermonuclear reactors

**fuzes**

INIS: 2000-04-12; ETDE: 1979-05-02  
(From October 1979 to February 1997 FUSES was used for this concept in ETDE.)  
USE detonators

**FUZZY LOGIC**

1991-07-02  
BT1 mathematical logic  
RT chaos theory  
RT mathematical models  
RT probability  
RT set theory

**fw-stoic process**

INIS: 2000-04-12; ETDE: 1978-04-27  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE coal gasification

**fwpc**

INIS: 1977-03-01; ETDE: 2002-06-13  
Federal Water Pollution Control Act.  
USE clean water acts

**G-1 REACTOR**

Permanently shutdown since 1986.  
UF marcoule g-1 reactor  
\*BT1 air cooled reactors  
\*BT1 gcr type reactors  
\*BT1 plutonium production reactors  
\*BT1 thermal reactors

**G-2 REACTOR**

Permanently shutdown since 1980.  
UF marcoule g-2 reactor  
\*BT1 carbon dioxide cooled reactors  
\*BT1 gcr type reactors  
\*BT1 plutonium production reactors  
\*BT1 thermal reactors

**G-3 REACTOR**

Marcoule, France. Permanently shut down since 1984.  
UF marcoule g-3 reactor  
\*BT1 carbon dioxide cooled reactors  
\*BT1 gcr type reactors  
\*BT1 plutonium production reactors  
\*BT1 thermal reactors

**G CODES**

BT1 computer codes

**g factor (gyromagnetic ratio)**

USE gyromagnetic ratio

**g factor (lande)**

USE lande factor

**G MATRIX**

Limited to the theory of nuclear reactions.  
BT1 matrices  
RT nuclear reactions

**G PARITY**

Property peculiar to mesons, not related to the concept covered by PARITY.  
BT1 particle properties  
RT g-parity invariance

**G-PARITY INVARIANCE**

BT1 invariance principles  
RT g parity

**g-proteins**

INIS: 2000-04-12; ETDE: 1988-05-23  
USE gtp-ases

**g resonances**

USE rho3-1690 mesons

**G STATES**

INIS: 1979-09-18; ETDE: 1979-03-28  
BT1 energy levels

**G VALUE**

Limited to use in radiation chemistry; see also GYROMAGNETIC RATIO.  
RT radiation chemistry  
RT radiolysis

**GA SIWABESSY REACTOR**

1999-07-08  
Serpong, Tangerang, Indonesia.  
\*BT1 enriched uranium reactors  
\*BT1 materials testing reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**GA STANDARD REACTOR**

1975-10-29  
USA.  
UF general atomic standard reactor  
\*BT1 enriched uranium reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**GABBROS**

INIS: 1999-12-03; ETDE: 1980-08-12  
\*BT1 plutonic rocks  
NT1 anorthosites  
RT feldspars  
RT silicate minerals

**GABON**

BT1 africa  
BT1 developing countries  
RT oklo phenomenon  
RT opec

**gadolinite**

INIS: 2000-04-12; ETDE: 1975-09-11  
(Prior to February 1995, this was a valid ETDE descriptor.)  
SEE beryllium compounds  
SEE iron compounds  
SEE rare earth compounds  
SEE silicates

**GADOLINIUM**

\*BT1 rare earths

**GADOLINIUM 134**

2007-01-30  
\*BT1 even-even nuclei  
\*BT1 gadolinium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 rare earth nuclei

**GADOLINIUM 135**

1997-02-07  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 gadolinium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**GADOLINIUM 136**

2007-01-30  
\*BT1 even-even nuclei  
\*BT1 gadolinium isotopes  
\*BT1 nanoseconds living radioisotopes  
\*BT1 rare earth nuclei

**GADOLINIUM 137**

INIS: 1984-10-18; ETDE: 1984-11-06  
\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 gadolinium isotopes  
\*BT1 rare earth nuclei

**GADOLINIUM 138***INIS: 1986-03-04; ETDE: 1985-10-25*

- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 139***INIS: 1984-10-18; ETDE: 1984-11-06*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 140***INIS: 1986-03-04; ETDE: 1985-10-25*

- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**GADOLINIUM 141***INIS: 1984-08-23; ETDE: 1984-09-05*

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**GADOLINIUM 142**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 142 TARGET***INIS: 1992-09-22; ETDE: 1977-05-07*

- BT1 targets

**GADOLINIUM 143**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**GADOLINIUM 144**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 145**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 146**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 147**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes

- \*BT1 rare earth nuclei

**GADOLINIUM 148**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**GADOLINIUM 148 TARGET***INIS: 1982-01-13; ETDE: 1981-07-18*

- BT1 targets

**GADOLINIUM 149**

- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 150**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**GADOLINIUM 151**

- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 152**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**GADOLINIUM 152 TARGET***INIS: 1975-10-23; ETDE: 1976-07-09*

- BT1 targets

**GADOLINIUM 153**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 154**

- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**GADOLINIUM 154 TARGET***ETDE: 1976-07-09*

- BT1 targets

**GADOLINIUM 155**

- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**GADOLINIUM 155 BEAMS***INIS: 1986-12-09; ETDE: 1987-02-24*

- \*BT1 ion beams

**GADOLINIUM 155 REACTIONS***1984-11-30*

- \*BT1 heavy ion reactions

**GADOLINIUM 155 TARGET***ETDE: 1976-07-09*

- BT1 targets

**GADOLINIUM 156**

- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**GADOLINIUM 156 TARGET***ETDE: 1976-07-09*

- BT1 targets

**GADOLINIUM 157**

- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**GADOLINIUM 157 TARGET***ETDE: 1976-07-09*

- BT1 targets

**GADOLINIUM 158**

- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**GADOLINIUM 158 TARGET***ETDE: 1976-07-09*

- BT1 targets

**GADOLINIUM 159**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 159 TARGET***INIS: 1976-04-03; ETDE: 1976-07-12*

- BT1 targets

**GADOLINIUM 160**

- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**GADOLINIUM 160 TARGET***ETDE: 1976-07-09*

- BT1 targets

**GADOLINIUM 161**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 162**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 163***INIS: 1982-04-14; ETDE: 1981-09-08*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 164***INIS: 1988-10-10; ETDE: 1988-11-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**GADOLINIUM 165**

1998-09-23

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**GADOLINIUM 166**

2007-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**GADOLINIUM 167**

2007-01-30

- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**GADOLINIUM 168**

2007-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 169**

2007-01-30

- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**GADOLINIUM ADDITIONS**

*Alloys containing not more than 1% Gd are listed here.*

- \*BT1 gadolinium alloys
- \*BT1 rare earth additions

**GADOLINIUM ALLOYS**

*Alloys containing more than 1% Gd.*

- \*BT1 rare earth alloys
- NT1 gadolinium additions
- NT1 gadolinium base alloys

**GADOLINIUM ARSENIDES**

*INIS: 1977-10-17; ETDE: 1977-08-09*

- \*BT1 arsenides
- \*BT1 gadolinium compounds

**GADOLINIUM BASE ALLOYS**

- \*BT1 gadolinium alloys

**GADOLINIUM BORIDES**

- \*BT1 borides
- \*BT1 gadolinium compounds

**GADOLINIUM BROMIDES**

- \*BT1 bromides
- \*BT1 gadolinium halides

**GADOLINIUM CARBIDES**

- \*BT1 carbides
- \*BT1 gadolinium compounds

**GADOLINIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 gadolinium compounds

**GADOLINIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 gadolinium halides

**GADOLINIUM COMPLEXES**

- \*BT1 rare earth complexes

**GADOLINIUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 gadolinium arsenides

- NT1 gadolinium borides
- NT1 gadolinium carbides
- NT1 gadolinium carbonates
- NT1 gadolinium halides
- NT2 gadolinium bromides
- NT2 gadolinium chlorides
- NT2 gadolinium fluorides
- NT2 gadolinium iodides
- NT1 gadolinium hydrides
- NT1 gadolinium hydroxides
- NT1 gadolinium nitrates
- NT1 gadolinium nitrides
- NT1 gadolinium oxides
- NT1 gadolinium perchlorates
- NT1 gadolinium phosphates
- NT1 gadolinium phosphides
- NT1 gadolinium selenides
- NT1 gadolinium silicides
- NT1 gadolinium sulfates
- NT1 gadolinium sulfides
- NT1 gadolinium tellurides
- NT1 gadolinium tungstates

**GADOLINIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 gadolinium halides

**GADOLINIUM HALIDES**

2012-07-19

- \*BT1 gadolinium compounds
- \*BT1 halides
- NT1 gadolinium bromides
- NT1 gadolinium chlorides
- NT1 gadolinium fluorides
- NT1 gadolinium iodides

**GADOLINIUM HYDRIDES**

- \*BT1 gadolinium compounds
- \*BT1 hydrides

**GADOLINIUM HYDROXIDES**

- \*BT1 gadolinium compounds
- \*BT1 hydroxides

**GADOLINIUM IODIDES**

- \*BT1 gadolinium halides
- \*BT1 iodides

**GADOLINIUM IONS**

- \*BT1 ions

**GADOLINIUM ISOTOPES**

1997-01-30

- BT1 isotopes
- NT1 gadolinium 134
- NT1 gadolinium 135
- NT1 gadolinium 136
- NT1 gadolinium 137
- NT1 gadolinium 138
- NT1 gadolinium 139
- NT1 gadolinium 140
- NT1 gadolinium 141
- NT1 gadolinium 142
- NT1 gadolinium 143
- NT1 gadolinium 144
- NT1 gadolinium 145
- NT1 gadolinium 146
- NT1 gadolinium 147
- NT1 gadolinium 148
- NT1 gadolinium 149
- NT1 gadolinium 150
- NT1 gadolinium 151
- NT1 gadolinium 152
- NT1 gadolinium 153
- NT1 gadolinium 154
- NT1 gadolinium 155
- NT1 gadolinium 156
- NT1 gadolinium 157
- NT1 gadolinium 158
- NT1 gadolinium 159
- NT1 gadolinium 160

- NT1 gadolinium 161
- NT1 gadolinium 162
- NT1 gadolinium 163
- NT1 gadolinium 164
- NT1 gadolinium 165
- NT1 gadolinium 166
- NT1 gadolinium 167
- NT1 gadolinium 168
- NT1 gadolinium 169

**GADOLINIUM NITRATES**

- \*BT1 gadolinium compounds
- \*BT1 nitrates

**GADOLINIUM NITRIDES**

- \*BT1 gadolinium compounds
- \*BT1 nitrides

**GADOLINIUM OXIDES**

- \*BT1 gadolinium compounds
- \*BT1 oxides

**GADOLINIUM PERCHLORATES**

- \*BT1 gadolinium compounds
- \*BT1 perchlorates

**GADOLINIUM PHOSPHATES**

- \*BT1 gadolinium compounds
- \*BT1 phosphates

**GADOLINIUM PHOSPHIDES**

*INIS: 1979-02-21; ETDE: 1976-08-25*

- \*BT1 gadolinium compounds
- \*BT1 phosphides

**GADOLINIUM SELENIDES**

*INIS: 1977-01-25; ETDE: 1976-08-24*

- \*BT1 gadolinium compounds
- \*BT1 selenides

**GADOLINIUM SILICIDES**

- \*BT1 gadolinium compounds
- \*BT1 silicides

**GADOLINIUM SULFATES**

- \*BT1 gadolinium compounds
- \*BT1 sulfates

**GADOLINIUM SULFIDES**

- \*BT1 gadolinium compounds
- \*BT1 sulfides

**GADOLINIUM TELLURIDES**

*INIS: 1977-01-25; ETDE: 1977-04-13*

- \*BT1 gadolinium compounds
- \*BT1 tellurides

**GADOLINIUM TUNGSTATES**

1988-02-02

- \*BT1 gadolinium compounds
- \*BT1 tungstates

**gages (pressure)**

- USE pressure gages

**gages (strain)**

- USE strain gages

**GAIN**

- BT1 amplification
- RT amplifiers
- RT lock-in amplifiers

**GALACTIC EVOLUTION**

- BT1 evolution
- RT astrophysics
- RT cosmological inflation
- RT cosmological models
- RT cosmology
- RT galaxies
- RT planet-system accretion
- RT star evolution
- RT universe
- RT vortex theory

**GALACTOSE**

- \*BT1 aldehydes
- \*BT1 hexoses
- RT cerebrosidases

**GALACTOSIDASE**

- Code numbers 3.2.1.22 and 3.2.1.23.
- \*BT1 o-glycosyl hydrolases

**GALACTURONIC ACID**

- \*BT1 aldehydes
- \*BT1 hydroxy acids
- RT pectins

**GALAXIES**

- UF local group
- NT1 magellanic clouds
- NT1 markarian galaxies
- NT1 milky way
- NT1 radio galaxies
- NT1 seyfert galaxies
- NT1 x-ray galaxies
- RT galactic evolution
- RT galaxy clusters
- RT galaxy nuclei
- RT nebulae
- RT nonluminous matter

**GALAXY CLUSTERS**

- UF clusters (galaxy)
- RT galaxies

**GALAXY NUCLEI**

- INIS: 1978-11-24; ETDE: 1978-12-20
- Central part of galaxies.
- RT galaxies

**GALENA**

- \*BT1 sulfide minerals
- RT lead sulfides

**GALERKIN-PETROV METHOD**

- UF petrov-galerkin method
- \*BT1 iterative methods
- RT analytical solution
- RT equations
- RT mathematics
- RT numerical solution

**GALILEI TRANSFORMATIONS**

- BT1 transformations
- RT group theory
- RT mechanics
- RT space-time
- RT special relativity theory

**galileo galilei italy**

- USE rts-1 reactor

**gallbladder**

- USE biliary tract

**GALLIC ACID**

- UF trihydroxybenzoic acid
- \*BT1 hydroxy acids

**GALLIUM**

- \*BT1 metals

**GALLIUM 56**

- 2007-04-19
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**GALLIUM 57**

- 2007-04-19
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 58**

- 2007-04-19
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**GALLIUM 59**

- 2007-04-19
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 60**

- 2002-02-21
- \*BT1 beta-plus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 61**

- 1980-05-14
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 62**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 63**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 64**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 65**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**GALLIUM 65 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**GALLIUM 66**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**GALLIUM 67**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 67 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**GALLIUM 68**

- \*BT1 beta-plus decay radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**GALLIUM 69**

- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**GALLIUM 69 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**GALLIUM 70**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 71**

- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**GALLIUM 71 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**GALLIUM 72**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 73**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 74**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 75**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**GALLIUM 76**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 77**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 78**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 79**

*INIS: 1976-01-27; ETDE: 1975-10-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 80**

*INIS: 1976-01-27; ETDE: 1975-10-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 81**

*INIS: 1977-06-13; ETDE: 1976-07-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 82**

*INIS: 1980-07-24; ETDE: 1976-07-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 83**

*INIS: 1980-07-24; ETDE: 1976-07-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**GALLIUM 84**

*1992-03-18*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 85**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 86**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**GALLIUM ADDITIONS**

*Alloys containing not more than 1% Ga are listed here.*

- \*BT1 gallium alloys

**GALLIUM ALLOYS**

*Alloys containing more than 1% Ga.*

- BT1 alloys
- NT1 gallium additions
- NT1 gallium base alloys

**GALLIUM ANTIMONIDES**

*INIS: 1994-04-11; ETDE: 1976-08-04*

- \*BT1 antimonides
- BT1 gallium compounds

**GALLIUM ARSENIDE SOLAR CELLS**

*1992-05-28*

- \*BT1 solar cells

**GALLIUM ARSENIDES**

- \*BT1 arsenides
- BT1 gallium compounds

**GALLIUM BASE ALLOYS**

- \*BT1 gallium alloys

**GALLIUM BROMIDES**

- \*BT1 bromides
- \*BT1 gallium halides

**GALLIUM CARBIDES**

- \*BT1 carbides
- BT1 gallium compounds

**GALLIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 gallium halides

**GALLIUM COMPLEXES**

- BT1 complexes

**GALLIUM COMPOUNDS**

- NT1 gallium antimonides
- NT1 gallium arsenides
- NT1 gallium carbides
- NT1 gallium halides
- NT2 gallium bromides
- NT2 gallium chlorides
- NT2 gallium fluorides
- NT2 gallium iodides
- NT1 gallium hydroxides
- NT1 gallium nitrates
- NT1 gallium nitrides
- NT1 gallium oxides
- NT1 gallium phosphates
- NT1 gallium phosphides
- NT1 gallium selenides
- NT1 gallium sulfates
- NT1 gallium sulfides
- NT1 gallium tellurides

**GALLIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 gallium halides

**GALLIUM HALIDES**

*INIS: 1991-09-16; ETDE: 1984-06-29*

- BT1 gallium compounds
- \*BT1 halides
- NT1 gallium bromides
- NT1 gallium chlorides
- NT1 gallium fluorides
- NT1 gallium iodides

**GALLIUM HYDROXIDES**

- BT1 gallium compounds
- \*BT1 hydroxides

**GALLIUM IODIDES**

- \*BT1 gallium halides
- \*BT1 iodides

**GALLIUM IONS**

- \*BT1 ions

**GALLIUM ISOTOPEs**

*1999-07-16*

- BT1 isotopes
- NT1 gallium 56
- NT1 gallium 57
- NT1 gallium 58
- NT1 gallium 59
- NT1 gallium 60
- NT1 gallium 61
- NT1 gallium 62
- NT1 gallium 63
- NT1 gallium 64

- NT1 gallium 65
- NT1 gallium 66
- NT1 gallium 67
- NT1 gallium 68
- NT1 gallium 69
- NT1 gallium 70
- NT1 gallium 71
- NT1 gallium 72
- NT1 gallium 73
- NT1 gallium 74
- NT1 gallium 75
- NT1 gallium 76
- NT1 gallium 77
- NT1 gallium 78
- NT1 gallium 79
- NT1 gallium 80
- NT1 gallium 81
- NT1 gallium 82
- NT1 gallium 83
- NT1 gallium 84
- NT1 gallium 85
- NT1 gallium 86

**GALLIUM NITRATES**

*1977-06-13*

- BT1 gallium compounds
- \*BT1 nitrates

**GALLIUM NITRIDES**

- BT1 gallium compounds
- \*BT1 nitrides

**GALLIUM OXIDES**

- BT1 gallium compounds
- \*BT1 oxides

**GALLIUM PHOSPHATES**

*INIS: 1977-09-15; ETDE: 1975-10-01*

- BT1 gallium compounds
- \*BT1 phosphates

**GALLIUM PHOSPHIDE SOLAR CELLS**

*2000-04-12*

- \*BT1 solar cells

**GALLIUM PHOSPHIDES**

- BT1 gallium compounds
- \*BT1 phosphides

**GALLIUM SELENIDES**

*1976-07-06*

- BT1 gallium compounds
- \*BT1 selenides

**GALLIUM SULFATES**

- BT1 gallium compounds
- \*BT1 sulfates

**GALLIUM SULFIDES**

- BT1 gallium compounds
- \*BT1 sulfides

**GALLIUM TELLURIDES**

*1977-09-06*

- BT1 gallium compounds
- \*BT1 tellurides

**galotannic acid**

- USE tannic acid

**gallstones**

- USE biliary tract
- USE calculi

**galoter process**

*INIS: 2000-04-12; ETDE: 1977-03-08*

*Shale fines are processed in rotating kiln and hot spent shale is used as heat carrier. (Prior to January 1995, this was a valid ETDE descriptor.)*

- SEE oil shales

**galvanic corrosion**

USE electrochemical corrosion

**GALVANOMAGNETIC EFFECT**

RT magnetic fields

**GALVANOMETERS**

\*BT1 electric measuring instruments

**GALVESTON BAY**

INIS: 1992-01-09; ETDE: 1976-10-13

\*BT1 bays

\*BT1 gulf of mexico

RT texas

**GAMBIA**

INIS: 1991-10-22; ETDE: 1978-07-05

BT1 africa

BT1 developing countries

**GAME THEORY**

INIS: 1996-05-06; ETDE: 1977-05-07

*Application of mathematics to a game, business situation, or other problem to maximize gain and minimize loss.*

\*BT1 statistics

RT decision making

RT information theory

RT probability

**GAMETES**

BT1 germ cells

NT1 ova

NT1 pollen

NT1 spermatozoa

RT fertilization

RT gametogenesis

RT haploidy

RT zygotes

**GAMETOGENESIS**

NT1 oogenesis

NT1 spermatogenesis

RT cell division

RT gametes

RT germ cells

RT gonads

RT meiosis

**GAMMA 10 DEVICES**

INIS: 1989-02-24; ETDE: 1989-03-20

*Tsukuba University, Japan.*

\*BT1 tandem mirrors

**GAMMA ASTRONOMY**

INIS: 1978-07-31; ETDE: 1978-09-11

*For photon energies above 100 kev.*

BT1 astronomy

RT cosmic gamma sources

RT cosmic radiation

RT cosmic x-ray sources

**gamma benzene hexachloride**

INIS: 1976-05-07; ETDE: 2002-06-13

USE lindane

**GAMMA CAMERAS**

*Instruments consisting of a large, thin scintillation crystal or array of photomultiplier tubes, a multichannel collimator, and circuitry to analyze the pulses produced by the photomultiplier.*

UF scintillation cameras

BT1 cameras

NT1 positron cameras

RT compton scattering tomography

RT emission computed tomography

RT nuclear medicine

RT radioisotope scanners

RT single photon emission computed tomography

**GAMMA CASCADES**

\*BT1 nuclear cascades

RT cascade theory

**GAMMA DECAY**

INIS: 1978-02-23; ETDE: 1988-10-12

\*BT1 nuclear decay

RT internal conversion

**GAMMA DETECTION**

UF photon detection (gamma)

\*BT1 radiation detection

RT compton diode detectors

RT filament crystal counters

RT gamma dosimetry

RT gamma spectrometers

RT gamma spectroscopy

RT positron annihilation spectroscopy

RT radiation detectors

RT radioisotope scanning

**GAMMA DIFFRACTOMETERS**

\*BT1 diffractometers

RT crystallography

RT diffraction

RT x-ray diffractometers

**GAMMA DOSIMETRY**

BT1 dosimetry

RT gamma detection

**GAMMA FUEL SCANNING**

BT1 fuel scanning

\*BT1 gamma radiography

**GAMMA FUNCTION**

BT1 functions

RT mathematics

**GAMMA-GAMMA LOGGING**

INIS: 1976-10-29; ETDE: 1976-06-07

*Gamma source and gamma detector.*

UF density log

\*BT1 radioactivity logging

**gamma heating**

USE radiation heating

**gamma hexachlorohexane**

INIS: 1976-05-07; ETDE: 2002-06-13

USE lindane

**GAMMA LOGGING**

INIS: 1976-10-29; ETDE: 1976-06-07

*Logging the natural gamma activity of a well.*

\*BT1 radioactivity logging

RT natural radioactivity

**GAMMA RADIATION**

\*BT1 electromagnetic radiation

\*BT1 ionizing radiations

NT1 delayed gamma radiation

NT1 prompt gamma radiation

RT cosmic gamma sources

RT gamma sources

RT gamma spectra

RT photons

RT x radiation

**GAMMA RADIOGRAPHY**

1999-12-03

\*BT1 industrial radiography

NT1 gamma fuel scanning

**gamma-ray lasers**

INIS: 1981-04-03; ETDE: 1978-03-08

(Prior to August 1981, this was a valid ETDE descriptor.)

USE gasers

**gamma reactions**

INIS: 2000-04-12; ETDE: 1985-03-12

USE photonuclear reactions

**GAMMA SOURCES**

*For cosmic sources of gamma radiation use*

*COSMIC GAMMA SOURCES.*

BT1 radiation sources

RT gamma radiation

RT gasers

**GAMMA SPECTRA**

BT1 spectra

RT escape peaks

RT gamma radiation

**GAMMA SPECTROMETERS**

\*BT1 spectrometers

NT1 compton spectrometers

NT1 moessbauer spectrometers

NT1 pair spectrometers

RT gamma detection

RT whole-body counters

**gamma spectrometry**

INIS: 1975-10-23; ETDE: 2002-06-13

USE gamma spectroscopy

**GAMMA SPECTROSCOPY**

UF gamma spectrometry

BT1 spectroscopy

RT fuel cooling time

RT gamma detection

RT radiometric surveys

**gamma transmission scanning**

USE photon transmission scanning

**GAMMA TRANSPORT THEORY**

BT1 transport theory

RT photon transport

**GAMMAPHOS**

1984-05-24

*S-2-(Omega-aminopropylaminoethyl) phosphorothioate.*

\*BT1 amines

\*BT1 radioprotective substances

\*BT1 thiophosphoric acid esters

**gammel-brueckner potential**

1999-12-06

(Prior to January 1995, this was a valid ETDE descriptor.)

USE nucleon-nucleon potential

**gammel-christian-thaler theory**

USE gammel-thaler potential

**GAMMEL-THALER POTENTIAL**

UF gammel-christian-thaler theory

\*BT1 ope potential

**GAMOW BARRIER**

UF gamow factor

RT alpha decay

RT nuclear potential

**gamow factor**

USE gamow barrier

**gamow-teller decay**

USE gamow-teller rules

**GAMOW-TELLER RULES**

UF gamow-teller decay

UF gamow-teller theory

RT beta decay

**gamow-teller theory**

USE gamow-teller rules

**GANGA RIVER**

UF ganges river

\*BT1 rivers

RT bangladesh

RT india

**ganges river**

INIS: 1999-12-31; ETDE: 1976-05-17

USE ganga river

**GANGLIONS**

BT1 nervous system  
RT autonomic nervous system  
RT spinal cord  
RT thalamus

**GANGLIOSIDES**

\*BT1 glycolipids  
\*BT1 organic nitrogen compounds  
RT sialic acid

**GANGRENE**

\*BT1 necrosis  
RT ulcers

**GANGUE**

BT1 residues  
RT slags

**ganil**

INIS: 1999-12-31; ETDE: 1976-05-13

(Prior to July 1985, this was a valid ETDE descriptor.)

USE ganil cyclotron

**GANIL CYCLOTRON**

INIS: 1976-07-30; ETDE: 1979-05-31

*Grand Accelérateur National a Ions Lourds; a heavy ion accelerator consisting of two identical isochronous cyclotrons and a particle booster for injection, located in Caen, France.*

UF ganil

UF grand accelérateur national d'ions lourds

\*BT1 heavy ion accelerators

\*BT1 isochronous cyclotrons

RT heavy ions

**garching ipp**

INIS: 2000-04-12; ETDE: 1976-05-19

USE ipp garching

**gardenhose instability**

USE hose instability

**GARDENING**

INIS: 1999-12-31; ETDE: 1979-03-29

RT agriculture  
RT horticulture  
RT leisure time activities

**GARIGLIANO REACTOR**

*Sessa Aurunca, Caserta, Italy. Permanent shutdown since March 1982.*

UF senn reactor

\*BT1 bwr type reactors

**GARLIC**

1992-09-09

\*BT1 vegetables  
RT allium sativum  
RT bulbs  
RT sprout inhibition

**GARNETS**

1996-11-13

*For silicate garnets only.*

UF andradite

\*BT1 silicate minerals

RT calcium silicates

RT ferrite garnets

RT iron silicates

**GARONA REACTOR**

*Permanent shutdown since July 2013.*

UF santa maria de garona nuclear power plant

UF santa maria de garona power reactor

\*BT1 bwr type reactors

**garrett process**

INIS: 2000-04-12; ETDE: 1977-03-08

USE oxy modified in-situ process

**garrett pyrolysis process**

2000-04-12

USE occidental flash pyrolysis process

**GAS ANALYSIS**

1996-01-24

UF analysis (gas)

SF orsat apparatus

RT electron-capture detectors

RT gas chromatography

RT gases

RT ion-mobility detectors

RT photoacoustic spectrometers

RT quantitative chemical analysis

RT radio-release analysis

**GAS APPLIANCES**

INIS: 1993-01-22; ETDE: 1977-06-21

UF natural gas appliances

UF stoves (gas burning)

\*BT1 appliances

RT clothes dryers

RT freezers

RT ovens

RT refrigerators

RT water heaters

**GAS BEARINGS**

BT1 bearings

**GAS BLANKETS**

INIS: 1975-08-22; ETDE: 1975-10-01

*For plasma confinement. For other gas blankets see COVER GAS or INERT ATMOSPHERE.*

UF blankets (gas)

RT plasma

RT plasma confinement

**GAS BUBBLE DISEASE**

INIS: 2000-01-04; ETDE: 1976-04-19

\*BT1 cardiovascular diseases

RT fishes

RT water quality

**GAS BURNERS**

INIS: 1992-06-04; ETDE: 1979-05-09

BT1 burners

RT combustion

RT gas furnaces

**gas bursts**

INIS: 2000-01-04; ETDE: 1977-05-07

USE rock bursts

**GAS CENTRIFUGATION**

1976-01-27

\*BT1 centrifugation

\*BT1 isotope separation

RT centrifuge enrichment plants

RT gas centrifuges

RT isotope enriched materials

RT isotopes

RT ultracentrifugation

**GAS CENTRIFUGES**

\*BT1 centrifuges

RT gas centrifugation

RT isotope separation

RT ultracentrifuges

**GAS CHROMATOGRAPHY**

\*BT1 chromatography

RT gas analysis

RT partition

**GAS COMBUSTION PROCESS**

2000-04-12

*A process that involves the direct heating of oil shales by hot gases from combustion within the retorting vessel.*

RT oil shales

**GAS COMPRESSORS**

ETDE: 1975-09-12

BT1 compressors

RT compressed gases

RT vapor compression refrigeration cycle

**GAS CONDENSATE FIELDS**

INIS: 1993-01-18; ETDE: 1977-07-23

*Oil and gas reservoirs that produce more gas than oil. Condensate does not appear until the gas climbs the well bore and its temperature and pressure are reduced sufficiently to condense some of it into liquid petroleum.*

\*BT1 natural gas fields

\*BT1 petroleum deposits

RT gas condensate wells

RT oil fields

**GAS CONDENSATE WELLS**

INIS: 1992-09-07; ETDE: 1982-12-01

BT1 wells

RT gas condensate fields

RT gas condensates

RT natural gas wells

RT oil wells

**GAS CONDENSATES**

INIS: 1992-08-13; ETDE: 1980-05-23

BT1 condensates

\*BT1 natural gas liquids

RT gas condensate wells

**gas coolants**

USE gases

**gas cooled fast breeder reactor**

1993-11-08

USE gcf reactor

**gas cooled fast breeder reactors**

1993-11-08

USE gcf type reactors

**gas cooled graphite moderated reactors**

2000-01-05

USE gcr type reactors

**gas cooled reactor experiment**

2000-04-12

USE gcre reactor

**GAS COOLED REACTORS**

SF 710 reactor

BT1 reactors

NT1 air cooled reactors

NT2 afsr reactor

NT2 bepo reactor

NT2 bgrr reactor

NT2 br-1 reactor

NT2 g-1 reactor

NT2 gleep reactor

NT2 harmonie reactor

NT2 hpr reactor

NT2 kalpakkam pfr reactor

NT2 masurca reactor

NT2 sneak reactor

NT2 stf reactor

NT2 tory-2a reactor

NT2 tory-2c reactor

NT2 treat reactor

NT2 windscale production reactors

NT2 x-10 reactor

NT2 xma-1 reactor



- NT2** zed-2 reactor  
**NT1** carbon dioxide cooled reactors  
**NT2** berkeley reactor  
**NT2** bohunice a-1 reactor  
**NT2** bradwell reactor  
**NT2** bugey-1 reactor  
**NT2** calder hall a-1 reactor  
**NT2** calder hall a-2 reactor  
**NT2** calder hall b-3 reactor  
**NT2** calder hall b-4 reactor  
**NT2** cesar reactor  
**NT2** chapelcross-1 reactor  
**NT2** chapelcross-2 reactor  
**NT2** chapelcross-3 reactor  
**NT2** chapelcross-4 reactor  
**NT2** chinon-a1 reactor  
**NT2** chinon-a2 reactor  
**NT2** chinon-a3 reactor  
**NT2** connah quay-b reactor  
**NT2** dungeness-a reactor  
**NT2** dungeness-b reactor  
**NT2** el-2 reactor  
**NT2** el-4 reactor  
**NT2** g-2 reactor  
**NT2** g-3 reactor  
**NT2** hartlepool reactor  
**NT2** hector reactor  
**NT2** hero reactor  
**NT2** heysham-a reactor  
**NT2** heysham-b reactor  
**NT2** hinkley point-a reactor  
**NT2** hinkley point-b reactor  
**NT2** hunterston-a reactor  
**NT2** hunterston-b reactor  
**NT2** latina reactor  
**NT2** lucens reactor  
**NT2** niederaichbach reactor  
**NT2** oldbury-a reactor  
**NT2** oldbury-b reactor  
**NT2** saint laurent-a1 reactor  
**NT2** saint laurent-a2 reactor  
**NT2** sizewell-a reactor  
**NT2** tokai-mura reactor  
**NT2** torness reactor  
**NT2** trawsfynydd reactor  
**NT2** vandellos reactor  
**NT2** wagr reactor  
**NT2** wylfa reactor  
**NT1** ewg-1 reactor  
**NT1** gcf type reactors  
**NT2** gcf reactor  
**NT1** gcr type reactors  
**NT2** agr type reactors  
**NT3** connah quay-b reactor  
**NT3** dungeness-b reactor  
**NT3** hartlepool reactor  
**NT3** heysham-a reactor  
**NT3** heysham-b reactor  
**NT3** hinkley point-b reactor  
**NT3** hunterston-b reactor  
**NT3** torness reactor  
**NT3** wagr reactor  
**NT2** bugey-1 reactor  
**NT2** chinon-a1 reactor  
**NT2** chinon-a2 reactor  
**NT2** chinon-a3 reactor  
**NT2** g-1 reactor  
**NT2** g-2 reactor  
**NT2** g-3 reactor  
**NT2** magnox type reactors  
**NT3** berkeley reactor  
**NT3** bradwell reactor  
**NT3** calder hall a-1 reactor  
**NT3** calder hall a-2 reactor  
**NT3** calder hall b-3 reactor  
**NT3** calder hall b-4 reactor  
**NT3** chapelcross-1 reactor  
**NT3** chapelcross-2 reactor  
**NT3** chapelcross-3 reactor  
**NT3** chapelcross-4 reactor  
**NT3** dungeness-a reactor  
**NT3** hinkley point-a reactor  
**NT3** hunterston-a reactor  
**NT3** latina reactor  
**NT3** oldbury-a reactor  
**NT3** sizewell-a reactor  
**NT3** tokai-mura reactor  
**NT3** trawsfynydd reactor  
**NT3** wylfa reactor  
**NT2** saint laurent-a1 reactor  
**NT2** saint laurent-a2 reactor  
**NT2** vandellos reactor  
**NT1** helium cooled reactors  
**NT2** avr reactor  
**NT2** dragon reactor  
**NT2** ebor reactor  
**NT2** eger reactor  
**NT2** fulton-1 reactor  
**NT2** fulton-2 reactor  
**NT2** gcf reactor  
**NT2** gcre reactor  
**NT2** htr-10 reactor  
**NT2** htr reactor  
**NT2** iea-zpr reactor  
**NT2** peach bottom-1 reactor  
**NT2** schmehausen-2 reactor  
**NT2** summit-1 reactor  
**NT2** summit-2 reactor  
**NT2** thtr-300 reactor  
**NT2** uhtrex reactor  
**NT2** vg-400 reactor  
**NT2** vgr-50 reactor  
**NT2** vhr reactor  
**NT2** vidal-1 reactor  
**NT2** vidal-2 reactor  
**NT2** vrain reactor  
**NT1** htgr type reactors  
**NT2** avr reactor  
**NT2** dragon reactor  
**NT2** fulton-1 reactor  
**NT2** fulton-2 reactor  
**NT2** ga standard reactor  
**NT2** htr-10 reactor  
**NT2** htr reactor  
**NT2** kahter reactor  
**NT2** peach bottom-1 reactor  
**NT2** schmehausen-2 reactor  
**NT2** summit-1 reactor  
**NT2** summit-2 reactor  
**NT2** thtr-300 reactor  
**NT2** vg-400 reactor  
**NT2** vgr-50 reactor  
**NT2** vhr reactor  
**NT2** vidal-1 reactor  
**NT2** vidal-2 reactor  
**NT2** vrain reactor  
**NT1** hwgr type reactors  
**NT2** bohunice a-1 reactor  
**NT2** bohunice a-2 reactor  
**NT2** el-4 reactor  
**NT2** lucens reactor  
**NT2** niederaichbach reactor  
**NT1** hydrogen cooled reactors  
**NT2** kiwi reactors  
**NT3** kiwi-tnt reactor  
**NT2** nerva reactor  
**NT2** nrx-a2 reactor  
**NT2** nrx-a3 reactor  
**NT2** nrx-a4-est reactor  
**NT2** nrx-a5 reactor  
**NT2** nrx-a6 reactor  
**NT2** pewee-1 reactor  
**NT2** pewee-2 reactor  
**NT2** pewee-3 reactor  
**NT2** pewee-4 reactor  
**NT2** phoebus-1a reactor  
**NT2** phoebus-1b reactor  
**NT2** phoebus-2a reactor  
**NT2** rover reactors  
**NT2** xe-prime reactor  
**NT1** nitrogen cooled reactors  
**NT2** hltr reactor  
**NT2** ml-1 reactor  
**NT2** zenith reactor  
**NT1** pebble bed reactors  
**NT2** avr reactor  
**NT2** thtr-300 reactor  
**NT2** vg-400 reactor  
**NT2** vgr-50 reactor  
**RT** steam cooled reactors
- GAS COOLING**  
 BT1 cooling
- GAS CYLINDERS**  
 BT1 containers
- GAS DISCHARGE TUBES**  
*1996-01-24*  
 BT1 electron tubes  
**NT1** flash tubes  
**NT1** ignitrons  
**NT1** thyratrons
- GAS DYNAMIC LASERS**  
*INIS: 1992-08-11; ETDE: 1981-08-21*  
 \*BT1 gas lasers
- gas engines**  
*1994-09-09*  
 USE internal combustion engines
- gas fields**  
*INIS: 1992-02-19; ETDE: 1976-03-11*  
 USE natural gas fields
- GAS FLOW**  
*UF dampers (gas flow)*  
*UF draft control systems*  
 BT1 fluid flow  
**NT1** air flow  
**NT1** knudsen flow  
**NT1** slip flow  
**RT** aerodynamics  
**RT** air curtains  
**RT** air infiltration  
**RT** compressible flow  
**RT** electrogasdynamics  
**RT** magnetogasdynamics  
**RT** multiphase flow  
**RT** two-phase flow
- GAS-FLOW PROCESSES**  
*INIS: 2000-04-12; ETDE: 1975-11-11*  
*Oil shale retorting processes in which heat transfer is effected by an externally heated carrier fluid, in this case superheated steam mixed with air.*  
**RT** oil shales
- GAS FUELED REACTORS**  
 \*BT1 fluid fueled reactors  
 \*BT1 homogeneous reactors  
**NT1** coaxial flow reactors  
**NT1** light bulb reactors  
**NT1** plasma core assembly  
**RT** gas fuels
- GAS FUELS**  
*2000-01-05*  
 BT1 fuels  
**NT1** fuel gas  
**NT2** high btu gas  
**NT2** intermediate btu gas  
**NT3** carburetted water gas  
**NT3** town gas  
**NT3** water gas  
**NT2** landfill gas  
**NT2** low btu gas  
**NT3** producer gas

- NT2 natural gas
- NT3 abiogenic gas
- NT3 compressed natural gas
- NT3 liquefied natural gas
- RT fissioning plasma
- RT gas fueled reactors
- RT nuclear fuels

**GAS FURNACES**

INIS: 1993-03-10; ETDE: 1977-03-04

- BT1 furnaces
- RT gas burners

**GAS GENERATORS**

INIS: 2000-01-04; ETDE: 1976-11-17

Devices used to generate gases in the laboratory; chemical plants for producing gas from coal, for example, water gas.

- NT1 hydrogen generators
- RT furnaces
- RT gases
- RT oil shale processing plants
- RT wellman-incandescent process

**GAS HEAT PUMPS**

INIS: 2000-01-05; ETDE: 1980-11-25

- BT1 heat pumps
- RT natural gas
- RT space hvac systems

**GAS HYDRATES**

INIS: 1993-01-28; ETDE: 1977-01-28

Crystalline solid clathrate compound formed by natural gas and water and insoluble in water.

- UF methane hydrates
- BT1 hydrates
- RT natural gas
- RT natural gas hydrate deposits
- RT pipelines

**GAS INJECTION**

INIS: 1981-07-06; ETDE: 1976-03-11

- BT1 fluid injection
- RT petroleum
- RT thermonuclear fuels
- RT thermonuclear reactor fueling
- RT well stimulation

**GAS-INSULATED CABLES**

INIS: 1976-08-17; ETDE: 1976-03-11

- \*BT1 electric cables
- RT power transmission
- RT power transmission lines
- RT superconducting cables

**GAS-INSULATED SUBSTATIONS**

INIS: 1993-03-24; ETDE: 1982-03-10

- BT1 power substations
- RT power distribution systems
- RT sulfur fluorides

**GAS-INSULATED TRANSFORMERS**

INIS: 2000-01-05; ETDE: 1981-05-18

- \*BT1 transformers
- RT power systems
- RT power transmission

**GAS LASERS**

1995-07-21

- BT1 lasers
- NT1 carbon dioxide lasers
- NT1 carbon monoxide lasers
- NT1 excimer lasers
- NT2 krypton chloride lasers
- NT2 krypton fluoride lasers
- NT1 gas dynamic lasers
- NT1 helium-neon lasers
- NT1 helium-xenon lasers
- NT1 iodine lasers
- NT1 metal vapor lasers

**GAS LIFTS**

INIS: 1992-07-21; ETDE: 1977-01-28

Process of lifting fluids from a well by injecting relatively high-pressure gas.

- BT1 artificial lifts
- RT oil wells
- RT petroleum

**GAS LUBRICANTS**

- BT1 lubricants

**GAS METAL-ARC WELDING**

- \*BT1 arc welding
- NT1 gas tungsten-arc welding

**GAS METERS**

INIS: 1992-03-12; ETDE: 1978-04-06

- UF hydrocarbon logging
- \*BT1 meters
- RT energy consumption
- RT master metering
- RT natural gas

**gas odorization**

INIS: 2000-04-12; ETDE: 1977-03-04

- USE odorization

**GAS OILS**

1992-01-09

Petroleum distillates boiling within the general range 204 degrees to 593 degrees C.

- \*BT1 petroleum distillates
- BT1 petroleum products
- NT1 diesel fuels
- NT1 fuel oils
- NT2 heating oils
- NT2 residual fuels
- NT1 kerosene

**gas production rates**

INIS: 2000-04-12; ETDE: 1979-09-26

Rates for production of helium or hydrogen in the lattice structure of reactor structural materials, induced by neutron irradiation.

(Prior to June 1994, this was a valid ETDE descriptor.)

- SEE interstitial helium generation
- SEE interstitial hydrogen generation

**GAS RECYCLE HYDROGENATION PROCESS**

INIS: 2000-04-12; ETDE: 1976-01-23

Gasification of distillate feed stock produced from crude oil to manufacture sng.

- BT1 sng processes
- RT petroleum
- RT steam reformer processes

**GAS SATURATION**

INIS: 1992-07-10; ETDE: 1977-06-02

Degree of filling of reservoir pore structure by reservoir gas.

- UF reservoir gas saturation
- BT1 saturation
- RT oil saturation
- RT reservoir rock
- RT water saturation

**GAS SCINTILLATION DETECTORS**

- \*BT1 scintillation counters
- RT proportional counters
- RT rare gases

**GAS SPILLS**

INIS: 1992-04-09; ETDE: 1976-07-07

- UF lng spills
- BT1 accidents
- RT chemical spills
- RT hazardous materials spills
- RT natural gas
- RT pollution

**gas stations**

INIS: 2000-04-12; ETDE: 1979-05-09

- USE gasoline service stations

**GAS TRACK DETECTORS**

UF track detectors (gas)

- \*BT1 radiation detectors
- NT1 bubble chambers
- NT2 cryogenic bubble chambers
- NT2 heavy liquid bubble chambers
- NT2 ultrasonic bubble chambers
- NT1 cloud chambers
- NT2 diffusion chambers
- NT2 expansion chambers
- NT1 spark chambers
- NT2 filmless spark chambers
- NT3 sonic spark chambers
- NT3 wire spark chambers
- NT2 projection spark chambers
- NT2 streamer spark chambers
- NT2 wide gap spark chambers

**GAS TUNGSTEN-ARC WELDING**

- \*BT1 gas metal-arc welding

**GAS TURBINE ENGINES**

INIS: 1992-05-04; ETDE: 1979-02-23

- \*BT1 internal combustion engines
- RT aaps
- RT coal-fired gas turbines

**GAS TURBINE POWER PLANTS**

INIS: 1982-12-06; ETDE: 1979-09-06

- BT1 power plants
- RT coal-fired gas turbines
- RT combined-cycle power plants
- RT gas turbines
- RT peaking power plants
- RT power generation

**GAS TURBINES**

- \*BT1 turbines
- NT1 coal-fired gas turbines
- RT brayton cycle power systems
- RT gas turbine power plants
- RT steam turbines

**GAS UTILITIES**

INIS: 1992-04-09; ETDE: 1978-02-14

- SF utilities
- BT1 public utilities
- RT load analysis
- RT master metering
- RT natural gas distribution systems
- RT natural gas industry

**GAS WELDING**

- \*BT1 welding

**gas wells**

INIS: 1976-05-07; ETDE: 1975-10-01

- USE natural gas wells

**GAS YIELDS**

INIS: 1993-07-21; ETDE: 1976-04-19

- BT1 yields
- RT productivity

**GASBUGGY EVENT**

- \*BT1 crosstie operation
- BT1 plowshare project
- RT natural gas
- RT oil shales

**GASEOUS DIFFUSION**

- BT1 diffusion

**GASEOUS DIFFUSION PLANTS**

- UF enrichment plants (gaseous diffusion)
- \*BT1 isotope separation plants
- NT1 orgdp
- NT1 paducah plant

**NT1** portsmouth gaseous diffusion plant  
**RT** diffusion barriers  
**RT** eurodif  
**RT** gaseous diffusion process  
**RT** nuclear industry

**GASEOUS DIFFUSION PROCESS**

\***BT1** isotope separation  
**RT** diffusion barriers  
**RT** gaseous diffusion plants  
**RT** orgdp

***gaseous effluents***

**USE** gaseous wastes

**GASEOUS WASTES**

**UF** effluents (*gaseous*)  
**UF** gaseous effluents  
**UF** radioactive gaseous wastes  
**BT1** wastes  
**NT1** exhaust gases  
**NT1** flue gas  
**RT** chemical effluents  
**RT** combustion products  
**RT** electrostatic precipitators  
**RT** fume hoods  
**RT** gases  
**RT** ground release  
**RT** industrial wastes  
**RT** off-gas systems  
**RT** plumes  
**RT** radioactive effluents  
**RT** stack disposal  
**RT** stacks  
**RT** ventilation  
**RT** waste disposal  
**RT** waste forms

**GASERS**

*INIS: 1999-02-22; ETDE: 1976-05-17*  
*Gamma-ray Amplification by Stimulated Emission of Radiation.*  
**UF** gamma-ray lasers  
**UF** gasers  
**SF** stimulated emission devices  
**RT** gamma sources  
**RT** lasers  
**RT** masers  
**RT** nuclear pumping  
**RT** stimulated emission

**GASES**

*See also ELECTRON GAS and FERMI GAS.*  
**UF** gas coolants  
**BT1** fluids  
**NT1** air  
     **NT2** compressed air  
     **NT2** surface air  
**NT1** associated gas  
**NT1** coal gas  
**NT1** compressed gases  
     **NT2** compressed air  
     **NT2** compressed natural gas  
**NT1** cosmic gases  
**NT1** cover gas  
**NT1** dissociating gases  
**NT1** dissolved gases  
**NT1** exhaust gases  
**NT1** fuel gas  
     **NT2** high btu gas  
     **NT2** intermediate btu gas  
         **NT3** carburetted water gas  
         **NT3** town gas  
         **NT3** water gas  
**NT2** landfill gas  
**NT2** low btu gas  
     **NT3** producer gas  
**NT2** natural gas  
     **NT3** abiogenic gas  
     **NT3** compressed natural gas  
     **NT3** liquefied natural gas

**NT1** ionized gases  
     **NT2** fully ionized gases  
     **NT3** lorentz gas  
**NT2** strongly ionized gases  
**NT2** weakly ionized gases  
**NT1** pyrolytic gases  
**NT1** rare gases  
     **NT2** argon  
     **NT2** helium  
     **NT2** krypton  
     **NT2** neon  
     **NT2** radon  
     **NT2** xenon  
**NT1** rarefied gases  
**NT1** refinery gases  
**NT1** shale gas  
**NT1** synthesis gas  
**NT1** vapors  
     **NT2** water vapor  
**NT1** volcanic gases  
**RT** aeration  
**RT** boltzmann equation  
**RT** buffers  
**RT** coolants  
**RT** dispersions  
**RT** electron gas  
**RT** fermi gas  
**RT** gas analysis  
**RT** gas generators  
**RT** gaseous wastes  
**RT** hard-sphere model  
**RT** jesse effect  
**RT** kinetic equations  
**RT** kinetics  
**RT** paschen law  
**RT** phase diagrams  
**RT** underground disposal  
**RT** virial equation

**GASIFICATION**

*Any technique for converting coal or other products into gaseous fuel. For other types of gasification, see EVAPORATION, BOILING, or DISTILLATION.*

**BT1** thermochemical processes  
**NT1** biothermgas process  
**NT1** coal gasification  
     **NT2** agglomerating ash process  
     **NT2** arc coal process  
     **NT2** babcock and wilcox-dupont process  
     **NT2** beacon process  
     **NT2** bgc-lurgi slagging process  
     **NT2** bi-gas process  
     **NT2** ce entrained fuel process  
     **NT2** coalcon process  
     **NT2** cogas process  
     **NT2** combined-cycle fw process  
     **NT2** consol synthetic gas process  
     **NT2** cs-r process  
     **NT2** dow gasification process  
     **NT2** exxon gasification process  
     **NT2** flash hydrolysis process  
     **NT2** gegas process  
     **NT2** gkt process  
     **NT2** htw process  
     **NT2** humboldt gasification process  
     **NT2** hydrane process  
     **NT2** hygas process  
     **NT2** i g process  
     **NT2** kbw gasification process  
     **NT2** kellogg process  
     **NT2** kilngas process  
     **NT2** kloekner-iron bath coal gasification process  
     **NT2** koppers process  
     **NT2** koppers-totzek process  
     **NT2** krw gasification process  
     **NT2** lurgi cfb gasification process  
     **NT2** lurgi process

**NT2** lurgi slagging process  
**NT2** molten iron puregas process  
**NT2** molten salt coal gasification process  
**NT2** moving-burden process  
**NT2** occidental flash pyrolysis process  
**NT2** otto rummel slag bath process  
**NT2** peatgas process  
**NT2** prenflo process  
**NT2** ruhr 100 gasification process  
**NT2** saarberg-otto gasification process  
**NT2** seacoke process  
**NT2** shell-koppers gasification process  
**NT2** synthane process  
**NT2** texaco gasification process  
**NT2** toscodyne process  
**NT2** toscoal process  
**NT2** u-gas process  
**NT2** wellman-galusha process  
**NT2** wellman-incandescent process  
**NT2** westinghouse gasification process  
**NT2** woodall-duckham process  
**NT1** fluidized bed refuse gasification  
**NT1** in-situ gasification  
**RT** coal

**GASKETS**

1997-06-19  
**UF** o-rings  
**BT1** seals  
**RT** weatherstripping

**GASOHOL**

*INIS: 1992-04-13; ETDE: 1979-08-07*  
*Blend of gasoline and alcohol, usually methanol or ethanol.*  
 \***BT1** liquid fuels  
**RT** alcohol fuels  
**RT** alcohols  
**RT** automotive fuels  
**RT** ethanol fuels  
**RT** gasoline  
**RT** methanol fuels

**GASOHOL PROGRAM**

*INIS: 2000-04-12; ETDE: 1976-09-15*  
*Program for blending agriculturally derived ethanol and unleaded gasoline.*  
**RT** ethanol  
**RT** gasoline  
**RT** synthetic fuels

**GASOLINE**

**SF** aircraft fuels  
**SF** aviation fuels  
 \***BT1** liquid fuels  
**BT1** petroleum products  
**NT1** unleaded gasoline  
**RT** automotive fuels  
**RT** bromine number  
**RT** gasohol  
**RT** gasohol program  
**RT** gasoline service stations  
**RT** mobil m-gasoline process  
**RT** spark ignition engines

***gasoline engines***

1994-09-09  
**USE** internal combustion engines

**GASOLINE PLANTS**

*INIS: 2000-04-12; ETDE: 1979-02-27*  
 \***BT1** chemical plants  
**RT** coal gasification  
**RT** commercialization  
**RT** methanol plants  
**RT** mobil m-gasoline process

**GASOLINE SERVICE STATIONS**

*INIS: 2000-04-12; ETDE: 1979-05-09*  
**UF** filling stations  
**UF** full-serve stations

UF gas stations  
 UF mini-serve stations  
 UF self-serve stations  
 UF service stations  
 \*BT1 retailers  
 RT automotive fuels  
 RT gasoline  
 RT small businesses  
 RT unleaded gasoline

**gasoline spills**

INIS: 1992-04-09; ETDE: 2002-06-13  
 USE hazardous materials spills

**gasteropods**

USE molluscs

**GASTRECTOMY**

\*BT1 surgery  
 RT digestive system diseases  
 RT stomach

**GASTRIC ACID**

\*BT1 body fluids  
 RT digestion  
 RT gastrin  
 RT secretion  
 RT stomach

**gastric administration**

USE oral administration

**GASTRIN**

\*BT1 peptide hormones  
 \*BT1 polypeptides  
 RT gastric acid  
 RT secretion  
 RT stomach

**GASTROINTESTINAL TRACT**

1996-11-13

BT1 digestive system  
 NT1 intestines  
 NT2 large intestine  
 NT3 rectum  
 NT2 small intestine  
 NT1 stomach  
 RT abdomen  
 RT metabolic diseases  
 RT peritoneum  
 RT radiation syndrome  
 RT trichinosis

**GASTUNITE**

2000-04-12

\*BT1 uranium minerals

**gasyntan process**

INIS: 2000-04-12; ETDE: 1976-01-23

Process for production of synthetic natural gas with calorific value up to 1000 btu/scf, at pressures between 300 and 500 psig, from natural gas condensates, propane - butane, refinery gases, light and full range naphtha. (Prior to January 1995, this was a valid ETDE descriptor.)

USE sng processes

**GATING CIRCUITS**

BT1 electronic circuits  
 RT logic circuits  
 RT switching circuits

**GAUGE INVARIANCE**

UF gauge transformations  
 BT1 invariance principles  
 RT aharonov-bohm effect  
 RT baryon number  
 RT charge conservation  
 RT hypercharge  
 RT instantons  
 RT lattice field theory

RT lepton number  
 RT operator product expansion  
 RT quantum chromodynamics  
 RT quantum field theory  
 RT strangeness  
 RT supergravity  
 RT unified gauge models  
 RT ward identity

**gauge transformations**

USE gauge invariance

**gauss distribution**

USE gauss function

**GAUSS FUNCTION**

UF gauss distribution  
 BT1 functions  
 RT distribution  
 RT gaussian processes  
 RT statistics

**gauss nuclear model**

USE gauss potential

**GAUSS POTENTIAL**

UF gauss nuclear model  
 \*BT1 nucleon-nucleon potential

**gauss quadratures**

USE quadratures

**GAUSSIAN PROCESSES**

RT distribution  
 RT gauss function  
 RT stochastic processes

**gcep**

1987-04-28

USE portsmouth centrifuge enrichment plant

**GCFR REACTOR**

Gulf General Atomic, San Diego, California, USA.

UF gas cooled fast breeder reactor  
 UF gulf general atomic fast breeder reactor

\*BT1 gcf type reactors  
 \*BT1 helium cooled reactors

**GCFR TYPE REACTORS**

1977-06-17

UF gas cooled fast breeder reactors  
 \*BT1 fbr type reactors  
 \*BT1 gas cooled reactors  
 NT1 gcf reactor

**GCR TYPE REACTORS**

UF gas cooled graphite moderated reactors

\*BT1 gas cooled reactors  
 \*BT1 graphite moderated reactors  
 NT1 agr type reactors

NT2 connah quay-b reactor  
 NT2 dungeness-b reactor  
 NT2 hartlepool reactor  
 NT2 heysham-a reactor  
 NT2 heysham-b reactor  
 NT2 hinkley point-b reactor  
 NT2 hunterston-b reactor  
 NT2 torness reactor  
 NT2 wagr reactor

NT1 bugey-1 reactor  
 NT1 chinon-a1 reactor  
 NT1 chinon-a2 reactor  
 NT1 chinon-a3 reactor  
 NT1 g-1 reactor  
 NT1 g-2 reactor  
 NT1 g-3 reactor  
 NT1 magnox type reactors  
 NT2 berkeley reactor

NT2 bradwell reactor  
 NT2 calder hall a-1 reactor  
 NT2 calder hall a-2 reactor  
 NT2 calder hall b-3 reactor  
 NT2 calder hall b-4 reactor  
 NT2 chapelcross-1 reactor  
 NT2 chapelcross-2 reactor  
 NT2 chapelcross-3 reactor  
 NT2 chapelcross-4 reactor  
 NT2 dungeness-a reactor  
 NT2 hinkley point-a reactor  
 NT2 hunterston-a reactor  
 NT2 latina reactor  
 NT2 oldbury-a reactor  
 NT2 sizewell-a reactor  
 NT2 tokai-mura reactor  
 NT2 trawsfynydd reactor  
 NT2 wylfa reactor  
 NT1 saint laurent-a1 reactor  
 NT1 saint laurent-a2 reactor  
 NT1 vandellos reactor  
 RT carbon dioxide cooled reactors  
 RT power reactors

**GCRC REACTOR**

2000-04-12

INEEL, Idaho Falls, Idaho, USA. Shut down in 1961.

UF gas cooled reactor experiment

\*BT1 experimental reactors  
 \*BT1 helium cooled reactors  
 \*BT1 power reactors  
 \*BT1 water moderated reactors

**GDL FACILITY**

INIS: 1986-05-26; ETDE: 1986-02-03

Nd glass laser facility at University of Rochester.

UF glass development laser facility

RT laser fusion reactors  
 RT neodymium lasers  
 RT omega facility

**GDT DEVICE**

2016-06-02

Gas dynamic trap.

\*BT1 magnetic mirrors  
 \*BT1 open plasma devices

**GE 2541**

INIS: 2000-04-12; ETDE: 1980-11-25

\*BT1 aluminium alloys  
 \*BT1 chromium alloys  
 \*BT1 iron base alloys  
 \*BT1 yttrium alloys

**ge computers**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE computers

**ge detectors (high-purity)**

INIS: 1975-12-09; ETDE: 2002-06-13

USE high-purity ge detectors

**ge process**

INIS: 2000-04-12; ETDE: 1982-07-27

In the process pyritic and organic sulfur is removed from coal by leaching with caustic solution, producing sulfides and polysulfides. The leaching is performed in two stages under microwave irradiation lasting 30 seconds or less per stage.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE desulfurization

**GE SEMICONDUCTOR DETECTORS**

UF germanium detectors

\*BT1 semiconductor detectors  
 NT1 high-purity ge detectors

**NT1** li-drifted ge detectors

## GE STANDARD REACTOR

1975-09-26

USA.

(Prior to 1975, BWR/6 TYPE REACTORS was used.)

*UF* bwr/6 type reactors

*UF* general electric standard reactor

\*BT1 bwr type reactors

*RT* black fox-1 reactor

*RT* black fox-2 reactor

*RT* hartsville-1 reactor

*RT* hartsville-2 reactor

*RT* hartsville-3 reactor

*RT* hartsville-4 reactor

*RT* phipps bend-1 reactor

*RT* phipps bend-2 reactor

*RT* skagit-1 reactor

*RT* skagit-2 reactor

## ge(li) detectors

USE li-drifted ge detectors

## GEARS

*INIS*: 1980-11-28; *ETDE*: 1976-09-28

BT1 machine parts

*RT* lubricants

*RT* lubrication

*RT* mechanical efficiency

*RT* mechanical transmissions

*RT* rolling friction

*RT* wear

*RT* wear resistance

*RT* wheels

## GEESE

*INIS*: 2000-04-12; *ETDE*: 1979-05-02

\*BT1 fowl

## geesthacht-1 research reactor

USE frg-1 reactor

## geesthacht-2 research reactor

USE frg-2 reactor

## GE GAS PROCESS

*INIS*: 2000-04-12; *ETDE*: 1976-02-19

*An integrated coal gasification--gas-cleaning process optimized for the production of clean low btu gas.*

\*BT1 coal gasification

*RT* low btu gas

## gegensein

USE zodiacal light

## GEIGER-MUELLER COUNTERS

\*BT1 radiation detectors

*RT* avalanche quenching

*RT* flow counters

## GEIGER-NUTTALL LAW

*INIS*: 1986-08-19; *ETDE*: 1986-09-05

*RT* alpha decay

*RT* alpha particles

*RT* half-life

*RT* mean free path

## GEKKO FACILITY

*INIS*: 1985-09-09; *ETDE*: 1985-10-11

*Nd glass laser facility at Osaka University for laser fusion experiments.*

*RT* laser fusion reactors

*RT* neodymium lasers

## GEL PERMEATION

### CHROMATOGRAPHY

*INIS*: 1984-04-04; *ETDE*: 1983-05-21

\*BT1 chromatography

## GELATIN

\*BT1 colloids

\*BT1 proteins

## GELATION

*RT* colloids

*RT* sol-gel process

## GELL-MANN THEORY

*RT* quantum numbers

*RT* strangeness

## GELS

\*BT1 colloids

**NT1** hydrogels

**NT1** hydrophilic polymers

*RT* plugging agents

*RT* thixotropy

## gemeinschaftskernkraftwerk neckar

USE neckar-1 reactor

## gene activators

*INIS*: 1985-11-19; *ETDE*: 2002-06-13

USE gene regulation

## GENE AMPLIFICATION

*INIS*: 1993-08-26; *ETDE*: 1986-01-24

*An increase in the number of copies of a gene in the genome so that a protein product is produced at elevated levels.*

**NT1** polymerase chain reaction

*RT* cell differentiation

*RT* genetic engineering

*RT* immunoglobulins

*RT* recombinant dna

## gene loci

USE genes

## GENE MUTATIONS

*UF* point mutations

BT1 mutations

*RT* gene recombination

*RT* gene therapy

*RT* genes

*RT* genetic engineering

*RT* polymerase chain reaction

*RT* recombinant dna

## GENE OPERONS

*INIS*: 1985-11-19; *ETDE*: 1984-06-29

*Small segments of chromosomes which govern transcription of the DNA by controlling access to the gene.*

*RT* chromosomes

*RT* codons

*RT* dna

*RT* gene regulation

*RT* genes

*RT* ma

## gene promoters

*INIS*: 1985-11-19; *ETDE*: 1984-06-29

USE gene repressors

## GENE RECOMBINATION

*UF* recombination (genetic)

*RT* crossing-over

*RT* dna mismatch

*RT* gene mutations

*RT* gene recombination proteins

*RT* genes

*RT* genetic variability

*RT* recombinant dna

## GENE RECOMBINATION PROTEINS

*INIS*: 2000-04-12; *ETDE*: 1987-07-22

*A group of enzymes which mediate gene recombination and crossing-over during meiosis but also are involved in repair of DNA.*

\*BT1 enzymes

*RT* crossing-over

*RT* dna repair

*RT* endonucleases

*RT* gene recombination

*RT* meiosis

*RT* nucleoproteins

## GENE REGULATION

*INIS*: 1995-06-09; *ETDE*: 1985-11-19

*The complex series of biochemical events serving to control the expression of a gene or gene family.*

*UF* gene activators

**NT1** enzyme induction

*RT* biosynthesis

*RT* chromosomes

*RT* codons

*RT* exons

*RT* gene operons

*RT* gene repressors

*RT* genes

*RT* genetic engineering

*RT* human chromosomes

*RT* introns

*RT* microarray technology

*RT* splicing

*RT* transcription

*RT* transcription factors

## GENE REPRESSORS

*INIS*: 1991-10-22; *ETDE*: 1984-06-29

*A class of proteins which block the transcription of one or more genes by binding to a control segment of the chromosome. Since the gene product encoded cannot be synthesized, the property conferred by the gene is not expressed.*

*UF* gene promoters

*RT* enzyme induction

*RT* gene regulation

*RT* nucleoproteins

*RT* transcription

*RT* transcription factors

## GENE THERAPY

2003-08-26

*Technique for correcting defective genes responsible for disease development.*

\*BT1 therapy

*RT* gene mutations

*RT* genetic engineering

## general accounting office

*INIS*: 2000-01-11; *ETDE*: 1979-02-23

USE us gao

## general atomic fuel fabrication facility

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE fuel fabrication plants

## general atomic standard reactor

1993-11-08

USE ga standard reactor

## GENERAL CIRCULATION MODELS

*INIS*: 1991-07-02; *ETDE*: 1986-06-12

BT1 mathematical models

*RT* atmospheric circulation

*RT* climate models

*RT* fluid mechanics

*RT* meteorology

*RT* oceanic circulation

*RT* three-dimensional calculations

## general electric nuclear test reactor

1993-11-08

USE ntr reactor

**general electric standard reactor**

2000-01-11

USE ge standard reactor

**general electric test reactor**

2000-01-11

USE getr reactor

**general law**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

USE laws

**general quantum field theory**

INIS: 1977-11-21; ETDE: 1978-03-08

USE axiomatic field theory

**GENERAL RELATIVITY THEORY**

2000-01-11

UF einstein gravitation theory

BT1 field theories

BT1 relativity theory

RT cosmological constant

RT cosmological models

RT cosmology

RT einstein effect

RT einstein field equations

RT einstein-maxwell equations

RT energy-momentum tensor

RT equivalence principle

RT gravitation

RT gravitational fields

RT gravitational lenses

RT gravitational radiation

RT kaluza-klein theory

RT loop quantum gravity

RT m-theory

RT mach principle

RT nonluminous matter

RT quantum gravity

RT schwarzschild metric

**generating capacity**

INIS: 1982-12-03; ETDE: 1977-06-02

USE capacity

**GENERATOR-COORDINATE****METHOD**

BT1 calculation methods

RT boson expansion

RT nuclear structure

RT pairing interactions

RT quantum mechanics

**generators (aerosol)**

USE aerosol generators

**generators (electric)**

USE electric generators

**generators (pulse)**

USE pulse generators

**generators (radioisotope)**

USE radioisotope generators

**generators (steam)**

USE steam generators

**generators (vapor)**

USE vapor generators

**GENES**

1996-05-03

UF cistrons

UF gene loci

NT1 lethal genes

NT1 oncogenes

NT1 replicons

RT chromosomes

RT codons

RT exons

RT gene mutations

RT gene operons

RT gene recombination

RT gene regulation

RT genetic effects

RT genetic engineering

RT genetic mapping

RT genotype

RT human chromosomes

RT in-situ hybridization

RT introns

RT plasmids

RT rflps

RT transcription

RT transposons

**genesis**

INIS: 2000-01-11; ETDE: 1980-07-23

USE origin

**GENETIC ALGORITHMS**

2018-03-01

\*BT1 algorithms

RT neural networks

RT numerical solution

RT optimization

**GENETIC CONTROL**

\*BT1 pest control

RT chromosomal aberrations

RT insects

RT mutagenesis

RT mutations

RT sterility

**GENETIC EFFECTS**

BT1 biological effects

NT1 genetic radiation effects

RT chromosomes

RT congenital malformations

RT genes

RT genetics

RT gonads

RT human chromosomes

RT mosaicism

RT mutations

RT radiation equivalence

RT sister chromatid exchanges

RT teratogens

**GENETIC ENGINEERING**

INIS: 1984-12-04; ETDE: 1981-07-18

BT1 biotechnology

NT1 nucleic acid hybridization

NT2 dna hybridization

NT3 dna-cloning

NT2 in-situ hybridization

RT cell differentiation

RT dna

RT gene amplification

RT gene mutations

RT gene regulation

RT gene therapy

RT genes

RT genetic radiation effects

RT hybridization

RT molecular biology

RT polymerase chain reaction

RT protein engineering

RT transposons

**GENETIC MAPPING**

INIS: 1997-06-17; ETDE: 1976-08-24

*The graphical representation of the linear arrangement of genes on a chromosome.*

BT1 mapping

RT banding techniques

RT chromosomes

RT contigs

RT dna hybridization

RT genes

RT human chromosomes

RT in-situ hybridization

RT microarray technology

RT rflps

**GENETIC RADIATION EFFECTS**

\*BT1 biological radiation effects

\*BT1 genetic effects

RT chromosome losses

RT delayed radiation effects

RT genetic engineering

RT genetically significant dose

RT sister chromatid exchanges

**GENETIC VARIABILITY**

2000-01-11

UF variability (genetic)

BT1 biological variability

RT ecological balance

RT gene recombination

RT rflps

RT transposons

**GENETICALLY SIGNIFICANT DOSE**

UF gsd

\*BT1 radiation doses

RT dose-response relationships

RT genetic radiation effects

RT populations

RT radiation hazards

**GENETICS**

UF heredity

BT1 biology

RT animal breeding

RT biological evolution

RT cytology

RT genetic effects

RT hereditary diseases

RT hybridization

RT nucleic acids

RT plasmids

**genitals (female)**

USE female genitals

**genitals (male)**

USE male genitals

**GENKAI-1 REACTOR**Kyushu Electric Power Co., Genkai, Saga, Japan. *Permanent shutdown since 2015.*

UF kyushu-1 reactor

\*BT1 pwr type reactors

**GENKAI-2 REACTOR**

INIS: 1979-09-18; ETDE: 1978-08-07

Kyushu Electric Power Co., Genkai, Saga, Japan.

UF kyushu-2 reactor

\*BT1 pwr type reactors

**GENKAI-3 REACTOR**

INIS: 1985-06-07; ETDE: 1985-07-18

Kyushu Electric Power Co., Genkai, Saga, Japan.

\*BT1 pwr type reactors

**GENKAI-4 REACTOR**

INIS: 1985-06-07; ETDE: 1985-07-18

Kyushu Electric Power Co., Genkai, Saga, Japan.

UF kyushu-4 reactor

\*BT1 pwr type reactors

**GENOME MUTATIONS**

BT1 mutations

RT aneuploidy

RT karyotype

RT non-disjunction

RT ploidy

RT polyploidy

## GENOTYPE

RT genes  
RT mutagenesis  
RT ontogenesis  
RT phenotype

## GENTILLY-1 REACTOR

*Nicolet, Quebec, Canada. Permanent shutdown since 1977.*

UF *gentilly reactor*  
\*BT1 *candu type reactors*  
\*BT1 *hwlwr type reactors*  
\*BT1 *natural uranium reactors*

## GENTILLY-2 REACTOR

*Nicolet, Quebec, Canada. Permanent shutdown since 2012.*

UF *gentilly reactor*  
\*BT1 *candu type reactors*  
\*BT1 *natural uranium reactors*  
\*BT1 *phwr type reactors*

## gentilly reactor

ETDE: 2002-06-13

*Prior 2018 used for GENTILLY-1 REACTOR.*

USE *gentilly-1 reactor*  
USE *gentilly-2 reactor*

## geo neutrinos

2016-12-12

USE *geoneutrinos*

## GEOBAROMETRY

INIS: 2000-01-20; ETDE: 1977-12-22

*Any method for the direct or indirect determination of the pressure conditions under which a rock or mineral was formed.*

RT *minerals*  
RT *pressure measurement*  
RT *rocks*

## GEOBOTANY

\*BT1 *botany*  
RT *biogeochemistry*  
RT *biological evolution*

## GEOCHEMICAL SURVEYS

SF *surveys*  
BT1 *geologic surveys*  
RT *exploration*  
RT *geochemistry*  
RT *geology*  
RT *geothermal exploration*  
RT *ground truth measurements*  
RT *marine surveys*  
RT *prospecting*  
RT *seeps*

## GEOCHEMISTRY

1999-05-04

BT1 *chemistry*  
NT1 *biogeochemistry*  
RT *acid neutralizing capacity*  
RT *coalification*  
RT *geochemical surveys*  
RT *geology*  
RT *geothermometry*  
RT *natural occurrence*  
RT *organic matter*  
RT *site characterization*

## geochronology

USE *age estimation*

## GEOCORONA

RT *earth atmosphere*  
RT *interplanetary space*  
RT *solar wind*

## GEODESICS

*Lines along which the distance between two points reaches an extremum.*

RT *mathematical space*

## GEODESY

RT *mathematics*

## GEODETTIC SURVEYS

INIS: 2000-01-20; ETDE: 1978-07-05

*A survey of a large land area used for the precise location of basic points.*

\*BT1 *geophysical surveys*  
RT *earthquakes*  
RT *ground uplift*

## GEOGRAPHIC INFORMATION

### SYSTEMS

2003-05-30

UF *gis*  
BT1 *information systems*  
RT *baseline ecology*  
RT *data base management*  
RT *geography*  
RT *geologic surveys*  
RT *site characterization*

## GEOGRAPHICAL VARIATIONS

INIS: 1999-07-16; ETDE: 1977-10-19

BT1 *variations*  
NT1 *latitude effect*  
RT *east-west asymmetry*  
RT *north-south asymmetry*

## GEOGRAPHY

RT *earth planet*  
RT *geographic information systems*  
RT *oceanography*  
RT *site characterization*

## geoisotherms

INIS: 1983-02-03; ETDE: 1976-08-25

USE *isotherms*

## GEOLOGIC AGES

INIS: 1992-04-14; ETDE: 1977-10-19

NT1 *cenozoic era*  
NT2 *quaternary period*  
NT3 *pleistocene epoch*  
NT2 *tertiary period*  
NT3 *eocene epoch*  
NT3 *miocene epoch*  
NT3 *pliocene epoch*  
NT1 *mesozoic era*  
NT2 *cretaceous period*  
NT2 *jurassic period*  
NT2 *triassic period*  
NT1 *paleozoic era*  
NT2 *cambrion period*  
NT2 *carboniferous period*  
NT2 *devonian period*  
NT2 *ordovician period*  
NT2 *permian period*  
NT2 *silurian period*  
NT1 *precambrian era*  
RT *age estimation*  
RT *geologic history*  
RT *paleomagnetism*

## GEOLOGIC DEPOSITS

(From August 1981 till March 1997 PARAGENESIS was a valid ETDE descriptor.)

UF *deposits (geological)*  
SF *paragenesis*  
NT1 *alluvial deposits*  
NT1 *coal deposits*  
NT2 *coal seams*  
NT1 *concretions*  
NT1 *moraines*  
NT1 *natural gas deposits*

NT2 *natural gas fields*

NT3 *gas condensate fields*

NT1 *natural gas hydrate deposits*

NT1 *oil sand deposits*

NT2 *asphalt ridge deposit*

NT2 *athabasca deposit*

NT2 *circle cliffs deposit*

NT2 *cold lake deposit*

NT2 *edna deposit*

NT2 *lloydminster deposit*

NT2 *peace river deposit*

NT2 *pr springs deposit*

NT2 *santa rosa deposit*

NT2 *sunnyside deposit*

NT2 *tar sand triangle deposit*

NT2 *uvalde deposit*

NT2 *wabasca deposit*

NT1 *oil shale deposits*

NT2 *us naval oil shale reserves*

NT1 *petroleum deposits*

NT2 *gas condensate fields*

NT2 *oil fields*

NT3 *weyburn field*

NT2 *us naval petroleum reserves*

NT1 *placers*

NT1 *salt deposits*

NT1 *thorium deposits*

NT1 *uranium deposits*

NT2 *blizzard deposit*

NT2 *erzgebirge effect*

NT2 *jabiluka deposit*

NT2 *koongarra deposit*

NT2 *nabarlek deposit*

NT2 *ranger deposit*

NT2 *ranstad deposit*

NT2 *roxby downs deposit*

NT2 *south alligator deposit*

NT2 *yeelirrie deposit*

RT *availability*

RT *inclined strata*

RT *ores*

RT *sediments*

RT *underground storage*

RT *working faces*

## geologic engineering

INIS: 2000-04-12; ETDE: 1977-03-08

USE *engineering geology*

## GEOLOGIC FAULTS

*Fractures in rock along which the adjacent rock surfaces are differentially displaced.*

UF *faults (geologic)*

\*BT1 *geologic fractures*

RT *earthquakes*

RT *geologic fissures*

RT *geology*

RT *geomorphology*

RT *rift zones*

RT *seismology*

## GEOLOGIC FISSURES

1985-12-10

UF *geologic joints*

BT1 *geologic structures*

RT *caves*

RT *cracks*

RT *fractured reservoirs*

RT *fractures*

RT *geologic faults*

RT *geologic fractures*

RT *geology*

## GEOLOGIC FORMATIONS

INIS: 1996-01-25; ETDE: 1978-07-05

UF *boom clay formation*

NT1 *chattanooga formation*

NT1 *green river formation*

NT2 *mahogany zone*

NT2 *uinta formation*

**NT1** wasatch formation  
**RT** boom clay  
**RT** formation damage  
**RT** geologic structures  
**RT** natural analogue  
**RT** reservoir pressure

**GEOLOGIC FRACTURES**

*INIS: 1985-12-10; ETDE: 1984-08-06*

*Breaks in rock, whether or not there is displacement, due to mechanical failure by stress.*

**BT1** geologic structures  
**NT1** geologic faults  
**RT** cracks  
**RT** fractures  
**RT** geologic fissures

**GEOLOGIC HISTORY**

*INIS: 1985-12-10; ETDE: 1978-08-07*

**RT** eocene epoch  
**RT** geologic ages  
**RT** geologic models  
**RT** geologic structures  
**RT** geology  
**RT** miocene epoch  
**RT** pleistocene epoch  
**RT** pliocene epoch

**geologic joints**

*INIS: 2000-01-20; ETDE: 1984-08-06*

USE geologic fissures

**GEOLOGIC MODELS**

*INIS: 1985-12-10; ETDE: 1978-02-14*

**RT** geologic history  
**RT** geologic structures

**geologic natural analogue**

*INIS: 1993-09-17; ETDE: 1993-11-08*

USE natural analogue

**geologic provinces**

*INIS: 2000-04-12; ETDE: 1981-08-04*

SEE snake river plain

**GEOLOGIC STRATA**

*1975-12-09*

**BT1** geologic structures  
**NT1** basement rock  
**NT1** cap rock  
**NT1** inclined strata  
**RT** chattanooga formation  
**RT** coal seams  
**RT** rocks  
**RT** strata movement  
**RT** stratification  
**RT** stratigraphy

**GEOLOGIC STRUCTURES**

*1975-11-07*

(From December 1980 till February 1997

DIKES was a valid ETDE descriptor; from

December 1984 till March 1997

LINEAMENTS was a valid ETDE descriptor.)

UF dikes

UF lineaments

**NT1** anticlines

**NT1** fractured reservoirs

**NT1** geologic fissures

**NT1** geologic fractures

**NT2** geologic faults

**NT1** geologic strata

**NT2** basement rock

**NT2** cap rock

**NT2** inclined strata

**NT1** reefs

**NT2** coral reefs

**NT1** rift zones

**NT1** sedimentary basins

**NT2** appalachian basin

**NT3** chattanooga formation

**NT2** williston basin

**NT1** unconsolidated rock

**RT** geologic formations

**RT** geologic history

**RT** geologic models

**RT** geology

**RT** mid-atlantic ridge

**RT** natural analogue

**RT** seismic surveys

**RT** seismology

**RT** stratigraphy

**RT** water influx

**GEOLOGIC SURVEYS**

*INIS: 1975-11-07; ETDE: 1977-01-31*

UF geological surveys

SF surveys

**NT1** geochemical surveys

**NT1** geophysical surveys

**NT2** electrical surveys

**NT3** electromagnetic surveys

**NT4** magnetotelluric surveys

**NT3** resistivity surveys

**NT3** self-potential surveys

**NT3** telluric surveys

**NT2** geodetic surveys

**NT2** gravity surveys

**NT2** infrared surveys

**NT2** magnetic surveys

**NT2** radiometric surveys

**NT2** seismic surveys

**NT2** temperature surveys

**RT** exploration

**RT** geographic information systems

**RT** geos satellites

**RT** geothermal exploration

**RT** goes satellites

**RT** kriging

**RT** prospecting

**RT** site characterization

**geologic thermometry**

*INIS: 2000-04-12; ETDE: 1976-03-31*

USE geothermometry

**GEOLOGIC TRAPS**

*INIS: 2000-01-21; ETDE: 1978-01-23*

*Configurations of rocks able to confine fluids that float on other fluids.*

**RT** natural gas deposits

**RT** petroleum deposits

**geological surveys**

*2000-01-21*

USE geologic surveys

**GEOLOGY**

*1996-07-18*

**NT1** engineering geology

**NT1** geomorphology

**NT1** petrography

**NT1** petroleum geology

**NT1** petrology

**NT2** lithology

**NT2** petrogenesis

**NT1** stratigraphy

**RT** earth crust

**RT** earth planet

**RT** geochemical surveys

**RT** geochemistry

**RT** geologic faults

**RT** geologic fissures

**RT** geologic history

**RT** geologic structures

**RT** geophysical surveys

**RT** geophysics

**RT** geothermal energy

**RT** metamorphism

**RT** regional analysis

**RT** rock mechanics

**RT** site characterization

**RT** volcanoes

**GEOMAGNETIC CONJUGACY**

UF conjugate points

**RT** geomagnetic field

**GEOMAGNETIC COORDINATES**

**BT1** coordinates

**RT** geomagnetic field

**geomagnetic cut-off rigidity**

USE threshold rigidity

**GEOMAGNETIC EQUATOR**

**RT** equator

**RT** geomagnetic field

**GEOMAGNETIC FIELD**

**BT1** magnetic fields

**RT** earth magnetosphere

**RT** geomagnetic conjugacy

**RT** geomagnetic coordinates

**RT** geomagnetic equator

**RT** geophysics

**RT** inclination

**RT** international magnetospheric study

**RT** magnetosheath

**RT** magnetotail

**RT** paleomagnetism

**RT** threshold rigidity

**geomagnetic storms**

USE magnetic storms

**GEOMETRIC BUCKLING**

*A form of neutron density distribution in reactors. For buckling of materials, see DEFORMATION or FAILURES.*

**BT1** buckling

**geometric sensitivity**

*INIS: 2000-04-12; ETDE: 1979-08-07*

USE space dependence

**GEOMETRICAL ABERRATIONS**

UF cylindrical aberrations

UF spherical aberrations

**RT** beam optics

**RT** optical properties

**GEOMETRY**

**BT1** mathematics

**NT1** differential geometry

**NT1** lobachevsky geometry

**RT** configuration

**RT** cusped geometries

**RT** invariant imbedding

**RT** mapping

**RT** prisms

**RT** spheres

**RT** spheroids

**GEOMORPHOLOGY**

*1997-06-19*

*A science that deals with the land and submarine relief features of the earth's surface and seeks a genetic interpretation of them through using the principles of physiography in its descriptive aspects and of dynamic and structural geology in its explanatory phases.*

UF landforms

**BT1** geology

**RT** earth crust

**RT** geologic faults

**RT** geophysics

**RT** regional analysis

**RT** sea bed

**RT** site characterization

**RT** stratigraphy



**GEONEUTRINOS**

2016-12-12

*Neutrinos emitted in the decays of natural radioactive beta-isotopes in earth*

UF geo neutrinos

UF neutrino geophysics

\*BT1 neutrinos

RT geophysics

**geophones**

INIS: 2000-01-21; ETDE: 1976-09-15

USE seismic detectors

**GEOPHYSICAL SURVEYS**

1996-04-18

*Surveys using one or more geophysical techniques in geophysical exploration, such as electrical, infrared, heat flow, magnetic, radioactivity, and seismic techniques.*

SF surveys

BT1 geologic surveys

NT1 electrical surveys

NT2 electromagnetic surveys

NT3 magnetotelluric surveys

NT2 resistivity surveys

NT2 self-potential surveys

NT2 telluric surveys

NT1 geodetic surveys

NT1 gravity surveys

NT1 infrared surveys

NT1 magnetic surveys

NT1 radiometric surveys

NT1 seismic surveys

NT1 temperature surveys

RT aerial monitoring

RT coal deposits

RT exploration

RT geology

RT geophysics

RT geothermal exploration

RT ground truth measurements

RT marine surveys

RT natural gas deposits

RT oil shale deposits

RT petroleum deposits

RT prospecting

RT remote sensing

RT uranium deposits

RT well logging

**GEOPHYSICS**

2000-01-24

UF neutrino geophysics

BT1 physics

RT bathymetry

RT earth planet

RT geology

RT geomagnetic field

RT geomorphology

RT geoneutrinos

RT geophysical surveys

RT international geophysical year

**GEOPRESSURE ANOMALIES**

INIS: 2000-04-12; ETDE: 1979-01-30

RT geopressured systems

**GEOPRESSURED SYSTEMS**

1992-07-10

*Underground reservoirs in which the pressure exceeds normal hydrostatic pressure.*

BT1 energy systems

RT geopressure anomalies

RT geothermal systems

RT natural gas deposits

RT reservoir pressure

**GEORGES BANK**

INIS: 1992-06-09; ETDE: 1978-12-11

*Submerged sandbank east of Massachusetts.*

RT atlantic ocean

RT mid-atlantic bight

**georgia (republic of)**

INIS: 1993-02-01; ETDE: 1993-04-08

USE republic of georgia

**GEORGIA (U.S. STATE OF)**

1997-06-17

\*BT1 usa

NT1 atlanta

RT altamaha river

RT chattahoochee river

RT chattanooga formation

RT savannah river

RT us east coast

**georgia tech. research reactor**

USE gtr reactor

**GEOS SATELLITES**

BT1 satellites

RT geologic surveys

RT remote sensing

**geostationary operational environmental satellite**

INIS: 2000-01-24; ETDE: 1980-04-14

USE goes satellites

**geostatistics**

INIS: 2000-03-27; ETDE: 1993-07-07

SEE kriging

**GEOTHERMAL AIR****CONDITIONING**

INIS: 2000-04-12; ETDE: 1979-01-30

BT1 air conditioning

RT geothermal refrigeration

**geothermal areas**

1990-12-15

USE geothermal fields

**GEOTHERMAL DISTRICT HEATING**

INIS: 1993-01-26; ETDE: 1977-08-24

\*BT1 district heating

\*BT1 geothermal heating

RT geothermal space heating

**GEOTHERMAL ENERGY**

BT1 energy

\*BT1 renewable energy sources

RT earth crust

RT geology

RT geothermal fields

RT geothermal heating

RT geothermal industry

RT geothermal power plants

RT thermal springs

RT volcanoes

**GEOTHERMAL ENERGY****CONVERSION**

1992-08-19

\*BT1 energy conversion

RT binary-fluid systems

RT flashed steam systems

RT total flow systems

**GEOTHERMAL EXPLORATION**

1996-04-18

*Exploration for sources of geothermal energy.*

BT1 exploration

RT electrical surveys

RT electromagnetic surveys

RT exploratory wells

RT geochemical surveys

RT geologic surveys

RT geophysical surveys

RT gravity surveys

RT infrared surveys

RT magnetic surveys

RT seismic surveys

RT telluric surveys

RT temperature surveys

RT well logging equipment

**GEOTHERMAL FIELDS**

1997-06-19

UF geothermal areas

UF geothermal regions

NT1 ahuachapan geothermal field

NT1 baca geothermal field

NT1 beppu geothermal field

NT1 brawley geothermal field

NT1 broadlands geothermal field

NT1 cerro prieto geothermal field

NT1 dieng geothermal field

NT1 east mesa geothermal field

NT1 el tatio geothermal field

NT1 geysers geothermal field

NT1 hatchobaru geothermal field

NT1 heber geothermal field

NT1 kakkonda geothermal field

NT1 kamojang geothermal field

NT1 kawerau geothermal field

NT1 kizildere geothermal field

NT1 krafla geothermal field

NT1 larderello geothermal field

NT1 matsukawa geothermal field

NT1 momotombo geothermal field

NT1 monte amiata geothermal field

NT1 namafjall geothermal field

NT1 onikobe geothermal field

NT1 onuma geothermal field

NT1 otake geothermal field

NT1 palimpinon geothermal field

NT1 paratunka geothermal field

NT1 pathe geothermal field

NT1 pazuzhetsk geothermal field

NT1 salton sea geothermal field

NT1 soultz-sous-forets geothermal field

NT1 takenoyu geothermal field

NT1 takinoue geothermal field

NT1 tiwi geothermal field

NT1 tongonan geothermal field

NT1 travale geothermal field

NT1 urach geothermal field

NT1 waiotapu geothermal field

NT1 wairakei geothermal field

RT geothermal energy

RT geothermal systems

RT imperial valley

RT kgra

RT klamath falls

RT roosevelt hot springs

RT salton sea

RT thermal springs

RT well spacing

RT wendell-amedee hot springs

**GEOTHERMAL FLUIDS**

1992-05-12

*Naturally occurring steam or hot water found in the earth's volcanic or young orogenic zones.*

SF thermal waters

BT1 fluids

NT1 fumarolic fluids

NT1 natural steam

RT brines

RT fluid withdrawal

RT hydrothermal systems

**GEOTHERMAL GRADIENTS**

1993-06-07

*The rate of increase of temperature in the earth with depth.*

BT1 temperature gradients

**GEOTHERMAL HEATING**

INIS: 2000-04-12; ETDE: 1975-11-11

- BT1 heating
- NT1 geothermal district heating
- NT1 geothermal space heating
- NT1 geothermal water heating
- RT geothermal energy
- RT geothermal heating systems
- RT geothermal process heat

**GEOTHERMAL HEATING SYSTEMS**

INIS: 2000-04-12; ETDE: 1976-04-19

- \*BT1 heating systems
- RT district heating
- RT geothermal heating

**GEOTHERMAL HOT-WATER SYSTEMS**

INIS: 1997-06-19; ETDE: 1992-08-12

*Hydrothermal convective systems characterized by liquid water as the continuous, pressure-controlling fluid phase.*

- UF hot-water systems
- SF liquid-dominated hydrothermal convective systems
- \*BT1 hydrothermal systems
- RT baca geothermal field
- RT broadlands geothermal field
- RT cerro prieto geothermal field
- RT kawerau geothermal field
- RT otake geothermal field
- RT pathe geothermal field
- RT pazzhetsk geothermal field
- RT wairakei geothermal field

**GEOTHERMAL INDUSTRY**

INIS: 1992-05-12; ETDE: 1977-12-22

- BT1 industry
- RT geothermal energy

**GEOTHERMAL POWER PLANTS**

- \*BT1 thermal power plants
- RT binary-fluid systems
- RT flashed steam systems
- RT geothermal energy
- RT total flow systems

**GEOTHERMAL PROCESS HEAT**

INIS: 2000-04-12; ETDE: 1978-02-15

- \*BT1 process heat
- RT geothermal heating

**GEOTHERMAL REFRIGERATION**

INIS: 2000-04-12; ETDE: 1975-11-26

- \*BT1 refrigeration
- RT geothermal air conditioning

**geothermal regions**

1990-12-15

- USE geothermal fields

**GEOTHERMAL RESOURCES**

1992-03-30

(Until March 1992, this was indexed by GEOTHERMAL ENERGY and RESOURCES.)

- BT1 resources
- RT geothermal systems

**GEOTHERMAL SPACE HEATING**

INIS: 2000-04-12; ETDE: 1975-10-28

- \*BT1 geothermal heating
- \*BT1 space heating
- RT geothermal district heating

**geothermal springs**

INIS: 2000-03-27; ETDE: 1980-08-12

- SEE geysers
- SEE hot springs
- SEE thermal springs
- SEE warm springs

**geothermal steam**

2000-04-12

- USE natural steam

**GEOTHERMAL SYSTEMS**

1992-03-30

*Localized regions in which geothermal heat is carried close enough to the earth's surface by steam or hot water to be harnessed for use.*

- NT1 hot-dry-rock systems
- NT1 hydrothermal systems
- NT2 geothermal hot-water systems
- NT2 vapor-dominated systems
- NT1 magma systems
- RT geopressured systems
- RT geothermal fields
- RT geothermal resources

**GEOTHERMAL WATER HEATING**

INIS: 2000-04-12; ETDE: 1980-03-04

*Use for domestic water heating; for industrial application use GEOTHERMAL PROCESS HEAT.*

- \*BT1 geothermal heating
- \*BT1 water heating

**GEOTHERMAL WELLS**

1992-09-03

- BT1 wells
- RT directional drilling
- RT exploratory wells
- RT injection wells
- RT well drilling
- RT well pressure
- RT wellheads

**GEOTHERMOMETERS**

2000-05-24

*Minerals or mineral assemblages whose composition, structure, or inclusions are fixed within known thermal limits under particular conditions of pressure and composition and whose presence thus denotes a limit or a range for the temperature of formation of the enclosing rock.*

- \*BT1 thermometers
- RT geothermometry
- RT temperature measurement

**GEOTHERMOMETRY**

2000-01-20

*Measurement or estimation, by direct or indirect methods, of the maximum, minimum, or actual temperatures at which geological processes occur or have occurred in the past.*

- UF geologic thermometry
- RT geochemistry
- RT geothermometers
- RT temperature measurement

**geraniol**

1996-10-23

(Until October 1996 this was a valid descriptor.)

- USE alcohols
- USE terpenes

**GERBILS**

- \*BT1 rodents

**gerjuoy-stein theory**

1996-06-28

(Until June 1996 this was a valid descriptor.)  
SEE excitation functions

**GERM CELLS**

- NT1 gametes
- NT2 ova
- NT2 pollen
- NT2 spermatozoa
- NT1 oocytes

- NT1 oogonia
- NT1 spermatocytes
- NT1 spermatogonia
- RT gametogenesis
- RT gonads

**GERM-FREE ANIMALS**

- UF gnothobionts
- BT1 animals
- RT antibody formation
- RT bacteria

**german (mainz) triga-mk-2 reactor**

1993-11-08

- USE triga-2-mainz reactor

**german democratic republic**

1991-05-02

(Prior to May 1991, this was a valid descriptor.)

- USE federal republic of germany

**german dr organizations**

INIS: 1991-05-02; ETDE: 1977-04-13

(Prior to May 1991, this was a valid descriptor.)

- USE german fr organizations

**german federal republic**

1984-07-20

- USE federal republic of germany

**GERMAN FR ORGANIZATIONS**

- UF german dr organizations
- BT1 national organizations
- NT1 bundesamt fuer strahlenschutz
- NT1 forschungszentrum juelich
- NT1 forschungszentrum karlsruhe
- NT1 gesellschaft fuer anlagen- und reaktorsicherheit
- NT1 ipp garching
- NT1 reaktorsicherheitskommission
- NT1 strahlenschutzkommission
- NT1 wak
- NT1 zfi leipzig
- NT1 zfk rossendorf
- RT federal republic of germany

**german measles**

INIS: 1980-04-02; ETDE: 1980-05-06

- USE measles

**german silver**

1996-06-28

(Until June 1996 this was a valid descriptor.)

- USE copper base alloys
- USE nickel alloys
- USE zinc alloys

**GERMANATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor with the exception of the one NT below.*

- BT1 germanium compounds
- BT1 oxygen compounds
- NT1 bismuth germanates
- NT1 lead germanates
- RT germanium oxides

**GERMANENE**

2015-06-22

- \*BT1 germanium
- RT two-dimensional systems

**germanes**

(Prior to December 1984 this was a valid ETDE descriptor.)

- USE germanium hydrides

**GERMANIDES***INIS: 1989-07-19; ETDE: 1989-08-01*

BT1 germanium compounds

**GERMANIUM**

\*BT1 metals

NT1 germanene

**GERMANIUM 58***2007-01-30*

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

**GERMANIUM 59***2007-01-30*

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

**GERMANIUM 60***2007-01-30*

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**GERMANIUM 61***INIS: 1978-01-13; ETDE: 1977-08-24*

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**GERMANIUM 62***INIS: 2003-01-03; ETDE: 2002-12-26*

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 proton decay radioisotopes

**GERMANIUM 63***2007-01-30*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**GERMANIUM 64**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**GERMANIUM 65**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**GERMANIUM 66**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

**GERMANIUM 67**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**GERMANIUM 68**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

RT radioisotope generators

**GERMANIUM 69**

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

**GERMANIUM 70**

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

**GERMANIUM 70 REACTIONS***INIS: 1992-04-16; ETDE: 1992-08-12*

\*BT1 heavy ion reactions

**GERMANIUM 70 TARGET***ETDE: 1976-07-09*

BT1 targets

**GERMANIUM 71**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

**GERMANIUM 71 TARGET***ETDE: 1976-07-09*

BT1 targets

**GERMANIUM 72**

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

**GERMANIUM 72 TARGET***ETDE: 1976-07-09*

BT1 targets

**GERMANIUM 73**

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 stable isotopes

**GERMANIUM 73 TARGET***ETDE: 1976-07-09*

BT1 targets

**GERMANIUM 74**

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

RT germanium 74 beams

RT germanium 74 reactions

**GERMANIUM 74 BEAMS**

\*BT1 ion beams

RT germanium 74

**GERMANIUM 74 REACTIONS***1978-11-24*

\*BT1 heavy ion reactions

RT germanium 74

**GERMANIUM 74 TARGET***ETDE: 1976-07-09*

BT1 targets

**GERMANIUM 75**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 seconds living radioisotopes

**GERMANIUM 75 TARGET***ETDE: 1976-07-09*

BT1 targets

**GERMANIUM 76**

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

RT germanium 76 beams

**GERMANIUM 76 BEAMS**

\*BT1 ion beams

RT germanium 76

**GERMANIUM 76 REACTIONS***INIS: 1976-03-02; ETDE: 1976-04-19*

\*BT1 heavy ion reactions

**GERMANIUM 76 TARGET***ETDE: 1976-07-09*

BT1 targets

**GERMANIUM 77**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 seconds living radioisotopes

**GERMANIUM 78**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

**GERMANIUM 79**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**GERMANIUM 80**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**GERMANIUM 81**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**GERMANIUM 82**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**GERMANIUM 83**

\*BT1 beta-minus decay radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**GERMANIUM 84**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**GERMANIUM 85**

1991-05-02

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**GERMANIUM 86**

2007-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes

**GERMANIUM 86 TARGET**

INIS: 1980-07-24; ETDE: 1980-08-12

- BT1 targets

**GERMANIUM 87**

2007-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**GERMANIUM 88**

2007-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes

**GERMANIUM 89**

2007-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes

**GERMANIUM ADDITIONS**

Alloys containing not more than 1% Ge are listed here.

- \*BT1 germanium alloys

**GERMANIUM ALLOYS**

Alloys containing more than 1% Ge.

- BT1 alloys
- NT1 germanium additions
- NT1 germanium base alloys

**GERMANIUM ARSENIDES**

INIS: 1978-02-23; ETDE: 1975-11-11

- \*BT1 arsenides
- BT1 germanium compounds

**GERMANIUM BASE ALLOYS**

- \*BT1 germanium alloys

**GERMANIUM BORIDES**

INIS: 1991-09-16; ETDE: 1978-10-23

- \*BT1 borides
- BT1 germanium compounds

**GERMANIUM BROMIDES**

- \*BT1 bromides
- \*BT1 germanium halides

**GERMANIUM CARBIDES**

INIS: 2000-04-12; ETDE: 1977-07-23

- \*BT1 carbides
- BT1 germanium compounds

**GERMANIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 germanium halides

**GERMANIUM COMPLEXES**

- BT1 complexes

**GERMANIUM COMPOUNDS**

1997-06-17

- NT1 germanates
- NT2 bismuth germanates
- NT2 lead germanates
- NT1 germanides
- NT1 germanium arsenides
- NT1 germanium borides
- NT1 germanium carbides
- NT1 germanium halides
- NT2 germanium bromides
- NT2 germanium chlorides
- NT2 germanium fluorides
- NT2 germanium iodides
- NT1 germanium hydrides
- NT1 germanium hydroxides
- NT1 germanium nitrides
- NT1 germanium oxides
- NT1 germanium phosphates
- NT1 germanium phosphides
- NT1 germanium selenides
- NT1 germanium silicates
- NT1 germanium silicides
- NT1 germanium sulfides
- NT1 germanium tellurides

**germanium detectors**

INIS: 2000-01-25; ETDE: 1978-12-28

- USE ge semiconductor detectors

**GERMANIUM DIODES**

- \*BT1 semiconductor diodes

**GERMANIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 germanium halides

**GERMANIUM HALIDES**

2012-07-19

- BT1 germanium compounds
- \*BT1 halides
- NT1 germanium bromides
- NT1 germanium chlorides
- NT1 germanium fluorides
- NT1 germanium iodides

**GERMANIUM HYDRIDES**

- UF germanes
- BT1 germanium compounds
- \*BT1 hydrides

**GERMANIUM HYDROXIDES**

INIS: 1996-07-18; ETDE: 1978-04-06

(From July 1996 to November 2007 GERMANIUM COMPOUNDS + HYDROXIDES was used for this concept.)

- BT1 germanium compounds
- \*BT1 hydroxides

**GERMANIUM IODIDES**

- \*BT1 germanium halides
- \*BT1 iodides

**GERMANIUM IONS**

- \*BT1 ions

**GERMANIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 germanium 58
- NT1 germanium 59

NT1 germanium 60

NT1 germanium 61

NT1 germanium 62

NT1 germanium 63

NT1 germanium 64

NT1 germanium 65

NT1 germanium 66

NT1 germanium 67

NT1 germanium 68

NT1 germanium 69

NT1 germanium 70

NT1 germanium 71

NT1 germanium 72

NT1 germanium 73

NT1 germanium 74

NT1 germanium 75

NT1 germanium 76

NT1 germanium 77

NT1 germanium 78

NT1 germanium 79

NT1 germanium 80

NT1 germanium 81

NT1 germanium 82

NT1 germanium 83

NT1 germanium 84

NT1 germanium 85

NT1 germanium 86

NT1 germanium 87

NT1 germanium 88

NT1 germanium 89

**GERMANIUM NITRIDES**

INIS: 1979-04-27; ETDE: 1979-05-25

- BT1 germanium compounds
- \*BT1 nitrides

**GERMANIUM OXIDES**

- BT1 germanium compounds

- \*BT1 oxides

RT germanates

**GERMANIUM PHOSPHATES**

INIS: 2000-04-12; ETDE: 1978-10-23

- BT1 germanium compounds
- \*BT1 phosphates

**GERMANIUM PHOSPHIDES**

INIS: 1978-07-03; ETDE: 1975-11-28

- BT1 germanium compounds
- \*BT1 phosphides

**GERMANIUM SELENIDES**

1977-10-17

- BT1 germanium compounds
- \*BT1 selenides

**GERMANIUM SILICATES**

- BT1 germanium compounds
- \*BT1 silicates

**GERMANIUM SILICIDES**

INIS: 1990-09-24; ETDE: 1976-03-11

- BT1 germanium compounds
- \*BT1 silicides

**GERMANIUM SULFIDES**

- BT1 germanium compounds
- \*BT1 sulfides

**GERMANIUM TELLURIDES**

1977-10-17

- BT1 germanium compounds
- \*BT1 tellurides

**germany**

INIS: 2000-04-12; ETDE: 1976-09-28

For use in indexing pre-World War II research.

(Prior to June 1992 this was a valid ETDE descriptor.)

- USE federal republic of germany

**germany (democratic republic)**

USE federal republic of germany

**germany (federal republic)**

2000-04-12

USE federal republic of germany

**GERMICIDES**

INIS: 1997-06-17; ETDE: 1980-03-04

Agents that destroy microorganisms.

UF bactericides

NT1 antiseptics

NT1 disinfectants

RT antibiotics

RT bacteria

RT infectivity

RT sterilization

**GERMINATION**

RT coleoptile

RT seedlings

RT seeds

**germs (microorganisms)**

USE microorganisms

**gerontine**

USE spermine

**ges fuer reaktorsicherheit**

INIS: 1994-07-14; ETDE: 1977-10-19

(Until July 1994 this was a valid descriptor.)

USE gesellschaft fuer anlagen- und reaktorsicherheit

**GESELLSCHAFT FUER ANLAGEN- UND REAKTORSICHERHEIT**

1994-07-14

A section of the Technical Inspection

Associations of the German Federal Republic.

(Until July 1994 this concept was indexed by

GES FUER REAKTORSICHERHEIT.)

UF ges fuer reaktorsicherheit

UF grs

UF institute for reactor safety

\*BT1 german fr organizations

RT inspection

RT reactor licensing

RT reactor safety

RT safety standards

**GETR REACTOR**

General Electric Company, Vallecitos Nuclear Center, Pleasanton, California, USA, Shut down in 1977.

UF general electric test reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**GETTERING**

RT adsorption

RT electron tubes

RT getters

**GETTERS**

Materials used for the purification of vacuum atmospheres; see also the specific materials.

RT electron tubes

RT gettering

RT sputter-ion pumps

RT vacuum pumps

**GEV RANGE**

From 10 exp 9 to 10 exp 12 eV.

BT1 energy range

NT1 gev range 01-10

NT1 gev range 10-100

NT1 gev range 100-1000

RT shower counters

**GEV RANGE 01-10**

\*BT1 gev range

**GEV RANGE 10-100**

\*BT1 gev range

**GEV RANGE 100-1000**

\*BT1 gev range

**GEYSERS**

2000-03-31

Hot springs that intermittently erupt jets of hot water and steam.

UF old faithful geyser

SF geothermal springs

SF thermal waters

\*BT1 hot springs

RT ground water

RT hydrothermal systems

**GEYSERS GEOTHERMAL FIELD**

1992-06-04

UF the geysers

BT1 geothermal fields

RT california

RT vapor-dominated systems

**GHANA**

BT1 africa

BT1 developing countries

**ghana miniature neutron source reactor**

2004-03-15

USE gharr-1 reactor

**GHANAIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**GHARR-1 REACTOR**

1999-08-17

Ghana National Nuclear Research Institute, Legon Accra, Ghana.

UF ghana miniature neutron source reactor

\*BT1 mnsr type reactors

**GHZ RANGE**

BT1 frequency range

NT1 ghz range 01-100

NT1 ghz range 100-1000

RT radioastronomy

**GHZ RANGE 01-100**

UF decimeter wave radiation (1-3 dm)

UF shf radiation

UF super high frequency radiation

UF uhf (lower range)

UF uhf radiation (01-100 ghz)

UF uhf radiation (upper range)

UF ultrahigh frequency (lower range)

UF ultrahigh frequency radiation (01-100 ghz)

UF ultrahigh frequency radiation (upper range)

\*BT1 ghz range

**GHZ RANGE 100-1000**

UF uhf (upper range)

UF ultrahigh frequency (upper range)

\*BT1 ghz range

**GIACINT REACTOR**

2018-03-07

Located at the Joint Institute for Power and Nuclear Research 'Sosny', Minsk, Belarus.

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 zero power reactors

**GIAMMARCO VETROCOKE SULFUR PROCESS**

2000-04-12

Process for the continuous removal of hydrogen sulfide from natural gas or synthesis gases by scrubbing sour gas with an alkali arsenate or arsenite solution.

\*BT1 desulfurization

**giant cells**

USE tumor cells

**GIANT RESONANCE**

BT1 resonance

RT cross sections

RT giant resonance model

RT nuclear reactions

RT photonuclear reactions

**GIANT RESONANCE MODEL**

UF goldhaber-teller model

RT cross sections

RT giant resonance

RT photonuclear reactions

RT resonance

**GIANT STARS**

BT1 stars

NT1 red giant stars

NT1 supergiant stars

**GIBBERELIC ACID**

UF gibberellin a3

\*BT1 hydroxy acids

\*BT1 lactones

RT auxins

**gibberellin a3**

USE gibberellic acid

**gibbs formation free energy**

INIS: 1976-03-25; ETDE: 1976-05-17

USE formation free enthalpy

**gibbs free energy**

USE free enthalpy

**GIBBSITE**

INIS: 1999-03-02; ETDE: 1976-01-23

A white or tinted monoclinic mineral: Al(OH).

\*BT1 oxide minerals

RT aluminium hydroxides

**GIBBSAR STANDARD PLANT**

INIS: 1977-11-03; ETDE: 1977-06-24

Gibbs and Hill reference PWR nuclear power plant.

\*BT1 nuclear power plants

RT westinghouse standard reactor

**gibraltar**

INIS: 2000-04-12; ETDE: 1981-10-24

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE united kingdom

**gidep**

INIS: 2000-04-12; ETDE: 1984-11-09

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE data acquisition

**GIDRA REACTOR**

2004-09-09

Russian Research Center, Kurchatov Institute, Moscow, Russian Federation.

UF hydra reactor

\*BT1 aqueous homogeneous reactors

\*BT1 enriched uranium reactors

\*BT1 pulsed reactors

\*BT1 research reactors

\*BT1 thermal reactors

**GIGA BQ RANGE**

2012-05-31

BT1 radioactivity range

**GIGA GY RANGE**

2014-06-27

\*BT1 absorbed dose range

**GIGAWATT POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-08-10

BT1 power range

NT1 power range 01-10 gw

NT1 power range 10-100 gw

NT1 power range 100-1000 gw

**gigily oil**

USE sesame oil

**GILLS**

BT1 respiratory system

RT fishes

**gingelly oil**

USE sesame oil

**ginger**

INIS: 1996-04-26; ETDE: 1996-05-03

USE spices

**gingily oil**

USE sesame oil

**GINNA-1 REACTOR**

Rochester Gas and Electric Corp., Ontario, New York, USA.

UF robert e. ginna-1 reactor

\*BT1 pwr type reactors

**GINNA-2 REACTOR**

Ontario, New York, USA. Unit never ordered.

UF robert e. ginna-2 reactor

\*BT1 power reactors

**GINZBURG-LANDAU THEORY**

UF maki parameter

RT coherence length

RT penetration depth

RT superconductivity

**GINZBURG-PITAEVSKII THEORY**

UF landau-ginzburg-pitaevskii theory

RT superfluidity

**GIRBOTOL PROCESS**

2000-04-12

\*BT1 desulfurization

**girdler-girbotol process**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE desulfurization

**GIROMILL TURBINES**

INIS: 2000-04-12; ETDE: 1977-06-02

Vertical axis turbines with vertical blades which change orientation with increased speed.

\*BT1 vertical axis turbines

**gis**

2003-05-30

USE geographic information systems

**gkn-1 reactor (neckar)**

1979-11-02

USE neckar-1 reactor

**gkn-2 reactor (neckar)**

INIS: 2000-04-12; ETDE: 1979-11-23

USE neckar-2 reactor

**gkn reactor (dodewaard)**

USE dodewaard reactor

**gkn reactor (neckar)**

2000-04-12

SEE neckar-1 reactor

SEE neckar-2 reactor

**GKT PROCESS**

INIS: 2000-04-12; ETDE: 1982-03-10

Process developed by Gesellschaft fuer Kohle-Technologie in which coal dust/oxygen/steam mixture reacts rapidly to form synthesis gas.

\*BT1 coal gasification

**GLACIERS**

RT antarctic regions

RT arctic regions

RT cryosphere

RT hydrosphere

RT ice

RT ice caps

RT pleistocene epoch

RT snow

RT water

**GLANDS**

UF sebaceous glands

UF sweat glands

\*BT1 organs

NT1 endocrine glands

NT2 adrenal glands

NT2 pancreas

NT2 parathyroid glands

NT2 pituitary gland

NT2 thyroid

NT1 liver

NT1 mammary glands

NT1 pineal gland

NT1 prostate

NT1 salivary glands

RT adenomas

RT excretion

RT secretion

**glasgow utr-100 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE srcc-utr-100 reactor

**GLASS**

A hard, amorphous, brittle substance made by fusing silicates, sometimes borates and phosphates, with basic oxides and then rapidly cooling.

NT1 borophosphate glass

NT1 borosilicate glass

NT2 pyrex

NT1 phosphate glass

RT ceramics

RT colorimetric dosimeters

RT dielectric track detectors

RT double glazing

RT fiberglass

RT glass industry

RT glazing materials

RT metallic glasses

RT perlite

RT phase diagrams

RT phase transformations

RT silicon oxides

RT solids

RT triple glazing

RT vitrification

RT vycor

**glass development laser facility**

INIS: 1993-11-08; ETDE: 1986-02-04

At University of Rochester.

USE gdl facility

**glass dosimeters**

USE rpl dosimeters

**GLASS INDUSTRY**

INIS: 1994-09-13; ETDE: 1977-06-02

BT1 industry

RT beverage industry

RT glass

**glass melters**

INIS: 2000-04-12; ETDE: 1980-12-08

USE ceramic melters

**GLASS SCINTILLATORS**

BT1 phosphors

RT luminescent dosimeters

RT solid scintillation detectors

**glassy alloys**

INIS: 1984-01-18; ETDE: 2002-06-13

USE metallic glasses

**glassy metals**

INIS: 1984-01-18; ETDE: 1983-02-09

USE metallic glasses

**GLAUBER THEORY**

RT fsc approximation

RT multiple scattering

RT scattering

**glauber's salt**

INIS: 2000-04-12; ETDE: 1979-11-07

USE sodium sulfates

**GLAZES**

BT1 coatings

RT ceramics

**glazing**

INIS: 2000-04-12; ETDE: 1983-03-23

A covering of transparent or translucent materials used for admitting light.

(Prior to April 1997 this was a valid ETDE descriptor.)

USE glazing materials

**GLAZING MATERIALS**

INIS: 1992-08-19; ETDE: 1978-04-06

Transparent or translucent materials such as glass or glass substitutes.

UF glazing

BT1 materials

RT building materials

RT coverings

RT double glazing

RT fiberglass

RT glass

RT heat mirrors

RT polyethylenes

RT polyvinyls

RT skylights

RT triple glazing

RT windows

**GLEEP REACTOR**

UKAEA Atomic Energy Research Establishment, Harwell, United Kingdom.

UF graphite low-energy experimental pile

\*BT1 air cooled reactors

\*BT1 graphite moderated reactors

\*BT1 materials testing reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**GLEN DAVIS FACILITY**

2000-04-12

\*BT1 oil shale processing plants

RT new south wales

**glioblastomas**

ETDE: 2002-06-13

USE gliomas

**GLIOMAS**

INIS: 1986-12-18; ETDE: 1981-01-12

UF glioblastomas

\*BT1 neoplasms

\*BT1 nervous system diseases

NT1 astrocytomas

**GLOBAL ANALYSIS**

*Studies mathematical manifolds with topology which is locally Euclidean but globally non-Euclidean.*

BT1 mathematics

RT topology

**GLOBAL ASPECTS**

UF global risk

SF world

RT contamination

RT earth atmosphere

RT fallout

RT globalization

RT pollution

RT waste disposal

**global climate change**

INIS: 1992-01-08; ETDE: 1991-10-28

USE climatic change

**GLOBAL FALLOUT**

UF world-wide fallout

BT1 fallout

RT nuclear explosions

RT stratosphere

RT tropopause

**GLOBAL POSITIONING SYSTEM**

2004-08-30

UF gps

RT coordinates

RT navigational instruments

RT positioning

RT satellites

**global risk**

USE global aspects

USE hazards

**global temperature**

INIS: 1993-07-06; ETDE: 2002-06-13

USE ambient temperature

**global warming**

INIS: 2000-04-12; ETDE: 1991-05-17

USE greenhouse effect

**GLOBALIZATION**

2004-08-30

RT economy

RT global aspects

RT market

RT trade

**GLOBINS**

INIS: 1982-12-08; ETDE: 1990-10-09

(The form GLOBIN was used by INIS prior to January 1983 and by ETDE prior to October 1990.)

\*BT1 proteins

NT1 hemoglobin

NT2 methemoglobin

NT1 myoglobin

**GLOBULINS**

UF c-reactive protein

\*BT1 proteins

NT1 angiotensin

NT1 fibrinogen

NT1 globulins-alpha

NT2 ceruloplasmin

NT2 haptoglobins

NT1 globulins-beta

NT2 transferrin

NT1 globulins-gamma

NT1 immunoglobulins

NT1 lactoferrin

NT1 myosin

NT1 thyroglobulin

**GLOBULINS-ALPHA**

\*BT1 globulins

NT1 ceruloplasmin

NT1 haptoglobins

**GLOBULINS-BETA**

\*BT1 globulins

NT1 transferrin

**GLOBULINS-GAMMA**

\*BT1 globulins

**GLOBUS-M SPHEROMAK**

INIS: 1999-07-26; ETDE: 1999-09-03

Ioffe Institute, St. Petersburg, Russia.

\*BT1 spheromak devices

**GLOMERULI**

\*BT1 kidneys

RT capillaries

RT renal clearance

RT tubules

RT ultrafiltration

**glossaries**

INIS: 1994-09-29; ETDE: 1976-11-01

USE dictionaries

**GLOSSINA**

UF tsetse fly

\*BT1 flies

RT disease vectors

RT trypanosoma

**GLOVEBOXES**

\*BT1 laboratory equipment

RT containment

RT gloves

RT hot cells

RT leaks

RT radiation protection

RT remote handling

RT shielding

**GLOVES**

\*BT1 protective clothing

RT gloveboxes

RT hands

RT radiation protection

RT shielding

RT skin

RT skin absorption

**GLOW CURVE**

RT luminescence

**GLOW-DISCHARGE ION SOURCES**

2018-02-26

\*BT1 plasma ion sources

**GLOW DISCHARGES**

BT1 electric discharges

**GLUCAGON**

\*BT1 peptide hormones

\*BT1 polypeptides

RT glucose

RT metabolism

RT pancreas

**GLUCOCORTICOIDS**

\*BT1 corticosteroids

NT1 corticosterone

NT1 cortisone

NT1 dexamethasone

NT1 hydrocortisone

NT1 prednisolone

NT1 prednisone

RT acth

RT immunosuppression

**GLUCOHEPTONATE**

INIS: 2000-04-12; ETDE: 1978-06-14

\*BT1 carboxylic acid esters

**GLUCONIC ACID**

UF dextronic acid

UF glyconic acid

UF glykogenic acid

\*BT1 hydroxy acids

RT monosaccharides

**GLUCOPROTEINS**

1975-08-20

\*BT1 glycoproteins

NT1 lactoferrin

NT1 ovalbumin

RT golgi complexes

RT post-translation modification

**GLUCOSAMINE**

\*BT1 hexosamines

RT chitin

**GLUCOSE**

\*BT1 aldehydes

\*BT1 hexoses

RT fluorodeoxyglucose

RT glucagon

RT insulin

RT uridine diphosphoglucose

**GLUCOSIDASE**

INIS: 1992-02-03; ETDE: 1981-01-30

\*BT1 o-glycosyl hydrolases

**GLUCURONIC ACID**

\*BT1 aldehydes

\*BT1 hydroxy acids

RT glucuronidase

RT glucuronide conjugates

RT hyaluronic acid

RT pectins

**GLUCURONIDASE**

Code number 3.2.1.31.

\*BT1 o-glycosyl hydrolases

RT glucuronic acid

**GLUCURONIDE CONJUGATES**

INIS: 2000-04-12; ETDE: 1985-09-24

*Water soluble conjugates of many foreign substances are formed by condensation with glucuronic acid. This conjugation precedes and facilitates the elimination of the foreign substance from the organism.*

BT1 metabolites

RT biliary tract

RT excretion

RT glucuronic acid

RT glutathione conjugates

RT sulfates

**GLUEBALLS**

INIS: 1983-10-14; ETDE: 1983-03-07

Bound states of gluons.

UF gluonium

RT bound state

RT color model

RT gluon model

RT gluons

**GLUINOS**

2013-08-26

\*BT1 sparticles

RT gluons

**GLUON CONDENSATION**

*INIS: 1989-04-20; ETDE: 1989-05-11*

- RT* gluons  
*RT* quantum operators  
*RT* vacuum states

**GLUON-GLUON INTERACTIONS**

*INIS: 1988-11-16; ETDE: 1988-12-02*

- \*BT1 particle interactions  
*RT* gluons  
*RT* quantum chromodynamics

**GLUON MODEL**

- UF* massive vector-meson model  
*SF* parton model  
 \*BT1 particle models  
*RT* glueballs  
*RT* gluons  
*RT* quantum chromodynamics  
*RT* vector mesons

**gluonium**

*INIS: 1983-10-14; ETDE: 1983-03-07*

- USE glueballs

**GLUONS**

*INIS: 1979-01-18; ETDE: 1979-02-23*

- SF* partons  
 BT1 bosons  
*RT* glueballs  
*RT* gluinos  
*RT* gluon condensation  
*RT* gluon-gluon interactions  
*RT* gluon model  
*RT* quantum chromodynamics  
*RT* quark-gluon interactions  
*RT* quark matter  
*RT* vector mesons

**GLUTAMIC ACID**

- UF* aminoglutamic acid-alpha  
 \*BT1 amino acids  
 NT1 pyridoxylidene-glutamate  
*RT* glutamine  
*RT* glutaric acid

**GLUTAMINE**

- \*BT1 amides  
 \*BT1 amino acids  
*RT* glutamic acid

**GLUTARIC ACID**

- \*BT1 dicarboxylic acids  
*RT* glutamic acid

**GLUTATHIONE**

- \*BT1 polypeptides  
 \*BT1 radioprotective substances  
*RT* glutathione conjugates

**GLUTATHIONE CONJUGATES**

*INIS: 2000-04-12; ETDE: 1985-09-24*

*Water soluble conjugates of many foreign substances are formed by condensation with glutathione. This conjugation precedes and facilitates the elimination of the foreign substance from the organism.*

- BT1 metabolites  
*RT* biliary tract  
*RT* excretion  
*RT* glucuronide conjugates  
*RT* glutathione  
*RT* sulfates

**GLUTIN**

- \*BT1 scleroproteins

**GLYCERIC ACID**

- UF* dihydroxypropionic acid  
 \*BT1 hydroxy acids

**glycerin**

- USE glycerol

**GLYCEROL**

1996-10-22

- UF* 1,2,3-propanetriol  
*UF* glycerin  
 \*BT1 alcohols  
*RT* lecithins  
*RT* lugol  
*RT* nitroglycerin  
*RT* triglycerides

**glyceryl trioleate**

- USE triolein

**glycides**

- USE saccharides

**GLYCINE**

- UF* aminoacetic acid  
*UF* glycocoll  
 \*BT1 amino acids  
*RT* glycyglycine  
*RT* hippuric acid  
*RT* sarcosine

**GLYCINE HISPIDA**

- UF* soybean plant  
 \*BT1 leguminosae  
*RT* forage  
*RT* soybeans

**glycocoll**

- USE glycine

**GLYCOGEN**

- \*BT1 polysaccharides  
*RT* liver

**glycol monoalkyl ethers**

- USE cellosolves

**GLYCOLIC ACID**

- UF* hydroxyacetic acid  
 \*BT1 hydroxy acids  
 \*BT1 monocarboxylic acids  
*RT* thionalide

**GLYCOLIPIDS**

- \*BT1 lipids  
 \*BT1 saccharides  
 NT1 cerebrosides  
 NT1 gangliosides  
*RT* golgi complexes

**GLYCOLS**

1996-06-26

- UF* 1,2-ethanediol  
*UF* benzopinacol  
*UF* carbitols  
*UF* diglycol monoalkyl ethers  
*UF* diols  
 \*BT1 alcohols  
 NT1 butanediols  
 NT1 cellosolves  
 NT1 egta  
 NT1 ethylene glycols  
 NT2 polyethylene glycols  
 NT3 carbowax  
 NT3 pluronics  
 NT1 pinacol  
*RT* dacron  
*RT* mylar

**GLYCOLYSIS**

- \*BT1 decomposition  
 BT1 metabolism  
*RT* carbohydrates  
*RT* catabolism  
*RT* enzymes  
*RT* saccharides

**glyconic acid**

- USE gluconic acid

**GLYCOPROTEINS**

1975-11-27

- \*BT1 proteins  
 \*BT1 saccharides  
 NT1 avidin  
 NT1 glucoproteins  
 NT2 lactoferrin  
 NT2 ovalbumin  
 NT1 luteinizing hormone  
*RT* mucopolysaccharides  
*RT* mucoproteins  
*RT* post-translation modification

**GLYCOSIDES**

1996-10-23

- UF* hesperidin  
*UF* phloredzin  
*UF* phlorhizin  
*UF* phlorizin  
 \*BT1 carbohydrates  
 NT1 cardiac glycosides  
 NT2 digitalis glycosides  
 NT3 digitoxin  
 NT3 digoxin  
 NT2 strophanthins  
 NT3 ouabain  
 NT1 saponins  
 NT1 strophanthin  
 NT1 uridine diphosphoglucose  
*RT* lignin  
*RT* quercetin

**glycosuria**

1996-06-28

(Until June 1996 this was a valid descriptor.)

- USE metabolic diseases  
 USE urogenital system diseases

**GLYCOSYL HYDROLASES**

Code number 3.2.

- \*BT1 hydrolases  
 NT1 o-glycosyl hydrolases  
 NT2 amylase  
 NT2 cellulase  
 NT2 galactosidase  
 NT2 glucosidase  
 NT2 glucuronidase  
 NT2 hyaluronidase  
 NT2 lysozyme  
 NT2 xylanase

**GLYCOSYL TRANSFERASES**

*INIS: 1982-06-09; ETDE: 1981-06-13*

Code number 2.4.

- \*BT1 transferases  
 NT1 hexosyl transferases  
 NT1 pentosyl transferases  
 NT2 hypoxanthine phosphoribosyltransferase

**GLYCYLGLYCINE**

2000-04-05

- \*BT1 amino acids  
 \*BT1 peptides  
*RT* glycine

**glykogenic acid**

- USE gluconic acid

**GLYOXAL**

- UF* 1,2-ethanedial  
*UF* oxalaldehyde  
 \*BT1 aldehydes

**GLYOXYLIC ACID**

- UF* oxoacetic acid  
 \*BT1 aldehydes  
 \*BT1 carboxylic acids



**GNEISSES**

*INIS: 1984-02-22; ETDE: 1980-08-12*

\*BT1 metamorphic rocks

**GNOME EVENT**

BT1 plowshare project  
BT1 vela project

**gnothobionts**

USE germ-free animals

**GOATS**

\*BT1 domestic animals  
\*BT1 ruminants

**gobar gas**

*INIS: 2000-04-12; ETDE: 1975-10-01*

(Prior to March 1983 this concept in ETDE was indexed by INTERMEDIATE BTU GAS.)

USE intermediate btu gas  
USE methane

**GODIVA REACTOR**

*LANL, Los Alamos, New Mexico, USA.*

\*BT1 zero power reactors

**GOES SATELLITES**

*INIS: 1983-03-15; ETDE: 1980-04-14*

UF geostationary operational environmental satellite

BT1 satellites  
RT geologic surveys  
RT remote sensing

**GOESGEN REACTOR**

*Daeniken, Soleure, Switzerland.*

UF kernkraftwerk goesgen-daeniken  
\*BT1 pwr type reactors

**GOETHITE**

*INIS: 1992-09-03; ETDE: 1984-02-10*

\*BT1 oxide minerals  
RT iron oxides  
RT limonite

**goiania radiological emergency**

*INIS: 1988-08-02; ETDE: 2002-06-13*

*Goiania, Goias, Brazil.*

USE brazil  
USE radiation accidents

**GOITER**

\*BT1 endocrine diseases  
RT hyperthyroidism  
RT hypothyroidism  
RT thyroid

**GOL-3 DEVICE**

*INIS: 1999-07-26; ETDE: 1999-09-03*

*Budker Institute for Nuclear Physics, Novosibirsk, Russia.*

\*BT1 magnetic mirrors

**GOLD**

\*BT1 transition elements

**GOLD 169**

*2007-10-22*

\*BT1 gold isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

**GOLD 170**

*INIS: 2003-01-03; ETDE: 2002-12-26*

\*BT1 gold isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 proton decay radioisotopes

**GOLD 171**

*2003-06-26*

\*BT1 alpha decay radioisotopes  
\*BT1 gold isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 proton decay radioisotopes

**GOLD 172**

*1994-04-11*

\*BT1 alpha decay radioisotopes  
\*BT1 gold isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**GOLD 173**

*1983-09-01*

\*BT1 alpha decay radioisotopes  
\*BT1 gold isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**GOLD 174**

*1983-09-01*

\*BT1 alpha decay radioisotopes  
\*BT1 gold isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**GOLD 175**

*ETDE: 1975-08-19*

\*BT1 alpha decay radioisotopes  
\*BT1 gold isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**GOLD 176**

*ETDE: 1975-08-19*

\*BT1 alpha decay radioisotopes  
\*BT1 gold isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**GOLD 177**

\*BT1 alpha decay radioisotopes  
\*BT1 gold isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**GOLD 178**

\*BT1 alpha decay radioisotopes  
\*BT1 gold isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**GOLD 179**

\*BT1 alpha decay radioisotopes  
\*BT1 gold isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**GOLD 180**

\*BT1 electron capture radioisotopes  
\*BT1 gold isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**GOLD 181**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 gold isotopes  
\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**GOLD 182**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 gold isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**GOLD 183**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 gold isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**GOLD 184**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 gold isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**GOLD 185**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 gold isotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**GOLD 186**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 gold isotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**GOLD 187**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 gold isotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**GOLD 187 TARGET**

*INIS: 1978-11-24; ETDE: 1978-12-20*

BT1 targets

**GOLD 188**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 gold isotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**GOLD 189**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 gold isotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**GOLD 190**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 gold isotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**GOLD 191**

\*BT1 electron capture radioisotopes

- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**GOLD 192**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**GOLD 193**

- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GOLD 193 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
BT1 targets

**GOLD 194**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei

**GOLD 194 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
BT1 targets

**GOLD 195**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GOLD 195 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
BT1 targets

**GOLD 196**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 196 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
BT1 targets

**GOLD 197**

- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**GOLD 197 BEAMS**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
\*BT1 ion beams

**GOLD 197 REACTIONS**

*INIS: 1984-06-21; ETDE: 1984-07-10*  
\*BT1 heavy ion reactions

**GOLD 197 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**GOLD 198**

- \*BT1 beta-minus decay radioisotopes
  - \*BT1 days living radioisotopes
  - \*BT1 gold isotopes
  - \*BT1 heavy nuclei
  - \*BT1 isomeric transition isotopes
  - \*BT1 odd-odd nuclei
- RT* radiocolloids

**GOLD 198 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
BT1 targets

**GOLD 199**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei

**GOLD 199 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
BT1 targets

**GOLD 200**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**GOLD 201**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**GOLD 202**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 203**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GOLD 204**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 205**

*1994-04-11*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 gold isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**GOLD ADDITIONS**

*2000-04-05*  
*Alloys containing not more than 1% Au are listed here.*  
\*BT1 gold alloys

**GOLD ALLOYS**

*1995-02-27*  
*Alloys containing more than 1% Au.*  
\*BT1 transition element alloys

- NT1 gold additions
- NT1 gold base alloys
- NT2 palau

**GOLD BASE ALLOYS**

- \*BT1 gold alloys
- NT1 palau

**GOLD BROMIDES**

- \*BT1 bromides
- \*BT1 gold halides

**GOLD CHLORIDES**

- \*BT1 chlorides
- \*BT1 gold halides

**GOLD COMPLEXES**

- \*BT1 transition element complexes

**GOLD COMPOUNDS**

*1997-06-17*  
*UF aurates*  
BT1 transition element compounds  
NT1 gold halides  
NT2 gold bromides  
NT2 gold chlorides  
NT2 gold fluorides  
NT2 gold iodides  
NT1 gold hydrides  
NT1 gold oxides  
NT1 gold silicides  
NT1 gold tellurides

**GOLD FLUORIDES**

- \*BT1 fluorides
- \*BT1 gold halides

**GOLD HALIDES**

*2012-07-19*  
\*BT1 gold compounds  
\*BT1 halides  
NT1 gold bromides  
NT1 gold chlorides  
NT1 gold fluorides  
NT1 gold iodides

**GOLD HYDRIDES**

*1978-11-24*  
\*BT1 gold compounds  
\*BT1 hydrides

**GOLD IODIDES**

- \*BT1 gold halides
- \*BT1 iodides

**GOLD IONS**

- \*BT1 ions

**GOLD ISOTOPES**

*1999-07-16*  
BT1 isotopes  
NT1 gold 169  
NT1 gold 170  
NT1 gold 171  
NT1 gold 172  
NT1 gold 173  
NT1 gold 174  
NT1 gold 175  
NT1 gold 176  
NT1 gold 177  
NT1 gold 178  
NT1 gold 179  
NT1 gold 180

NT1 gold 181  
 NT1 gold 182  
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 NT1 gold 191  
 NT1 gold 192  
 NT1 gold 193  
 NT1 gold 194  
 NT1 gold 195  
 NT1 gold 196  
 NT1 gold 197  
 NT1 gold 198  
 NT1 gold 199  
 NT1 gold 200  
 NT1 gold 201  
 NT1 gold 202  
 NT1 gold 203  
 NT1 gold 204  
 NT1 gold 205

**GOLD ORES**

BT1 ores

**GOLD OXIDES**

1996-07-16

\*BT1 gold compounds  
 \*BT1 oxides

**GOLD SILICIDES**

INIS: 1985-01-17; ETDE: 1975-12-16

\*BT1 gold compounds  
 \*BT1 silicides

**GOLD TELLURIDES**

INIS: 2000-04-12; ETDE: 1975-11-28

\*BT1 gold compounds  
 \*BT1 tellurides

**GOLDBERGER MODEL**

UF serber-goldberger model  
 \*BT1 nuclear models

**GOLDBERGER-TREIMAN RELATION**

RT coupling  
 RT pions  
 RT quantum field theory  
 RT weak interactions

**GOLDFISH**

UF carassius  
 \*BT1 fishes

**goldhaber-teller model**

USE giant resonance model

**GOLDSTONE BOSONS**

Massless particles occurring in certain broken-symmetry theories.

BT1 bosons  
 \*BT1 postulated particles  
 NT1 axions  
 NT1 majorons  
 RT invariance principles  
 RT su groups

**GOLDSTONE DIAGRAMS**

UF brueckner approximation  
 UF brueckner-goldstone theory  
 UF brueckner-sawada theory  
 UF sawada method  
 \*BT1 diagrams  
 RT many-body problem

**GOLFECH-1 REACTOR**

INIS: 1984-07-23; ETDE: 1984-09-05  
 Electricite de France, Golfech, Tarn-et-Garonne, France  
 \*BT1 pwr type reactors

**GOLFECH-2 REACTOR**

1995-06-29  
 Electricite de France, Golfech, Tarn-et-Garonne, France  
 \*BT1 pwr type reactors

**golgi apparatus**

USE golgi complexes

**golgi bodies**

INIS: 2000-04-12; ETDE: 1991-08-21  
 USE golgi complexes

**GOLGI COMPLEXES**

INIS: 1999-04-20; ETDE: 1991-08-21  
 (Until August 1994 this concept was indexed to ORGANOID(S).)

UF dictyosomes  
 UF golgi apparatus  
 UF golgi bodies  
 UF organoids  
 BT1 cell constituents  
 RT cell membranes  
 RT endoplasmic reticulum  
 RT glucoproteins  
 RT glycolipids  
 RT lysosomes  
 RT post-translation modification

**GONADOTROPINS**

\*BT1 pituitary hormones  
 NT1 fsh  
 NT1 hcg  
 NT1 lth  
 NT1 luteinizing hormone  
 RT gonads

**GONADS**

NT1 ovaries  
 NT1 testes  
 RT castration  
 RT endocrine glands  
 RT female genitals  
 RT fertility  
 RT gametogenesis  
 RT genetic effects  
 RT germ cells  
 RT gonadotropins  
 RT hcg  
 RT male genitals  
 RT pelvis  
 RT reproduction  
 RT sex

**GONDWANA**

INIS: 2000-04-12; ETDE: 1989-09-08  
 RT plate tectonics

**GONIOMETERS**

BT1 measuring instruments

**GONORRHEA**

INIS: 1976-06-23; ETDE: 1976-08-24  
 \*BT1 bacterial diseases  
 \*BT1 urogenital system diseases

**GOODS AND SERVICES**

INIS: 2000-04-12; ETDE: 1983-03-23  
 Includes personal property, actions, and services, as distinguished from real property.  
 RT procurement

**GORKOV-ELIASHBERG THEORY**

INIS: 1977-07-05; ETDE: 1976-01-07  
 Theory of gapless superconductivity arising from magnetic impurities.  
 UF eliasberg equations  
 RT superconductivity

**GORLEBEN SALT DOME**

INIS: 1989-11-24; ETDE: 1989-12-08  
 \*BT1 radioactive waste facilities  
 RT high-level radioactive wastes  
 RT salt caverns  
 RT salt deposits  
 RT underground disposal

**gosatomnadzor**

INIS: 1997-08-08; ETDE: 1977-06-03  
 (Until July 1997 this was a valid descriptor.)  
 USE gosatomnadzor rossii

**GOSATOMNADZOR ROSSII**

1997-08-08  
 Until July 1997 this was known as GOSATOMNADZOR.  
 UF gosatomnadzor  
 UF nuclear and radiation safety federal authority of russia  
 UF russian state nuclear and radiation safety authority  
 \*BT1 russian organizations

**GOVERNMENT BUILDINGS**

INIS: 1994-10-03; ETDE: 1993-01-20  
 (Until September 1994 this concept was indexed to FEDERAL BUILDINGS.)

UF federal buildings

BT1 buildings  
 RT military facilities  
 RT office buildings  
 RT public buildings

**government industry data exchange program (gidep)**

INIS: 2000-04-12; ETDE: 1984-11-09  
 SEE data acquisition

**GOVERNMENT POLICIES**

1998-01-28  
 (From August 1979 till March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)

SF legal incentives

SF policy

NT1 economic policy

NT1 energy policy

NT2 national energy plans

NT3 us national energy plan

NT2 project independence

NT1 environmental policy

NT2 emissions trading

NT2 water policy

NT1 foreign policy

RT deregulation

RT implementation

RT institutional factors

RT local government

RT national government

RT nationalization

RT non-proliferation policy

RT nuclear power phaseout

RT planning

RT political aspects

RT public enterprises

RT public officials

RT public policy

RT regional cooperation

RT regulations

RT state government

RT territorial waters

RT us federal assistance programs

RT us national program plans

**government spending**

INIS: 2000-04-12; ETDE: 1980-08-25

Coordinate the descriptor below with one for the level of government involved, e.g. NATIONAL GOVERNMENT.

(Prior to February 1997 FEDERAL EXPENDITURES was used for this concept.)  
USE expenditures

**GOVERNOR MODEL**

\*BT1 shell models  
RT cranking model  
RT deformed nuclei  
RT fission

**governors**

INIS: 2000-04-12; ETDE: 1979-11-23

USE state officials

**gps**

2004-08-30

USE global positioning system

**GRABEN-1 REACTOR**

\*BT1 bwr type reactors

**GRABEN-2 REACTOR**

2000-04-12

\*BT1 bwr type reactors

**GRABS**

\*BT1 materials handling equipment  
RT hoists  
RT materials handling

**grace particles**

INIS: 1978-08-14; ETDE: 1978-10-19

Flavor of quarks proposed in certain  $U(3)$  gauge theories of electroweak interactions.

(This was a valid descriptor from August 1978 to March 2006.)

SEE quarks

**GRAD-SHAFRANOV EQUATION**

INIS: 1983-10-14; ETDE: 1983-11-09

\*BT1 partial differential equations  
RT mercier criterion  
RT plasma  
RT transport theory

**graded band gap solar cells**

INIS: 1992-05-28; ETDE: 1981-07-18

USE cascade solar cells

**GRADED BAND GAPS**

INIS: 1992-05-28; ETDE: 1978-12-11

RT band theory  
RT cascade solar cells  
RT semiconductor materials  
RT solar cells

**GRADED LIE GROUPS**

INIS: 1978-11-24; ETDE: 1978-12-20

Lie groups defined by an algebraic structure which contains commutation and anticommutation relations.

UF lie superalgebra  
\*BT1 lie groups  
RT algebra  
RT supergravity  
RT supersymmetry

**GRAFENRHEINFELD REACTOR**

Schweinfurt, Germany. Permanent shutdown since 2015.

\*BT1 pwr type reactors

**GRAFT-HOST REACTION**

RT antigen-antibody reactions  
RT grafts  
RT histocompatibility complex  
RT host

RT immunity

RT transplants

**GRAFT POLYMERS**

\*BT1 organic polymers  
RT ion exchange materials

**GRAFTS**

BT1 transplants  
RT graft-host reaction  
RT radioimmunology

**grain alcohol**

USE ethanol

**GRAIN BOUNDARIES**

UF boundaries (grain)  
BT1 microstructure  
RT dislocation pinning  
RT grain growth  
RT intergranular corrosion

**GRAIN DENSITY**

UF density (grain)  
BT1 microstructure  
RT granular materials

**GRAIN DISINFESTATION**

BT1 disinfestation  
RT agriculture  
RT cereals  
RT fumigants  
RT insects  
RT pesticides  
RT preservation  
RT radiodisinfestation  
RT sterilization

**GRAIN GROWTH**

UF growth (grain)  
RT crystal growth  
RT grain boundaries  
RT grain refinement  
RT grain size  
RT recrystallization

**GRAIN ORIENTATION**

UF orientation (grain)  
UF preferred orientation  
BT1 microstructure  
BT1 orientation  
RT texture

**GRAIN REFINEMENT**

UF refinement (grain)  
RT grain growth  
RT grain size  
RT heat treatments

**GRAIN SIZE**

See also PARTICLE SIZE.

BT1 microstructure  
BT1 size  
RT grain growth  
RT grain refinement  
RT granular materials

**grains (cereal)**

USE cereals  
USE seeds

**GRAMINEAE**

ETDE: 1991-07-01

(Prior to December 1984 this was a valid ETDE descriptor. From December 1984 to July 1991 this concept in ETDE was indexed to GRASS.)

UF grass  
\*BT1 liliopsida  
NT1 bamboo  
NT1 cereals  
NT2 barley  
NT2 maize

NT2 millet

NT2 oats

NT2 rice

NT2 rye

NT2 sorghum

NT2 wheat

NT1 reeds

NT2 sugar cane

NT1 switchgrass

RT cattle

RT forage

RT ground cover

RT pastures

RT preferred species

RT weeds

**GRAN SASSO NATIONAL LABORATORY**

2016-12-12

UF laboratori nazionali del gran sasso

RT borexino detector

RT infn

**grand accélérateur national d'ions lourds**

INIS: 1976-07-30; ETDE: 2002-06-13

USE ganil cyclotron

**GRAND GULF-1 REACTOR**

Energy Operations, Inc., Port Gibson, Mississippi, USA.

\*BT1 bwr type reactors

**GRAND GULF-2 REACTOR**

Energy Operations, Inc., Port Gibson, Mississippi, USA. Canceled in 1990 after construction began (1974).

\*BT1 bwr type reactors

**GRAND RIVER**

INIS: 1992-06-04; ETDE: 1981-01-27

\*BT1 rivers

RT hydroelectric power

RT michigan

**grand unification**

INIS: 1983-12-01; ETDE: 2002-06-13

USE grand unified theory

**GRAND UNIFIED THEORY**

INIS: 1995-08-10; ETDE: 1984-01-27

Gauge field theory to unify electromagnetic, weak and strong interactions. For unified theories involving gravitation see UNIFIED-FIELD THEORIES.

UF grand unification

\*BT1 unified gauge models

NT1 standard model

RT electromagnetic interactions

RT quantum chromodynamics

RT so-10 groups

RT strong interactions

RT su-5 groups

RT unified field theories

RT weak interactions

RT weinberg-salam gauge model

**GRANITES**

\*BT1 plutonic rocks

NT1 aplites

NT1 granodiorites

NT1 quartz monzonite

RT biotite

RT feldspars

RT hornblende

RT pegmatites

RT quartz

RT rhyolites

RT xenotime

**GRANODIORITES**

\*BT1 granites  
 RT feldspars  
 RT quartz

**grants**

*INIS: 1985-01-17; ETDE: 1978-02-14*  
*Things bestowed or transferred, such as money or land, for particular purposes.*  
 (Prior to February 1997 this was a valid ETDE descriptor.)  
 USE financing

**GRANULAR BED FILTERS**

*INIS: 1999-07-29; ETDE: 1978-06-14*  
 (Until July 1999 this concept was indexed by MECHANICAL FILTERS.)  
 \*BT1 mechanical filters  
 RT pollution control equipment

**GRANULAR MATERIALS**

*INIS: 1982-09-21; ETDE: 1979-11-23*  
*For unspecified materials having a granular texture.*  
 BT1 materials  
 RT grain density  
 RT grain size  
 RT particles  
 RT powders

**GRANULATION**

2006-02-08  
*Process of producing particles of grain-like structure from solid substances.*  
 BT1 fabrication  
 RT agglomeration

**granulation (solar)**

USE solar granulation

**GRANULITES**

*INIS: 2000-04-12; ETDE: 1980-08-12*  
 \*BT1 metamorphic rocks

**granulocytes**

USE leukocytes

**GRANULOMAS**

\*BT1 neoplasms  
 RT infectious diseases  
 RT inflammation  
 RT pathological changes

**GRAPEFRUITS**

\*BT1 fruits  
 RT citrus

**GRAPES**

\*BT1 fruits

**GRAPH THEORY**

2002-09-10  
*SF graphs*  
 BT1 mathematics  
 RT mathematical manifolds  
 RT mathematical space  
 RT measure theory  
 RT topological mapping  
 RT topology

**GRAPHENE**

2012-11-28  
 \*BT1 carbon  
 RT carbon nanotubes  
 RT fullerenes  
 RT graphite

**GRAPHICAL USER INTERFACE**

2017-11-01  
 RT equipment interfaces  
 RT man-machine systems  
 RT programming

**GRAPHITE**

*UF graphite moderator*  
 \*BT1 carbon  
 BT1 minerals  
 RT carbon fibers  
 RT graphene  
 RT graphitization  
 RT matrix materials  
 RT moderators  
 RT refractories  
 RT solid lubricants  
 RT wigner effect

**graphite fibers**

*INIS: 1983-03-15; ETDE: 1975-11-11*  
 USE carbon fibers

**graphite low-energy experimental pile**

1993-11-08  
 USE gleep reactor

**GRAPHITE MODERATED REACTORS**

1996-01-24  
*SF berkeley nuclear laboratory reactor*  
*SF bnl reactor*  
*SF smr reactor*  
*SF solid moderated reactor*  
 BT1 reactors  
 NT1 anna reactor  
 NT1 bepo reactor  
 NT1 bgrr reactor  
 NT1 bigr reactor  
 NT1 br-1 reactor  
 NT1 cesar reactor  
 NT1 cp-2 reactor  
 NT1 egr reactor  
 NT1 f-1 reactor  
 NT1 gcr type reactors  
 NT2 agr type reactors  
 NT3 connah quay-b reactor  
 NT3 dungeness-b reactor  
 NT3 hartlepool reactor  
 NT3 heysham-a reactor  
 NT3 heysham-b reactor  
 NT3 hinkley point-b reactor  
 NT3 hunterston-b reactor  
 NT3 torness reactor  
 NT3 wagr reactor  
 NT2 bugey-1 reactor  
 NT2 chinon-a1 reactor  
 NT2 chinon-a2 reactor  
 NT2 chinon-a3 reactor  
 NT2 g-1 reactor  
 NT2 g-2 reactor  
 NT2 g-3 reactor  
 NT2 magnox type reactors  
 NT3 berkeley reactor  
 NT3 bradwell reactor  
 NT3 calder hall a-1 reactor  
 NT3 calder hall a-2 reactor  
 NT3 calder hall b-3 reactor  
 NT3 calder hall b-4 reactor  
 NT3 chapelcross-1 reactor  
 NT3 chapelcross-2 reactor  
 NT3 chapelcross-3 reactor  
 NT3 chapelcross-4 reactor  
 NT3 dungeness-a reactor  
 NT3 hinkley point-a reactor  
 NT3 hunterston-a reactor  
 NT3 latina reactor  
 NT3 oldbury-a reactor  
 NT3 sizewell-a reactor  
 NT3 tokai-mura reactor  
 NT3 trawsfynydd reactor  
 NT3 wylfa reactor  
 NT2 saint laurent-a1 reactor  
 NT2 saint laurent-a2 reactor

NT2 vandellos reactor  
 NT1 gleep reactor  
 NT1 hector reactor  
 NT1 hero reactor  
 NT1 hew-305 reactor  
 NT1 hitrex-1 reactor  
 NT1 hnpf reactor  
 NT1 htgr type reactors  
 NT2 avr reactor  
 NT2 dragon reactor  
 NT2 fulton-1 reactor  
 NT2 fulton-2 reactor  
 NT2 ga standard reactor  
 NT2 htr-10 reactor  
 NT2 htr reactor  
 NT2 kahter reactor  
 NT2 peach bottom-1 reactor  
 NT2 schmehausen-2 reactor  
 NT2 summit-1 reactor  
 NT2 summit-2 reactor  
 NT2 thtr-300 reactor  
 NT2 vg-400 reactor  
 NT2 vgr-50 reactor  
 NT2 vhtr reactor  
 NT2 vidal-1 reactor  
 NT2 vidal-2 reactor  
 NT2 vrain reactor  
 NT1 hltr reactor  
 NT1 iea-zpr reactor  
 NT1 igr reactor  
 NT1 iowa utr-10 reactor  
 NT1 kuca reactor  
 NT1 lwgr type reactors  
 NT2 aps reactor  
 NT2 beloyarsk-1 reactor  
 NT2 beloyarsk-2 reactor  
 NT2 bilibin reactor  
 NT2 chernobylsk-1 reactor  
 NT2 chernobylsk-2 reactor  
 NT2 chernobylsk-3 reactor  
 NT2 chernobylsk-4 reactor  
 NT2 ignalina-1 reactor  
 NT2 ignalina-2 reactor  
 NT2 kursk-1 reactor  
 NT2 kursk-2 reactor  
 NT2 kursk-3 reactor  
 NT2 kursk-4 reactor  
 NT2 leningrad-1 reactor  
 NT2 leningrad-2 reactor  
 NT2 leningrad-3 reactor  
 NT2 leningrad-4 reactor  
 NT2 n-reactor  
 NT2 rpt reactor  
 NT2 smolensk-1 reactor  
 NT2 smolensk-2 reactor  
 NT2 smolensk-3 reactor  
 NT2 uwtr reactor  
 NT1 marius reactor  
 NT1 msre reactor  
 NT1 ntr reactor  
 NT1 pctr reactor  
 NT1 proteus reactor  
 NT1 rb-1 reactor  
 NT1 sgr type reactors  
 NT2 sre reactor  
 NT1 shca reactor  
 NT1 sr-305 reactor  
 NT1 treat reactor  
 NT1 uhtrex reactor  
 NT1 windscale production reactors  
 NT1 x-10 reactor  
 NT1 zenith reactor

**graphite moderator**

USE graphite

**GRAPHITIZATION**

*INIS: 1984-07-20; ETDE: 1975-11-11*  
 RT carbonization  
 RT crystal-phase transformations

RT graphite

### graphs

INIS: 2000-04-12; ETDE: 1979-03-29  
(Prior to December 1991 this was a valid ETDE descriptor.)  
SEE diagrams  
SEE graph theory

### grasers

INIS: 1981-04-03; ETDE: 1978-03-08  
USE gasers

### GRASHOF NUMBER

BT1 dimensionless numbers  
RT natural convection  
RT viscosity

### grass

(Prior to July 1991 this was a valid ETDE descriptor.)  
USE gramineae

### GRASSHOPPERS

\*BT1 orthoptera  
NT1 locusts

### grasslands

INIS: 2000-04-12; ETDE: 1982-12-23  
USE rangelands

### grates

INIS: 2000-04-12; ETDE: 1997-04-02  
USE gratings

### GRATINGS

INIS: 1984-01-18; ETDE: 1982-01-21  
Crossed arrays of metal ribs or wires. Not for SCREENS or INTAKE STRUCTURES. See also DIFFRACTION GRATINGS, for which concept this term was used till November 1989.  
UF grates  
RT diffraction  
RT furnaces  
RT screens  
RT waveguides

### GRAVELINES-1 REACTOR

2004-12-20  
Electricite de France, Gravelines, Nord, France  
(Prior to December 2004 GRAVELINES-B1 REACTOR was used for this reactor.)  
UF gravelines-b1 reactor  
\*BT1 pwr type reactors  
RT gravelines site

### GRAVELINES-2 REACTOR

2004-12-20  
Electricite de France, Gravelines, Nord, France  
UF gravelines-b2 reactor  
\*BT1 pwr type reactors  
RT gravelines site

### GRAVELINES-3 REACTOR

2004-12-20  
Electricite de France, Gravelines, Nord, France  
UF gravelines-b3 reactor  
\*BT1 pwr type reactors  
RT gravelines site

### GRAVELINES-4 REACTOR

2004-12-20  
Electricite de France, Gravelines, Nord, France  
UF gravelines-b4 reactor  
\*BT1 pwr type reactors  
RT gravelines site

### GRAVELINES-5 REACTOR

2004-12-20  
Electricite de France, Gravelines, Nord, France  
UF gravelines-c5 reactor  
\*BT1 pwr type reactors  
RT gravelines site

### GRAVELINES-6 REACTOR

2004-12-20  
Electricite de France, Gravelines, Nord, France  
(Prior to December 2004 GRAVELINES-C6 REACTOR was used for this reactor.)  
UF gravelines-c6 reactor  
\*BT1 pwr type reactors  
RT gravelines site

### gravelines-b1 reactor

INIS: 1980-02-26; ETDE: 1980-03-29  
Gravelines, Nord, France.  
(Prior to December 2004 this was a valid descriptor.)  
USE gravelines-1 reactor

### gravelines-b2 reactor

2010-08-17  
USE gravelines-2 reactor

### gravelines-b3 reactor

2010-08-17  
USE gravelines-3 reactor

### gravelines-b4 reactor

2010-08-17  
USE gravelines-4 reactor

### gravelines-c5 reactor

2010-08-17  
USE gravelines-5 reactor

### gravelines-c6 reactor

INIS: 1990-09-24; ETDE: 1990-10-09  
Gravelines, Nord, France.  
(Prior to December 2004 this was a valid descriptor.)  
USE gravelines-6 reactor

### GRAVELINES SITE

2004-12-20  
Gravelines, Nord, France.  
BT1 reactor sites  
RT gravelines-1 reactor  
RT gravelines-2 reactor  
RT gravelines-3 reactor  
RT gravelines-4 reactor  
RT gravelines-5 reactor  
RT gravelines-6 reactor

### gravichem process

INIS: 2000-04-12; ETDE: 1980-06-23  
Desulfurization process in which coal is mixed with ferric sulfate, which oxidizes pyritic sulfur to elemental sulfur.  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE desulfurization

### GRAVIMELT PROCESS

INIS: 2000-04-12; ETDE: 1980-08-25  
The chemical desulfurization of coal by reaction with an 80% molten caustic mixture with a 1:1 mole ratio of KOH and NaOH. The reaction occurs in a nickel reaction vessel at atmospheric pressure and 715 degrees F.  
\*BT1 desulfurization

### GRAVIMETRIC ANALYSIS

\*BT1 quantitative chemical analysis  
NT1 thermal gravimetric analysis

### GRAVIMETRY

1996-04-18  
For gravitation measurement only; see also GRAVIMETRIC ANALYSIS.  
RT acceleration  
RT gravitation  
RT gravity surveys

### GRAVITATION

RT einstein effect  
RT general relativity theory  
RT gravimetry  
RT gravitational fields  
RT gravitational interactions  
RT gravitational lenses  
RT gravity waves  
RT kaluza-klein theory  
RT quantum gravity  
RT schwarzschild metric  
RT supergravity  
RT twistor theory  
RT unified field theories  
RT weightlessness

### gravitational charges

INIS: 1975-08-22; ETDE: 2002-06-13  
USE fundamental constants  
USE gravitons

### GRAVITATIONAL COLLAPSE

UF collapse (gravitational)  
RT black holes  
RT neutron stars  
RT schwarzschild radius  
RT star evolution

### GRAVITATIONAL FIELDS

UF fields (gravitational)  
NT1 kerr field  
RT einstein effect  
RT einstein field equations  
RT einstein-maxwell equations  
RT equivalence principle  
RT general relativity theory  
RT gravitation  
RT gravitational interactions  
RT gravitational lenses  
RT gravitational radiation  
RT mass  
RT metrics  
RT potentials  
RT quantum gravity  
RT roche equipotentials  
RT uniton  
RT weyl unified theory

### GRAVITATIONAL INSTABILITY

2000-04-12  
\*BT1 plasma instability

### GRAVITATIONAL INTERACTIONS

\*BT1 fundamental interactions  
RT gravitation  
RT gravitational fields  
RT gravitational radiation  
RT gravitational waves

### GRAVITATIONAL LENSES

INIS: 1983-02-04; ETDE: 1983-03-07  
BT1 lenses  
RT general relativity theory  
RT gravitation  
RT gravitational fields

### GRAVITATIONAL RADIATION

BT1 radiations  
NT1 gravitons  
RT general relativity theory  
RT gravitational fields  
RT gravitational interactions  
RT gravitational wave detectors

RT gravitational waves

## GRAVITATIONAL WAVE DETECTORS

INIS: 1976-03-02; ETDE: 1976-04-19

\*BT1 radiation detectors  
RT gravitational radiation  
RT gravitational waves

## GRAVITATIONAL WAVES

RT einstein-maxwell equations  
RT gravitational interactions  
RT gravitational radiation  
RT gravitational wave detectors

## GRAVITINOS

2013-08-26

\*BT1 sparticles  
RT gravitons

## GRAVITONS

UF gravitational charges  
\*BT1 gravitational radiation  
\*BT1 massless particles  
\*BT1 postulated particles  
RT gravitinos  
RT quantum gravity  
RT supergravity  
RT uniton

## GRAVITY LOGGING

INIS: 1996-04-18; ETDE: 1977-01-28

BT1 well logging  
RT gravity surveys

## GRAVITY SURVEYS

1996-06-18

(Until April 1996 this concept was indexed to GEOPHYSICAL SURVEYS and GRAVIMETRY.)

\*BT1 geophysical surveys  
RT geothermal exploration  
RT gravimetry  
RT gravity logging

## GRAVITY WAVES

Waves in an interface between fluids of different density in which the restoring force is gravity.

NT1 water waves  
NT2 tsunamis  
RT fluid mechanics  
RT gravitation

## gray

INIS: 1997-06-05; ETDE: 1980-08-12

See also ABSORBED DOSE RANGE.

USE radiation dose units  
USE si units

## GRAY ENERGY

2004-11-02

Amount of energy consumed in the manufacture of a product or in providing a service.

UF grey energy  
SF energy content  
BT1 energy  
RT energy accounting

## GRAYWACKE

\*BT1 sandstones  
RT conglomerates

## GRAZING

INIS: 1992-07-21; ETDE: 1979-10-03

Feeding on growing herbage.

BT1 feeding  
RT domestic animals  
RT forage  
RT rangelands  
RT wild animals

## GRAZING INCIDENCE TOMOGRAPHY

INIS: 1981-05-11; ETDE: 1981-06-13

\*BT1 tomography

## GREASES

BT1 lubricants  
RT lubrication  
RT oils

## GREAT BASIN

INIS: 1992-06-04; ETDE: 1978-04-06

Area including Nevada, Western and Central Utah, Mohave county in Arizona, and the counties of Alpine, El Dorado, Inyo, Mono, and San Bernardino in California.

\*BT1 usa  
RT arizona  
RT california  
RT nevada  
RT utah

## great britain

USE united kingdom

## GREAT LAKES

\*BT1 lakes  
NT1 lake erie  
NT1 lake huron  
NT1 lake michigan  
NT1 lake ontario  
NT1 lake superior  
RT great lakes basin

## GREAT LAKES BASIN

INIS: 1992-01-14; ETDE: 1978-06-14

BT1 watersheds  
RT great lakes

## great lakes region

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

## great plains

INIS: 2000-04-12; ETDE: 1978-09-13

An area of land encompassing the eastern portions of Montana, Wyoming, Colorado, and New Mexico and the western portions of North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas. The area includes the southern provinces of Canada.

USE usa

## GREAT SALT LAKE

INIS: 1992-06-04; ETDE: 1976-07-07

\*BT1 lakes  
RT utah

## GREATER ANTILLES

INIS: 1992-06-04; ETDE: 1980-02-11

\*BT1 west indies  
NT1 cuba  
NT1 hispaniola  
NT2 dominican republic  
NT2 haiti  
NT1 jamaica  
NT1 puerto rico

## GREECE

1995-04-03

BT1 developing countries  
\*BT1 western europe  
RT oecd

## GREEK ORGANIZATIONS

INIS: 1984-11-30; ETDE: 1984-12-27

BT1 national organizations

## greek research reactor

USE democritus reactor

## greeley event

1994-10-14

A test made during OPERATION LATCHKEY. (Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions  
USE underground explosions

## green energy

2007-09-06

SEE renewable energy sources

## GREEN FUNCTION

BT1 functions  
RT differential equations  
RT sturm-liouville equation

## green oil

INIS: 2000-04-12; ETDE: 1976-04-19

USE shale oil fractions

## GREEN RIVER FORMATION

1997-06-19

BT1 geologic formations  
NT1 mahogany zone  
NT1 uinta formation  
RT colorado  
RT oil shale deposits  
RT oil shales  
RT piceance creek basin  
RT sand wash basin  
RT uranium deposits  
RT uranium ores  
RT utah  
RT washakie basin  
RT wyoming

## GREEN ROOFS

2007-05-11

Roofs at least partially covered with vegetation and including supporting systems such as waterproofing, drainage systems, and growing mediums.

\*BT1 roofs

## GREENE COUNTY REACTOR

INIS: 1976-10-29; ETDE: 1975-11-28

Power Authority of the State of New York, USA. Canceled in 1979 before construction began.

\*BT1 pwr type reactors

## GREENHOUSE EFFECT

INIS: 1999-05-05; ETDE: 1976-05-17

UF global warming  
BT1 climatic change  
RT carbon footprint  
RT earth atmosphere  
RT greenhouse gases  
RT heat transfer  
RT kyoto protocol  
RT reflection  
RT rio declaration  
RT trapping

## GREENHOUSE GASES

INIS: 1992-04-29; ETDE: 1991-09-04

RT air pollution  
RT atmospheric chemistry  
RT carbon dioxide  
RT carbon footprint  
RT carbon neutrality  
RT carbon sequestration  
RT chlorofluorocarbons  
RT emissions tax  
RT emissions trading  
RT greenhouse effect  
RT kyoto protocol  
RT methane  
RT nitrogen oxides  
RT paris agreement

RT redd

## GREENHOUSE PROJECT

2000-04-07

UF project greenhouse

\*BT1 nuclear explosions

RT eniwetok

## GREENHOUSES

1992-08-25

(Until August 1992, this concept was indexed by BUILDINGS.)

BT1 buildings

NT1 attached greenhouses

RT agriculture

RT horticulture

RT hydroponic culture

## GREENLAND

BT1 islands

RT arctic ocean

RT arctic regions

RT denmark

## GREENWOOD-2 REACTOR

Detroit Edison Co., St. Clair County, Michigan, USA. Canceled in 1980 before construction began.

\*BT1 pwr type reactors

## GREENWOOD-3 REACTOR

Detroit Edison Co., St. Clair County, Michigan, USA. Canceled in 1980 before construction began.

\*BT1 pwr type reactors

## GREIFSWALD-1 REACTOR

Greifswald, Federal Republic of Germany. Permanent shutdown since 1990.

UF bruno leuschner-1 reactor

UF kkw greifswald-1 reactor

\*BT1 wwer type reactors

## GREIFSWALD-2 REACTOR

Greifswald, Federal Republic of Germany. Permanent shutdown since 1990.

UF bruno leuschner-2 reactor

UF kkw greifswald-2 reactor

\*BT1 wwer type reactors

## GREIFSWALD-3 REACTOR

INIS: 1978-07-31; ETDE: 1978-09-11  
Greifswald, Federal Republic of Germany. Permanent shutdown since 1990.

UF bruno leuschner-3 reactor

UF kkw greifswald-3 reactor

\*BT1 wwer type reactors

## GREIFSWALD-4 REACTOR

INIS: 1978-07-31; ETDE: 1978-09-11  
Greifswald, Federal Republic of Germany. Permanent shutdown since 1990.

UF bruno leuschner-4 reactor

UF kkw greifswald-4 reactor

\*BT1 wwer type reactors

## GREIFSWALD-5 REACTOR

INIS: 1990-07-24; ETDE: 1990-08-06  
Greifswald, German Democratic Republic. Permanent shutdown since 1989.

UF kkw greifswald-5 reactor

\*BT1 wwer type reactors

## GREIFSWALD-6 REACTOR

INIS: 1990-07-24; ETDE: 1990-08-06  
Greifswald, German Democratic Republic. Permanent shutdown since 1990.

UF kkw greifswald-6 reactor

\*BT1 wwer type reactors

## GRENADA

1997-03-07

\*BT1 lesser antilles

## GRENOBLE CYCLOTRON

\*BT1 isochronous cyclotrons

## GRENOBLE REACTOR

UF franco-german high flux reactor

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

## grenoble reactor melusine-1

USE melusine-1 reactor

## grenoble reactor melusine-2

USE siloette reactor

## greuling-goertzel approximation

2000-04-12

Treatment of neutron slowing-down which includes absorption.

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE neutron slowing-down theory

## grey energy

2004-11-02

USE gray energy

## GRIBOV-LIPATOV RELATION

BT1 equations

RT annihilation

RT scattering

RT structure functions

## GRIDS

BT1 electrodes

RT battery paste

## grids (coordinates)

USE coordinates

## GRIGNARD REAGENTS

UF alkylmagnesium compounds

UF arylmagnesium compounds

\*BT1 magnesium compounds

\*BT1 organometallic compounds

## grillo process

2000-04-12

A desulfurization process based on chemisorption of the acidic components of waste gas in which the absorbent consists of an oxide compound of magnesium oxide and magnesium dioxide.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

## GRINDING

For grinding in the sense of pulverization, use COMMINATION.

BT1 comminution

BT1 machining

RT grinding machines

RT honing

RT wear

## GRINDING MACHINES

SF mullers

\*BT1 machine tools

RT grinding

## GROHNDE REACTOR

INIS: 1976-07-19; ETDE: 1976-09-15

Grohnde, Niedersachsen, Federal Republic of Germany.

\*BT1 pwr type reactors

## grom devices

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

USE pinch devices

## GROMMET OPERATION

INIS: 2000-04-12; ETDE: 1979-11-23

\*BT1 nuclear explosions

\*BT1 underground explosions

RT contained explosions

## groningen (kvi) cyclotron

INIS: 1983-06-01; ETDE: 1983-07-07

USE kvi cyclotron

## groningen versneller instituut

INIS: 1977-09-06; ETDE: 1977-10-19

USE kvi

## GROSS DOMESTIC PRODUCT

INIS: 1986-12-18; ETDE: 1978-02-14

Sum of a nation's economic output measured in terms of expenditures for goods and services by consumers, government, business, and foreign countries.

SF net material product

SF nmp(net material product)

RT economic development

RT gross national product

RT market

RT production

## GROSS NATIONAL PRODUCT

INIS: 1986-12-18; ETDE: 1976-01-23

Sum of a nation's economic output measured in terms of expenditures for goods and services by consumers, government, business, and foreign countries and the earnings from foreign investments.

SF net material product

SF nmp(net material product)

RT domestic supplies

RT economic development

RT economics

RT economy

RT gross domestic product

RT market

RT production

## gross-neveu model

INIS: 1982-01-13; ETDE: 1982-02-09

USE lagrangian field theory

## grosswelzheim hdr reactor

USE hdr reactor

## grosswelzheim pr-10 reactor

USE aeg-pr-10 reactor

## ground control

INIS: 2000-04-12; ETDE: 1978-05-03

USE strata control

## GROUND COVER

INIS: 1981-11-26; ETDE: 1978-09-11

Vegetation or other means for ensuring soil stability, usually in connection with buried wastes.

RT canopies

RT crops

RT erosion

RT forests

RT gramineae

RT plants

RT revegetation

RT underground disposal

RT water pollution abatement



**GROUND DISPOSAL**

1982-12-06

*For disposal of wastes near the earth's surface, e.g. in trenches.*

- UF land application
- UF near-surface disposal
- UF shallow land burial
- SF waste burial
- \*BT1 waste disposal
- RT liquid wastes
- RT radioactive wastes
- RT sanitary landfills
- RT sewage sludge
- RT solid wastes
- RT underground disposal

**ground-effect machines**

INIS: 2000-04-12; ETDE: 1977-08-09

- USE air cushion vehicles

**ground experimental engine experiment**

2000-04-12

- USE xe-prime reactor

**ground experimental engine experiment-2**

2000-04-12

- USE xe-2 reactor

**GROUND LEVEL**

- BT1 levels

**GROUND MOTION**

(From September 1979 till February 1997

DISPLACEMENT RATES was a valid ETDE descriptor.)

- UF displacements (seismic)
- SF displacement rates
- BT1 motion
- RT earthquakes
- RT ground subsidence
- RT ground uplift
- RT landslides
- RT nuclear explosions
- RT seismic detectors
- RT seismic effects
- RT seismic events
- RT seismic waves
- RT seismographs
- RT seismology
- RT shock waves
- RT slope stability
- RT soil-structure interactions
- RT strata movement
- RT underground explosions

**GROUND RELEASE***Release of gaseous effluents at ground level.*

- \*BT1 waste disposal
- RT gaseous wastes
- RT radioactive waste disposal
- RT stack disposal

**GROUND SOURCE HEAT PUMPS**

INIS: 2000-05-02; ETDE: 1980-01-24

- BT1 heat pumps
- RT air conditioning
- RT solar-assisted heat pumps
- RT space heating

**GROUND STATES**

- BT1 energy levels

**GROUND SUBSIDENCE**

1982-07-22

*Gradual sinking of the ground surface, e.g. due to collapse of an underground cavity.*

- UF subsidence (ground)
- RT ground motion

**ground truth**

INIS: 2000-04-12; ETDE: 1980-04-14

*Data obtained on the ground concerning the significance of anomalies observed in remote sensing to help interpretation.*

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE ground truth measurements

**GROUND TRUTH MEASUREMENTS**

1996-04-18

*Data obtained on the ground concerning the significance of anomalies observed in remote sensing to help interpretation.*

(From April 1980 until March 1996

GROUND TRUTH was used for this concept in ETDE.)

- UF ground truth
- RT data analysis
- RT geochemical surveys
- RT geophysical surveys
- RT remote sensing

**GROUND UPLIFT**

INIS: 2000-04-12; ETDE: 1979-04-11

*Process of elevating a part of the earth's surface.*

- RT geodetic surveys
- RT ground motion
- RT strata movement
- RT tectonics

**GROUND WATER**

(From January 1975 till March 1997

METEORIC WATER was a valid ETDE descriptor.)

- UF meteoric water
- \*BT1 water
- NT1 interstitial water
- NT1 magmatic water
- RT alluvial deposits
- RT aquicludes
- RT aquifers
- RT artesian basins
- RT atmospheric precipitations
- RT clays
- RT drawdown
- RT fluid withdrawal
- RT geysers
- RT groundwater recharge
- RT hydraulic conductivity
- RT hydrology
- RT leachates
- RT liquid wastes
- RT radionuclide migration
- RT reservoir pressure
- RT rock-fluid interactions
- RT soil mechanics
- RT soils
- RT surface waters
- RT underground
- RT water influx
- RT water resources
- RT water springs
- RT water tables

**ground-water reserves**

INIS: 2000-04-12; ETDE: 1976-03-31

- USE aquifers

**ground water withdrawal**

INIS: 2000-04-12; ETDE: 1975-11-11

- USE fluid withdrawal

**groundnuts***Arachis hypogaea.*

- USE peanuts

**grounds**

2000-04-12

- USE electric grounds

**grounds (electric)**

INIS: 1982-06-09; ETDE: 1982-07-08

- USE electric grounds

**GROUNDWATER RECHARGE**

INIS: 1995-04-13; ETDE: 1995-05-09

*The processes involved in the adsorption and addition of water to the zone of saturation.*

- SF recharge
- RT ground water

**GROUP CONSTANTS**

- BT1 cross sections
- RT energy range
- RT energy spectra
- RT multigroup theory

**group iva metal compounds**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE transition element compounds

**GROUP THEORY**

1997-08-20

*For mathematical groups only; for neutron-energy groups use MULTIGROUP THEORY.*

- BT1 mathematics
- RT clebsch-gordan coefficients
- RT clifford algebra
- RT galilei transformations
- RT irreducible representations
- RT nonunitary representations
- RT periodicity
- RT quantum groups
- RT r matrix
- RT racah coefficients
- RT space groups
- RT supersymmetry
- RT symmetry groups
- RT wigner coefficients
- RT young diagram

**group va metal compounds**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE transition element compounds

**group via metal compounds**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE transition element compounds

**groups (space)**

- USE space groups

**GROUTING**

INIS: 1981-02-27; ETDE: 1977-03-08

- UF grouts
- RT bonding
- RT cementing
- RT cements
- RT fillers
- RT mortars
- RT plugging
- RT sealing materials
- RT seals
- RT stemming materials
- RT well completion

**grouts**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE grouting

**GROWTH**

- UF cell growth (animal)
- UF cell growth (plant)
- UF growth inhibition
- UF growth stimulation
- NT1 animal growth
- NT1 plant growth
- RT age dependence

RT augmentation  
 RT biological regeneration  
 RT life cycle  
 RT metabolism  
 RT physiology  
 RT population dynamics  
 RT ripening  
 RT sth  
 RT teratogenesis  
 RT viability

**growth (bubble)**

INIS: 2000-04-12; ETDE: 1980-11-08  
 USE bubble growth

**growth (crystal)**

USE crystal growth

**growth (economic)**

INIS: 2000-04-12; ETDE: 1977-10-19  
 USE economic development

**growth (grain)**

USE grain growth

**GROWTH FACTORS**

INIS: 1999-09-08; ETDE: 1987-08-14  
*Tissue specific proteins released by a cell which act on neighboring cells to stimulate their replication.*

BT1 mitogens  
 \*BT1 proteins  
 NT1 lymphokines  
 NT2 interferon  
 RT angiogenesis  
 RT cell differentiation  
 RT cell proliferation  
 RT erythropoietin  
 RT oncogenes  
 RT ontogenesis  
 RT peptide hormones

**growth hormone**

USE sth

**growth hormone-release inhibiting factor**

INIS: 2000-04-12; ETDE: 1979-02-05  
 USE somatostatin

**growth inhibition**

*If possible, use a more specific term for growth.*

USE growth  
 USE inhibition

**growth rings**

INIS: 1993-06-03; ETDE: 2002-06-13  
 SEE tree rings

**growth stimulation**

USE growth  
 USE stimulation

**grr reactor**

USE democritus reactor

**grs**

INIS: 1977-09-06; ETDE: 1977-10-19  
 USE gesellschaft fuer anlagen- und reaktorsicherheit

**GRUENEISEN CONSTANT**

RT compressibility  
 RT specific heat  
 RT thermal expansion

**GRUENEISEN FORMULA**

RT electric conductivity  
 RT metals

**gs process**

ETDE: 1975-09-11  
 USE dual temperature process

**gsd**

USE genetically significant dose

**GTP-ASES**

INIS: 2000-04-12; ETDE: 1988-05-23  
 UF g-proteins  
 \*BT1 acid anhydrases  
 RT membrane proteins  
 RT oncogenes

**GTR REACTOR**

*General Dynamics--Convair/U.S. Air Force, Fort Worth, Texas, USA.*

UF fort worth gtr reactor  
 \*BT1 pool type reactors  
 \*BT1 test reactors

**GTRR REACTOR**

*Georgia Institute of Technology, Atlanta, Georgia, USA. Shut down in 1988.*

UF georgia tech. research reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 training reactors

**GUAM**

INIS: 1992-06-09; ETDE: 1978-02-14  
 \*BT1 mariana islands

**guanethidine**

1996-10-23  
 (Until October 1996 this was a valid descriptor.)  
 USE carbonic acid derivatives  
 USE heterocyclic compounds  
 USE organic nitrogen compounds

**GUANIDINES**

INIS: 1996-10-23; ETDE: 1976-11-17  
 UF iminourea  
 \*BT1 carbonic acid derivatives  
 \*BT1 organic nitrogen compounds  
 NT1 mibg  
 RT amides  
 RT creatine  
 RT imines  
 RT mercaptoethylguanidine

**guanidylaminovaleric acid**

USE arginine

**GUANINE**

UF aminohypoxanthine  
 \*BT1 amines  
 \*BT1 hydroxy compounds  
 \*BT1 purines  
 RT guanosine  
 RT guanylic acid

**GUANOSINE**

\*BT1 nucleosides  
 \*BT1 purines  
 RT guanine  
 RT guanylic acid

**GUANYLIC ACID**

\*BT1 nucleotides  
 RT guanine  
 RT guanosine

**guard logging**

INIS: 2000-06-27; ETDE: 1979-05-02  
 USE resistivity logging

**guards**

INIS: 1983-06-30; ETDE: 1981-01-27  
 USE security personnel

**GUATEMALA**

\*BT1 central america  
 BT1 developing countries

**GUAYULE**

INIS: 2000-04-12; ETDE: 1980-01-15  
 UF parthenium argentatum  
 \*BT1 rubber trees  
 RT natural rubber

**guidance (electronic)**

USE electronic guidance

**GUIDE TUBES**

INIS: 1986-02-28; ETDE: 1990-11-20  
*Tubes which are a part of a reactor core and serve as guides for control rods or monitoring instruments.*

BT1 tubes  
 RT control elements  
 RT fuel assemblies

**guidelines**

USE recommendations

**guides (shaft)**

INIS: 2000-04-12; ETDE: 1983-05-21  
 USE shaft guides

**GUIDING-CENTER****APPROXIMATION**

\*BT1 approximations  
 RT charged particles  
 RT magnetic fields  
 RT motion  
 RT plasma  
 RT rotation

**GUILLEMINITE**

2000-04-12  
 \*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT selenium oxides  
 RT uranium oxides

**GUINEA**

INIS: 1992-06-04; ETDE: 1980-08-12  
 BT1 africa  
 RT niger river

**GUINEA PIGS**

\*BT1 rodents

**GUINIER-PRESTON ZONES**

BT1 zones  
 RT crystal structure  
 RT phase transformations  
 RT segregation

**gulf coast**

INIS: 2000-04-12; ETDE: 1979-12-10  
 (Prior to January 1992 this was a valid ETDE descriptor.)  
 USE us gulf coast

**gulf general atomic fast breeder reactor**

1993-11-08  
 USE gcf reactor

**gulf general atomic triga-mk-3**

USE gulf triga-mk-3 reactor

**GULF HDS PROCESS**

INIS: 2000-04-12; ETDE: 1982-05-12  
*Fixed-bed catalytic hydrogenation process. Primary reactions are desulfurization,*

*demetallization, denitrogenation, and upgrading of asphaltenes.*

- \*BT1 desulfurization
- \*BT1 hydrogenation
- \*BT1 refining

### GULF OF ALASKA

INIS: 1992-06-04; ETDE: 1976-04-19  
 UF cook inlet  
 \*BT1 pacific ocean

### GULF OF CALIFORNIA

INIS: 1992-06-04; ETDE: 1975-11-11  
 \*BT1 pacific ocean

### GULF OF MAINE

1975-12-09  
 \*BT1 atlantic ocean  
 RT massachusetts  
 RT new hampshire

### GULF OF MEXICO

1997-06-17  
 \*BT1 caribbean sea  
 NT1 galveston bay  
 NT1 san antonio bay  
 RT us gulf coast

### GULF OF SUEZ

INIS: 1992-06-04; ETDE: 1976-01-07  
 \*BT1 red sea

### GULF STREAM

INIS: 1992-02-18; ETDE: 1977-06-21  
 UF florida current  
 \*BT1 water currents  
 RT atlantic ocean  
 RT mid-atlantic bight

### GULF TRIGA-MK-3 REACTOR

*Gulf General Atomics, San Diego, California, USA. Shut down in 1975; decommissioned.*  
 UF gulf general atomic triga-mk-3  
 UF triga-3-gulf reactor  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

### GUMACACIA

UF gum arabic  
 \*BT1 polysaccharides  
 RT arabinose

### gum arabic

USE gum acacia

### gummite

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE oxide minerals  
 USE uranium minerals

### GUMS

2000-04-12  
 RT colloids

### gun cotton

USE nitrocellulose

### gundremmingen-1 reactor

INIS: 1975-08-20; ETDE: 2002-06-13  
 USE rwe-bayernwerk reactor

### GUNDREMMINGEN-2 REACTOR

1975-08-20  
*Gundremmingen, Federal Republic of Germany.*  
 UF krb ii-b reactor  
 UF rwe-bayernwerk-b reactor  
 \*BT1 bwr type reactors

### GUNDREMMINGEN-3 REACTOR

1975-08-20  
*Gundremmingen, Federal Republic of Germany.*  
 UF krb ii-c reactor  
 UF rwe-bayernwerk-c reactor  
 \*BT1 bwr type reactors

### gundremminger krb reactor

INIS: 2000-04-12; ETDE: 1975-08-19  
 USE rwe-bayernwerk reactor

### GUNNISON RIVER

\*BT1 rivers  
 RT colorado

### GUNS

1976-05-05  
 RT ammunition  
 RT armor  
 RT explosives  
 RT projectiles

### guns (electron)

INIS: 1978-04-21; ETDE: 2002-06-13  
 USE electron guns

### guns (plasma)

INIS: 1978-04-21; ETDE: 2002-06-13  
 USE plasma guns

### GUYANA

INIS: 1999-05-05; ETDE: 1981-10-24  
*Formerly British Guiana; achieved independence in 1966.*  
 UF british guiana  
 BT1 developing countries  
 \*BT1 south america

### GY RANGE

2012-05-30  
 \*BT1 absorbed dose range  
 NT1 gy range 01-10  
 NT1 gy range 10-100  
 NT1 gy range 100-1000

### GY RANGE 01-10

2012-05-30  
 \*BT1 gy range

### GY RANGE 10-100

2012-05-30  
 \*BT1 gy range

### GY RANGE 100-1000

2012-05-30  
 \*BT1 gy range

### gymnosperms

INIS: 2000-04-12; ETDE: 1989-01-09  
 USE pinophyta

### GYNECOLOGY

*Including obstetrics.*  
 UF obstetrics  
 BT1 medicine  
 RT female genitals  
 RT pregnancy  
 RT urogenital system diseases  
 RT women

### GYPSUM

\*BT1 sulfate minerals  
 RT anhydrite  
 RT calcium sulfates

### GYPSUM CEMENTS

UF plaster of paris  
 \*BT1 cements

### gypsy moth

USE lymantria dispar

### GYRES

2013-12-13  
 \*BT1 water currents  
 RT seas  
 RT wind

### GYROCONS

INIS: 1981-03-10; ETDE: 1979-05-25  
*Electron tubes operating by deflection modulation.*  
 BT1 electron tubes  
 RT klystrons  
 RT power supplies  
 RT rf systems

### gyroelectric ratio

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 SEE angular momentum  
 SEE electric moments

### GYROFREQUENCY

UF frequency (gyro)  
 RT cyclotron frequency

### gyromagnetic radius

USE larmor radius

### GYROMAGNETIC RATIO

UF g factor (gyromagnetic ratio)  
 RT angular momentum  
 RT magnetic moments

### GYROSCOPES

RT measuring instruments  
 RT precession  
 RT rotation

### gyrotrons

INIS: 1995-06-14; ETDE: 1978-04-06  
 USE microwave amplifiers

### H-1 HELIAC

INIS: 1995-09-14; ETDE: 1990-05-16  
 \*BT1 heliac stellarators  
 RT sheila heliac

### h-2050 resonances

INIS: 1987-12-21; ETDE: 1976-11-01  
 (Prior to December 1987 this was a valid descriptor.)  
 USE f4-2050 mesons

### h-alpha line

USE balmer lines

### h-beta line

USE balmer lines

### H CENTERS

\*BT1 color centers

### H-COAL PROCESS

2000-04-12  
*Hydrocarbon Research, Inc. process for the direct catalytic conversion of whole coal to synthetic crude oil at moderate temperature (950 degrees F) and high pressure (2250-2700 psig).*  
 \*BT1 coal liquefaction

### H CODES

BT1 computer codes

### h-gamma line

USE balmer lines

### H-MODE PLASMA CONFINEMENT

INIS: 1996-04-16; ETDE: 1989-10-26  
*An operational regime in neutral-beam-injection-heated divertor tokamaks.*  
 \*BT1 magnetic confinement  
 RT confinement time

RT divertors  
 RT edge localized modes  
 RT l-mode plasma confinement  
 RT tokamak devices

**H-OIL PROCESS**

2000-04-12

*Method of hydrogenation to upgrade oil shale.*

RT oil sands  
 RT oil shales

**H THEOREM**

RT boltzmann statistics  
 RT entropy

**H1-1170 MESONS**

1995-08-07

(Until July 1995 this concept was indexed by H1-1190 MESONS.)

UF *h1-1190 mesons*  
 \*BT1 axial vector mesons

**h1-1190 mesons**

INIS: 1995-08-07; ETDE: 1988-01-28

(Until July 1995 this was a valid term.)

USE h1-1170 mesons

**H1 REGIONS**

BT1 cosmic radio sources  
 RT hydrogen

**H2 REGIONS**

BT1 cosmic radio sources  
 RT hydrogen ions 1 plus  
 RT nebulae

**haag-araki field theory**

INIS: 1977-11-21; ETDE: 1978-03-08

USE algebraic field theory

**HAAG THEOREM**

RT phi4-field theory  
 RT quantum field theory

**HABIT PLANES**

RT crystal lattices  
 RT phase transformations

**HABITAT**

INIS: 1991-08-12; ETDE: 1976-11-01

*The area or type of environment in which a plant or animal normally occurs or lives.*

RT environment  
 RT habitat fragmentation  
 RT nests

**HABITAT FRAGMENTATION**

2013-11-27

*Breaking up of an organism's habitat into smaller areas isolated from one another.*

RT ecosystems  
 RT environmental degradation  
 RT environmental effects  
 RT habitat  
 RT home range

**habrobracon**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE wasps

**HACHIMANTAI**

INIS: 2000-04-12; ETDE: 1978-04-05

\*BT1 japan  
 RT matsukawa geothermal field  
 RT onuma geothermal field  
 RT takinoue geothermal field  
 RT volcanic regions

**haddam neck reactor**

USE connecticut yankee reactor

**HADES DETECTOR**

2017-11-01

*High Acceptance Di-Electron Spectrometer*

UF *hades experiment*  
 UF *high acceptance spectrometer*  
 \*BT1 radiation detectors  
 RT fair accelerator complex

**hades experiment**

2017-11-01

USE hades detector

**HADES UNDERGROUND RESEARCH FACILITY**

2005-03-18

*Experimental site for disposal of high-level radioactive waste in boom clay formation at Mol, Belgium.*

\*BT1 radioactive waste facilities  
 BT1 underground facilities  
 RT boom clay

**HADRON-HADRON INTERACTIONS**

\*BT1 particle interactions

NT1 baryon-baryon interactions  
 NT2 hyperon-hyperon interactions  
 NT2 nucleon-antinucleon interactions  
 NT3 antiproton-neutron interactions  
 NT3 neutron-antineutron interactions  
 NT3 proton-antineutron interactions  
 NT3 proton-antiproton interactions  
 NT2 nucleon-deuteron interactions  
 NT3 proton-deuteron interactions  
 NT2 nucleon-hyperon interactions  
 NT2 nucleon-nucleon interactions  
 NT3 neutron-neutron interactions  
 NT3 proton-nucleon interactions  
 NT4 proton-neutron interactions  
 NT4 proton-proton interactions  
 NT1 meson-baryon interactions  
 NT2 meson-hyperon interactions  
 NT3 kaon-hyperon interactions  
 NT3 pion-hyperon interactions  
 NT2 meson-nucleon interactions  
 NT3 kaon-nucleon interactions  
 NT4 kaon-neutron interactions  
 NT5 kaon minus-neutron interactions  
 NT5 kaon neutral-neutron interactions  
 NT5 kaon plus-neutron interactions  
 NT4 kaon-proton interactions  
 NT5 kaon minus-proton interactions  
 NT5 kaon neutral-proton interactions  
 NT5 kaon plus-proton interactions  
 NT3 pion-nucleon interactions  
 NT4 pion-neutron interactions  
 NT5 pion minus-neutron interactions  
 NT5 pion plus-neutron interactions  
 NT4 pion-proton interactions  
 NT5 pion minus-proton interactions  
 NT5 pion plus-proton interactions  
 NT1 meson-meson interactions  
 NT2 kaon-kaon interactions  
 NT2 pion-kaon interactions  
 NT2 pion-pion interactions  
 RT electromagnetic interactions  
 RT strong interactions

**HADRON REACTIONS**

BT1 nuclear reactions  
 NT1 baryon reactions  
 NT2 hyperon reactions  
 NT2 nucleon reactions  
 NT3 antinucleon reactions  
 NT4 antineutron reactions  
 NT4 antiproton reactions

NT3 neutron reactions  
 NT4 fast fission  
 NT4 thermal fission  
 NT3 proton reactions  
 NT1 meson reactions  
 NT2 kaon reactions  
 NT3 kaon minus reactions  
 NT3 kaon neutral reactions  
 NT3 kaon plus reactions  
 NT2 pion reactions  
 NT3 pion minus reactions  
 NT3 pion plus reactions  
 RT space-time model

**HADRONIC ATOMS**

*Atoms with a hadron such as an antiproton or a sigma-minus particle bound in atomic orbits.*

UF *antiprotonic atoms*  
 UF *exotic atoms*  
 UF *sigma-minus atoms*  
 BT1 atoms  
 NT1 mesic atoms  
 NT2 kaonic atoms  
 NT2 pionic atoms  
 NT1 protonium

**hadronic clusters**

INIS: 2000-04-12; ETDE: 1978-06-14

USE cluster emission model

**HADRONIC PARTICLE DECAY**

INIS: 1978-02-23; ETDE: 1978-04-28

*Particle decay due to hadronic interaction.*

\*BT1 particle decay  
 RT strong interactions

**HADRONS**

UF *j-parc hadron experimental facility*  
 BT1 elementary particles  
 NT1 baryons  
 NT2 antibaryons  
 NT3 antihyperons  
 NT4 antilambda particles  
 NT4 antiomega particles  
 NT4 antisigma particles  
 NT4 antixi particles  
 NT3 antinucleons  
 NT4 antineutrons  
 NT4 antiprotons  
 NT2 beauty baryons  
 NT3 lambda b neutral baryons  
 NT2 charmed baryons  
 NT3 lambda c-2625 baryons  
 NT3 lambda c plus baryons  
 NT3 omega c neutral baryons  
 NT3 sigma c-2455 baryons  
 NT3 xi c neutral baryons  
 NT3 xi c plus baryons  
 NT2 dibaryons  
 NT3 dineutrons  
 NT3 diprotons  
 NT3 lambda-n-2130 dibaryons  
 NT3 nn-2170 dibaryons  
 NT3 nn-2250 dibaryons  
 NT2 hyperons  
 NT3 antihyperons  
 NT4 antilambda particles  
 NT4 antiomega particles  
 NT4 antisigma particles  
 NT4 antixi particles  
 NT3 lambda baryons  
 NT4 lambda-1405 baryons  
 NT4 lambda-1520 baryons  
 NT4 lambda-1600 baryons  
 NT4 lambda-1670 baryons  
 NT4 lambda-1690 baryons  
 NT4 lambda-1800 baryons  
 NT4 lambda-1810 baryons  
 NT4 lambda-1820 baryons

- NT4** lambda-1830 baryons  
**NT4** lambda-1890 baryons  
**NT4** lambda-2100 baryons  
**NT4** lambda-2110 baryons  
**NT4** lambda particles  
**NT5** antilambda particles  
**NT3** lambda-n-2130 dibaryons  
**NT3** omega baryons  
**NT4** omega-2250 baryons  
**NT4** omega particles  
**NT5** antiomega particles  
**NT5** omega minus particles  
**NT3** sigma baryons  
**NT4** sigma-1385 baryons  
**NT4** sigma-1660 baryons  
**NT4** sigma-1670 baryons  
**NT4** sigma-1750 baryons  
**NT4** sigma-1770 baryons  
**NT4** sigma-1775 baryons  
**NT4** sigma-1915 baryons  
**NT4** sigma-1940 baryons  
**NT4** sigma-2030 baryons  
**NT4** sigma-2455 baryons  
**NT4** sigma particles  
**NT5** antisigma particles  
**NT5** sigma minus particles  
**NT5** sigma neutral particles  
**NT5** sigma plus particles  
**NT3** xi baryons  
**NT4** xi-1530 baryons  
**NT4** xi-1690 baryons  
**NT4** xi-1820 baryons  
**NT4** xi-1950 baryons  
**NT4** xi-2030 baryons  
**NT4** xi-2250 baryons  
**NT4** xi-2500 baryons  
**NT4** xi particles  
**NT5** anti-xi particles  
**NT5** xi minus particles  
**NT5** xi neutral particles  
**NT3** z\*baryons  
**NT2** n\*baryons  
**NT3** delta baryons  
**NT4** delta-1232 baryons  
**NT4** delta-1600 baryons  
**NT4** delta-1620 baryons  
**NT4** delta-1700 baryons  
**NT4** delta-1900 baryons  
**NT4** delta-1905 baryons  
**NT4** delta-1910 baryons  
**NT4** delta-1920 baryons  
**NT4** delta-1930 baryons  
**NT4** delta-1950 baryons  
**NT4** delta-2000 baryons  
**NT4** delta-2150 baryons  
**NT4** delta-2200 baryons  
**NT4** delta-2400 baryons  
**NT4** delta-2420 baryons  
**NT4** delta-3000 baryons  
**NT3** n baryons  
**NT4** n-1440 baryons  
**NT4** n-1520 baryons  
**NT4** n-1535 baryons  
**NT4** n-1650 baryons  
**NT4** n-1675 baryons  
**NT4** n-1680 baryons  
**NT4** n-1700 baryons  
**NT4** n-1710 baryons  
**NT4** n-1720 baryons  
**NT4** n-1960 baryons  
**NT4** n-1990 baryons  
**NT4** n-2000 baryons  
**NT4** n-2080 baryons  
**NT4** n-2100 baryons  
**NT4** n-2190 baryons  
**NT4** n-2250 baryons  
**NT4** n-3000 baryons  
**NT2** nucleons  
**NT3** antinucleons  
**NT4** antineutrons  
**NT4** antiprotons  
**NT3** neutrons  
**NT4** antineutrons  
**NT4** beta-delayed neutrons  
**NT4** cold neutrons  
**NT5** ultracold neutrons  
**NT4** cosmic neutrons  
**NT4** epithermal neutrons  
**NT4** fast neutrons  
**NT4** fission neutrons  
**NT5** delayed neutrons  
**NT5** prompt neutrons  
**NT4** intermediate neutrons  
**NT4** photoneutrons  
**NT4** pile neutrons  
**NT4** polyneutrons  
**NT5** dineutrons  
**NT5** tetra-neutrons  
**NT5** trineutrons  
**NT4** resonance neutrons  
**NT4** slow neutrons  
**NT4** solar neutrons  
**NT4** thermal neutrons  
**NT3** photonucleons  
**NT4** photonutrons  
**NT4** photoprotons  
**NT3** protons  
**NT4** antiprotons  
**NT4** cosmic protons  
**NT4** delayed protons  
**NT4** diprotons  
**NT4** photoprotons  
**NT4** prompt protons  
**NT4** solar protons  
**NT4** trapped protons  
**NT1** mesons  
**NT2** antimesonons  
**NT3** pseudoscalar antimesonons  
**NT4** anti-b neutral mesons  
**NT4** anti-d neutral mesons  
**NT2** axial vector mesons  
**NT3** a1-1260 mesons  
**NT3** b1-1235 mesons  
**NT3** chi b1-9890 mesons  
**NT3** chi1-3510 mesons  
**NT3** d s-2536 mesons  
**NT3** d1-2420 mesons  
**NT3** f1-1285 mesons  
**NT3** f1-1420 mesons  
**NT3** f1-1510 mesons  
**NT3** h1-1170 mesons  
**NT3** k1-1270 mesons  
**NT3** k1-1400 mesons  
**NT2** baryonium  
**NT2** beauty mesons  
**NT3** b c mesons  
**NT3** b mesons  
**NT4** b minus mesons  
**NT4** b neutral mesons  
**NT5** anti-b neutral mesons  
**NT4** b plus mesons  
**NT3** b s mesons  
**NT3** b\*-5325 mesons  
**NT2** bottomonium  
**NT3** chi b0-10235 mesons  
**NT3** chi b0-9860 mesons  
**NT3** chi b1-10255 mesons  
**NT3** chi b1-9890 mesons  
**NT3** chi b2-10270 mesons  
**NT3** chi b2-9915 mesons  
**NT3** upsilon-10023 mesons  
**NT3** upsilon-10355 mesons  
**NT3** upsilon-10580 mesons  
**NT3** upsilon-10860 mesons  
**NT3** upsilon-11020 mesons  
**NT3** upsilon-9460 mesons  
**NT2** charmed mesons  
**NT3** b c mesons  
**NT3** d mesons  
**NT4** d minus mesons  
**NT4** d neutral mesons  
**NT5** anti-d neutral mesons  
**NT4** d plus mesons  
**NT3** d s mesons  
**NT3** eta-1295 mesons  
**NT3** eta-1440 mesons  
**NT3** eta c-2980 mesons  
**NT3** eta mesons  
**NT3** eta prime-958 mesons  
**NT3** k-1460 mesons  
**NT3** k-1830 mesons  
**NT3** kaons  
**NT4** antikaons  
**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT3** pi-1300 mesons  
**NT3** pi-1770 mesons  
**NT3** pions  
**NT4** cosmic pions  
**NT4** pions minus  
**NT4** pions neutral  
**NT4** pions plus  
**NT3** pseudoscalar antimesons  
**NT4** anti-b neutral mesons  
**NT4** anti-d neutral mesons  
**NT2** scalar mesons  
**NT3** a0-980 mesons  
**NT3** chi0-3415 mesons  
**NT3** f0-1240 mesons  
**NT3** f0-1300 mesons  
**NT3** f0-1590 mesons  
**NT3** f0-1730 mesons  
**NT3** f0-980 mesons  
**NT3** k\*0-1430 mesons  
**NT2** strange mesons  
**NT3** b s mesons

**NT3** d s-2536 mesons  
**NT3** d s mesons  
**NT3** d\*s-2110 mesons  
**NT3** k-1460 mesons  
**NT3** k-1830 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** k\*0-1430 mesons  
**NT3** k\*2-1430 mesons  
**NT3** k\*3-1780 mesons  
**NT3** k\*4-2045 mesons  
**NT3** k1-1270 mesons  
**NT3** k1-1400 mesons  
**NT3** k2-1770 mesons  
**NT3** k2-1820 mesons  
**NT3** kaons  
**NT4** antikaons  
**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT2** strangeonium  
**NT3** f2 prime-1525 mesons  
**NT2** tensor mesons  
**NT3** a2-1320 mesons  
**NT3** a4-2040 mesons  
**NT3** a6-2450 mesons  
**NT3** chi b2-9915 mesons  
**NT3** chi2-3555 mesons  
**NT3** d\*2-2460 mesons  
**NT3** f2-1270 mesons  
**NT3** f2-1430 mesons  
**NT3** f2-1720 mesons  
**NT3** f2-1810 mesons  
**NT3** f2-2010 mesons  
**NT3** f2-2300 mesons  
**NT3** f2-2340 mesons  
**NT3** f2 prime-1525 mesons  
**NT3** f4-2050 mesons  
**NT3** f4-2300 mesons  
**NT3** f6-2510 mesons  
**NT3** k\*2-1430 mesons  
**NT3** k\*3-1780 mesons  
**NT3** k\*4-2045 mesons  
**NT3** k2-1770 mesons  
**NT3** k2-1820 mesons  
**NT3** omega3-1670 mesons  
**NT3** phi3-1850 mesons  
**NT3** pi2-1670 mesons  
**NT3** pi2-2100 mesons  
**NT3** rho3-1690 mesons  
**NT3** rho3-2250 mesons  
**NT3** rho5-2350 mesons  
**NT2** toponium  
**NT2** vector mesons  
**NT3** b\*-5325 mesons  
**NT3** d\*-2010 mesons  
**NT3** j psi-3097 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** omega-1420 mesons  
**NT3** omega-1600 mesons  
**NT3** omega-782 mesons  
**NT3** phi-1020 mesons  
**NT3** phi-1680 mesons  
**NT3** psi-3685 mesons  
**NT3** psi-3770 mesons  
**NT3** psi-4040 mesons  
**NT3** psi-4160 mesons  
**NT3** psi-4415 mesons  
**NT3** rho-1450 mesons  
**NT3** rho-1700 mesons  
**NT3** rho-2150 mesons

**NT3** rho-770 mesons  
**NT3** upsilon-10023 mesons  
**NT3** upsilon-10355 mesons  
**NT3** upsilon-10580 mesons  
**NT3** upsilon-10860 mesons  
**NT3** upsilon-11020 mesons  
**NT3** upsilon-9460 mesons  
**NT2** x-1700 mesons  
**NT2** x-1935 mesons  
**NT2** x-2220 mesons  
**NT2** x-3075 mesons  
**NT1** resonance particles  
**NT2** exotic resonances  
**RT** centauro-type events  
**RT** charm particles  
**RT** cim model  
**RT** melosh transformation

### haem dehydrogenases

*INIS: 2000-04-12; ETDE: 1981-01-12*  
*Code number 1.9.*  
 (Prior to February 1997 this was a valid ETDE descriptor.)  
 USE oxidoreductases

### HAEMOPHILUS

**UF** hemophilus  
**\*BT1** bacteria

### HAFNATES

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

**\*BT1** hafnium compounds  
**BT1** oxygen compounds  
**RT** hafnium oxides

### HAFNIUM

**\*BT1** refractory metals  
**\*BT1** transition elements  
**NT1** hafnium-alpha  
**NT1** hafnium-beta

### HAFNIUM 153

*2007-11-01*  
**\*BT1** even-odd nuclei  
**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei

### HAFNIUM 154

*INIS: 1986-05-05; ETDE: 1986-07-03*  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** seconds living radioisotopes

### HAFNIUM 155

*INIS: 1986-05-05; ETDE: 1986-07-03*  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** milliseconds living radioisotopes

### HAFNIUM 156

*INIS: 1979-09-18; ETDE: 1979-10-23*  
**\*BT1** alpha decay radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** isomeric transition isotopes  
**\*BT1** microseconds living radioisotopes  
**\*BT1** milliseconds living radioisotopes

### HAFNIUM 157

**\*BT1** alpha decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-odd nuclei

**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** milliseconds living radioisotopes

### HAFNIUM 158

**\*BT1** alpha decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** seconds living radioisotopes

### HAFNIUM 159

**\*BT1** alpha decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** seconds living radioisotopes

### HAFNIUM 160

**\*BT1** alpha decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** seconds living radioisotopes

### HAFNIUM 161

**\*BT1** alpha decay radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** seconds living radioisotopes

### HAFNIUM 162

*INIS: 1982-06-09; ETDE: 1982-02-08*  
**\*BT1** alpha decay radioisotopes  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** seconds living radioisotopes

### HAFNIUM 163

*INIS: 1980-12-01; ETDE: 1980-08-25*  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** seconds living radioisotopes

### HAFNIUM 164

*INIS: 1982-04-14; ETDE: 1982-02-08*  
**\*BT1** even-even nuclei  
**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes

### HAFNIUM 165

*INIS: 1982-06-09; ETDE: 1982-07-08*  
**\*BT1** even-odd nuclei  
**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes

### HAFNIUM 166

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes

### HAFNIUM 167

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** hafnium isotopes  
**\*BT1** intermediate mass nuclei

\*BT1 minutes living radioisotopes

#### HAFNIUM 168

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

#### HAFNIUM 169

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

#### HAFNIUM 170

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

#### HAFNIUM 171

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

#### HAFNIUM 172

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 years living radioisotopes

#### HAFNIUM 173

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

#### HAFNIUM 174

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 years living radioisotopes

#### HAFNIUM 174 TARGET

*INIS: 1977-09-15; ETDE: 1977-05-07*  
 BT1 targets

#### HAFNIUM 175

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei

#### HAFNIUM 176

\*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

#### HAFNIUM 176 TARGET

*INIS: 1976-04-03; ETDE: 1976-07-12*  
 BT1 targets

#### HAFNIUM 177

\*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 stable isotopes

#### HAFNIUM 177 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

#### HAFNIUM 178

\*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 stable isotopes  
 \*BT1 years living radioisotopes

#### HAFNIUM 178 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

#### HAFNIUM 179

\*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 stable isotopes

#### HAFNIUM 179 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

#### HAFNIUM 180

\*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 stable isotopes

#### HAFNIUM 180 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

#### HAFNIUM 181

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 heavy nuclei

#### HAFNIUM 182

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 years living radioisotopes

#### HAFNIUM 183

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes

#### HAFNIUM 184

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes

#### HAFNIUM 185

\*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 heavy nuclei

#### HAFNIUM 186

\*BT1 even-even nuclei  
 \*BT1 hafnium isotopes

\*BT1 heavy nuclei

#### HAFNIUM 187

*2007-11-01*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 heavy nuclei  
 \*BT1 seconds living radioisotopes

#### HAFNIUM 188

*2007-11-01*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 heavy nuclei  
 \*BT1 seconds living radioisotopes

#### HAFNIUM ADDITIONS

*2000-04-10*

*Alloys containing not more than 1% Hf are listed here.*

\*BT1 hafnium alloys  
 NT1 astar 811c

#### HAFNIUM ALLOYS

*1995-02-27*

*Alloys containing more than 1% Hf.*

\*BT1 transition element alloys  
 NT1 alloy-c-103  
 NT1 alloy-ta90w8hf  
 NT2 tantalum alloy-t111  
 NT1 hafnium additions  
 NT2 astar 811c  
 NT1 hafnium base alloys

#### HAFNIUM-ALPHA

\*BT1 hafnium

#### HAFNIUM ARSENIDES

*INIS: 2000-04-12; ETDE: 1984-06-14*

\*BT1 arsenides  
 \*BT1 hafnium compounds

#### HAFNIUM BASE ALLOYS

\*BT1 hafnium alloys

#### HAFNIUM-BETA

\*BT1 hafnium

#### HAFNIUM BORIDES

\*BT1 borides  
 \*BT1 hafnium compounds

#### HAFNIUM BROMIDES

\*BT1 bromides  
 \*BT1 hafnium halides

#### HAFNIUM CARBIDES

\*BT1 carbides  
 \*BT1 hafnium compounds

#### HAFNIUM CHLORIDES

\*BT1 chlorides  
 \*BT1 hafnium halides

#### HAFNIUM COMPLEXES

\*BT1 transition element complexes

#### HAFNIUM COMPOUNDS

*1997-06-17*

BT1 refractory metal compounds  
 BT1 transition element compounds  
 NT1 hafnates  
 NT1 hafnium arsenides  
 NT1 hafnium borides  
 NT1 hafnium carbides  
 NT1 hafnium halides  
 NT2 hafnium bromides  
 NT2 hafnium chlorides  
 NT2 hafnium fluorides  
 NT2 hafnium iodides  
 NT1 hafnium hydrides  
 NT1 hafnium hydroxides

NT1 hafnium nitrates  
 NT1 hafnium nitrides  
 NT1 hafnium oxides  
 NT1 hafnium perchlorates  
 NT1 hafnium phosphates  
 NT1 hafnium phosphides  
 NT1 hafnium selenides  
 NT1 hafnium silicates  
 NT1 hafnium silicides  
 NT1 hafnium sulfates  
 NT1 hafnium sulfides  
 NT1 hafnium tellurides  
 NT1 hafnium tungstates

**HAFNIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 hafnium halides

**HAFNIUM HALIDES**

2012-07-19

\*BT1 hafnium compounds  
 \*BT1 halides  
 NT1 hafnium bromides  
 NT1 hafnium chlorides  
 NT1 hafnium fluorides  
 NT1 hafnium iodides

**HAFNIUM HYDRIDES**

\*BT1 hafnium compounds  
 \*BT1 hydrides

**HAFNIUM HYDROXIDES**

\*BT1 hafnium compounds  
 \*BT1 hydroxides

**HAFNIUM IODIDES**

\*BT1 hafnium halides  
 \*BT1 iodides

**HAFNIUM IONS**

\*BT1 ions

**HAFNIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 hafnium 153  
 NT1 hafnium 154  
 NT1 hafnium 155  
 NT1 hafnium 156  
 NT1 hafnium 157  
 NT1 hafnium 158  
 NT1 hafnium 159  
 NT1 hafnium 160  
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 NT1 hafnium 182  
 NT1 hafnium 183  
 NT1 hafnium 184  
 NT1 hafnium 185  
 NT1 hafnium 186  
 NT1 hafnium 187  
 NT1 hafnium 188

**HAFNIUM NITRATES**

\*BT1 hafnium compounds  
 \*BT1 nitrates

**HAFNIUM NITRIDES**

\*BT1 hafnium compounds  
 \*BT1 nitrides

**HAFNIUM OXIDES**

\*BT1 hafnium compounds  
 \*BT1 oxides  
 RT baddeleyite  
 RT hafnates  
 RT oxide minerals

**HAFNIUM PERCHLORATES**

INIS: 1991-09-16; ETDE: 1980-03-04

\*BT1 hafnium compounds  
 \*BT1 perchlorates

**HAFNIUM PHOSPHATES**

\*BT1 hafnium compounds  
 \*BT1 phosphates

**HAFNIUM PHOSPHIDES**

INIS: 1991-09-16; ETDE: 1979-02-23

\*BT1 hafnium compounds  
 \*BT1 phosphides

**HAFNIUM SELENIDES**

\*BT1 hafnium compounds  
 \*BT1 selenides

**HAFNIUM SILICATES**

\*BT1 hafnium compounds  
 \*BT1 silicates

**HAFNIUM SILICIDES**

1979-04-27

\*BT1 hafnium compounds  
 \*BT1 silicides

**HAFNIUM SULFATES**

\*BT1 hafnium compounds  
 \*BT1 sulfates

**HAFNIUM SULFIDES**

\*BT1 hafnium compounds  
 \*BT1 sulfides

**HAFNIUM TELLURIDES**

INIS: 1985-09-06; ETDE: 1978-09-11

\*BT1 hafnium compounds  
 \*BT1 tellurides

**HAFNIUM TUNGSTATES**

INIS: 1996-07-18; ETDE: 1978-03-03

(From July 1996 to February 2008 HAFNIUM COMPOUNDS + TUNGSTATES was used for this concept.)

\*BT1 hafnium compounds  
 \*BT1 tungstates

***hahn-meitner vicksi accelerator***

INIS: 1993-11-08; ETDE: 2002-06-13

USE vicksi accelerator

***hahnium***

INIS: 1984-06-21; ETDE: 2002-06-13

USE dubnium

**HAIL**

BT1 atmospheric precipitations  
 RT ice  
 RT weather

***haines process***

INIS: 2000-04-12; ETDE: 1977-01-28

*An adsorption process for desulfurization and sulfur recovery which uses alkali metal aluminosilicates.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**HAIR**

\*BT1 skin  
 RT epilation  
 RT hair follicles  
 RT melanin

**HAIR FOLLICLES**

1975-09-16

BT1 animal cells  
 \*BT1 skin  
 RT epithelium  
 RT hair

**HAITI**

INIS: 1988-04-15; ETDE: 1979-09-26

BT1 developing countries  
 \*BT1 hispaniola  
 BT1 latin america

***haizy***

INIS: 2000-04-12; ETDE: 1983-03-24

(Prior to July 1985, this was a valid ETDE descriptor.)

USE haizy cyclotron

**HAIZY CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-07-07

*Hamburg isochronous cyclotron.*

UF haizy

\*BT1 isochronous cyclotrons

***halden heavy boiling water reactor***

1993-11-08

USE hbwr reactor

***halex process***

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE purex process

**HALF-LIFE**

UF *halftime*  
 RT days living radioisotopes  
 RT decay  
 RT ft value  
 RT geiger-nuttall law  
 RT hours living radioisotopes  
 RT lifetime  
 RT microseconds living radioisotopes  
 RT milliseconds living radioisotopes  
 RT minutes living radioisotopes  
 RT nanoseconds living radioisotopes  
 RT radioisotope generators  
 RT residence half-time  
 RT seconds living radioisotopes  
 RT years living radioisotopes

***half-life (biological)***

USE biological half-life

***half-life (effective)***

USE biological half-life

**HALF-THICKNESS**

*Thickness of material which reduces the intensity of a beam of radiation passing through it to one-half its initial value.*

BT1 physical properties  
 RT absorption  
 RT radiation length  
 RT radiation protection  
 RT radiation quality  
 RT shielding  
 RT thickness



**halfbeak event**

INIS: 1994-10-14; ETDE: 1977-01-10

A test made during OPERATION

FLINTLOCK.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**halftime**

USE half-life

**HALIDE MINERALS**

INIS: 1996-07-08; ETDE: 1982-05-12

UF schroekingierite

BT1 minerals

NT1 carnallite

NT1 fluorite

NT1 halite

RT calcium fluorides

RT magnesium chlorides

RT potassium chlorides

**HALIDES**

UF acid halides

BT1 halogen compounds

NT1 actinium halides

NT2 actinium bromides

NT2 actinium chlorides

NT2 actinium fluorides

NT1 aluminium halides

NT2 aluminium bromides

NT2 aluminium chlorides

NT2 aluminium fluorides

NT2 aluminium iodides

NT1 americium halides

NT2 americium bromides

NT2 americium chlorides

NT2 americium fluorides

NT2 americium iodides

NT1 ammonium halides

NT2 ammonium chlorides

NT2 ammonium fluorides

NT1 antimony halides

NT2 antimony bromides

NT2 antimony chlorides

NT2 antimony fluorides

NT2 antimony iodides

NT1 argon halides

NT2 argon chlorides

NT2 argon fluorides

NT2 argon iodides

NT1 arsenic halides

NT2 arsenic bromides

NT2 arsenic chlorides

NT2 arsenic fluorides

NT2 arsenic iodides

NT1 astatine halides

NT2 astatine bromides

NT2 astatine chlorides

NT2 astatine iodides

NT1 barium halides

NT2 barium bromides

NT2 barium chlorides

NT2 barium fluorides

NT2 barium iodides

NT1 berkelium halides

NT2 berkelium bromides

NT2 berkelium chlorides

NT2 berkelium fluorides

NT1 beryllium halides

NT2 beryllium bromides

NT2 beryllium chlorides

NT2 beryllium fluorides

NT2 beryllium iodides

NT1 bismuth halides

NT2 bismuth bromides

NT2 bismuth chlorides

NT2 bismuth fluorides

NT2 bismuth iodides

NT1 boron halides

NT2 boron bromides

NT2 boron chlorides

NT2 boron fluorides

NT2 boron iodides

NT1 bromides

NT2 actinium bromides

NT2 aluminium bromides

NT2 americium bromides

NT2 antimony bromides

NT2 arsenic bromides

NT2 astatine bromides

NT2 barium bromides

NT2 berkelium bromides

NT2 beryllium bromides

NT2 bismuth bromides

NT2 boron bromides

NT2 cadmium bromides

NT2 calcium bromides

NT2 californium bromides

NT2 cerium bromides

NT2 cesium bromides

NT2 chromium bromides

NT2 cobalt bromides

NT2 copper bromides

NT2 curium bromides

NT2 dysprosium bromides

NT2 einsteinium bromides

NT2 erbium bromides

NT2 europium bromides

NT2 fermium bromides

NT2 gadolinium bromides

NT2 gallium bromides

NT2 germanium bromides

NT2 gold bromides

NT2 hafnium bromides

NT2 holmium bromides

NT2 hydrogen bromides

NT2 indium bromides

NT2 iodine bromides

NT2 iron bromides

NT2 krypton bromides

NT2 lanthanum bromides

NT2 lead bromides

NT2 lithium bromides

NT2 lutetium bromides

NT2 magnesium bromides

NT2 manganese bromides

NT2 mercury bromides

NT2 molybdenum bromides

NT2 neodymium bromides

NT2 neon bromides

NT2 neptunium bromides

NT2 nickel bromides

NT2 niobium bromides

NT2 nitrogen bromides

NT2 palladium bromides

NT2 phosphorus bromides

NT2 platinum bromides

NT2 plutonium bromides

NT2 polonium bromides

NT2 potassium bromides

NT2 praseodymium bromides

NT2 promethium bromides

NT2 protactinium bromides

NT2 radium bromides

NT2 rhenium bromides

NT2 rhodium bromides

NT2 rubidium bromides

NT2 ruthenium bromides

NT2 samarium bromides

NT2 scandium bromides

NT2 selenium bromides

NT2 silicon bromides

NT2 silver bromides

NT2 sodium bromides

NT2 strontium bromides

NT2 tantalum bromides

NT2 technetium bromides

NT2 tellurium bromides

NT2 terbium bromides

NT2 thallium bromides

NT2 thorium bromides

NT2 thulium bromides

NT2 tin bromides

NT2 titanium bromides

NT2 tungsten bromides

NT2 uranium bromides

NT2 vanadium bromides

NT2 xenon bromides

NT2 ytterbium bromides

NT2 yttrium bromides

NT2 zinc bromides

NT2 zirconium bromides

NT1 bromine halides

NT2 bromine chlorides

NT2 bromine fluorides

NT1 cadmium halides

NT2 cadmium bromides

NT2 cadmium chlorides

NT2 cadmium fluorides

NT2 cadmium iodides

NT1 calcium halides

NT2 calcium bromides

NT2 calcium chlorides

NT2 calcium fluorides

NT2 calcium iodides

NT1 californium halides

NT2 californium bromides

NT2 californium chlorides

NT2 californium fluorides

NT2 californium iodides

NT1 carbon halides

NT2 carbon fluorides

NT1 cerium halides

NT2 cerium bromides

NT2 cerium chlorides

NT2 cerium fluorides

NT2 cerium iodides

NT1 cesium halides

NT2 cesium bromides

NT2 cesium chlorides

NT2 cesium fluorides

NT2 cesium iodides

NT1 chlorides

NT2 actinium chlorides

NT2 aluminium chlorides

NT2 americium chlorides

NT2 ammonium chlorides

NT2 antimony chlorides

NT2 argon chlorides

NT2 arsenic chlorides

NT2 astatine chlorides

NT2 barium chlorides

NT2 berkelium chlorides

NT2 beryllium chlorides

NT2 bismuth chlorides

NT2 boron chlorides

NT2 bromine chlorides

NT2 cadmium chlorides

NT2 calcium chlorides

NT2 californium chlorides

NT2 cerium chlorides

NT2 cesium chlorides

NT2 chromium chlorides

NT2 cobalt chlorides

NT2 copper chlorides

NT2 curium chlorides

NT2 dysprosium chlorides

NT2 einsteinium chlorides

NT2 erbium chlorides

NT2 europium chlorides

NT2 fermium chlorides

NT2 francium chlorides

NT2 gadolinium chlorides

NT2 gallium chlorides

NT2 germanium chlorides

NT2 gold chlorides

NT2	hafnium chlorides	NT2	cobalt iodides	NT2	lutetium fluorides
NT2	helium chlorides	NT1	copper halides	NT2	magnesium fluorides
NT2	holmium chlorides	NT2	copper bromides	NT2	manganese fluorides
NT2	hydrogen chlorides	NT2	copper chlorides	NT2	mercury fluorides
NT2	indium chlorides	NT2	copper fluorides	NT2	molybdenum fluorides
NT2	iodine chlorides	NT2	copper iodides	NT2	neodymium fluorides
NT2	iridium chlorides	NT1	curium halides	NT2	neon fluorides
NT2	iron chlorides	NT2	curium bromides	NT2	neptunium fluorides
NT2	krypton chlorides	NT2	curium chlorides	NT2	nickel fluorides
NT2	lanthanum chlorides	NT2	curium fluorides	NT2	niobium fluorides
NT2	lead chlorides	NT2	curium iodides	NT2	nitrogen fluorides
NT2	lithium chlorides	NT1	dysprosium halides	NT2	osmium fluorides
NT2	lutetium chlorides	NT2	dysprosium bromides	NT2	palladium fluorides
NT2	magnesium chlorides	NT2	dysprosium chlorides	NT2	phosphorus fluorides
NT2	manganese chlorides	NT2	dysprosium fluorides	NT2	platinum fluorides
NT2	mercury chlorides	NT2	dysprosium iodides	NT2	plutonium fluorides
NT2	methylene blue	NT1	einsteinium halides	NT2	polonium fluorides
NT2	molybdenum chlorides	NT2	einsteinium bromides	NT2	potassium fluorides
NT2	neodymium chlorides	NT2	einsteinium chlorides	NT2	praseodymium fluorides
NT2	neon chlorides	NT2	einsteinium fluorides	NT2	promethium fluorides
NT2	neptunium chlorides	NT2	einsteinium iodides	NT2	protactinium fluorides
NT2	nickel chlorides	NT1	erbium halides	NT2	radium fluorides
NT2	niobium chlorides	NT2	erbium bromides	NT2	radon fluorides
NT2	nitrogen chlorides	NT2	erbium chlorides	NT2	rhenium fluorides
NT2	osmium chlorides	NT2	erbium fluorides	NT2	rhodium fluorides
NT2	palladium chlorides	NT2	erbium iodides	NT2	rubidium fluorides
NT2	phosphorus chlorides	NT1	europium halides	NT2	ruthenium fluorides
NT2	platinum chlorides	NT2	europium bromides	NT2	samarium fluorides
NT2	plutonium chlorides	NT2	europium chlorides	NT2	scandium fluorides
NT2	polonium chlorides	NT2	europium fluorides	NT2	selenium fluorides
NT2	potassium chlorides	NT2	europium iodides	NT2	silicon fluorides
NT2	praseodymium chlorides	NT1	fermium halides	NT2	silver fluorides
NT2	promethium chlorides	NT2	fermium bromides	NT2	sodium fluorides
NT2	protactinium chlorides	NT2	fermium chlorides	NT2	strontium fluorides
NT2	radium chlorides	NT2	fermium iodides	NT2	sulfur fluorides
NT2	rhenium chlorides	NT1	fluorides	NT2	tantalum fluorides
NT2	rhodium chlorides	NT2	actinium fluorides	NT2	technetium fluorides
NT2	rubidium chlorides	NT2	aluminium fluorides	NT2	tellurium fluorides
NT2	ruthenium chlorides	NT2	americium fluorides	NT2	terbium fluorides
NT2	rutherfordium chlorides	NT2	ammonium fluorides	NT2	thallium fluorides
NT2	samarium chlorides	NT2	antimony fluorides	NT2	thorium fluorides
NT2	scandium chlorides	NT2	argon fluorides	NT2	thulium fluorides
NT2	selenium chlorides	NT2	arsenic fluorides	NT2	tin fluorides
NT2	silicon chlorides	NT2	barium fluorides	NT2	titanium fluorides
NT2	silver chlorides	NT2	berkelium fluorides	NT2	tungsten fluorides
NT2	sodium chlorides	NT2	beryllium fluorides	NT2	uranium fluorides
NT2	strontium chlorides	NT2	bismuth fluorides	NT3	uranium hexafluoride
NT2	sulfur chlorides	NT2	boron fluorides	NT3	uranium pentafluoride
NT2	tantalum chlorides	NT2	bromine fluorides	NT3	uranium tetrafluoride
NT2	technetium chlorides	NT2	cadmium fluorides	NT2	uranyl fluorides
NT2	tellurium chlorides	NT2	calcium fluorides	NT2	vanadium fluorides
NT2	terbium chlorides	NT2	californium fluorides	NT2	xenon fluorides
NT2	tetrazolium	NT2	carbon fluorides	NT2	ytterbium fluorides
NT2	thallium chlorides	NT2	cerium fluorides	NT2	yttrium fluorides
NT2	thionyl chlorides	NT2	cesium fluorides	NT2	zinc fluorides
NT2	thorium chlorides	NT2	chlorine fluorides	NT2	zirconium fluorides
NT2	thulium chlorides	NT2	chromium fluorides	NT1	francium halides
NT2	tin chlorides	NT2	cobalt fluorides	NT2	francium chlorides
NT2	titanium chlorides	NT2	copper fluorides	NT1	gadolinium halides
NT2	tungsten chlorides	NT2	curium fluorides	NT2	gadolinium bromides
NT2	uranium chlorides	NT2	dysprosium fluorides	NT2	gadolinium chlorides
NT2	uranyl chlorides	NT2	einsteinium fluorides	NT2	gadolinium fluorides
NT2	vanadium chlorides	NT2	erbium fluorides	NT2	gadolinium iodides
NT2	xenon chlorides	NT2	europium fluorides	NT1	gallium halides
NT2	ytterbium chlorides	NT2	gadolinium fluorides	NT2	gallium bromides
NT2	yttrium chlorides	NT2	gallium fluorides	NT2	gallium chlorides
NT2	zinc chlorides	NT2	germanium fluorides	NT2	gallium fluorides
NT2	zirconium chlorides	NT2	gold fluorides	NT2	gallium iodides
NT1	chlorine halides	NT2	hafnium fluorides	NT1	germanium halides
NT2	chlorine fluorides	NT2	holmium fluorides	NT2	germanium bromides
NT1	chromium halides	NT2	hydrogen fluorides	NT2	germanium chlorides
NT2	chromium bromides	NT2	indium fluorides	NT2	germanium fluorides
NT2	chromium chlorides	NT2	iodine fluorides	NT2	germanium iodides
NT2	chromium fluorides	NT2	iridium fluorides	NT1	gold halides
NT2	chromium iodides	NT2	iron fluorides	NT2	gold bromides
NT1	cobalt halides	NT2	krypton fluorides	NT2	gold chlorides
NT2	cobalt bromides	NT2	lanthanum fluorides	NT2	gold fluorides
NT2	cobalt chlorides	NT2	lead fluorides	NT2	gold iodides
NT2	cobalt fluorides	NT2	lithium fluorides	NT1	hafnium halides

- NT2 hafnium bromides  
 NT2 hafnium chlorides  
 NT2 hafnium fluorides  
 NT2 hafnium iodides  
 NT1 helium halides  
 NT2 helium chlorides  
 NT1 holmium halides  
 NT2 holmium bromides  
 NT2 holmium chlorides  
 NT2 holmium fluorides  
 NT2 holmium iodides  
 NT1 hydrogen halides  
 NT2 hydrogen bromides  
 NT2 hydrogen chlorides  
 NT2 hydrogen fluorides  
 NT2 hydrogen iodides  
 NT1 indium halides  
 NT2 indium bromides  
 NT2 indium chlorides  
 NT2 indium fluorides  
 NT2 indium iodides  
 NT1 iodides  
 NT2 aluminium iodides  
 NT2 americium iodides  
 NT2 antimony iodides  
 NT2 argon iodides  
 NT2 arsenic iodides  
 NT2 astatine iodides  
 NT2 barium iodides  
 NT2 beryllium iodides  
 NT2 bismuth iodides  
 NT2 boron iodides  
 NT2 cadmium iodides  
 NT2 calcium iodides  
 NT2 californium iodides  
 NT2 cerium iodides  
 NT2 cesium iodides  
 NT2 chromium iodides  
 NT2 cobalt iodides  
 NT2 copper iodides  
 NT2 curium iodides  
 NT2 dysprosium iodides  
 NT2 einsteinium iodides  
 NT2 erbium iodides  
 NT2 europium iodides  
 NT2 fermium iodides  
 NT2 gadolinium iodides  
 NT2 gallium iodides  
 NT2 germanium iodides  
 NT2 gold iodides  
 NT2 hafnium iodides  
 NT2 holmium iodides  
 NT2 hydrogen iodides  
 NT2 indium iodides  
 NT2 iron iodides  
 NT3 iron halides  
 NT4 iron bromides  
 NT4 iron chlorides  
 NT4 iron fluorides  
 NT2 lanthanum iodides  
 NT2 lead iodides  
 NT2 lithium iodides  
 NT2 lutetium iodides  
 NT2 magnesium iodides  
 NT2 manganese iodides  
 NT2 mercury iodides  
 NT2 molybdenum iodides  
 NT2 neodymium iodides  
 NT2 neon iodides  
 NT2 neptunium iodides  
 NT2 nickel iodides  
 NT2 niobium iodides  
 NT2 nitrogen iodides  
 NT2 palladium iodides  
 NT2 phosphorus iodides  
 NT2 platinum iodides  
 NT2 plutonium iodides  
 NT2 polonium iodides  
 NT2 potassium iodides  
 NT2 praseodymium iodides  
 NT2 promethium iodides  
 NT2 protactinium iodides  
 NT2 protactinium iodides  
 NT2 promethium iodides  
 NT2 protactinium iodides  
 NT2 rhenium iodides  
 NT2 rubidium iodides  
 NT2 samarium iodides  
 NT2 scandium iodides  
 NT2 selenium iodides  
 NT2 silicon iodides  
 NT2 silver iodides  
 NT2 sodium iodides  
 NT2 strontium iodides  
 NT2 tantalum iodides  
 NT2 technetium iodides  
 NT2 tellurium iodides  
 NT2 terbium iodides  
 NT2 thallium iodides  
 NT2 thorium iodides  
 NT2 thulium iodides  
 NT2 tin iodides  
 NT2 titanium iodides  
 NT2 tungsten iodides  
 NT2 uranium iodides  
 NT2 vanadium iodides  
 NT2 xenon iodides  
 NT2 ytterbium iodides  
 NT2 yttrium iodides  
 NT2 zinc iodides  
 NT2 zirconium iodides  
 NT1 iodine halides  
 NT2 iodine bromides  
 NT2 iodine chlorides  
 NT2 iodine fluorides  
 NT1 iridium halides  
 NT2 iridium chlorides  
 NT2 iridium fluorides  
 NT1 iron halides  
 NT2 iron bromides  
 NT2 iron chlorides  
 NT2 iron fluorides  
 NT1 krypton halides  
 NT2 krypton bromides  
 NT2 krypton chlorides  
 NT2 krypton fluorides  
 NT1 lanthanum halides  
 NT2 lanthanum bromides  
 NT2 lanthanum chlorides  
 NT2 lanthanum fluorides  
 NT2 lanthanum iodides  
 NT1 lead halides  
 NT2 lead bromides  
 NT2 lead chlorides  
 NT2 lead fluorides  
 NT2 lead iodides  
 NT1 lithium halides  
 NT2 lithium bromides  
 NT2 lithium chlorides  
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 NT2 lithium iodides  
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 NT2 lutetium bromides  
 NT2 lutetium chlorides  
 NT2 lutetium fluorides  
 NT2 lutetium iodides  
 NT1 magnesium halides  
 NT2 magnesium bromides  
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 NT1 manganese halides  
 NT2 manganese bromides  
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 NT1 mercury halides  
 NT2 mercury bromides  
 NT2 mercury chlorides  
 NT2 mercury fluorides  
 NT2 mercury iodides  
 NT1 molybdenum halides  
 NT2 molybdenum bromides  
 NT2 molybdenum chlorides  
 NT2 molybdenum fluorides  
 NT2 molybdenum iodides  
 NT1 neodymium halides  
 NT2 neodymium bromides  
 NT2 neodymium chlorides  
 NT2 neodymium fluorides  
 NT2 neodymium iodides  
 NT1 neon halides  
 NT2 neon bromides  
 NT2 neon chlorides  
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 NT1 neptunium halides  
 NT2 neptunium bromides  
 NT2 neptunium chlorides  
 NT2 neptunium fluorides  
 NT2 neptunium iodides  
 NT1 nickel halides  
 NT2 nickel bromides  
 NT2 nickel chlorides  
 NT2 nickel fluorides  
 NT2 nickel iodides  
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 NT2 niobium bromides  
 NT2 niobium chlorides  
 NT2 niobium fluorides  
 NT2 niobium iodides  
 NT1 nitrogen halides  
 NT2 nitrogen bromides  
 NT2 nitrogen chlorides  
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 NT2 nitrogen iodides  
 NT1 osmium halides  
 NT2 osmium chlorides  
 NT2 osmium fluorides  
 NT1 palladium halides  
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 NT2 phosphorus iodides  
 NT1 platinum halides  
 NT2 platinum bromides  
 NT2 platinum chlorides  
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 NT2 platinum iodides  
 NT1 plutonium halides  
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 NT2 plutonium chlorides  
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 NT2 plutonium iodides  
 NT1 polonium halides  
 NT2 polonium bromides  
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 NT2 polonium fluorides  
 NT2 polonium iodides  
 NT1 potassium halides  
 NT2 potassium bromides  
 NT2 potassium chlorides  
 NT2 potassium fluorides  
 NT2 potassium iodides  
 NT1 praseodymium halides  
 NT2 praseodymium bromides  
 NT2 praseodymium chlorides  
 NT2 praseodymium fluorides  
 NT2 praseodymium iodides  
 NT1 promethium halides  
 NT2 promethium bromides  
 NT2 promethium chlorides  
 NT2 promethium fluorides  
 NT2 promethium iodides  
 NT1 protactinium halides

NT2 protactinium bromides  
 NT2 protactinium chlorides  
 NT2 protactinium fluorides  
 NT2 protactinium iodides  
 NT1 radium halides  
 NT2 radium bromides  
 NT2 radium chlorides  
 NT2 radium fluorides  
 NT1 radon halides  
 NT2 radon fluorides  
 NT1 rhenium halides  
 NT2 rhenium bromides  
 NT2 rhenium chlorides  
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 NT1 rubidium halides  
 NT2 rubidium bromides  
 NT2 rubidium chlorides  
 NT2 rubidium fluorides  
 NT2 rubidium iodides  
 NT1 ruthenium halides  
 NT2 ruthenium bromides  
 NT2 ruthenium chlorides  
 NT2 ruthenium fluorides  
 NT1 rutherfordium halides  
 NT2 rutherfordium chlorides  
 NT1 samarium halides  
 NT2 samarium bromides  
 NT2 samarium chlorides  
 NT2 samarium fluorides  
 NT2 samarium iodides  
 NT1 scandium halides  
 NT2 scandium bromides  
 NT2 scandium chlorides  
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 NT2 scandium iodides  
 NT1 selenium halides  
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 NT2 silver chlorides  
 NT2 silver fluorides  
 NT2 silver iodides  
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 NT2 sodium bromides  
 NT2 sodium chlorides  
 NT2 sodium fluorides  
 NT2 sodium iodides  
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 NT2 strontium bromides  
 NT2 strontium chlorides  
 NT2 strontium fluorides  
 NT2 strontium iodides  
 NT1 sulfur halides  
 NT2 sulfur chlorides  
 NT2 sulfur fluorides  
 NT1 tantalum halides  
 NT2 tantalum bromides  
 NT2 tantalum chlorides  
 NT2 tantalum fluorides  
 NT2 tantalum iodides  
 NT1 technetium halides  
 NT2 technetium bromides  
 NT2 technetium chlorides  
 NT2 technetium fluorides  
 NT2 technetium iodides  
 NT1 tellurium halides  
 NT2 tellurium bromides  
 NT2 tellurium chlorides  
 NT2 tellurium fluorides  
 NT2 tellurium iodides  
 NT1 terbium halides  
 NT2 terbium bromides  
 NT2 terbium chlorides  
 NT2 terbium fluorides  
 NT2 terbium iodides  
 NT1 thallium halides  
 NT2 thallium bromides  
 NT2 thallium chlorides  
 NT2 thallium fluorides  
 NT2 thallium iodides  
 NT1 thionyl halides  
 NT2 thionyl chlorides  
 NT1 thorium halides  
 NT2 thorium bromides  
 NT2 thorium chlorides  
 NT2 thorium fluorides  
 NT2 thorium iodides  
 NT1 thulium halides  
 NT2 thulium bromides  
 NT2 thulium chlorides  
 NT2 thulium fluorides  
 NT2 thulium iodides  
 NT1 tin halides  
 NT2 tin bromides  
 NT2 tin chlorides  
 NT2 tin fluorides  
 NT2 tin iodides  
 NT1 titanium halides  
 NT2 titanium bromides  
 NT2 titanium chlorides  
 NT2 titanium fluorides  
 NT2 titanium iodides  
 NT1 tungsten halides  
 NT2 tungsten bromides  
 NT2 tungsten chlorides  
 NT2 tungsten fluorides  
 NT2 tungsten iodides  
 NT1 uranium halides  
 NT2 uranium bromides  
 NT2 uranium chlorides  
 NT2 uranium fluorides  
 NT3 uranium hexafluoride  
 NT3 uranium pentafluoride  
 NT3 uranium tetrafluoride  
 NT2 uranium iodides  
 NT1 uranyl halides  
 NT2 uranyl chlorides  
 NT2 uranyl fluorides  
 NT1 vanadium halides  
 NT2 vanadium bromides  
 NT2 vanadium chlorides  
 NT2 vanadium fluorides  
 NT2 vanadium iodides  
 NT1 xenon halides  
 NT2 xenon bromides  
 NT2 xenon chlorides  
 NT2 xenon fluorides  
 NT2 xenon iodides  
 NT1 ytterbium halides  
 NT2 ytterbium bromides  
 NT2 ytterbium chlorides  
 NT2 ytterbium fluorides  
 NT2 ytterbium iodides  
 NT1 yttrium halides  
 NT2 yttrium bromides  
 NT2 yttrium chlorides  
 NT2 yttrium fluorides  
 NT2 yttrium iodides  
 NT1 zinc halides  
 NT2 zinc bromides  
 NT2 zinc chlorides  
 NT2 zinc fluorides  
 NT2 zinc iodides  
 NT1 zirconium halides  
 NT2 zirconium bromides

NT2 zirconium chlorides  
 NT2 zirconium fluorides  
 NT2 zirconium iodides

**HALITE**

*INIS: 2000-04-20; ETDE: 1985-09-23*

\*BT1 halide minerals  
 RT evaporites  
 RT salt deposits  
 RT sodium chlorides

**HALL EFFECT**

RT electric conductors  
 RT ettingshausen effect  
 RT nernst effect  
 RT righi-leduc effect  
 RT shubnikov-de haas effect

**hall generators**

USE mhd generators

**hallam nuclear power facility**

USE hnpf reactor

**HALLEY COMET**

*INIS: 1986-08-19; ETDE: 1986-09-05*

BT1 comets  
 RT solar system

**HALLIMONDITE**

*2000-04-12*

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT arsenic oxides  
 RT lead oxides  
 RT uranium oxides

**halls**

2006-05-26  
 SEE high rooms

**HALLUCINOGENS**

*1996-06-26*

\*BT1 psychotropic drugs  
 NT1 bufotenine  
 RT marihuana

**halo states**

1995-07-03  
 USE nuclear halos

**HALOGEN COMPOUNDS**

*For inorganic compounds only; see also ORGANIC HALOGEN COMPOUNDS.*

NT1 astatine compounds  
 NT2 astatine halides  
 NT3 astatine bromides  
 NT3 astatine chlorides  
 NT3 astatine iodides  
 NT1 bromine compounds  
 NT2 bromates  
 NT2 bromic acid  
 NT2 bromides  
 NT3 actinium bromides  
 NT3 aluminium bromides  
 NT3 americium bromides  
 NT3 antimony bromides  
 NT3 arsenic bromides  
 NT3 astatine bromides  
 NT3 barium bromides  
 NT3 berkelium bromides  
 NT3 beryllium bromides  
 NT3 bismuth bromides  
 NT3 boron bromides  
 NT3 cadmium bromides  
 NT3 calcium bromides  
 NT3 californium bromides  
 NT3 cerium bromides  
 NT3 cesium bromides  
 NT3 chromium bromides  
 NT3 cobalt bromides  
 NT3 copper bromides

NT3	curium bromides	NT2	chlorides	NT3	sodium chlorides
NT3	dysprosium bromides	NT3	actinium chlorides	NT3	strontium chlorides
NT3	einsteinium bromides	NT3	aluminium chlorides	NT3	sulfur chlorides
NT3	erbium bromides	NT3	americium chlorides	NT3	tantalum chlorides
NT3	europium bromides	NT3	ammonium chlorides	NT3	technetium chlorides
NT3	fermium bromides	NT3	antimony chlorides	NT3	tellurium chlorides
NT3	gadolinium bromides	NT3	argon chlorides	NT3	terbium chlorides
NT3	gallium bromides	NT3	arsenic chlorides	NT3	tetrazolium
NT3	germanium bromides	NT3	astatine chlorides	NT3	thallium chlorides
NT3	gold bromides	NT3	barium chlorides	NT3	thionyl chlorides
NT3	hafnium bromides	NT3	berkelium chlorides	NT3	thorium chlorides
NT3	holmium bromides	NT3	beryllium chlorides	NT3	thulium chlorides
NT3	hydrogen bromides	NT3	bismuth chlorides	NT3	tin chlorides
NT3	indium bromides	NT3	boron chlorides	NT3	titanium chlorides
NT3	iodine bromides	NT3	bromine chlorides	NT3	tungsten chlorides
NT3	iron bromides	NT3	cadmium chlorides	NT3	uranium chlorides
NT3	krypton bromides	NT3	calcium chlorides	NT3	uranyl chlorides
NT3	lanthanum bromides	NT3	californium chlorides	NT3	vanadium chlorides
NT3	lead bromides	NT3	cerium chlorides	NT3	xenon chlorides
NT3	lithium bromides	NT3	cesium chlorides	NT3	ytterbium chlorides
NT3	lutetium bromides	NT3	chromium chlorides	NT3	yttrium chlorides
NT3	magnesium bromides	NT3	cobalt chlorides	NT3	zinc chlorides
NT3	manganese bromides	NT3	copper chlorides	NT3	zirconium chlorides
NT3	mercury bromides	NT3	curium chlorides	NT2	chlorine halides
NT3	molybdenum bromides	NT3	dysprosium chlorides	NT3	chlorine fluorides
NT3	neodymium bromides	NT3	einsteinium chlorides	NT2	chlorine nitrates
NT3	neon bromides	NT3	erbium chlorides	NT2	chlorine oxides
NT3	neptunium bromides	NT3	europium chlorides	NT2	chlorous acid
NT3	nickel bromides	NT3	fermium chlorides	NT2	hydrochloric acid
NT3	niobium bromides	NT3	francium chlorides	NT2	hypochlorous acid
NT3	nitrogen bromides	NT3	gadolinium chlorides	NT2	oxychlorides
NT3	palladium bromides	NT3	gallium chlorides	NT2	perchlorates
NT3	phosphorus bromides	NT3	germanium chlorides	NT3	aluminium perchlorates
NT3	platinum bromides	NT3	gold chlorides	NT3	americium perchlorates
NT3	plutonium bromides	NT3	hafnium chlorides	NT3	ammonium perchlorates
NT3	polonium bromides	NT3	helium chlorides	NT3	barium perchlorates
NT3	potassium bromides	NT3	holmium chlorides	NT3	cadmium perchlorates
NT3	praseodymium bromides	NT3	hydrogen chlorides	NT3	calcium perchlorates
NT3	promethium bromides	NT3	indium chlorides	NT3	cerium perchlorates
NT3	protactinium bromides	NT3	iodine chlorides	NT3	cesium perchlorates
NT3	radium bromides	NT3	iridium chlorides	NT3	chromium perchlorates
NT3	rhenium bromides	NT3	iron chlorides	NT3	cobalt perchlorates
NT3	rhodium bromides	NT3	krypton chlorides	NT3	copper perchlorates
NT3	rubidium bromides	NT3	lanthanum chlorides	NT3	dysprosium perchlorates
NT3	ruthenium bromides	NT3	lead chlorides	NT3	erbium perchlorates
NT3	samarium bromides	NT3	lithium chlorides	NT3	europium perchlorates
NT3	scandium bromides	NT3	lutetium chlorides	NT3	gadolinium perchlorates
NT3	selenium bromides	NT3	magnesium chlorides	NT3	hafnium perchlorates
NT3	silicon bromides	NT3	manganese chlorides	NT3	holmium perchlorates
NT3	silver bromides	NT3	mercury chlorides	NT3	indium perchlorates
NT3	sodium bromides	NT3	methylene blue	NT3	iron perchlorates
NT3	strontium bromides	NT3	molybdenum chlorides	NT3	lanthanum perchlorates
NT3	tantalum bromides	NT3	neodymium chlorides	NT3	lead perchlorates
NT3	technetium bromides	NT3	neon chlorides	NT3	lithium perchlorates
NT3	tellurium bromides	NT3	neptunium chlorides	NT3	lutetium perchlorates
NT3	terbium bromides	NT3	nickel chlorides	NT3	magnesium perchlorates
NT3	thallium bromides	NT3	niobium chlorides	NT3	manganese perchlorates
NT3	thorium bromides	NT3	nitrogen chlorides	NT3	mercury perchlorates
NT3	thulium bromides	NT3	osmium chlorides	NT3	neodymium perchlorates
NT3	tin bromides	NT3	palladium chlorides	NT3	neptunium perchlorates
NT3	titanium bromides	NT3	phosphorus chlorides	NT3	plutonium perchlorates
NT3	tungsten bromides	NT3	platinum chlorides	NT3	potassium perchlorates
NT3	uranium bromides	NT3	plutonium chlorides	NT3	praseodymium perchlorates
NT3	vanadium bromides	NT3	polonium chlorides	NT3	rubidium perchlorates
NT3	xenon bromides	NT3	potassium chlorides	NT3	samarium perchlorates
NT3	ytterbium bromides	NT3	praseodymium chlorides	NT3	scandium perchlorates
NT3	yttrium bromides	NT3	promethium chlorides	NT3	silver perchlorates
NT3	zinc bromides	NT3	protactinium chlorides	NT3	sodium perchlorates
NT3	zirconium bromides	NT3	radium chlorides	NT3	strontium perchlorates
NT2	bromine halides	NT3	rhenium chlorides	NT3	terbium perchlorates
NT3	bromine chlorides	NT3	rhodium chlorides	NT3	thallium perchlorates
NT3	bromine fluorides	NT3	rubidium chlorides	NT3	thorium perchlorates
NT2	bromine oxides	NT3	ruthenium chlorides	NT3	thulium perchlorates
NT2	hydrobromic acid	NT3	rutherfordium chlorides	NT3	uranium perchlorates
NT2	oxybromides	NT3	samarium chlorides	NT3	uranyl perchlorates
NT2	perbromates	NT3	scandium chlorides	NT3	ytterbium perchlorates
NT1	chlorine compounds	NT3	selenium chlorides	NT3	yttrium perchlorates
NT2	chlorates	NT3	silicon chlorides	NT3	zinc perchlorates
NT2	chloric acid	NT3	silver chlorides	NT3	zirconium perchlorates

- NT2** perchloric acid  
**NT1** fluorine compounds  
**NT2** fluorates  
**NT2** fluorides  
**NT3** actinium fluorides  
**NT3** aluminium fluorides  
**NT3** americium fluorides  
**NT3** ammonium fluorides  
**NT3** antimony fluorides  
**NT3** argon fluorides  
**NT3** arsenic fluorides  
**NT3** barium fluorides  
**NT3** berkelium fluorides  
**NT3** beryllium fluorides  
**NT3** bismuth fluorides  
**NT3** boron fluorides  
**NT3** bromine fluorides  
**NT3** cadmium fluorides  
**NT3** calcium fluorides  
**NT3** californium fluorides  
**NT3** carbon fluorides  
**NT3** cerium fluorides  
**NT3** cesium fluorides  
**NT3** chlorine fluorides  
**NT3** chromium fluorides  
**NT3** cobalt fluorides  
**NT3** copper fluorides  
**NT3** curium fluorides  
**NT3** dysprosium fluorides  
**NT3** einsteinium fluorides  
**NT3** erbium fluorides  
**NT3** europium fluorides  
**NT3** gadolinium fluorides  
**NT3** gallium fluorides  
**NT3** germanium fluorides  
**NT3** gold fluorides  
**NT3** hafnium fluorides  
**NT3** holmium fluorides  
**NT3** hydrogen fluorides  
**NT3** indium fluorides  
**NT3** iodine fluorides  
**NT3** iridium fluorides  
**NT3** iron fluorides  
**NT3** krypton fluorides  
**NT3** lanthanum fluorides  
**NT3** lead fluorides  
**NT3** lithium fluorides  
**NT3** lutetium fluorides  
**NT3** magnesium fluorides  
**NT3** manganese fluorides  
**NT3** mercury fluorides  
**NT3** molybdenum fluorides  
**NT3** neodymium fluorides  
**NT3** neon fluorides  
**NT3** neptunium fluorides  
**NT3** nickel fluorides  
**NT3** niobium fluorides  
**NT3** nitrogen fluorides  
**NT3** osmium fluorides  
**NT3** palladium fluorides  
**NT3** phosphorus fluorides  
**NT3** platinum fluorides  
**NT3** plutonium fluorides  
**NT3** polonium fluorides  
**NT3** potassium fluorides  
**NT3** praseodymium fluorides  
**NT3** promethium fluorides  
**NT3** protactinium fluorides  
**NT3** radium fluorides  
**NT3** radon fluorides  
**NT3** rhenium fluorides  
**NT3** rhodium fluorides  
**NT3** rubidium fluorides  
**NT3** ruthenium fluorides  
**NT3** samarium fluorides  
**NT3** scandium fluorides  
**NT3** selenium fluorides  
**NT3** silicon fluorides  
**NT3** silver fluorides  
**NT3** sodium fluorides  
**NT3** strontium fluorides  
**NT3** sulfur fluorides  
**NT3** tantalum fluorides  
**NT3** technetium fluorides  
**NT3** tellurium fluorides  
**NT3** terbium fluorides  
**NT3** thallium fluorides  
**NT3** thorium fluorides  
**NT3** thulium fluorides  
**NT3** tin fluorides  
**NT3** titanium fluorides  
**NT3** tungsten fluorides  
**NT3** uranium fluorides  
**NT4** uranium hexafluoride  
**NT4** uranium pentafluoride  
**NT4** uranium tetrafluoride  
**NT3** uranyl fluorides  
**NT3** vanadium fluorides  
**NT3** xenon fluorides  
**NT3** ytterbium fluorides  
**NT3** yttrium fluorides  
**NT3** zinc fluorides  
**NT3** zirconium fluorides  
**NT2** fluorine oxides  
**NT2** fluoroborates  
**NT2** fluoroboric acid  
**NT2** hydrofluoric acid  
**NT2** hypofluorous acid  
**NT2** oxyfluorides  
**NT1** halides  
**NT2** actinium halides  
**NT3** actinium bromides  
**NT3** actinium chlorides  
**NT3** actinium fluorides  
**NT2** aluminium halides  
**NT3** aluminium bromides  
**NT3** aluminium chlorides  
**NT3** aluminium fluorides  
**NT3** aluminium iodides  
**NT2** americium halides  
**NT3** americium bromides  
**NT3** americium chlorides  
**NT3** americium fluorides  
**NT3** americium iodides  
**NT2** ammonium halides  
**NT3** ammonium chlorides  
**NT3** ammonium fluorides  
**NT2** antimony halides  
**NT3** antimony bromides  
**NT3** antimony chlorides  
**NT3** antimony fluorides  
**NT3** antimony iodides  
**NT2** argon halides  
**NT3** argon chlorides  
**NT3** argon fluorides  
**NT3** argon iodides  
**NT2** arsenic halides  
**NT3** arsenic bromides  
**NT3** arsenic chlorides  
**NT3** arsenic fluorides  
**NT3** arsenic iodides  
**NT2** astatine halides  
**NT3** astatine bromides  
**NT3** astatine chlorides  
**NT3** astatine iodides  
**NT2** barium halides  
**NT3** barium bromides  
**NT3** barium chlorides  
**NT3** barium fluorides  
**NT3** barium iodides  
**NT2** berkelium halides  
**NT3** berkelium bromides  
**NT3** berkelium chlorides  
**NT3** berkelium fluorides  
**NT2** beryllium halides  
**NT3** beryllium bromides  
**NT3** beryllium chlorides  
**NT3** beryllium fluorides  
**NT3** beryllium iodides  
**NT2** bismuth halides  
**NT3** bismuth bromides  
**NT3** bismuth chlorides  
**NT3** bismuth fluorides  
**NT3** bismuth iodides  
**NT2** boron halides  
**NT3** boron bromides  
**NT3** boron chlorides  
**NT3** boron fluorides  
**NT3** boron iodides  
**NT2** bromides  
**NT3** actinium bromides  
**NT3** aluminium bromides  
**NT3** americium bromides  
**NT3** antimony bromides  
**NT3** arsenic bromides  
**NT3** astatine bromides  
**NT3** barium bromides  
**NT3** berkelium bromides  
**NT3** beryllium bromides  
**NT3** bismuth bromides  
**NT3** boron bromides  
**NT3** cadmium bromides  
**NT3** calcium bromides  
**NT3** californium bromides  
**NT3** cerium bromides  
**NT3** cesium bromides  
**NT3** chromium bromides  
**NT3** cobalt bromides  
**NT3** copper bromides  
**NT3** curium bromides  
**NT3** dysprosium bromides  
**NT3** einsteinium bromides  
**NT3** erbium bromides  
**NT3** europium bromides  
**NT3** fermium bromides  
**NT3** gadolinium bromides  
**NT3** gallium bromides  
**NT3** germanium bromides  
**NT3** gold bromides  
**NT3** hafnium bromides  
**NT3** holmium bromides  
**NT3** hydrogen bromides  
**NT3** indium bromides  
**NT3** iodine bromides  
**NT3** iron bromides  
**NT3** krypton bromides  
**NT3** lanthanum bromides  
**NT3** lead bromides  
**NT3** lithium bromides  
**NT3** lutetium bromides  
**NT3** magnesium bromides  
**NT3** manganese bromides  
**NT3** mercury bromides  
**NT3** molybdenum bromides  
**NT3** neodymium bromides  
**NT3** neon bromides  
**NT3** neptunium bromides  
**NT3** nickel bromides  
**NT3** niobium bromides  
**NT3** nitrogen bromides  
**NT3** palladium bromides  
**NT3** phosphorus bromides  
**NT3** platinum bromides  
**NT3** plutonium bromides  
**NT3** polonium bromides  
**NT3** potassium bromides  
**NT3** praseodymium bromides  
**NT3** promethium bromides  
**NT3** protactinium bromides  
**NT3** radium bromides  
**NT3** rhenium bromides  
**NT3** rhodium bromides  
**NT3** rubidium bromides  
**NT3** ruthenium bromides  
**NT3** samarium bromides  
**NT3** scandium bromides  
**NT3** selenium bromides

NT3	silicon bromides	NT3	fermium chlorides	NT3	chromium fluorides
NT3	silver bromides	NT3	francium chlorides	NT3	chromium iodides
NT3	sodium bromides	NT3	gadolinium chlorides	NT2	cobalt halides
NT3	strontium bromides	NT3	gallium chlorides	NT3	cobalt bromides
NT3	tantalum bromides	NT3	germanium chlorides	NT3	cobalt chlorides
NT3	technetium bromides	NT3	gold chlorides	NT3	cobalt fluorides
NT3	tellurium bromides	NT3	hafnium chlorides	NT3	cobalt iodides
NT3	terbium bromides	NT3	helium chlorides	NT2	copper halides
NT3	thallium bromides	NT3	holmium chlorides	NT3	copper bromides
NT3	thorium bromides	NT3	hydrogen chlorides	NT3	copper chlorides
NT3	thulium bromides	NT3	indium chlorides	NT3	copper fluorides
NT3	tin bromides	NT3	iodine chlorides	NT3	copper iodides
NT3	titanium bromides	NT3	iridium chlorides	NT2	curium halides
NT3	tungsten bromides	NT3	iron chlorides	NT3	curium bromides
NT3	uranium bromides	NT3	krypton chlorides	NT3	curium chlorides
NT3	vanadium bromides	NT3	lanthanum chlorides	NT3	curium fluorides
NT3	xenon bromides	NT3	lead chlorides	NT3	curium iodides
NT3	ytterbium bromides	NT3	lithium chlorides	NT2	dysprosium halides
NT3	yttrium bromides	NT3	lutetium chlorides	NT3	dysprosium bromides
NT3	zinc bromides	NT3	magnesium chlorides	NT3	dysprosium chlorides
NT3	zirconium bromides	NT3	manganese chlorides	NT3	dysprosium fluorides
NT2	bromine halides	NT3	mercury chlorides	NT3	dysprosium iodides
NT3	bromine chlorides	NT3	methylene blue	NT2	einsteinium halides
NT3	bromine fluorides	NT3	molybdenum chlorides	NT3	einsteinium bromides
NT2	cadmium halides	NT3	neodymium chlorides	NT3	einsteinium chlorides
NT3	cadmium bromides	NT3	neon chlorides	NT3	einsteinium fluorides
NT3	cadmium chlorides	NT3	neptunium chlorides	NT3	einsteinium iodides
NT3	cadmium fluorides	NT3	nickel chlorides	NT2	erbium halides
NT3	cadmium iodides	NT3	niobium chlorides	NT3	erbium bromides
NT2	calcium halides	NT3	nitrogen chlorides	NT3	erbium chlorides
NT3	calcium bromides	NT3	osmium chlorides	NT3	erbium fluorides
NT3	calcium chlorides	NT3	palladium chlorides	NT3	erbium iodides
NT3	calcium fluorides	NT3	phosphorus chlorides	NT2	europium halides
NT3	calcium iodides	NT3	platinum chlorides	NT3	europium bromides
NT2	californium halides	NT3	plutonium chlorides	NT3	europium chlorides
NT3	californium bromides	NT3	polonium chlorides	NT3	europium fluorides
NT3	californium chlorides	NT3	potassium chlorides	NT3	europium iodides
NT3	californium fluorides	NT3	praseodymium chlorides	NT2	fermium halides
NT3	californium iodides	NT3	promethium chlorides	NT3	fermium bromides
NT2	carbon halides	NT3	protactinium chlorides	NT3	fermium chlorides
NT3	carbon fluorides	NT3	radium chlorides	NT3	fermium iodides
NT2	cerium halides	NT3	rhenium chlorides	NT2	fluorides
NT3	cerium bromides	NT3	rhodium chlorides	NT3	actinium fluorides
NT3	cerium chlorides	NT3	rubidium chlorides	NT3	aluminium fluorides
NT3	cerium fluorides	NT3	ruthenium chlorides	NT3	americium fluorides
NT3	cerium iodides	NT3	rutherfordium chlorides	NT3	ammonium fluorides
NT2	cesium halides	NT3	samarium chlorides	NT3	antimony fluorides
NT3	cesium bromides	NT3	scandium chlorides	NT3	argon fluorides
NT3	cesium chlorides	NT3	selenium chlorides	NT3	arsenic fluorides
NT3	cesium fluorides	NT3	silicon chlorides	NT3	barium fluorides
NT3	cesium iodides	NT3	silver chlorides	NT3	berkelium fluorides
NT2	chlorides	NT3	sodium chlorides	NT3	beryllium fluorides
NT3	actinium chlorides	NT3	strontium chlorides	NT3	bismuth fluorides
NT3	aluminium chlorides	NT3	sulfur chlorides	NT3	boron fluorides
NT3	americium chlorides	NT3	tantalum chlorides	NT3	bromine fluorides
NT3	ammonium chlorides	NT3	technetium chlorides	NT3	cadmium fluorides
NT3	antimony chlorides	NT3	tellurium chlorides	NT3	calcium fluorides
NT3	argon chlorides	NT3	terbium chlorides	NT3	californium fluorides
NT3	arsenic chlorides	NT3	tetrazolium	NT3	carbon fluorides
NT3	astatine chlorides	NT3	thallium chlorides	NT3	cerium fluorides
NT3	barium chlorides	NT3	thionyl chlorides	NT3	cesium fluorides
NT3	berkelium chlorides	NT3	thorium chlorides	NT3	chlorine fluorides
NT3	beryllium chlorides	NT3	thulium chlorides	NT3	chromium fluorides
NT3	bismuth chlorides	NT3	tin chlorides	NT3	cobalt fluorides
NT3	boron chlorides	NT3	titanium chlorides	NT3	copper fluorides
NT3	bromine chlorides	NT3	tungsten chlorides	NT3	curium fluorides
NT3	cadmium chlorides	NT3	uranium chlorides	NT3	dysprosium fluorides
NT3	calcium chlorides	NT3	uranyl chlorides	NT3	einsteinium fluorides
NT3	californium chlorides	NT3	vanadium chlorides	NT3	erbium fluorides
NT3	cerium chlorides	NT3	xenon chlorides	NT3	europium fluorides
NT3	cesium chlorides	NT3	ytterbium chlorides	NT3	gadolinium fluorides
NT3	chromium chlorides	NT3	yttrium chlorides	NT3	gallium fluorides
NT3	cobalt chlorides	NT3	zinc chlorides	NT3	germanium fluorides
NT3	copper chlorides	NT3	zirconium chlorides	NT3	gold fluorides
NT3	curium chlorides	NT2	chlorine halides	NT3	hafnium fluorides
NT3	dysprosium chlorides	NT3	chlorine fluorides	NT3	holmium fluorides
NT3	einsteinium chlorides	NT2	chromium halides	NT3	hydrogen fluorides
NT3	erbium chlorides	NT3	chromium bromides	NT3	indium fluorides
NT3	europium chlorides	NT3	chromium chlorides	NT3	iodine fluorides

- NT3** iridium fluorides  
**NT3** iron fluorides  
**NT3** krypton fluorides  
**NT3** lanthanum fluorides  
**NT3** lead fluorides  
**NT3** lithium fluorides  
**NT3** lutetium fluorides  
**NT3** magnesium fluorides  
**NT3** manganese fluorides  
**NT3** mercury fluorides  
**NT3** molybdenum fluorides  
**NT3** neodymium fluorides  
**NT3** neon fluorides  
**NT3** neptunium fluorides  
**NT3** nickel fluorides  
**NT3** niobium fluorides  
**NT3** nitrogen fluorides  
**NT3** osmium fluorides  
**NT3** palladium fluorides  
**NT3** phosphorus fluorides  
**NT3** platinum fluorides  
**NT3** plutonium fluorides  
**NT3** polonium fluorides  
**NT3** potassium fluorides  
**NT3** praseodymium fluorides  
**NT3** promethium fluorides  
**NT3** protactinium fluorides  
**NT3** radium fluorides  
**NT3** radon fluorides  
**NT3** rhenium fluorides  
**NT3** rhodium fluorides  
**NT3** rubidium fluorides  
**NT3** ruthenium fluorides  
**NT3** samarium fluorides  
**NT3** scandium fluorides  
**NT3** selenium fluorides  
**NT3** silicon fluorides  
**NT3** silver fluorides  
**NT3** sodium fluorides  
**NT3** strontium fluorides  
**NT3** sulfur fluorides  
**NT3** tantalum fluorides  
**NT3** technetium fluorides  
**NT3** tellurium fluorides  
**NT3** terbium fluorides  
**NT3** thallium fluorides  
**NT3** thorium fluorides  
**NT3** thulium fluorides  
**NT3** tin fluorides  
**NT3** titanium fluorides  
**NT3** tungsten fluorides  
**NT3** uranium fluorides  
**NT4** uranium hexafluoride  
**NT4** uranium pentafluoride  
**NT4** uranium tetrafluoride  
**NT3** uranyl fluorides  
**NT3** vanadium fluorides  
**NT3** xenon fluorides  
**NT3** ytterbium fluorides  
**NT3** yttrium fluorides  
**NT3** zinc fluorides  
**NT3** zirconium fluorides  
**NT2** francium halides  
**NT3** francium chlorides  
**NT2** gadolinium halides  
**NT3** gadolinium bromides  
**NT3** gadolinium chlorides  
**NT3** gadolinium fluorides  
**NT3** gadolinium iodides  
**NT2** gallium halides  
**NT3** gallium bromides  
**NT3** gallium chlorides  
**NT3** gallium fluorides  
**NT3** gallium iodides  
**NT2** germanium halides  
**NT3** germanium bromides  
**NT3** germanium chlorides  
**NT3** germanium fluorides  
**NT3** germanium iodides  
**NT2** gold halides  
**NT3** gold bromides  
**NT3** gold chlorides  
**NT3** gold fluorides  
**NT3** gold iodides  
**NT2** hafnium halides  
**NT3** hafnium bromides  
**NT3** hafnium chlorides  
**NT3** hafnium fluorides  
**NT3** hafnium iodides  
**NT2** helium halides  
**NT3** helium chlorides  
**NT2** holmium halides  
**NT3** holmium bromides  
**NT3** holmium chlorides  
**NT3** holmium fluorides  
**NT3** holmium iodides  
**NT2** hydrogen halides  
**NT3** hydrogen bromides  
**NT3** hydrogen chlorides  
**NT3** hydrogen fluorides  
**NT3** hydrogen iodides  
**NT2** indium halides  
**NT3** indium bromides  
**NT3** indium chlorides  
**NT3** indium fluorides  
**NT3** indium iodides  
**NT2** iodides  
**NT3** aluminium iodides  
**NT3** americium iodides  
**NT3** antimony iodides  
**NT3** argon iodides  
**NT3** arsenic iodides  
**NT3** astatine iodides  
**NT3** barium iodides  
**NT3** beryllium iodides  
**NT3** bismuth iodides  
**NT3** boron iodides  
**NT3** cadmium iodides  
**NT3** calcium iodides  
**NT3** californium iodides  
**NT3** cerium iodides  
**NT3** cesium iodides  
**NT3** chromium iodides  
**NT3** cobalt iodides  
**NT3** copper iodides  
**NT3** curium iodides  
**NT3** dysprosium iodides  
**NT3** einsteinium iodides  
**NT3** erbium iodides  
**NT3** europium iodides  
**NT3** fermium iodides  
**NT3** gadolinium iodides  
**NT3** gallium iodides  
**NT3** germanium iodides  
**NT3** gold iodides  
**NT3** hafnium iodides  
**NT3** holmium iodides  
**NT3** hydrogen iodides  
**NT3** indium iodides  
**NT3** iron iodides  
**NT4** iron halides  
**NT5** iron bromides  
**NT5** iron chlorides  
**NT5** iron fluorides  
**NT3** lanthanum iodides  
**NT3** lead iodides  
**NT3** lithium iodides  
**NT3** lutetium iodides  
**NT3** magnesium iodides  
**NT3** manganese iodides  
**NT3** mercury iodides  
**NT3** molybdenum iodides  
**NT3** neodymium iodides  
**NT3** neon iodides  
**NT3** neptunium iodides  
**NT3** nickel iodides  
**NT3** niobium iodides  
**NT3** nitrogen iodides  
**NT3** palladium iodides  
**NT3** phosphorus iodides  
**NT3** platinum iodides  
**NT3** plutonium iodides  
**NT3** polonium iodides  
**NT3** potassium iodides  
**NT3** praseodymium iodides  
**NT3** promethium iodides  
**NT3** protactinium iodides  
**NT3** rhenium iodides  
**NT3** rubidium iodides  
**NT3** samarium iodides  
**NT3** scandium iodides  
**NT3** selenium iodides  
**NT3** silicon iodides  
**NT3** silver iodides  
**NT3** sodium iodides  
**NT3** strontium iodides  
**NT3** tantalum iodides  
**NT3** technetium iodides  
**NT3** tellurium iodides  
**NT3** terbium iodides  
**NT3** thallium iodides  
**NT3** thorium iodides  
**NT3** thulium iodides  
**NT3** tin iodides  
**NT3** titanium iodides  
**NT3** tungsten iodides  
**NT3** uranium iodides  
**NT3** vanadium iodides  
**NT3** xenon iodides  
**NT3** ytterbium iodides  
**NT3** yttrium iodides  
**NT3** zinc iodides  
**NT3** zirconium iodides  
**NT2** iodine halides  
**NT3** iodine bromides  
**NT3** iodine chlorides  
**NT3** iodine fluorides  
**NT2** iridium halides  
**NT3** iridium chlorides  
**NT3** iridium fluorides  
**NT2** iron halides  
**NT3** iron bromides  
**NT3** iron chlorides  
**NT3** iron fluorides  
**NT2** krypton halides  
**NT3** krypton bromides  
**NT3** krypton chlorides  
**NT3** krypton fluorides  
**NT2** lanthanum halides  
**NT3** lanthanum bromides  
**NT3** lanthanum chlorides  
**NT3** lanthanum fluorides  
**NT3** lanthanum iodides  
**NT2** lead halides  
**NT3** lead bromides  
**NT3** lead chlorides  
**NT3** lead fluorides  
**NT3** lead iodides  
**NT2** lithium halides  
**NT3** lithium bromides  
**NT3** lithium chlorides  
**NT3** lithium fluorides  
**NT3** lithium iodides  
**NT2** lutetium halides  
**NT3** lutetium bromides  
**NT3** lutetium chlorides  
**NT3** lutetium fluorides  
**NT3** lutetium iodides  
**NT2** magnesium halides  
**NT3** magnesium bromides  
**NT3** magnesium chlorides  
**NT3** magnesium fluorides  
**NT3** magnesium iodides  
**NT2** manganese halides  
**NT3** manganese bromides  
**NT3** manganese chlorides  
**NT3** manganese fluorides



- NT3 manganese iodides  
 NT2 mercury halides  
 NT3 mercury bromides  
 NT3 mercury chlorides  
 NT3 mercury fluorides  
 NT3 mercury iodides  
 NT2 molybdenum halides  
 NT3 molybdenum bromides  
 NT3 molybdenum chlorides  
 NT3 molybdenum fluorides  
 NT3 molybdenum iodides  
 NT2 neodymium halides  
 NT3 neodymium bromides  
 NT3 neodymium chlorides  
 NT3 neodymium fluorides  
 NT3 neodymium iodides  
 NT2 neon halides  
 NT3 neon bromides  
 NT3 neon chlorides  
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 NT3 neon iodides  
 NT2 neptunium halides  
 NT3 neptunium bromides  
 NT3 neptunium chlorides  
 NT3 neptunium fluorides  
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 NT3 nickel chlorides  
 NT3 nickel fluorides  
 NT3 nickel iodides  
 NT2 niobium halides  
 NT3 niobium bromides  
 NT3 niobium chlorides  
 NT3 niobium fluorides  
 NT3 niobium iodides  
 NT2 nitrogen halides  
 NT3 nitrogen bromides  
 NT3 nitrogen chlorides  
 NT3 nitrogen fluorides  
 NT3 nitrogen iodides  
 NT2 osmium halides  
 NT3 osmium chlorides  
 NT3 osmium fluorides  
 NT2 palladium halides  
 NT3 palladium bromides  
 NT3 palladium chlorides  
 NT3 palladium fluorides  
 NT3 palladium iodides  
 NT2 phosphorus halides  
 NT3 phosphorus bromides  
 NT3 phosphorus chlorides  
 NT3 phosphorus fluorides  
 NT3 phosphorus iodides  
 NT2 platinum halides  
 NT3 platinum bromides  
 NT3 platinum chlorides  
 NT3 platinum fluorides  
 NT3 platinum iodides  
 NT2 plutonium halides  
 NT3 plutonium bromides  
 NT3 plutonium chlorides  
 NT3 plutonium fluorides  
 NT3 plutonium iodides  
 NT2 polonium halides  
 NT3 polonium bromides  
 NT3 polonium chlorides  
 NT3 polonium fluorides  
 NT3 polonium iodides  
 NT2 potassium halides  
 NT3 potassium bromides  
 NT3 potassium chlorides  
 NT3 potassium fluorides  
 NT3 potassium iodides  
 NT2 praseodymium halides  
 NT3 praseodymium bromides  
 NT3 praseodymium chlorides  
 NT3 praseodymium fluorides  
 NT3 praseodymium iodides  
 NT2 promethium halides  
 NT3 promethium bromides  
 NT3 promethium chlorides  
 NT3 promethium fluorides  
 NT3 promethium iodides  
 NT2 protactinium halides  
 NT3 protactinium bromides  
 NT3 protactinium chlorides  
 NT3 protactinium fluorides  
 NT3 protactinium iodides  
 NT2 radium halides  
 NT3 radium bromides  
 NT3 radium chlorides  
 NT3 radium fluorides  
 NT2 radon halides  
 NT3 radon fluorides  
 NT2 rhenium halides  
 NT3 rhenium bromides  
 NT3 rhenium chlorides  
 NT3 rhenium fluorides  
 NT3 rhenium iodides  
 NT2 rhodium halides  
 NT3 rhodium bromides  
 NT3 rhodium chlorides  
 NT3 rhodium fluorides  
 NT2 rubidium halides  
 NT3 rubidium bromides  
 NT3 rubidium chlorides  
 NT3 rubidium fluorides  
 NT3 rubidium iodides  
 NT2 ruthenium halides  
 NT3 ruthenium bromides  
 NT3 ruthenium chlorides  
 NT3 ruthenium fluorides  
 NT2 rutherfordium halides  
 NT3 rutherfordium chlorides  
 NT2 samarium halides  
 NT3 samarium bromides  
 NT3 samarium chlorides  
 NT3 samarium fluorides  
 NT3 samarium iodides  
 NT2 scandium halides  
 NT3 scandium bromides  
 NT3 scandium chlorides  
 NT3 scandium fluorides  
 NT3 scandium iodides  
 NT2 selenium halides  
 NT3 selenium bromides  
 NT3 selenium chlorides  
 NT3 selenium fluorides  
 NT3 selenium iodides  
 NT2 silicon halides  
 NT3 silicon bromides  
 NT3 silicon chlorides  
 NT3 silicon fluorides  
 NT3 silicon iodides  
 NT2 silver halides  
 NT3 silver bromides  
 NT3 silver chlorides  
 NT3 silver fluorides  
 NT3 silver iodides  
 NT2 sodium halides  
 NT3 sodium bromides  
 NT3 sodium chlorides  
 NT3 sodium fluorides  
 NT3 sodium iodides  
 NT2 strontium halides  
 NT3 strontium bromides  
 NT3 strontium chlorides  
 NT3 strontium fluorides  
 NT3 strontium iodides  
 NT2 sulfur halides  
 NT3 sulfur chlorides  
 NT3 sulfur fluorides  
 NT2 tantalum halides  
 NT3 tantalum bromides  
 NT3 tantalum chlorides  
 NT3 tantalum fluorides  
 NT3 tantalum iodides  
 NT2 technetium halides  
 NT3 technetium bromides  
 NT3 technetium chlorides  
 NT3 technetium fluorides  
 NT3 technetium iodides  
 NT2 tellurium halides  
 NT3 tellurium bromides  
 NT3 tellurium chlorides  
 NT3 tellurium fluorides  
 NT3 tellurium iodides  
 NT2 terbium halides  
 NT3 terbium bromides  
 NT3 terbium chlorides  
 NT3 terbium fluorides  
 NT3 terbium iodides  
 NT2 thallium halides  
 NT3 thallium bromides  
 NT3 thallium chlorides  
 NT3 thallium fluorides  
 NT3 thallium iodides  
 NT2 thionyl halides  
 NT3 thionyl chlorides  
 NT2 thorium halides  
 NT3 thorium bromides  
 NT3 thorium chlorides  
 NT3 thorium fluorides  
 NT3 thorium iodides  
 NT2 thulium halides  
 NT3 thulium bromides  
 NT3 thulium chlorides  
 NT3 thulium fluorides  
 NT3 thulium iodides  
 NT2 tin halides  
 NT3 tin bromides  
 NT3 tin chlorides  
 NT3 tin fluorides  
 NT3 tin iodides  
 NT2 titanium halides  
 NT3 titanium bromides  
 NT3 titanium chlorides  
 NT3 titanium fluorides  
 NT3 titanium iodides  
 NT2 tungsten halides  
 NT3 tungsten bromides  
 NT3 tungsten chlorides  
 NT3 tungsten fluorides  
 NT3 tungsten iodides  
 NT2 uranium halides  
 NT3 uranium bromides  
 NT3 uranium chlorides  
 NT3 uranium fluorides  
 NT4 uranium hexafluoride  
 NT4 uranium pentafluoride  
 NT4 uranium tetrafluoride  
 NT3 uranium iodides  
 NT2 uranyl halides  
 NT3 uranyl chlorides  
 NT3 uranyl fluorides  
 NT2 vanadium halides  
 NT3 vanadium bromides  
 NT3 vanadium chlorides  
 NT3 vanadium fluorides  
 NT3 vanadium iodides  
 NT2 xenon halides  
 NT3 xenon bromides  
 NT3 xenon chlorides  
 NT3 xenon fluorides  
 NT3 xenon iodides  
 NT2 ytterbium halides  
 NT3 ytterbium bromides  
 NT3 ytterbium chlorides  
 NT3 ytterbium fluorides  
 NT3 ytterbium iodides  
 NT2 yttrium halides  
 NT3 yttrium bromides  
 NT3 yttrium chlorides  
 NT3 yttrium fluorides  
 NT3 yttrium iodides  
 NT2 zinc halides

**NT3** zinc bromides  
**NT3** zinc chlorides  
**NT3** zinc fluorides  
**NT3** zinc iodides  
**NT2** zirconium halides  
**NT3** zirconium bromides  
**NT3** zirconium chlorides  
**NT3** zirconium fluorides  
**NT3** zirconium iodides  
**NT1** iodine compounds  
**NT2** hydriodic acid  
**NT2** hypoiodous acid  
**NT2** iodates  
**NT2** iodic acid  
**NT2** iodides  
**NT3** aluminium iodides  
**NT3** americium iodides  
**NT3** antimony iodides  
**NT3** argon iodides  
**NT3** arsenic iodides  
**NT3** astatine iodides  
**NT3** barium iodides  
**NT3** beryllium iodides  
**NT3** bismuth iodides  
**NT3** boron iodides  
**NT3** cadmium iodides  
**NT3** calcium iodides  
**NT3** californium iodides  
**NT3** cerium iodides  
**NT3** cesium iodides  
**NT3** chromium iodides  
**NT3** cobalt iodides  
**NT3** copper iodides  
**NT3** curium iodides  
**NT3** dysprosium iodides  
**NT3** einsteinium iodides  
**NT3** erbium iodides  
**NT3** europium iodides  
**NT3** fermium iodides  
**NT3** gadolinium iodides  
**NT3** gallium iodides  
**NT3** germanium iodides  
**NT3** gold iodides  
**NT3** hafnium iodides  
**NT3** holmium iodides  
**NT3** hydrogen iodides  
**NT3** indium iodides  
**NT3** iron iodides  
**NT4** iron halides  
**NT5** iron bromides  
**NT5** iron chlorides  
**NT5** iron fluorides  
**NT3** lanthanum iodides  
**NT3** lead iodides  
**NT3** lithium iodides  
**NT3** lutetium iodides  
**NT3** magnesium iodides  
**NT3** manganese iodides  
**NT3** mercury iodides  
**NT3** molybdenum iodides  
**NT3** neodymium iodides  
**NT3** neon iodides  
**NT3** neptunium iodides  
**NT3** nickel iodides  
**NT3** niobium iodides  
**NT3** nitrogen iodides  
**NT3** palladium iodides  
**NT3** phosphorus iodides  
**NT3** platinum iodides  
**NT3** plutonium iodides  
**NT3** polonium iodides  
**NT3** potassium iodides  
**NT3** praseodymium iodides  
**NT3** promethium iodides  
**NT3** protactinium iodides  
**NT3** rhenium iodides  
**NT3** rubidium iodides  
**NT3** samarium iodides  
**NT3** scandium iodides

**NT3** selenium iodides  
**NT3** silicon iodides  
**NT3** silver iodides  
**NT3** sodium iodides  
**NT3** strontium iodides  
**NT3** tantalum iodides  
**NT3** technetium iodides  
**NT3** tellurium iodides  
**NT3** terbium iodides  
**NT3** thallium iodides  
**NT3** thorium iodides  
**NT3** thulium iodides  
**NT3** tin iodides  
**NT3** titanium iodides  
**NT3** tungsten iodides  
**NT3** uranium iodides  
**NT3** vanadium iodides  
**NT3** xenon iodides  
**NT3** ytterbium iodides  
**NT3** yttrium iodides  
**NT3** zinc iodides  
**NT3** zirconium iodides  
**NT2** iodine halides  
**NT3** iodine bromides  
**NT3** iodine chlorides  
**NT3** iodine fluorides  
**NT2** iodine oxides  
**NT2** oxyiodides  
**NT2** periodates  
**NT2** periodic acid  
**NT1** oxyhalides  
**NT2** oxybromides  
**NT2** oxychlorides  
**NT2** oxyfluorides  
**NT2** oxyiodides  
**RT** organic halogen compounds

#### HALOGENATED ALICYCLIC HYDROCARBONS

2000-04-12

**UF** brominated alicyclic hydrocarbons  
**\*BT1** organic halogen compounds  
**NT1** chlorinated alicyclic hydrocarbons  
**NT2** lindane  
**NT1** fluorinated alicyclic hydrocarbons  
**NT1** iodinated alicyclic hydrocarbons

#### HALOGENATED ALIPHATIC HYDROCARBONS

1991-09-30

(Prior to October 1991, this concept was indexed by ORGANIC HALOGEN COMPOUNDS.)

**\*BT1** organic halogen compounds  
**NT1** brominated aliphatic hydrocarbons  
**NT2** bromoform  
**NT2** methyl bromide  
**NT1** chlorinated aliphatic hydrocarbons  
**NT2** carbon tetrachloride  
**NT2** chloroform  
**NT2** methyl chloride  
**NT2** pvc  
**NT2** trichloroacetic acid  
**NT2** vinyl chloride  
**NT1** fluorinated aliphatic hydrocarbons  
**NT2** carbon tetrafluoride  
**NT2** fluoroform  
**NT2** methyl fluoride  
**NT2** polytetrafluoroethylene  
**NT3** teflon  
**NT2** tedlar  
**NT1** freons  
**NT1** iodinated aliphatic hydrocarbons  
**NT2** iodoform  
**NT2** methyl iodide  
**RT** refrigerants

#### HALOGENATED AROMATIC HYDROCARBONS

1991-10-01

(Prior to October 1991, this concept was indexed by AROMATICS and ORGANIC HALOGEN COMPOUNDS.)

**\*BT1** aromatics  
**\*BT1** organic halogen compounds  
**NT1** brominated aromatic hydrocarbons  
**NT1** chlorinated aromatic hydrocarbons  
**NT2** aldrin  
**NT2** polychlorinated biphenyls  
**NT1** fluorinated aromatic hydrocarbons  
**NT1** iodinated aromatic hydrocarbons

#### halogenated hydrocarbons

ETDE: 2002-06-13

USE organic halogen compounds

#### HALOGENATION

**BT1** chemical reactions  
**NT1** astatination  
**NT1** bromination  
**NT1** chlorination  
**NT2** sulfochlorination  
**NT1** fluorination  
**NT1** iodination

#### HALOGENS

**\*BT1** nonmetals  
**NT1** astatine  
**NT1** bromine  
**NT1** chlorine  
**NT1** fluorine  
**NT1** iodine

#### halpern-strutinski theory

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE angular distribution

#### HALTHANE

INIS: 2000-04-12; ETDE: 1979-02-27

\*BT1 polyurethanes

#### ham

USE meat

#### HAMADA-JOHNSTON POTENTIAL

\*BT1 nucleon-nucleon potential

RT nuclear models

RT nuclear potential

#### HAMAOKA-1 REACTOR

Chubu Electric Power Co., Omaezaki, Shizuoka, Japan. Permanent shutdown since January 2009.

UF chubu-1 reactor

\*BT1 bwr type reactors

#### HAMAOKA-2 REACTOR

Chubu Electric Power Co., Omaezaki, Shizuoka, Japan. Permanent shutdown since January 2009.

UF chubu-2 reactor

\*BT1 bwr type reactors

#### HAMAOKA-3 REACTOR

Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.

UF chubu-3 reactor

\*BT1 bwr type reactors

#### HAMAOKA-4 REACTOR

1992-11-03

Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.

UF chubu-4 reactor

\*BT1 bwr type reactors

**HAMAOKA-5 REACTOR**

2000-01-31

Chubu Electric Power Co., Omaezaki,  
Shizuoka, Japan.

UF chubu-5 reactor

\*BT1 bwr type reactors

**hamburg synchrotron**

USE desy

**HAMILTON-JACOBI EQUATIONS**

\*BT1 partial differential equations

RT equations of motion

RT hamiltonian function

RT mechanics

**hamilton operators**

USE hamiltonians

**HAMILTONIAN FUNCTION**

BT1 functions

RT classical mechanics

RT equations of motion

RT hamilton-jacobi equations

RT hamiltonians

RT limit cycle

**HAMILTONIANS**

UF energy operators

UF hamilton operators

\*BT1 quantum operators

RT detailed balance principle

RT hamiltonian function

RT integrability

RT sudden approximation

**HAMM-UENTROP REACTOR**

INIS: 1976-02-11; ETDE: 1976-04-19

\*BT1 pwr type reactors

**HAMSTERS**

UF chinese hamster

UF cricetus

UF mesocricetus

UF syrian hamster

\*BT1 rodents

**HANARO REACTOR**

INIS: 1999-01-26; ETDE: 1999-08-30

High-flux Advanced Neutron Application  
Reactor, KAERI, Republic of Korea.(The term KMR REACTOR was used by INIS  
prior to January 1999 and by ETDE prior to  
September 1999.)

UF kmr reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 materials testing reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

**HANBIT-1 REACTOR**

2017-06-09

Yonggwang, Republic of Korea.

(Prior to June 2017 this concept was indexed  
by YONGGWANG-1 REACTOR)

UF yonggwang-1 reactor

\*BT1 pwr type reactors

**HANBIT-2 REACTOR**

2017-06-09

Yonggwang, Republic of Korea.

(Prior to June 2017 this concept was indexed  
by YONGGWANG-2 REACTOR)

UF yonggwang-2 reactor

\*BT1 pwr type reactors

**HANBIT-3 REACTOR**

2017-06-09

Yonggwang, Republic of Korea.

(Prior to June 2017 this concept was indexed  
by YONGGWANG-3 REACTOR)

UF yonggwang-3 reactor

\*BT1 pwr type reactors

**HANBIT-4 REACTOR**

2017-06-09

Yonggwang, Republic of Korea.

(Prior to June 2017 this concept was indexed  
by YONGGWANG-4 REACTOR)

UF yonggwang-4 reactor

\*BT1 pwr type reactors

**HANBIT-5 REACTOR**

2017-06-09

Yonggwang, Republic of Korea.

\*BT1 pwr type reactors

**HANBIT-6 REACTOR**

2017-06-09

Yonggwang, Republic of Korea.

\*BT1 pwr type reactors

**handbooks**

INIS: 2000-04-12; ETDE: 1980-03-29

USE manuals

**handcar event**

1994-10-14

A test made during OPERATION  
WHETSTONE.(Prior to September 1994, this was a valid  
ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**HANDICAPPED PEOPLE**

INIS: 2000-04-12; ETDE: 1980-01-15

Physically or mentally disadvantaged people.

\*BT1 minority groups

RT elderly people

RT low income groups

RT sociology

**handley event**

1994-10-14

A test made during OPERATION MANDREL.

(Prior to September 1994, this was a valid  
ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**handling (data)**

USE data processing

**handling (materials)**

USE materials handling

**handling (wastes)**

USE waste management

**handling licenses**

INIS: 1976-12-08; ETDE: 1996-02-09

If appropriate use the descriptor MATERIALS  
HANDLING together with the one below.

USE licenses

**HANDS**

\*BT1 arms

NT1 fingers

RT gloves

RT manipulators

**hanford-2 reactor**Washington Public Power Supply System,  
Richland, Washington, USA. Name changed to  
Washington Public Power Supply System  
Nuclear Project Number 2, and current itemsare indexed to the abbreviated form WNP-2  
REACTOR.(Prior to August 2005 this was a valid  
descriptor.)

USE wnp-2 reactor

**hanford 305 test reactor**

2000-04-12

USE hew-305 reactor

**hanford atomic products operation**

USE hapo

**HANFORD ENGINEERING  
DEVELOPMENT LABORATORY**

INIS: 1995-02-16; ETDE: 1980-01-15

UF hedl

\*BT1 us doe

RT fffr reactor

RT hanford reservation

RT hapo

RT washington

**hanford neutron radiography facility**

INIS: 1979-09-18; ETDE: 1979-01-30

USE triga-1-hanford reactor

**HANFORD PRODUCTION  
REACTORS**

\*BT1 plutonium production reactors

**HANFORD RESERVATION**

INIS: 1976-10-29; ETDE: 1976-07-07

\*BT1 us doe

\*BT1 us erda

RT battelle pacific northwest laboratories

RT hanford engineering development  
laboratory

RT hapo

RT pasco basin

RT washington

**hankel functions**

USE bessel functions

**HANKEL TRANSFORM**

\*BT1 integral transformations

**hannover triga-mk-1 reactor**

2000-05-12

USE triga-1-hannover reactor

**hanul-1 reactor**

2017-10-25

USE ulchin-1 reactor

**hanul-2 reactor**

2017-10-25

USE ulchin-2 reactor

**hanul-3 reactor**

2017-10-25

USE ulchin-3 reactor

**hanul-4 reactor**

2017-10-25

USE ulchin-4 reactor

**hanul-6 reactor**

2017-10-25

USE ulchin-6 reactor

**HAPLOIDY**

BT1 ploidy

RT gametes

**HAPO**

UF hanford atomic products operation

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT battelle pacific northwest laboratories

RT hanford engineering development laboratory  
 RT hanford reservation  
 RT sequim bay

**HAPTOGLOBINS**

\*BT1 globulins-alpha  
 \*BT1 mucoproteins

**HARANG DISCONTINUITY**

UF midnight discontinuity  
 BT1 auroral oval  
 RT aurorae  
 RT ionosphere

**HARBORS**

1996-01-24  
 UF ports  
 RT inland waterways  
 RT marinas  
 RT moorings  
 RT seas

**hard coal**

INIS: 2000-03-28; ETDE: 1979-06-06  
 USE anthracite

**HARD COLLISION MODELS**

INIS: 1978-07-03; ETDE: 1978-04-05  
 Models which reduce the origin of high energy systems to a binary collision of the projectiles or some subunits thereof.  
 \*BT1 particle models

**HARD COMPONENT**

\*BT1 cosmic radiation

**HARD CORE PINCH**

BT1 pinch effect  
 RT linear hard core pinch devices

**HARD-CORE POTENTIAL**

1996-06-28  
 \*BT1 nuclear potential  
 RT jastrow theory  
 RT nucleons

**HARD FACING**

INIS: 2000-07-24; ETDE: 1978-07-05  
 UF hard surfacing  
 UF surfacing, hard  
 RT cladding  
 RT surface coating

**hard metals**

ETDE: 2002-06-13  
 USE cermets

**hard soldering**

USE brazing

**HARD-SPHERE MODEL**

RT gases

**hard surfacing**

INIS: 2000-07-24; ETDE: 1978-07-05  
 USE hard facing

**HARD X RADIATION**

\*BT1 x radiation

**HARDENING**

NT1 age hardening  
 NT1 dispersion hardening  
 NT1 precipitation hardening  
 NT1 quench hardening  
 NT1 radiation hardening  
 NT1 strain hardening  
 NT1 surface hardening  
 NT2 carburization  
 RT cold working  
 RT hardness  
 RT heat treatments

**hardening (spectral)**

USE spectral hardening

**hardhat event**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE plowshare project

**HARDNESS**

Not for RADIATION HARDNESS  
 SF durability  
 BT1 mechanical properties  
 NT1 microhardness  
 RT brinell hardness  
 RT hardening  
 RT indentation testing  
 RT knoop hardness  
 RT rockwell hardness  
 RT vickers hardness

**HARDTACK PROJECT**

2000-05-16  
 UF project hardtack  
 \*BT1 nuclear explosions  
 RT eniwetok

**HARMONIC GENERATION**

INIS: 2000-05-16; ETDE: 1986-01-14  
 UF second-harmonic generation  
 UF third-harmonic generation  
 BT1 frequency mixing  
 RT electromagnetic radiation  
 RT nonlinear optics  
 RT nonlinear problems  
 RT sound waves

**HARMONIC OSCILLATOR MODELS**

BT1 mathematical models  
 RT atomic models  
 RT harmonic oscillators  
 RT nuclear models  
 RT particle models

**HARMONIC OSCILLATORS**

RT anharmonic oscillators  
 RT equations of motion  
 RT harmonic oscillator models  
 RT mathematics  
 RT mechanics

**HARMONIC POTENTIAL**

\*BT1 nuclear potential

**harmonica devices**

2000-04-12  
 (Prior to June 1991 this was a valid ETDE descriptor. From June 1991 till March 1997 it referred to the since-deleted descriptor HARMONICA-2 DEVICE.)  
 USE thermonuclear devices

**HARMONICS**

Eigenfrequency oscillations excited in a vibrating system.  
 BT1 oscillations  
 NT1 cyclotron harmonics  
 RT lattice vibrations  
 RT mechanical vibrations  
 RT nonlinear vibrations  
 RT oscillation modes  
 RT plasma waves  
 RT resonance

**HARMONIE REACTOR**

CEA/CEN, Cadarache, St. Paul Lez Durance, France. Decommissioned since 2009.  
 \*BT1 air cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 fast reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

**HARRIS-1 REACTOR**

Carolina Power and Light Co., Bonsal, North Carolina, USA.  
 UF shearon harris-1 reactor  
 \*BT1 pwr type reactors

**HARRIS-2 REACTOR**

Carolina Power and Light Co., Bonsal, North Carolina, USA. Canceled in 1983 before construction began.  
 UF shearon harris-2 reactor  
 \*BT1 pwr type reactors

**HARRIS-3 REACTOR**

Carolina Power and Light Co., Bonsal, North Carolina, USA. Canceled in 1981 before construction began.  
 UF shearon harris-3 reactor  
 \*BT1 pwr type reactors

**HARRIS-4 REACTOR**

Carolina Power and Light Co., Bonsal, North Carolina, USA. Canceled in 1981 before construction began.  
 UF shearon harris-4 reactor  
 \*BT1 pwr type reactors

**harry event**

INIS: 1994-10-14; ETDE: 1981-07-06  
 A test made during PROJECT UPSHOT. (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE atmospheric explosions  
 USE nuclear explosions

**HARTLEPOOL REACTOR**

Hartlepool, Durham, United Kingdom.  
 \*BT1 agr type reactors  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**HARTMANN NUMBER**

BT1 dimensionless numbers  
 RT drag  
 RT fluid flow  
 RT magnetohydrodynamics  
 RT viscosity

**hartree approximation**

USE hartree-fock method

**HARTREE-FOCK-BOGOLYUBOV THEORY**

1976-02-11  
 The Hartree-Fock approach as applied to self-consistent fields in nuclei.  
 RT bogolyubov transformation  
 RT boson expansion  
 RT hartree-fock method  
 RT nuclear models  
 RT nuclear structure  
 RT self-consistent field

**HARTREE-FOCK METHOD**

UF fock method  
 UF fock self-consistent field  
 UF hartree approximation  
 \*BT1 approximations  
 RT atomic models  
 RT electronic structure  
 RT hartree-fock-bogolyubov theory  
 RT nuclear models  
 RT nuclear structure  
 RT self-consistent field

**HARTSVILLE-1 REACTOR**

TVA, Hartsville, Tennessee, USA. Canceled in 1984 after construction began (1976).  
 \*BT1 bwr type reactors  
 RT ge standard reactor

**HARTSVILLE-2 REACTOR**

*TVA, Hartsville, Tennessee, USA. Canceled in 1984 after construction began (1976).*

- \*BT1 bwr type reactors
- RT ge standard reactor

**HARTSVILLE-3 REACTOR**

*TVA, Hartsville, Tennessee, USA. Canceled in 1982 before construction began.*

- \*BT1 bwr type reactors
- RT ge standard reactor

**HARTSVILLE-4 REACTOR**

*TVA, Hartsville, Tennessee, USA. Canceled in 1982 before construction began.*

- \*BT1 bwr type reactors
- RT ge standard reactor

**HARVARD SYNCHROCYCLOTRON**

- \*BT1 synchrocyclotrons

**HARVEST PROCESS**

*INIS: 2000-04-12; ETDE: 1977-01-10*

*Developed by UKAEA and British Nuclear Fuels Ltd.; fission products are reduced to solid oxides, fused into a glass, then stored in metal flasks under water.*

- \*BT1 radioactive waste processing
- RT fuel cycle
- RT nuclear materials management
- RT radioactive waste storage
- RT solidification
- RT vitrification

**HARVESTING**

*INIS: 1992-03-27; ETDE: 1976-09-14*

- RT agriculture
- RT biomass
- RT crops
- RT horticulture
- RT silviculture
- RT wood

**HARVESTING EQUIPMENT**

*INIS: 1999-03-08; ETDE: 1979-10-23*

- BT1 equipment
- RT farm equipment
- RT forestry
- RT wood products industry

**harwell pluto reactor**

- USE pluto reactor

**HARWELL SYNCHROCYCLOTRON**

- \*BT1 synchrocyclotrons

**harwell synchrotron**

- USE nimrod

**HASSIUM**

*2004-03-19*

(Prior to March 2004 ELEMENT 108 was used for this element.)

- UF *eka-osmium*
- UF *element 108*
- UF *ununilactium*
- \*BT1 transactinide elements

**HASSIUM 263**

*2007-01-30*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei

**HASSIUM 264**

*2004-03-19*

(Prior to March 2004 ELEMENT 108 264 was used for this concept.)

- UF *element 108 264*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei

- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**HASSIUM 265**

*2004-03-19*

(Prior to March 2004 ELEMENT 108 265 was used for this concept.)

- UF *element 108 265*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**HASSIUM 266**

*2004-03-19*

(Prior to March 2004 ELEMENT 108 266 was used for this concept.)

- UF *element 108 266*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**HASSIUM 267**

*2004-11-30*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**HASSIUM 269**

*2007-01-30*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HASSIUM 270**

*2004-03-19*

(Prior to March 2004 ELEMENT 108 270 was used for this concept.)

- UF *element 108 270*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HASSIUM 271**

*2006-09-04*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HASSIUM 272**

*2007-01-30*

- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HASSIUM 274**

*2007-01-30*

- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes

**HASSIUM 275**

*2007-01-30*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei

- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**HASSIUM 276**

*2007-01-30*

- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes

**HASSIUM COMPOUNDS**

*2004-03-19*

(Prior to March 2004 ELEMENT 108 COMPOUNDS was used for this concept.)

- UF *element 108 compounds*
- \*BT1 transactinide compounds

**HASSIUM IONS**

*2018-01-24*

- \*BT1 ions

**HASSIUM ISOTOPES**

*2004-03-19*

(Prior to March 2004 ELEMENT 108 ISOTOPES was used for this concept.)

- UF *element 108 isotopes*
- BT1 isotopes
- NT1 hassium 263
- NT1 hassium 264
- NT1 hassium 265
- NT1 hassium 266
- NT1 hassium 267
- NT1 hassium 269
- NT1 hassium 270
- NT1 hassium 271
- NT1 hassium 272
- NT1 hassium 274
- NT1 hassium 275
- NT1 hassium 276

**HASTELLOY B**

*1993-10-03*

- \*BT1 alloy-ni65mo28fe5

**HASTELLOY C**

*1993-10-03*

- \*BT1 alloy-ni54mo17cr16fe6w4

**hastelloy c-276**

*INIS: 2000-04-12; ETDE: 1979-01-30*

- USE hastelloys

**hastelloy c-4**

*INIS: 2000-04-12; ETDE: 1979-01-30*

- USE hastelloys

**hastelloy f**

*2000-04-12*

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE hastelloys

**HASTELLOY N**

*1993-10-03*

- \*BT1 alloy-ni70mo17cr7fe5

**HASTELLOY S**

*INIS: 1993-10-03; ETDE: 1979-08-09*

- \*BT1 alloy-ni62cr16mo15fe3

**HASTELLOY X**

*1993-10-03*

- \*BT1 alloy-ni49cr22fe18mo9

**HASTELLOY XR**

*INIS: 1993-10-03; ETDE: 1982-02-23*

- \*BT1 alloy-ni50cr22fe18mo9

**HASTELLOYS**

- UF *hastelloy c-276*
- UF *hastelloy c-4*
- UF *hastelloy f*

- \*BT1 nickel base alloys
- NT1 alloy-ni49cr22fe18mo9
- NT2 hastelloy x
- NT1 alloy-ni50cr22fe18mo9
- NT2 hastelloy xr
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 alloy-ni65mo28fe5
- NT2 hastelloy b
- NT1 alloy-ni70mo17cr7fe5
- NT2 hastelloy n
- NT2 inor-8
- RT corrosion resistant alloys

**HATCH-1 REACTOR**

*Southern Nuclear Operating Co., Inc., Baxley, Georgia, USA.*

UF *edwin i. hatch-1 reactor*

\*BT1 bwr type reactors

**HATCH-2 REACTOR**

*Southern Nuclear Operating Co., Inc., Baxley, Georgia, USA.*

UF *edwin i. hatch-2 reactor*

\*BT1 bwr type reactors

**hatchettolite**

1996-06-28

(Until June 1996 this was a valid descriptor.)

- USE oxide minerals
- USE uranium minerals

**HATCHING**

INIS: 1992-09-18; ETDE: 1975-10-28

RT eggs

**HATCHOBARU GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1977-01-31

BT1 geothermal fields

RT japan

**HAULAGE EQUIPMENT**

INIS: 2000-04-12; ETDE: 1981-04-17

\*BT1 materials handling equipment

NT1 conveyors

NT2 belt conveyors

NT2 chain conveyors

NT1 loaders

NT2 cutter loaders

NT3 coal plows

NT3 continuous miners

NT3 heading machines

NT3 shearer loaders

NT1 mine cars

RT materials handling

RT mine haulage

RT mining equipment

**HAUSDORFF SPACE**

\*BT1 mathematical space

**HAUSER-FESHBACH THEORY**

BT1 nuclear theory

RT compound nuclei

RT inelastic scattering

RT nuclear reactions

**HAVAR**

1993-10-03

\*BT1 alloy-co43cr20fe18ni13w3

**HAVEN-1 REACTOR**

INIS: 1978-08-14; ETDE: 1978-06-14

*Wisconsin Electric Power Co., Haven, Wisconsin, USA. Canceled in 1980 before construction began. Standardized plant of the Wisconsin Utilities Project.*

(Prior to July 1978 known as

KOSHKONONG-1 REACTOR, and older material is so indexed.)

UF *wup-1 reactor*

\*BT1 pwr type reactors

NT1 koshkonong-1 reactor

**HAVEN-2 REACTOR**

INIS: 1978-08-14; ETDE: 1978-06-14

*Wisconsin Electric Power Co., Haven, Wisconsin, USA. Canceled in 1978 before construction began. Standardized plant of the Wisconsin Utilities Project.*

(Prior to July 1978 known as

KOSHKONONG-2 REACTOR, and older material is so indexed.)

UF *wup-2 reactor*

\*BT1 pwr type reactors

NT1 koshkonong-2 reactor

**HAWAII**

BT1 islands

\*BT1 usa

RT kilauea volcano

RT pacific ocean

**HAYNES 188 ALLOY**

1993-10-03

\*BT1 alloy-co36cr22ni22w15fe3

**HAYNES 25 ALLOY**

1993-10-03

\*BT1 alloy-co54cr20w15ni10

**HAYNES ALLOYS**

1996-09-12

UF *alloy-co62cr28mo6ni3*

UF *alloy-hs-21*

UF *haynes stellite no 21*

\*BT1 cobalt base alloys

NT1 alloy-co36cr22ni22w15fe3

NT2 haynes 188 alloy

NT1 alloy-co54cr20w15ni10

NT2 alloy-hs-25

NT2 haynes 25 alloy

NT1 alloy-co60cr30w4

NT2 stellite 6

**haynes stellite 6b**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE alloy-co60cr30w4

**haynes stellite no 21**

1997-01-28

(Until September 1996 this was a valid descriptor.)

USE haynes alloys

USE stellite

**haywood model**

2000-03-28

(Until July 1996 this was a valid descriptor.)

USE neutron transport theory

**haz**

INIS: 1984-04-25; ETDE: 1984-05-23

USE heat affected zone

**HAZARDOUS MATERIALS**

INIS: 1981-08-18; ETDE: 1977-01-10

*Not for RADIOACTIVE MATERIALS.*

UF *poisons (chemical)*

BT1 materials

NT1 toxic materials

NT2 toxins

NT3 endotoxins

NT3 mycotoxins

NT4 aflatoxins

RT chemical wastes

RT detoxification

RT environmental exposure

RT lethal doses

RT nonradioactive wastes

RT toxic substances control acts

RT toxicity

RT us superfund

RT waste management

RT wastes

**HAZARDOUS MATERIALS SPILLS**

INIS: 1991-09-30; ETDE: 1980-01-15

(Prior to October 1991, this concept was indexed by HAZARDOUS MATERIALS and ACCIDENTS.)

UF *gasoline spills*

BT1 accidents

RT chemical spills

RT gas spills

RT natural attenuation

RT oil spills

RT pollution

**HAZARDS**

UF *global risk*

UF *risks*

NT1 fire hazards

NT1 health hazards

NT2 radiation hazards

RT accidents

RT damage

RT ethical aspects

RT excursions

RT failures

RT fires

RT human factors engineering

RT insurance

RT liabilities

RT pressure release

RT public relations

RT reliability

RT risk assessment

RT rock bursts

RT sabotage

RT safety

RT safety engineering

RT safety showers

RT workmens compensation

**hazen process**

INIS: 2000-04-12; ETDE: 1978-04-27

*Totally dry chemical coal cleaning process in which the mineral component in pulverized coal is reacted with gaseous iron pentacarbonyl (toxic) which makes mineral sulfur and other mineral components strongly magnetic, so they can be separated by dry magnetic separation methods.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**hb robinson-2**

USE robinson-2 reactor

**hbt-ep**

INIS: 1999-07-26; ETDE: 2002-06-13

USE columbia high-beta tokamak

**HBTX DEVICES**

1985-11-18

\*BT1 reversed-field pinch devices

RT reverse-field pinch

RT united kingdom

**HBWR REACTOR**

UF *halden heavy boiling water reactor*

- \*BT1 bhwr type reactors
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 power reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**hcda**

INIS: 2000-04-12; ETDE: 1983-03-07

USE reactor core disruption

**HCG**

UF *human chorionic gonadotropin*

- \*BT1 gonadotropins
- RT gonads

**HCLWR TYPE REACTORS**

INIS: 1988-11-16; ETDE: 1988-12-02

*High conversion light water reactors.*

- \*BT1 plutonium reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**HCP LATTICES**

UF *hexagonal close packed*

- \*BT1 hexagonal lattices

**hd-556**

INIS: 2000-04-12; ETDE: 1979-08-09

(Prior to November 1983 ALLOY-HD-556 was used for this concept in ETDE; from November 1983 till March 1997 ALLOY-FE31CR21CO20NI20MO3W2 was used for this concept in ETDE.)

USE iron base alloys

**hd 8077**

INIS: 2000-04-12; ETDE: 1979-08-09

USE nickel base alloys

**HDEHP**

UF *bis(2-ethylhexyl)phosphoric acid*

UF *di-2-ethylhexylphosphoric acid*

SF *dehpa*

- \*BT1 phosphoric acid esters

**hdo**

1996-06-19

USE heavy water

**HDR REACTOR**

*Grosswelzheim, Federal Republic of Germany. Permanent shutdown since April 1971.*

UF *grosswelzheim hdr reactor*

UF *heissdampfreaktoranlage*

UF *kahl-main reactor*

- \*BT1 bwr type reactors
- \*BT1 experimental reactors

**HE-3 COUNTERS**

\*BT1 neutron detectors

\*BT1 proportional counters

**he method**

INIS: 2000-04-12; ETDE: 1980-02-11

USE heat exchanger method

**HEAD**

1999-04-06

BT1 body

NT1 face

NT2 eyes

NT3 conjunctiva

NT3 cornea

NT3 crystalline lens

NT3 lacrimal ducts

NT3 retina

NT3 uvea

NT2 nose

RT brain

RT carotid arteries

RT oral cavity

RT sense organs

RT skull

**HEAD END PROCESSES**

NT1 decladding

NT2 chemical decladding

NT2 mechanical decladding

NT1 voloxidation process

RT reprocessing

**HEADING MACHINES**

INIS: 2000-04-12; ETDE: 1978-06-14

\*BT1 cutter loaders

RT coal mines

RT mining

**HEALING**

BT1 biological recovery

RT cell division

RT wounds

**health (public)**

INIS: 1982-12-03; ETDE: 2002-06-13

USE public health

**HEALTH HAZARDS**

BT1 hazards

NT1 radiation hazards

RT drug abuse

RT first aid

RT injuries

RT occupational safety

RT preventive medicine

RT public health

RT quarantine

RT radiation protection

RT radication

RT safety

RT us occupational safety and health act

**health insurance**

INIS: 1990-12-06; ETDE: 1990-10-09

(Prior to December 1990, this was a valid descriptor.)

USE insurance

**health physics**

USE radiation protection

**health physics research reactor**

2000-04-12

USE hpr reactor

**HEALTH SERVICES**

INIS: 1999-12-07; ETDE: 1978-10-23

BT1 social services

RT hospitals

RT human populations

RT medical establishments

RT social impact

RT socio-economic factors

**HEARINGS**

2000-05-17

UF *congressional hearings*

BT1 document types

RT administrative procedures

RT arbitration

RT courts

RT dispute settlements

RT laws

RT lawsuits

RT legislation

RT licensing procedures

RT meetings

**HEART**

BT1 cardiovascular system

\*BT1 organs

NT1 myocardium

NT1 pericardium

RT aorta

RT blood circulation

RT cardiac pacemakers

RT cardiography

RT cardiotonics

RT cardiovascular agents

RT chest

RT coronaries

RT electrocardiograms

RT mechanical heart

RT mediastinum

**heart disease**

INIS: 2000-04-12; ETDE: 1981-01-30

USE cardiovascular diseases

**HEART FAILURE**

INIS: 1981-08-06; ETDE: 1976-07-07

BT1 symptoms

RT biological shock

RT biological stress

RT cardiovascular diseases

RT coronaries

**HEAT**

2000-05-17

BT1 energy

NT1 absorption heat

NT1 combustion heat

NT1 process heat

NT2 geothermal process heat

NT2 solar process heat

NT1 waste heat

RT air heaters

RT energy recovery

RT heat recovery

RT heat transfer

RT heaters

RT heating

RT heating load

**heat (process)**

INIS: 1986-03-04; ETDE: 2002-06-13

USE process heat

**HEAT AFFECTED ZONE**

UF *haz*

BT1 zones

RT welding

**heat capacity**

USE specific heat

**heat dissipation**

(Prior to 1985 THERMAL DIFFUSION was used for this concept.)

SEE cooling

SEE energy losses

SEE heat transfer

SEE thermal diffusivity

SEE thermal effluents

**HEAT DISTRIBUTION SYSTEMS**

INIS: 2000-05-04; ETDE: 1976-05-13

UF *underground heat distribution systems*

BT1 energy systems

RT district heating

**heat effects**

INIS: 2000-04-12; ETDE: 1975-10-28

USE temperature dependence

**heat emission systems**

2006-03-31

SEE heat exchangers

SEE heating systems

SEE space heaters

**HEAT ENGINES**

INIS: 1993-02-18; ETDE: 1975-09-11  
A machine that converts heat into work (mechanical energy).

- BT1 engines
- NT1 internal combustion engines
- NT2 diesel engines
- NT2 direct injection engines
- NT2 dual-fuel engines
- NT2 gas turbine engines
- NT2 ramjet engines
- NT2 rotary engines
- NT3 wankel engines
- NT2 spark ignition engines
- NT3 wankel engines
- NT2 stratified charge engines
- NT2 turbofan engines
- NT2 turbojet engines
- NT1 nitinol heat engines
- NT1 rankine cycle engines
- NT1 rocket engines
- NT1 solar heat engines
- NT1 stirling engines
- RT solar-assisted power systems
- RT thermodynamic cycles

**HEAT EXCHANGER METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11  
Crystal growth method which utilizes directional solidification from the melt where the temperature gradient in the solid is controlled by a heat exchanger.

- UF he method
- UF schmid-vicchnicki technique
- BT1 crystal growth methods
- RT crystal growth
- RT monocrystals

**HEAT EXCHANGERS**

- UF coolers
- UF fluidized bed heat exchangers
- SF condensers
- SF enthalpy wheels
- SF heat emission systems
- NT1 convectors
- NT1 direct contact heat exchangers
- NT1 in-vessel heat exchangers
- NT1 radiators
- NT1 water coolers
- RT cooling
- RT cooling towers
- RT evaporators
- RT heat pumps
- RT heat recovery equipment
- RT heat transfer
- RT heating
- RT isolation condensers
- RT reactor components
- RT reactor cooling systems
- RT regenerators
- RT steam condensers
- RT steam generators
- RT working fluids

**HEAT EXTRACTION**

INIS: 1986-03-04; ETDE: 1975-08-19  
UF extraction (heat)  
RT cooling  
RT cooling time  
RT heat recovery  
RT heat recovery equipment  
RT heat transfer

**heat flow**

ETDE: 1994-08-18  
(Prior to January 1983 HEAT TRANSFER was used for this concept.)  
USE heat flux

**HEAT FLUX**

INIS: 1977-03-01; ETDE: 1977-04-12  
UF heat flow  
NT1 critical heat flux  
RT burnout  
RT dryout  
RT heat transfer

**HEAT GAIN**

INIS: 2000-04-12; ETDE: 1979-02-23  
\*BT1 heat transfer  
RT cooling load  
RT direct gain systems  
RT heating load  
RT solar fraction  
RT thermal bridges

**HEAT ISLANDS**

2009-01-29  
Areas which are significantly warmer than their surroundings, often due to urban development or discharge of waste heat.  
BT1 heat sources  
RT district heating  
RT urban areas  
RT waste heat

**HEAT LOSSES**

INIS: 1976-02-05; ETDE: 1975-08-19  
\*BT1 energy losses  
\*BT1 heat transfer  
RT dissipation factor  
RT heat recovery equipment  
RT infrared thermography  
RT thermal bridges

**HEAT METERS**

INIS: 2000-04-12; ETDE: 1981-10-24  
Devices to measure the energy flow into or out of a working fluid passing through a thermal system.  
UF btu meters  
\*BT1 meters

**HEAT MIRRORS**

INIS: 2000-04-12; ETDE: 1979-02-23  
Thin, transparent optical films which are reflective to long-wave infrared radiation.  
BT1 mirrors  
RT coatings  
RT films  
RT glazing materials  
RT reflective coatings  
RT solar control films  
RT thermal insulation  
RT windows

**heat of absorption**

USE absorption heat

**heat of adsorption**

USE adsorption heat

**heat of combustion**

USE combustion heat

**heat of dissociation**

USE dissociation heat

**heat of formation**

USE formation heat

**heat of fusion**

USE fusion heat

**heat of mixing**

USE mixing heat

**heat of reaction**

USE reaction heat

**heat of solution**

USE solution heat

**heat of sublimation**

USE sublimation heat

**heat of transition**

USE transition heat

**heat of vaporization**

USE vaporization heat

**heat of wetting**

INIS: 2000-04-12; ETDE: 1984-11-08  
USE wetting heat

**HEAT PIPE WICKS**

INIS: 1992-07-21; ETDE: 1976-07-07  
RT capillary flow  
RT heat pipes

**HEAT PIPES**

Heat-transfer devices, frequently associated with thermionic converters. Not pipes for transporting hot fluids from place to place.  
UF chemical heat pipes  
RT capillary flow  
RT heat pipe wicks  
RT heat transfer  
RT pipes

**HEAT PRODUCTION**

2006-03-31  
\*BT1 energy conversion  
RT boilers  
RT furnaces  
RT heaters  
RT microgeneration  
RT space heating

**HEAT PUMPS**

1979-09-18  
NT1 air source heat pumps  
NT1 chemical heat pumps  
NT1 gas heat pumps  
NT1 ground source heat pumps  
NT1 solar-assisted heat pumps  
NT1 water source heat pumps  
RT coefficient of performance  
RT cooling  
RT electric heating  
RT heat exchangers  
RT heat transfer  
RT heating  
RT pumps  
RT refrigeration  
RT working fluids

**HEAT RATE**

INIS: 1993-06-04; ETDE: 1986-07-25  
Expression of the conversion efficiency of a power plant; for example Btu per kWhr.  
BT1 efficiency  
RT performance  
RT thermal efficiency  
RT thermal power plants

**HEAT RECOVERY**

1986-03-04  
BT1 energy recovery  
RT heat  
RT heat extraction  
RT heat recovery equipment  
RT heat transfer  
RT humidity recovery  
RT waste heat utilization

**HEAT RECOVERY EQUIPMENT**

INIS: 1992-02-04; ETDE: 1977-06-02  
BT1 equipment  
RT heat exchangers  
RT heat extraction



*RT* heat losses  
*RT* heat recovery  
*RT* waste heat boilers

**HEAT RESISTANT MATERIALS***INIS: 1994-06-27; ETDE: 1978-11-14*

BT1 materials

NT1 heat resisting alloys

NT2 alloy-co36cr22ni22w15fe3  
 NT3 haynes 188 alloy  
 NT2 alloy-co54cr20w15ni10  
 NT3 alloy-hs-25  
 NT3 haynes 25 alloy  
 NT2 alloy-co60cr30w4  
 NT3 stellite 6  
 NT2 alloy-d-979  
 NT2 alloy-fe44ni33cr21  
 NT3 incoloy 800h  
 NT2 alloy-fe46ni33cr21  
 NT3 incoloy 800  
 NT3 incoloy 802  
 NT2 alloy-mo99  
 NT3 alloy-tzm  
 NT3 alloy-zm-2a  
 NT2 alloy-n-10m  
 NT2 alloy-n-9m  
 NT2 alloy-ni41fe40cr16nb3  
 NT3 inconel 706  
 NT2 alloy-ni43fe30cr22mo3  
 NT3 incoloy 825  
 NT2 alloy-ni43fe33cr16mo3  
 NT3 nimonic pe16  
 NT2 alloy-ni46cr23co19ti5al4  
 NT3 alloy-in-939  
 NT2 alloy-ni49cr22fe18mo9  
 NT3 hastelloy x  
 NT2 alloy-ni50co20cr15al5mo5  
 NT3 nimonic 105  
 NT2 alloy-ni50cr22fe18mo9  
 NT3 hastelloy xr  
 NT2 alloy-ni50mo32cr15si3  
 NT2 alloy-ni51cr48  
 NT3 inconel 671  
 NT2 alloy-ni53cr19fe19nb5mo3  
 NT3 inconel 718  
 NT2 alloy-ni54cr22co13mo9  
 NT3 inconel 617  
 NT2 alloy-ni54mo17cr16fe6w4  
 NT3 hastelloy c  
 NT2 alloy-ni55cr19co11mo10ti3  
 NT3 rene 41  
 NT2 alloy-ni58cr20co14mo4ti3  
 NT3 waspaloy  
 NT2 alloy-ni59cr20co17ti2  
 NT2 alloy-ni59cr30fe9  
 NT3 inconel 690  
 NT2 alloy-ni60co15cr10al6ti5mo3  
 NT3 alloy-in-100  
 NT2 alloy-ni60fe24cr16  
 NT3 nichrome  
 NT2 alloy-ni61cr16co9al3ti3w3  
 NT3 alloy-in-738  
 NT2 alloy-ni61cr22mo9nb4fe3  
 NT3 inconel 625  
 NT2 alloy-ni62cr16mo15fe3  
 NT3 hastelloy s  
 NT2 alloy-ni65cr25mo10  
 NT3 nimonic 86  
 NT2 alloy-ni70mo17cr7fe5  
 NT3 hastelloy n  
 NT3 inor-8  
 NT2 alloy-ni73cr15fe7ti3  
 NT3 inconel x750  
 NT2 alloy-ni73cr20mn3nb3  
 NT3 inconel 82  
 NT2 alloy-ni74cr13al6mo4  
 NT3 inconel 713c  
 NT2 alloy-ni75cr12al6mo5  
 NT3 inconel 713lc

NT2 alloy-ni76cr15fe8  
 NT3 inconel 600  
 NT2 alloy-ni76cr20ti2  
 NT3 nimonic 80a  
 NT2 alloy-ni77cr20ti2  
 NT2 alloy-nt25a5  
 NT2 alloy-ra-333  
 NT2 alloy-s-590  
 NT2 alloy-s-816  
 NT2 alloy-v-36  
 NT2 alloy-zr97nb3  
 NT2 alloy-zr98sn-2  
 NT3 zircaloy 2  
 NT2 alloy-zr98sn-4  
 NT3 zircaloy 4  
 NT2 enduro  
 NT2 incoloy 901  
 NT2 rene 80  
 NT2 rene 95  
 NT2 steel-cr12  
 NT3 stainless steel-403  
 NT2 steel-cr12moniv  
 NT2 steel-cr12mov  
 NT3 alloy-ht-9  
 NT2 steel-cr13  
 NT3 stainless steel-410  
 NT2 steel-cr13al  
 NT3 stainless steel-405  
 NT2 steel-cr15ni15motib  
 steel-cr16  
 NT3 stainless steel-430  
 NT2 steel-cr16ni  
 NT2 steel-cr16ni13monbv  
 NT2 steel-cr16ni15mo3nb  
 NT2 steel-cr16ni16monb  
 NT2 steel-cr16ni8mo2  
 NT3 stainless steel-16-8-2  
 NT2 steel-cr17cu4ni4nb-1  
 NT3 stainless steel-17-4ph  
 NT2 steel-cr17mo  
 NT3 stainless steel-440  
 NT2 steel-cr17ni12mo3  
 NT3 stainless steel-316  
 NT2 steel-cr17ni12mo3-1  
 NT3 stainless steel-316l  
 NT3 stainless steel-zcnd17-13  
 NT2 steel-cr17ni12monb  
 NT2 steel-cr17ni13  
 NT2 steel-cr17ni13mo2ti  
 NT2 steel-cr17ni13mo3ti  
 NT2 steel-cr17ni4mo3  
 NT2 steel-cr17ni7  
 NT3 stainless steel-301  
 NT2 steel-cr18ni10  
 NT3 stainless steel-18-10  
 NT2 steel-cr18ni10-1  
 NT2 steel-cr18ni10ti  
 NT3 stainless steel-321  
 NT2 steel-cr18ni11  
 NT3 steel-x6crni1811  
 NT2 steel-cr18ni11nb  
 NT3 stainless steel-347  
 NT2 steel-cr18ni11nbco  
 NT3 stainless steel-348  
 NT2 steel-cr18ni12  
 NT3 stainless steel-305  
 NT2 steel-cr18ni12ti  
 NT2 steel-cr18ni8  
 NT3 stainless steel-18-8  
 NT2 steel-cr18ni9  
 NT3 stainless steel-302  
 NT2 steel-cr18ni9ti  
 NT2 steel-cr19ni10  
 NT3 stainless steel-304  
 NT2 steel-cr19ni10-1  
 NT3 stainless steel-304l  
 NT2 steel-cr20ni11  
 NT3 stainless steel-308  
 NT2 steel-cr20ni11-1

NT3 stainless steel-308l  
 NT2 steel-cr21mn9ni6  
 NT3 stainless steel-21-6-9  
 NT2 steel-cr23ni14  
 NT3 stainless steel-309  
 NT3 stainless steel-309s  
 NT2 steel-cr23ni18  
 NT2 steel-cr25  
 NT3 stainless steel-446  
 NT2 steel-cr25ni20  
 NT3 alloy-hk-40  
 NT3 stainless steel-310  
 NT2 steel-cr2monib  
 NT2 steel-cr2mov  
 NT2 steel-ni25cr20  
 NT3 stainless steel-20-25  
 NT2 steel-ni26cr15ti2movalb  
 NT3 alloy-a-286  
 NT2 steel-nimocr  
 NT2 tophet  
 NT2 tribaloy 800  
 NT2 udimet alloys  
 NT3 alloy-ni53co19cr15mo5al4ti3  
 NT4 udimet 700  
 NT3 udimet 500  
*RT* refractories

**HEAT RESISTING ALLOYS***1996-11-13**UF refractory alloys**UF superalloys*

BT1 alloys

\*BT1 heat resistant materials

NT1 alloy-co36cr22ni22w15fe3  
 NT2 haynes 188 alloy  
 NT1 alloy-co54cr20w15ni10  
 NT2 alloy-hs-25  
 NT2 haynes 25 alloy  
 NT1 alloy-co60cr30w4  
 NT2 stellite 6  
 NT1 alloy-d-979  
 NT1 alloy-fe44ni33cr21  
 NT2 incoloy 800h  
 NT1 alloy-fe46ni33cr21  
 NT2 incoloy 800  
 NT2 incoloy 802  
 NT1 alloy-mo99  
 NT2 alloy-tzm  
 NT2 alloy-zm-2a  
 NT1 alloy-n-10m  
 NT1 alloy-n-9m  
 NT1 alloy-ni41fe40cr16nb3  
 NT2 inconel 706  
 NT1 alloy-ni43fe30cr22mo3  
 NT2 incoloy 825  
 NT1 alloy-ni43fe33cr16mo3  
 NT2 nimonic pe16  
 NT1 alloy-ni46cr23co19ti5al4  
 NT2 alloy-in-939  
 NT1 alloy-ni49cr22fe18mo9  
 NT2 hastelloy x  
 NT1 alloy-ni50co20cr15al5mo5  
 NT2 nimonic 105  
 NT1 alloy-ni50cr22fe18mo9  
 NT2 hastelloy xr  
 NT1 alloy-ni50mo32cr15si3  
 NT1 alloy-ni51cr48  
 NT2 inconel 671  
 NT1 alloy-ni53cr19fe19nb5mo3  
 NT2 inconel 718  
 NT1 alloy-ni54cr22co13mo9  
 NT2 inconel 617  
 NT1 alloy-ni54mo17cr16fe6w4  
 NT2 hastelloy c  
 NT1 alloy-ni55cr19co11mo10ti3  
 NT2 rene 41  
 NT1 alloy-ni58cr20co14mo4ti3  
 NT2 waspaloy  
 NT1 alloy-ni59cr20co17ti2

**NT1** alloy-ni59cr30fe9  
**NT2** inconel 690  
**NT1** alloy-ni60co15cr10al6ti5mo3  
**NT2** alloy-in-100  
**NT1** alloy-ni60fe24cr16  
**NT2** nichrome  
**NT1** alloy-ni61cr16co9al3ti3w3  
**NT2** alloy-in-738  
**NT1** alloy-ni61cr22mo9nb4fe3  
**NT2** inconel 625  
**NT1** alloy-ni62cr16mo15fe3  
**NT2** hastelloy s  
**NT1** alloy-ni65cr25mo10  
**NT2** nimonic 86  
**NT1** alloy-ni70mo17cr7fe5  
**NT2** hastelloy n  
**NT2** inor-8  
**NT1** alloy-ni73cr15fe7ti3  
**NT2** inconel x750  
**NT1** alloy-ni73cr20mn3nb3  
**NT2** inconel 82  
**NT1** alloy-ni74cr13al6mo4  
**NT2** inconel 713c  
**NT1** alloy-ni75cr12al6mo5  
**NT2** inconel 713c  
**NT1** alloy-ni76cr15fe8  
**NT2** inconel 600  
**NT1** alloy-ni76cr20ti2  
**NT2** nimonic 80a  
**NT1** alloy-ni77cr20ti2  
**NT1** alloy-nt25a5  
**NT1** alloy-ra-333  
**NT1** alloy-s-590  
**NT1** alloy-s-816  
**NT1** alloy-v-36  
**NT1** alloy-zr97nb3  
**NT1** alloy-zr98sn-2  
**NT2** zircaloy 2  
**NT1** alloy-zr98sn-4  
**NT2** zircaloy 4  
**NT1** enduro  
**NT1** incoloy 901  
**NT1** rene 80  
**NT1** rene 95  
**NT1** steel-cr12  
**NT2** stainless steel-403  
**NT1** steel-cr12moniv  
**NT1** steel-cr12mov  
**NT2** alloy-ht-9  
**NT1** steel-cr13  
**NT2** stainless steel-410  
**NT1** steel-cr13al  
**NT2** stainless steel-405  
**NT1** steel-cr15ni15motib  
**NT1** steel-cr16  
**NT2** stainless steel-430  
**NT1** steel-cr16ni  
**NT1** steel-cr16ni13monbv  
**NT1** steel-cr16ni15mo3nb  
**NT1** steel-cr16ni16monb  
**NT1** steel-cr16ni8mo2  
**NT2** stainless steel-16-8-2  
**NT1** steel-cr17cu4ni4nb-1  
**NT2** stainless steel-17-4ph  
**NT1** steel-cr17mo  
**NT2** stainless steel-440  
**NT1** steel-cr17ni12mo3  
**NT2** stainless steel-316  
**NT1** steel-cr17ni12mo3-1  
**NT2** stainless steel-316l  
**NT2** stainless steel-zcnd17-13  
**NT1** steel-cr17ni12monb  
**NT1** steel-cr17ni13  
**NT1** steel-cr17ni13mo2ti  
**NT1** steel-cr17ni13mo3ti  
**NT1** steel-cr17ni4mo3  
**NT1** steel-cr17ni7  
**NT2** stainless steel-301  
**NT1** steel-cr18ni10

**NT2** stainless steel-18-10  
**NT1** steel-cr18ni10-1  
**NT1** steel-cr18ni10ti  
**NT2** stainless steel-321  
**NT1** steel-cr18ni11  
**NT2** steel-x6crmi1811  
**NT1** steel-cr18ni11nb  
**NT2** stainless steel-347  
**NT1** steel-cr18ni11nbco  
**NT2** stainless steel-348  
**NT1** steel-cr18ni12  
**NT2** stainless steel-305  
**NT1** steel-cr18ni12ti  
**NT1** steel-cr18ni8  
**NT2** stainless steel-18-8  
**NT1** steel-cr18ni9  
**NT2** stainless steel-302  
**NT1** steel-cr18ni9ti  
**NT1** steel-cr19ni10  
**NT2** stainless steel-304  
**NT1** steel-cr19ni10-1  
**NT2** stainless steel-304l  
**NT1** steel-cr20ni11  
**NT2** stainless steel-308  
**NT1** steel-cr20ni11-1  
**NT2** stainless steel-308l  
**NT1** steel-cr21mn9ni6  
**NT2** stainless steel-21-6-9  
**NT1** steel-cr23ni14  
**NT2** stainless steel-309  
**NT2** stainless steel-309s  
**NT1** steel-cr23ni18  
**NT1** steel-cr25  
**NT2** stainless steel-446  
**NT1** steel-cr25ni20  
**NT2** alloy-hk-40  
**NT2** stainless steel-310  
**NT1** steel-cr2moninb  
**NT1** steel-cr2mov  
**NT1** steel-ni25cr20  
**NT2** stainless steel-20-25  
**NT1** steel-ni26cr15ti2mova1b  
**NT2** alloy-a-286  
**NT1** steel-nimocr  
**NT1** tophet  
**NT1** tribaloy 800  
**NT1** udimet alloys  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** udimet 500  
**RT** austenitic steels  
**RT** refractories  
**RT** refractory metals  
**RT** stainless steels

### HEAT-SHOCK PROTEINS

*INIS: 1994-08-04; ETDE: 1994-07-19*  
*A group of highly conserved proteins involved in folding and assembly of proteins into functional macromolecules that are also crucial for a cell's adaptation to elevated temperatures.*

*UF chaperonins*  
*\*BT1 proteins*  
*RT biological adaptation*

### HEAT SINKS

(From May 1981 to February 1997 COLD RECOVERY was a valid ETDE descriptor.)

*SF cold recovery*  
**BT1** sinks  
**RT** heat sources  
**RT** heat transfer  
**RT** thermal effluents  
**RT** thermodynamics  
**RT** vapor condensers  
**RT** waste heat

### HEAT SOURCES

*INIS: 1993-02-05; ETDE: 1976-01-07*

**NT1** heat islands  
**NT1** radioisotope heat sources  
**RT** heat sinks  
**RT** heat transfer

#### heat sources (radioisotope)

**USE** radioisotope heat sources

#### heat stability

*INIS: 1984-04-04; ETDE: 2002-06-13*

**USE** sensitivity  
**USE** thermal degradation

### HEAT STORAGE

*1979-01-18*

*UF thermal storage*  
**\*BT1** energy storage  
**NT1** latent heat storage  
**NT1** seasonal thermal energy storage  
**NT1** sensible heat storage  
**NT1** thermochemical heat storage  
**RT** cold storage  
**RT** energy storage systems  
**RT** regeneration  
**RT** regenerators  
**RT** rock beds  
**RT** thermal energy storage equipment  
**RT** thermic diode solar panels

#### heat storage devices

*INIS: 2000-04-12; ETDE: 1976-05-13*

**USE** thermal energy storage equipment

#### heat storage systems

*INIS: 2000-04-12; ETDE: 1976-08-26*

**USE** thermal energy storage equipment

### HEAT STRESS

*2003-09-19*

*For biological heat stress only; for mechanical heat stress use THERMAL STRESSES.*

**BT1** biological stress  
**RT** body temperature  
**RT** droughts  
**RT** fever  
**RT** hyperthermia  
**RT** transpiration

### HEAT TRANSFER

*UF exchange (heat)*  
*UF heat transmission*  
*UF transfer (heat)*  
*UF transmission (heat)*  
*SF heat dissipation*  
**BT1** energy transfer  
**NT1** convection  
**NT2** forced convection  
**NT2** natural convection  
**NT2** thermosyphon effect  
**NT1** heat gain  
**NT1** heat losses  
**NT1** radiant heat transfer  
**NT1** thermal conduction  
**RT** ablation  
**RT** boilers  
**RT** boiling  
**RT** burnout  
**RT** calorimetry  
**RT** continuity equations  
**RT** cooling  
**RT** critical heat flux  
**RT** district heating  
**RT** fluid flow  
**RT** fourier heat equation  
**RT** greenhouse effect  
**RT** heat  
**RT** heat exchangers  
**RT** heat extraction

RT heat flux  
 RT heat pipes  
 RT heat pumps  
 RT heat recovery  
 RT heat sinks  
 RT heat sources  
 RT heat transfer fluids  
 RT heaters  
 RT heating  
 RT hot spots  
 RT lewis number  
 RT nucleate boiling  
 RT prandtl number  
 RT reactor cooling systems  
 RT rewetting  
 RT righi-leduc effect  
 RT rosseland approximation  
 RT steam condensers  
 RT steam generators  
 RT thermal boundary resistance  
 RT thermal conductivity  
 RT thermal diffusion  
 RT thermal insulation  
 RT thermal radiation  
 RT thermodynamics  
 RT thermonuclear reactor cooling systems  
 RT thermosyphons  
 RT two-phase flow  
 RT u values  
 RT vapor condensation  
 RT working fluids

**HEAT TRANSFER FLUIDS**

INIS: 1999-12-07; ETDE: 1978-04-28

BT1 fluids  
 RT black liquids  
 RT coolant loops  
 RT heat transfer  
 RT heating loops  
 RT working fluids

**heat transfer properties**

INIS: 2000-04-12; ETDE: 1976-08-24  
 USE thermodynamic properties

**heat transmission**

USE heat transfer

**HEAT TREATMENTS**

In metallurgy as well as for the biological effects of heat.

UF preheating  
 NT1 annealing  
 NT1 autohydrolysis  
 NT1 quench hardening  
 NT1 tempering  
 NT1 thermomechanical treatments  
 RT aging  
 RT controlled atmospheres  
 RT critical temperature  
 RT curing  
 RT decarburization  
 RT food processing  
 RT grain refinement  
 RT hardening  
 RT heating  
 RT nucleic acid denaturation  
 RT protein denaturation  
 RT quenching  
 RT recrystallization  
 RT stress relaxation  
 RT thermal shock

**heated effluents**

USE thermal effluents

**heater oil**

INIS: 2000-04-12; ETDE: 1976-03-11  
 USE heating oils

**HEATERS**

NT1 air heaters  
 NT2 solar air heaters  
 NT1 feedwater heaters  
 NT1 radiant heaters  
 NT1 space heaters  
 NT2 convectors  
 NT1 thermoelectric heaters  
 NT1 water heaters  
 NT2 solar water heaters  
 NT3 passive solar water heaters  
 NT4 thermic diode solar panels  
 RT heat  
 RT heat production  
 RT heat transfer

**HEATING**

1999-01-22

NT1 aerodynamic heating  
 NT1 baking  
 NT1 district heating  
 NT2 geothermal district heating  
 NT2 solar district heating  
 NT1 electric heating  
 NT2 joule heating  
 NT3 current-drive heating  
 NT2 radiant cable heating  
 NT1 flash heating  
 NT1 geothermal heating  
 NT2 geothermal district heating  
 NT2 geothermal space heating  
 NT2 geothermal water heating  
 NT1 microwave heating  
 NT1 plasma heating  
 NT2 adiabatic compression heating  
 NT2 beam injection heating  
 NT2 high-frequency heating  
 NT3 ecr heating  
 NT3 icer heating  
 NT3 lower hybrid heating  
 NT3 magnetic-pumping heating  
 NT4 acoustic heating  
 NT4 collisional heating  
 NT4 transit-time magnetic pumping  
 NT2 joule heating  
 NT3 current-drive heating  
 NT2 laser-radiation heating  
 NT2 shock heating  
 NT2 turbulent heating  
 NT1 radiation heating  
 NT1 solar heating  
 NT2 solar district heating  
 NT2 solar space heating  
 NT2 solar water heating  
 NT1 space heating  
 NT2 auxiliary heating  
 NT2 baseboard heating  
 NT2 geothermal space heating  
 NT2 solar space heating  
 NT1 superheating  
 NT2 nuclear superheating  
 NT1 water heating  
 NT2 geothermal water heating  
 NT2 solar water heating  
 RT air conditioning  
 RT air heaters  
 RT annual cycle energy system  
 RT blisters  
 RT boiling  
 RT cooling  
 RT heat  
 RT heat exchangers  
 RT heat pumps  
 RT heat transfer  
 RT heat treatments  
 RT heating rate  
 RT ices program  
 RT incubation  
 RT melting

RT retorting  
 RT subterrene penetrators  
 RT temperature control  
 RT thermal degradation

**heating floors**

2006-03-31

USE floors  
 USE heating systems

**HEATING LOAD**

INIS: 2000-04-12; ETDE: 1975-09-30

RT air conditioning  
 RT cooling load  
 RT enthalpy  
 RT heat  
 RT heat gain  
 RT load collector ratio  
 RT solar fraction  
 RT solar heating

**HEATING LOOPS**

2007-07-27

\*BT1 heating systems  
 RT coolant loops  
 RT heat transfer fluids

**HEATING OILS**

INIS: 1992-01-09; ETDE: 1976-03-11

UF burner fuel oil  
 UF distillate fuel  
 UF distillate fuel oil  
 UF furnace oil  
 UF heater oil  
 UF no. 2 fuel oil  
 \*BT1 fuel oils  
 RT liquefied petroleum gases

**HEATING RATE**

INIS: 1986-03-04; ETDE: 1976-12-15

RT heating  
 RT time dependence

**HEATING SYSTEMS**

INIS: 1999-01-22; ETDE: 1977-05-07

UF heating floors  
 SF heat emission systems  
 SF thermally active structural components  
 BT1 energy systems  
 NT1 geothermal heating systems  
 NT1 heating loops  
 NT1 solar heating systems  
 NT2 passive solar heating systems  
 NT3 bead walls  
 NT3 direct gain systems  
 NT3 drum walls  
 NT3 roof ponds  
 NT3 thermic diode solar panels  
 NT3 trombe walls  
 NT3 water walls  
 NT2 solar-assisted heat pumps  
 RT chemical heat pumps  
 RT district heating  
 RT space heating  
 RT space hvac systems

**heavy fuels**

INIS: 1992-05-21; ETDE: 1976-01-23

USE residual fuels

**HEAVY ION ACCELERATORS**

INIS: 1976-02-11; ETDE: 1975-11-11

Includes combined accelerator types for heavy ion acceleration.

BT1 accelerators  
 NT1 brookhaven rhic  
 NT1 calcutta cyclotron  
 NT1 cracow u-120 cyclotron  
 NT1 crml superconducting cyclotron  
 NT1 cyclone cyclotron

**NT1** ganil cyclotron  
**NT1** hhirf accelerator  
**NT1** hilacs  
**NT2** atlas superconducting linac  
**NT2** superhilac  
**NT1** himac accelerator  
**NT1** hirfl cyclotron  
**NT1** ipcr cyclotron  
**NT1** jinr de-110 cyclotron  
**NT1** jinr u-400 cyclotron  
**NT1** jinr u-400m cyclotron  
**NT1** kvi cyclotron  
**NT1** milan superconducting cyclotron  
**NT1** munich suse cyclotron  
**NT1** nac cyclotron  
**NT1** nica collider  
**NT1** numatron accelerator  
**NT1** renp cyclotron  
**NT1** rilac  
**NT1** sis synchrotron  
**NT1** texas superconducting cyclotron  
**NT1** tohoku cyclotron  
**NT1** tokyo ins cyclotron  
**NT1** unilac  
**NT1** vicksi accelerator  
**NT1** warsaw cyclotron  
**RT** heavy ions

### HEAVY ION DECAY RADIOISOTOPES

*INIS: 1995-06-29; ETDE: 1989-06-23*

**\*BT1** radioisotopes  
**NT1** carbon 12 decay radioisotopes  
**NT2** barium 114  
**NT1** carbon 14 decay radioisotopes  
**NT2** radium 222  
**NT2** radium 223  
**NT2** radium 224  
**NT2** radium 226  
**NT1** magnesium 28 decay radioisotopes  
**NT2** plutonium 236  
**NT2** uranium 234  
**NT1** neon 24 decay radioisotopes  
**NT2** protactinium 231  
**NT2** thorium 230  
**NT2** uranium 232  
**NT2** uranium 233  
**NT2** uranium 234  
**NT1** silicon 32 decay radioisotopes  
**NT2** plutonium 238  
**RT** heavy ion emission decay

### HEAVY ION EMISSION DECAY

*INIS: 1986-03-04; ETDE: 1988-07-08*

**\*BT1** nuclear decay  
**NT1** carbon 12 emission decay  
**NT1** carbon 14 emission decay  
**NT1** carbon 16 emission decay  
**NT1** magnesium 28 emission decay  
**NT1** magnesium 30 emission decay  
**NT1** neon 24 emission decay  
**NT1** oxygen 16 emission decay  
**NT1** silicon 32 emission decay  
**NT1** silicon 34 emission decay  
**RT** cold fission  
**RT** heavy ion decay radioisotopes

### HEAVY ION FUSION REACTIONS

*ETDE: 1977-01-31*

*Endoenergetic fusion reactions.*

**UF** fusion reactions (endoenergetic)  
**UF** fusion reactions (heavy ion)  
**SF** fusion reactions  
**\*BT1** heavy ion reactions  
**\*BT1** nucleosynthesis  
**RT** compound-nucleus reactions  
**RT** deep inelastic heavy ion reactions  
**RT** incomplete fusion reactions  
**RT** quasi-fission  
**RT** thermonuclear reactions

### heavy ion linear accelerators

**USE** hilacs

### HEAVY ION REACTIONS

*1995-05-03*

**BT1** nuclear reactions  
**NT1** aluminium 27 reactions  
**NT1** argon 36 reactions  
**NT1** argon 40 reactions  
**NT1** beryllium 11 reactions  
**NT1** beryllium 7 reactions  
**NT1** beryllium 8 reactions  
**NT1** beryllium 9 reactions  
**NT1** bismuth 209 reactions  
**NT1** boron 10 reactions  
**NT1** boron 11 reactions  
**NT1** boron 8 reactions  
**NT1** bromine 79 reactions  
**NT1** bromine 81 reactions  
**NT1** calcium 40 reactions  
**NT1** calcium 42 reactions  
**NT1** calcium 44 reactions  
**NT1** calcium 48 reactions  
**NT1** carbon 12 reactions  
**NT1** carbon 13 reactions  
**NT1** carbon 14 reactions  
**NT1** chlorine 35 reactions  
**NT1** chlorine 37 reactions  
**NT1** chromium 52 reactions  
**NT1** chromium 54 reactions  
**NT1** cobalt 59 reactions  
**NT1** copper 63 reactions  
**NT1** copper 65 reactions  
**NT1** deep inelastic heavy ion reactions  
**NT1** dysprosium 161 reactions  
**NT1** erbium 166 reactions  
**NT1** fluorine 19 reactions  
**NT1** gadolinium 155 reactions  
**NT1** germanium 70 reactions  
**NT1** germanium 74 reactions  
**NT1** germanium 76 reactions  
**NT1** gold 197 reactions  
**NT1** heavy ion fusion reactions  
**NT1** helium 6 reactions  
**NT1** helium 8 reactions  
**NT1** holmium 165 reactions  
**NT1** incomplete fusion reactions  
**NT1** iodine 127 reactions  
**NT1** iron 54 reactions  
**NT1** iron 56 reactions  
**NT1** iron 58 reactions  
**NT1** krypton 80 reactions  
**NT1** krypton 82 reactions  
**NT1** krypton 83 reactions  
**NT1** krypton 84 reactions  
**NT1** krypton 86 reactions  
**NT1** lanthanum 139 reactions  
**NT1** lead 206 reactions  
**NT1** lead 208 reactions  
**NT1** lithium 11 reactions  
**NT1** lithium 6 reactions  
**NT1** lithium 7 reactions  
**NT1** lithium 8 reactions  
**NT1** lithium 9 reactions  
**NT1** magnesium 24 reactions  
**NT1** magnesium 25 reactions  
**NT1** magnesium 26 reactions  
**NT1** manganese 55 reactions  
**NT1** molybdenum 100 reactions  
**NT1** molybdenum 92 reactions  
**NT1** molybdenum 96 reactions  
**NT1** molybdenum 98 reactions  
**NT1** neodymium 142 reactions  
**NT1** neodymium 150 reactions  
**NT1** neon 20 reactions  
**NT1** neon 22 reactions  
**NT1** neon 29 reactions  
**NT1** nickel 58 reactions  
**NT1** nickel 59 reactions

**NT1** nickel 60 reactions  
**NT1** nickel 61 reactions  
**NT1** nickel 62 reactions  
**NT1** nickel 64 reactions  
**NT1** niobium 93 reactions  
**NT1** nitrogen 13 reactions  
**NT1** nitrogen 14 reactions  
**NT1** nitrogen 15 reactions  
**NT1** oxygen 14 reactions  
**NT1** oxygen 16 reactions  
**NT1** oxygen 17 reactions  
**NT1** oxygen 18 reactions  
**NT1** palladium 110 reactions  
**NT1** palladium 118 reactions  
**NT1** phosphorus 31 reactions  
**NT1** potassium 39 reactions  
**NT1** quasi-fission  
**NT1** ruthenium 104 reactions  
**NT1** samarium 144 reactions  
**NT1** samarium 154 reactions  
**NT1** scandium 45 reactions  
**NT1** selenium 76 reactions  
**NT1** selenium 80 reactions  
**NT1** selenium 82 reactions  
**NT1** silicon 28 reactions  
**NT1** silicon 29 reactions  
**NT1** silicon 30 reactions  
**NT1** silver 109 reactions  
**NT1** sodium 23 reactions  
**NT1** sulfur 32 reactions  
**NT1** sulfur 33 reactions  
**NT1** sulfur 34 reactions  
**NT1** sulfur 36 reactions  
**NT1** sulfur 39 reactions  
**NT1** tellurium 130 reactions  
**NT1** thallium 205 reactions  
**NT1** thorium 232 reactions  
**NT1** tin 112 reactions  
**NT1** tin 116 reactions  
**NT1** tin 118 reactions  
**NT1** tin 120 reactions  
**NT1** tin 122 reactions  
**NT1** tin 124 reactions  
**NT1** titanium 46 reactions  
**NT1** titanium 48 reactions  
**NT1** titanium 49 reactions  
**NT1** titanium 50 reactions  
**NT1** tungsten 183 reactions  
**NT1** tungsten 184 reactions  
**NT1** uranium 235 reactions  
**NT1** uranium 238 reactions  
**NT1** vanadium 51 reactions  
**NT1** xenon 129 reactions  
**NT1** xenon 132 reactions  
**NT1** xenon 134 reactions  
**NT1** xenon 136 reactions  
**NT1** zinc 64 reactions  
**NT1** zinc 68 reactions  
**NT1** zinc 70 reactions  
**NT1** zirconium 90 reactions  
**NT1** zirconium 92 reactions  
**NT1** zirconium 96 reactions  
**RT** anomalous  
**RT** hilacs  
**RT** nica mpd detector  
**RT** nuclear fireball model

### heavy ion research facility lanzhou cyclotron

*INIS: 1993-11-08; ETDE: 2002-06-13*

**USE** hirfl cyclotron

### HEAVY ION SPECTROMETERS

**\*BT1** spectrometers

### HEAVY IONS

*Whenever appropriate use one of the specific terms listed under ION BEAMS.*

**\*BT1** ions

**RT** ganil cyclotron

RT heavy ion accelerators  
 RT hhirf accelerator  
 RT hilacs  
 RT ion beams  
 RT ion detection  
 RT multicharged ions

**HEAVY LEPTONS**

\*BT1 leptons  
 NT1 heavy neutral muons  
 NT1 tau neutrinos  
 NT1 tau particles

**HEAVY LIQUID BUBBLE****CHAMBERS**

\*BT1 bubble chambers

**HEAVY MEDIA SEPARATION**

*INIS: 1992-07-20; ETDE: 1979-12-10*

BT1 separation processes  
 NT1 otisca process  
 RT cleaning  
 RT coal preparation  
 RT washing

**HEAVY METALS**

2006-06-01

*Metals with  $Z > 28$ , which are a major source of environmental pollution. Index the specific heavy metal(s) if appropriate.*

\*BT1 metals  
 RT environmental impacts  
 RT pollution  
 RT pollution abatement  
 RT toxic materials

**HEAVY NEUTRAL MUONS**

*INIS: 1993-03-24; ETDE: 1979-08-09*

UF muons, heavy neutral

\*BT1 heavy leptons  
 \*BT1 postulated particles  
 RT muons

**HEAVY NUCLEI**

1997-06-05

*For nuclei from mass 181 upwards.*

BT1 nuclei  
 NT1 actinide nuclei  
 NT2 actinium 206  
 NT2 actinium 207  
 NT2 actinium 208  
 NT2 actinium 209  
 NT2 actinium 210  
 NT2 actinium 211  
 NT2 actinium 212  
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 NT2 neptunium 225  
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<b>NT2</b>	neptunium 230	<b>NT2</b>	protactinium 238	<b>NT1</b>	astatine 210
<b>NT2</b>	neptunium 231	<b>NT2</b>	protactinium 239	<b>NT1</b>	astatine 211
<b>NT2</b>	neptunium 232	<b>NT2</b>	protactinium 240	<b>NT1</b>	astatine 212
<b>NT2</b>	neptunium 233	<b>NT2</b>	thorium 208	<b>NT1</b>	astatine 213
<b>NT2</b>	neptunium 234	<b>NT2</b>	thorium 209	<b>NT1</b>	astatine 214
<b>NT2</b>	neptunium 235	<b>NT2</b>	thorium 210	<b>NT1</b>	astatine 215
<b>NT2</b>	neptunium 236	<b>NT2</b>	thorium 211	<b>NT1</b>	astatine 216
<b>NT2</b>	neptunium 237	<b>NT2</b>	thorium 212	<b>NT1</b>	astatine 217
<b>NT2</b>	neptunium 238	<b>NT2</b>	thorium 213	<b>NT1</b>	astatine 218
<b>NT2</b>	neptunium 239	<b>NT2</b>	thorium 214	<b>NT1</b>	astatine 219
<b>NT2</b>	neptunium 240	<b>NT2</b>	thorium 215	<b>NT1</b>	astatine 220
<b>NT2</b>	neptunium 241	<b>NT2</b>	thorium 216	<b>NT1</b>	astatine 221
<b>NT2</b>	neptunium 242	<b>NT2</b>	thorium 217	<b>NT1</b>	astatine 222
<b>NT2</b>	neptunium 243	<b>NT2</b>	thorium 218	<b>NT1</b>	astatine 223
<b>NT2</b>	neptunium 244	<b>NT2</b>	thorium 219	<b>NT1</b>	bismuth 184
<b>NT2</b>	nobelium 248	<b>NT2</b>	thorium 220	<b>NT1</b>	bismuth 185
<b>NT2</b>	nobelium 250	<b>NT2</b>	thorium 221	<b>NT1</b>	bismuth 186
<b>NT2</b>	nobelium 251	<b>NT2</b>	thorium 222	<b>NT1</b>	bismuth 187
<b>NT2</b>	nobelium 252	<b>NT2</b>	thorium 223	<b>NT1</b>	bismuth 188
<b>NT2</b>	nobelium 253	<b>NT2</b>	thorium 224	<b>NT1</b>	bismuth 189
<b>NT2</b>	nobelium 254	<b>NT2</b>	thorium 225	<b>NT1</b>	bismuth 190
<b>NT2</b>	nobelium 255	<b>NT2</b>	thorium 226	<b>NT1</b>	bismuth 191
<b>NT2</b>	nobelium 256	<b>NT2</b>	thorium 227	<b>NT1</b>	bismuth 192
<b>NT2</b>	nobelium 257	<b>NT2</b>	thorium 228	<b>NT1</b>	bismuth 193
<b>NT2</b>	nobelium 258	<b>NT2</b>	thorium 229	<b>NT1</b>	bismuth 194
<b>NT2</b>	nobelium 259	<b>NT2</b>	thorium 230	<b>NT1</b>	bismuth 195
<b>NT2</b>	nobelium 260	<b>NT2</b>	thorium 231	<b>NT1</b>	bismuth 196
<b>NT2</b>	nobelium 261	<b>NT2</b>	thorium 232	<b>NT1</b>	bismuth 197
<b>NT2</b>	nobelium 262	<b>NT2</b>	thorium 233	<b>NT1</b>	bismuth 198
<b>NT2</b>	nobelium 263	<b>NT2</b>	thorium 234	<b>NT1</b>	bismuth 199
<b>NT2</b>	nobelium 264	<b>NT2</b>	thorium 235	<b>NT1</b>	bismuth 200
<b>NT2</b>	plutonium 228	<b>NT2</b>	thorium 236	<b>NT1</b>	bismuth 201
<b>NT2</b>	plutonium 229	<b>NT2</b>	thorium 237	<b>NT1</b>	bismuth 202
<b>NT2</b>	plutonium 230	<b>NT2</b>	thorium 238	<b>NT1</b>	bismuth 203
<b>NT2</b>	plutonium 231	<b>NT2</b>	uranium 217	<b>NT1</b>	bismuth 204
<b>NT2</b>	plutonium 232	<b>NT2</b>	uranium 218	<b>NT1</b>	bismuth 205
<b>NT2</b>	plutonium 233	<b>NT2</b>	uranium 219	<b>NT1</b>	bismuth 206
<b>NT2</b>	plutonium 234	<b>NT2</b>	uranium 220	<b>NT1</b>	bismuth 207
<b>NT2</b>	plutonium 235	<b>NT2</b>	uranium 221	<b>NT1</b>	bismuth 208
<b>NT2</b>	plutonium 236	<b>NT2</b>	uranium 222	<b>NT1</b>	bismuth 209
<b>NT2</b>	plutonium 237	<b>NT2</b>	uranium 223	<b>NT1</b>	bismuth 210
<b>NT2</b>	plutonium 238	<b>NT2</b>	uranium 224	<b>NT1</b>	bismuth 211
<b>NT2</b>	plutonium 239	<b>NT2</b>	uranium 225	<b>NT1</b>	bismuth 212
<b>NT2</b>	plutonium 240	<b>NT2</b>	uranium 226	<b>NT1</b>	bismuth 213
<b>NT2</b>	plutonium 241	<b>NT2</b>	uranium 227	<b>NT1</b>	bismuth 214
<b>NT2</b>	plutonium 242	<b>NT2</b>	uranium 228	<b>NT1</b>	bismuth 215
<b>NT2</b>	plutonium 243	<b>NT2</b>	uranium 229	<b>NT1</b>	bismuth 216
<b>NT2</b>	plutonium 244	<b>NT2</b>	uranium 230	<b>NT1</b>	bismuth 217
<b>NT2</b>	plutonium 245	<b>NT2</b>	uranium 231	<b>NT1</b>	bismuth 218
<b>NT2</b>	plutonium 246	<b>NT2</b>	uranium 232	<b>NT1</b>	bohrium 260
<b>NT2</b>	plutonium 247	<b>NT2</b>	uranium 233	<b>NT1</b>	bohrium 261
<b>NT2</b>	plutonium 248	<b>NT2</b>	uranium 234	<b>NT1</b>	bohrium 262
<b>NT2</b>	plutonium 250	<b>NT2</b>	uranium 235	<b>NT1</b>	bohrium 263
<b>NT2</b>	protactinium 212	<b>NT2</b>	uranium 236	<b>NT1</b>	bohrium 264
<b>NT2</b>	protactinium 213	<b>NT2</b>	uranium 237	<b>NT1</b>	bohrium 265
<b>NT2</b>	protactinium 214	<b>NT2</b>	uranium 238	<b>NT1</b>	bohrium 266
<b>NT2</b>	protactinium 215	<b>NT2</b>	uranium 239	<b>NT1</b>	bohrium 267
<b>NT2</b>	protactinium 216	<b>NT2</b>	uranium 240	<b>NT1</b>	bohrium 271
<b>NT2</b>	protactinium 217	<b>NT2</b>	uranium 241	<b>NT1</b>	bohrium 272
<b>NT2</b>	protactinium 218	<b>NT2</b>	uranium 242	<b>NT1</b>	bohrium 273
<b>NT2</b>	protactinium 219	<b>NT1</b>	astatine 191	<b>NT1</b>	bohrium 274
<b>NT2</b>	protactinium 220	<b>NT1</b>	astatine 192	<b>NT1</b>	bohrium 275
<b>NT2</b>	protactinium 221	<b>NT1</b>	astatine 193	<b>NT1</b>	copernicium 277
<b>NT2</b>	protactinium 222	<b>NT1</b>	astatine 194	<b>NT1</b>	copernicium 278
<b>NT2</b>	protactinium 223	<b>NT1</b>	astatine 195	<b>NT1</b>	copernicium 282
<b>NT2</b>	protactinium 224	<b>NT1</b>	astatine 196	<b>NT1</b>	copernicium 283
<b>NT2</b>	protactinium 225	<b>NT1</b>	astatine 197	<b>NT1</b>	copernicium 284
<b>NT2</b>	protactinium 226	<b>NT1</b>	astatine 198	<b>NT1</b>	copernicium 285
<b>NT2</b>	protactinium 227	<b>NT1</b>	astatine 199	<b>NT1</b>	darmstadtium 267
<b>NT2</b>	protactinium 228	<b>NT1</b>	astatine 200	<b>NT1</b>	darmstadtium 269
<b>NT2</b>	protactinium 229	<b>NT1</b>	astatine 201	<b>NT1</b>	darmstadtium 270
<b>NT2</b>	protactinium 230	<b>NT1</b>	astatine 202	<b>NT1</b>	darmstadtium 271
<b>NT2</b>	protactinium 231	<b>NT1</b>	astatine 203	<b>NT1</b>	darmstadtium 272
<b>NT2</b>	protactinium 232	<b>NT1</b>	astatine 204	<b>NT1</b>	darmstadtium 273
<b>NT2</b>	protactinium 233	<b>NT1</b>	astatine 205	<b>NT1</b>	darmstadtium 279
<b>NT2</b>	protactinium 234	<b>NT1</b>	astatine 206	<b>NT1</b>	darmstadtium 281
<b>NT2</b>	protactinium 235	<b>NT1</b>	astatine 207	<b>NT1</b>	dubnium 255
<b>NT2</b>	protactinium 236	<b>NT1</b>	astatine 208	<b>NT1</b>	dubnium 256
<b>NT2</b>	protactinium 237	<b>NT1</b>	astatine 209	<b>NT1</b>	dubnium 257

NT1	dubnium 258	NT1	hafnium 182	NT1	lutetium 181
NT1	dubnium 259	NT1	hafnium 183	NT1	lutetium 182
NT1	dubnium 260	NT1	hafnium 184	NT1	lutetium 183
NT1	dubnium 261	NT1	hafnium 185	NT1	lutetium 184
NT1	dubnium 262	NT1	hafnium 186	NT1	lutetium 187
NT1	dubnium 263	NT1	hafnium 187	NT1	meitnerium 265
NT1	dubnium 264	NT1	hafnium 188	NT1	meitnerium 266
NT1	dubnium 265	NT1	hassium 263	NT1	meitnerium 267
NT1	dubnium 266	NT1	hassium 264	NT1	meitnerium 268
NT1	dubnium 267	NT1	hassium 265	NT1	meitnerium 270
NT1	dubnium 268	NT1	hassium 266	NT1	meitnerium 271
NT1	dubnium 269	NT1	hassium 267	NT1	meitnerium 272
NT1	element 124 312	NT1	hassium 269	NT1	meitnerium 273
NT1	flerovium 285	NT1	hassium 270	NT1	meitnerium 274
NT1	flerovium 286	NT1	hassium 271	NT1	meitnerium 275
NT1	flerovium 287	NT1	hassium 272	NT1	meitnerium 276
NT1	flerovium 288	NT1	hassium 274	NT1	meitnerium 279
NT1	flerovium 289	NT1	hassium 275	NT1	mercury 181
NT1	flerovium 292	NT1	hassium 276	NT1	mercury 182
NT1	francium 199	NT1	iridium 181	NT1	mercury 183
NT1	francium 200	NT1	iridium 182	NT1	mercury 184
NT1	francium 201	NT1	iridium 183	NT1	mercury 185
NT1	francium 202	NT1	iridium 184	NT1	mercury 186
NT1	francium 203	NT1	iridium 185	NT1	mercury 187
NT1	francium 204	NT1	iridium 186	NT1	mercury 188
NT1	francium 205	NT1	iridium 187	NT1	mercury 189
NT1	francium 206	NT1	iridium 188	NT1	mercury 190
NT1	francium 207	NT1	iridium 189	NT1	mercury 191
NT1	francium 208	NT1	iridium 190	NT1	mercury 192
NT1	francium 209	NT1	iridium 191	NT1	mercury 193
NT1	francium 210	NT1	iridium 192	NT1	mercury 194
NT1	francium 211	NT1	iridium 193	NT1	mercury 195
NT1	francium 212	NT1	iridium 194	NT1	mercury 196
NT1	francium 213	NT1	iridium 195	NT1	mercury 197
NT1	francium 214	NT1	iridium 196	NT1	mercury 198
NT1	francium 215	NT1	iridium 197	NT1	mercury 199
NT1	francium 216	NT1	iridium 198	NT1	mercury 200
NT1	francium 217	NT1	iridium 199	NT1	mercury 201
NT1	francium 218	NT1	iridium 202	NT1	mercury 202
NT1	francium 219	NT1	lead 181	NT1	mercury 203
NT1	francium 220	NT1	lead 182	NT1	mercury 204
NT1	francium 221	NT1	lead 183	NT1	mercury 205
NT1	francium 222	NT1	lead 184	NT1	mercury 206
NT1	francium 223	NT1	lead 185	NT1	mercury 207
NT1	francium 224	NT1	lead 186	NT1	mercury 208
NT1	francium 225	NT1	lead 187	NT1	mercury 209
NT1	francium 226	NT1	lead 188	NT1	mercury 210
NT1	francium 227	NT1	lead 189	NT1	mercury 211
NT1	francium 228	NT1	lead 190	NT1	mercury 212
NT1	francium 229	NT1	lead 191	NT1	moscovium 287
NT1	francium 230	NT1	lead 192	NT1	moscovium 288
NT1	francium 231	NT1	lead 193	NT1	nihonium 278
NT1	francium 232	NT1	lead 194	NT1	nihonium 283
NT1	gold 181	NT1	lead 195	NT1	nihonium 284
NT1	gold 182	NT1	lead 196	NT1	oganesson 294
NT1	gold 183	NT1	lead 197	NT1	osmium 181
NT1	gold 184	NT1	lead 198	NT1	osmium 182
NT1	gold 185	NT1	lead 199	NT1	osmium 183
NT1	gold 186	NT1	lead 200	NT1	osmium 184
NT1	gold 187	NT1	lead 201	NT1	osmium 185
NT1	gold 188	NT1	lead 202	NT1	osmium 186
NT1	gold 189	NT1	lead 203	NT1	osmium 187
NT1	gold 190	NT1	lead 204	NT1	osmium 188
NT1	gold 191	NT1	lead 205	NT1	osmium 189
NT1	gold 192	NT1	lead 206	NT1	osmium 190
NT1	gold 193	NT1	lead 207	NT1	osmium 191
NT1	gold 194	NT1	lead 208	NT1	osmium 192
NT1	gold 195	NT1	lead 209	NT1	osmium 193
NT1	gold 196	NT1	lead 210	NT1	osmium 194
NT1	gold 197	NT1	lead 211	NT1	osmium 195
NT1	gold 198	NT1	lead 212	NT1	osmium 196
NT1	gold 199	NT1	lead 213	NT1	osmium 197
NT1	gold 200	NT1	lead 214	NT1	osmium 199
NT1	gold 201	NT1	lead 215	NT1	osmium 200
NT1	gold 202	NT1	lead 216	NT1	platinum 181
NT1	gold 203	NT1	livermorium 290	NT1	platinum 182
NT1	gold 204	NT1	livermorium 291	NT1	platinum 183
NT1	gold 205	NT1	livermorium 292	NT1	platinum 184
NT1	hafnium 181	NT1	livermorium 293	NT1	platinum 185

<b>NT1</b>	platinum 186	<b>NT1</b>	radium 222	<b>NT1</b>	rutherfordium 261
<b>NT1</b>	platinum 187	<b>NT1</b>	radium 223	<b>NT1</b>	rutherfordium 262
<b>NT1</b>	platinum 188	<b>NT1</b>	radium 224	<b>NT1</b>	rutherfordium 263
<b>NT1</b>	platinum 189	<b>NT1</b>	radium 225	<b>NT1</b>	rutherfordium 264
<b>NT1</b>	platinum 190	<b>NT1</b>	radium 226	<b>NT1</b>	rutherfordium 265
<b>NT1</b>	platinum 191	<b>NT1</b>	radium 227	<b>NT1</b>	rutherfordium 266
<b>NT1</b>	platinum 192	<b>NT1</b>	radium 228	<b>NT1</b>	rutherfordium 267
<b>NT1</b>	platinum 193	<b>NT1</b>	radium 229	<b>NT1</b>	rutherfordium 268
<b>NT1</b>	platinum 194	<b>NT1</b>	radium 230	<b>NT1</b>	seaborgium 258
<b>NT1</b>	platinum 195	<b>NT1</b>	radium 231	<b>NT1</b>	seaborgium 259
<b>NT1</b>	platinum 196	<b>NT1</b>	radium 232	<b>NT1</b>	seaborgium 260
<b>NT1</b>	platinum 197	<b>NT1</b>	radium 233	<b>NT1</b>	seaborgium 261
<b>NT1</b>	platinum 198	<b>NT1</b>	radium 234	<b>NT1</b>	seaborgium 262
<b>NT1</b>	platinum 199	<b>NT1</b>	radon 193	<b>NT1</b>	seaborgium 263
<b>NT1</b>	platinum 200	<b>NT1</b>	radon 194	<b>NT1</b>	seaborgium 264
<b>NT1</b>	platinum 201	<b>NT1</b>	radon 195	<b>NT1</b>	seaborgium 265
<b>NT1</b>	platinum 202	<b>NT1</b>	radon 196	<b>NT1</b>	seaborgium 266
<b>NT1</b>	platinum 203	<b>NT1</b>	radon 197	<b>NT1</b>	seaborgium 268
<b>NT1</b>	platinum 204	<b>NT1</b>	radon 198	<b>NT1</b>	seaborgium 270
<b>NT1</b>	platinum 205	<b>NT1</b>	radon 199	<b>NT1</b>	seaborgium 271
<b>NT1</b>	platinum 206	<b>NT1</b>	radon 200	<b>NT1</b>	seaborgium 272
<b>NT1</b>	platinum 207	<b>NT1</b>	radon 201	<b>NT1</b>	seaborgium 273
<b>NT1</b>	platinum 208	<b>NT1</b>	radon 202	<b>NT1</b>	tantalum 181
<b>NT1</b>	polonium 186	<b>NT1</b>	radon 203	<b>NT1</b>	tantalum 182
<b>NT1</b>	polonium 187	<b>NT1</b>	radon 204	<b>NT1</b>	tantalum 183
<b>NT1</b>	polonium 188	<b>NT1</b>	radon 205	<b>NT1</b>	tantalum 184
<b>NT1</b>	polonium 189	<b>NT1</b>	radon 206	<b>NT1</b>	tantalum 185
<b>NT1</b>	polonium 190	<b>NT1</b>	radon 207	<b>NT1</b>	tantalum 186
<b>NT1</b>	polonium 191	<b>NT1</b>	radon 208	<b>NT1</b>	tantalum 187
<b>NT1</b>	polonium 192	<b>NT1</b>	radon 209	<b>NT1</b>	tantalum 188
<b>NT1</b>	polonium 193	<b>NT1</b>	radon 210	<b>NT1</b>	tantalum 189
<b>NT1</b>	polonium 194	<b>NT1</b>	radon 211	<b>NT1</b>	tantalum 190
<b>NT1</b>	polonium 195	<b>NT1</b>	radon 212	<b>NT1</b>	thallium 181
<b>NT1</b>	polonium 196	<b>NT1</b>	radon 213	<b>NT1</b>	thallium 182
<b>NT1</b>	polonium 197	<b>NT1</b>	radon 214	<b>NT1</b>	thallium 183
<b>NT1</b>	polonium 198	<b>NT1</b>	radon 215	<b>NT1</b>	thallium 184
<b>NT1</b>	polonium 199	<b>NT1</b>	radon 216	<b>NT1</b>	thallium 185
<b>NT1</b>	polonium 200	<b>NT1</b>	radon 217	<b>NT1</b>	thallium 186
<b>NT1</b>	polonium 201	<b>NT1</b>	radon 218	<b>NT1</b>	thallium 187
<b>NT1</b>	polonium 202	<b>NT1</b>	radon 219	<b>NT1</b>	thallium 188
<b>NT1</b>	polonium 203	<b>NT1</b>	radon 220	<b>NT1</b>	thallium 189
<b>NT1</b>	polonium 204	<b>NT1</b>	radon 221	<b>NT1</b>	thallium 190
<b>NT1</b>	polonium 205	<b>NT1</b>	radon 222	<b>NT1</b>	thallium 191
<b>NT1</b>	polonium 206	<b>NT1</b>	radon 223	<b>NT1</b>	thallium 192
<b>NT1</b>	polonium 207	<b>NT1</b>	radon 224	<b>NT1</b>	thallium 193
<b>NT1</b>	polonium 208	<b>NT1</b>	radon 225	<b>NT1</b>	thallium 194
<b>NT1</b>	polonium 209	<b>NT1</b>	radon 226	<b>NT1</b>	thallium 195
<b>NT1</b>	polonium 210	<b>NT1</b>	radon 227	<b>NT1</b>	thallium 196
<b>NT1</b>	polonium 211	<b>NT1</b>	radon 228	<b>NT1</b>	thallium 197
<b>NT1</b>	polonium 212	<b>NT1</b>	radon 229	<b>NT1</b>	thallium 198
<b>NT1</b>	polonium 213	<b>NT1</b>	rhodium 181	<b>NT1</b>	thallium 199
<b>NT1</b>	polonium 214	<b>NT1</b>	rhodium 182	<b>NT1</b>	thallium 200
<b>NT1</b>	polonium 215	<b>NT1</b>	rhodium 183	<b>NT1</b>	thallium 201
<b>NT1</b>	polonium 216	<b>NT1</b>	rhodium 184	<b>NT1</b>	thallium 202
<b>NT1</b>	polonium 217	<b>NT1</b>	rhodium 185	<b>NT1</b>	thallium 203
<b>NT1</b>	polonium 218	<b>NT1</b>	rhodium 186	<b>NT1</b>	thallium 204
<b>NT1</b>	polonium 219	<b>NT1</b>	rhodium 187	<b>NT1</b>	thallium 205
<b>NT1</b>	polonium 220	<b>NT1</b>	rhodium 188	<b>NT1</b>	thallium 206
<b>NT1</b>	radium 201	<b>NT1</b>	rhodium 189	<b>NT1</b>	thallium 207
<b>NT1</b>	radium 202	<b>NT1</b>	rhodium 190	<b>NT1</b>	thallium 208
<b>NT1</b>	radium 203	<b>NT1</b>	rhodium 191	<b>NT1</b>	thallium 209
<b>NT1</b>	radium 204	<b>NT1</b>	rhodium 192	<b>NT1</b>	thallium 210
<b>NT1</b>	radium 205	<b>NT1</b>	rhodium 193	<b>NT1</b>	thallium 211
<b>NT1</b>	radium 206	<b>NT1</b>	rhodium 194	<b>NT1</b>	thallium 212
<b>NT1</b>	radium 207	<b>NT1</b>	rhodium 195	<b>NT1</b>	tungsten 181
<b>NT1</b>	radium 208	<b>NT1</b>	rhodium 196	<b>NT1</b>	tungsten 182
<b>NT1</b>	radium 209	<b>NT1</b>	roentgenium 272	<b>NT1</b>	tungsten 183
<b>NT1</b>	radium 210	<b>NT1</b>	roentgenium 273	<b>NT1</b>	tungsten 184
<b>NT1</b>	radium 211	<b>NT1</b>	roentgenium 274	<b>NT1</b>	tungsten 185
<b>NT1</b>	radium 212	<b>NT1</b>	roentgenium 279	<b>NT1</b>	tungsten 186
<b>NT1</b>	radium 213	<b>NT1</b>	roentgenium 280	<b>NT1</b>	tungsten 187
<b>NT1</b>	radium 214	<b>NT1</b>	rutherfordium 253	<b>NT1</b>	tungsten 188
<b>NT1</b>	radium 215	<b>NT1</b>	rutherfordium 254	<b>NT1</b>	tungsten 189
<b>NT1</b>	radium 216	<b>NT1</b>	rutherfordium 255	<b>NT1</b>	tungsten 190
<b>NT1</b>	radium 217	<b>NT1</b>	rutherfordium 256	<b>NT1</b>	tungsten 191
<b>NT1</b>	radium 218	<b>NT1</b>	rutherfordium 257	<b>NT1</b>	tungsten 192
<b>NT1</b>	radium 219	<b>NT1</b>	rutherfordium 258	<b>RT</b>	nuclear structure
<b>NT1</b>	radium 220	<b>NT1</b>	rutherfordium 259		
<b>NT1</b>	radium 221	<b>NT1</b>	rutherfordium 260		



**heavy oils**

INIS: 2000-04-12; ETDE: 1981-01-27

USE petroleum

USE viscosity

**HEAVY WATER**

1996-06-19

*Restricted to the compounds D2O and HDO; for DTO, HTO, and T2O, see the use references at those entries.*

UF deuterium oxide

UF hdo

UF heavy water coolant

UF heavy water moderator

\*BT1 deuterium compounds

\*BT1 water

RT coolants

RT dual temperature process

RT heavy water plants

RT moderators

RT tritium extraction plants

**heavy water components test reactor**

USE hwctr reactor

**heavy water coolant**

USE heavy water

**HEAVY WATER COOLED REACTORS**

UF *br-3-vn* reactor

BT1 reactors

NT1 ill high flux reactor

NT1 alrr reactor

NT1 aquilon reactor

NT1 bhwr type reactors

NT2 hbwr reactor

NT2 marviken reactor

NT1 celestin reactor

NT1 cp-3 reactor

NT1 cp-3m reactor

NT1 cp-5 reactor

NT1 dca reactor

NT1 dhruva reactor

NT1 dido reactor

NT1 diorit reactor

NT1 dmtr reactor

NT1 dr-3 reactor

NT1 el-1 reactor

NT1 el-3 reactor

NT1 eole reactor

NT1 es-salam reactor

NT1 essor reactor

NT1 fr-2 reactor

NT1 frj-2 reactor

NT1 grenoble reactor

NT1 gtr reactor

NT1 hfb reactor

NT1 hifar reactor

NT1 hwctr reactor

NT1 hwrr reactor

NT1 irr-2 reactor

NT1 ispra-1 reactor

NT1 jeep-2 reactor

NT1 jrr-2 reactor

NT1 jrr-3 reactor

NT1 mitr reactor

NT1 nbsr reactor

NT1 nora reactor

NT1 nru reactor

NT1 nrx reactor

NT1 pdp reactor

NT1 pelinduna reactor

NT1 phwr type reactors

NT2 agesta reactor

NT2 atucha-1 reactor

NT2 atucha-2 reactor

NT2 bruce-1 reactor

NT2 bruce-2 reactor

NT2 bruce-3 reactor

NT2 bruce-4 reactor

NT2 bruce-5 reactor

NT2 bruce-6 reactor

NT2 bruce-7 reactor

NT2 bruce-8 reactor

NT2 cernavoda-1 reactor

NT2 cernavoda-2 reactor

NT2 cordoba reactor

NT2 cvtr reactor

NT2 darlington-1 reactor

NT2 darlington-2 reactor

NT2 darlington-3 reactor

NT2 darlington-4 reactor

NT2 douglas point ontario reactor

NT2 embalse reactor

NT2 gentilly-2 reactor

NT2 kaiga-1 reactor

NT2 kaiga-2 reactor

NT2 kaiga-3 reactor

NT2 kaiga-4 reactor

NT2 kakrapar-1 reactor

NT2 kakrapar-2 reactor

NT2 kalpakkam-1 reactor

NT2 kalpakkam-2 reactor

NT2 kanupp reactor

NT2 mzfr reactor

NT2 narora-1 reactor

NT2 narora-2 reactor

NT2 npd reactor

NT2 pickering-1 reactor

NT2 pickering-2 reactor

NT2 pickering-3 reactor

NT2 pickering-4 reactor

NT2 pickering-5 reactor

NT2 pickering-6 reactor

NT2 pickering-7 reactor

NT2 pickering-8 reactor

NT2 point lepreau-1 reactor

NT2 point lepreau-2 reactor

NT2 qinshan-3-1 reactor

NT2 qinshan-3-2 reactor

NT2 rajasthan-1 reactor

NT2 rajasthan-2 reactor

NT2 rajasthan-3 reactor

NT2 rajasthan-4 reactor

NT2 rajasthan-5 reactor

NT2 rajasthan-6 reactor

NT2 tarapur-3 reactor

NT2 tarapur-4 reactor

NT2 wolsung-1 reactor

NT2 wolsung-2 reactor

NT2 wolsung-3 reactor

NT2 wolsung-4 reactor

NT1 pik reactor

NT1 pluto reactor

NT1 prr reactor

NT1 prtr reactor

NT1 pse reactor

NT1 r-1 reactor

NT1 r-a reactor

NT1 sm-1 subcritical assembly

NT1 spert-2 reactor

NT1 taiwan research reactor

NT1 zed-2 reactor

**heavy water gas cooled reactor of slovakia**

INIS: 1993-11-08; ETDE: 2002-06-13

USE bohunice a-1 reactor

**heavy water moderated and gas cooled reactors**

1993-11-08

USE hwgcr type reactors

**heavy water moderated and water cooled reactors**

INIS: 1993-11-08; ETDE: 2002-06-13

USE hwlwr type reactors

**HEAVY WATER MODERATED REACTORS**

UF *br-3-vn* reactor

BT1 reactors

NT1 ill high flux reactor

NT1 alrr reactor

NT1 aquilon reactor

NT1 bhwr type reactors

NT2 hbwr reactor

NT2 marviken reactor

NT1 c reactor

NT1 candu type reactors

NT2 bruce-1 reactor

NT2 bruce-2 reactor

NT2 bruce-3 reactor

NT2 bruce-4 reactor

NT2 bruce-5 reactor

NT2 bruce-6 reactor

NT2 bruce-7 reactor

NT2 bruce-8 reactor

NT2 cernavoda-1 reactor

NT2 cernavoda-2 reactor

NT2 cordoba reactor

NT2 darlington-1 reactor

NT2 darlington-2 reactor

NT2 darlington-3 reactor

NT2 darlington-4 reactor

NT2 douglas point ontario reactor

NT2 embalse reactor

NT2 gentilly-1 reactor

NT2 gentilly-2 reactor

NT2 kaiga-1 reactor

NT2 kaiga-2 reactor

NT2 kakrapar-1 reactor

NT2 kakrapar-2 reactor

NT2 kanupp reactor

NT2 npd reactor

NT2 pickering-1 reactor

NT2 pickering-2 reactor

NT2 pickering-3 reactor

NT2 pickering-4 reactor

NT2 pickering-5 reactor

NT2 pickering-6 reactor

NT2 pickering-7 reactor

NT2 pickering-8 reactor

NT2 point lepreau-1 reactor

NT2 point lepreau-2 reactor

NT2 qinshan-3-1 reactor

NT2 qinshan-3-2 reactor

NT2 rajasthan-1 reactor

NT2 rajasthan-2 reactor

NT2 rajasthan-3 reactor

NT2 rajasthan-4 reactor

NT2 wolsung-1 reactor

NT2 wolsung-2 reactor

NT2 wolsung-3 reactor

NT2 wolsung-4 reactor

NT1 celestin reactor

NT1 cirus reactor

NT1 cp-3 reactor

NT1 cp-3m reactor

NT1 cp-5 reactor

NT1 dca reactor

NT1 dhruva reactor

NT1 dido reactor

NT1 dimple reactor

NT1 diorit reactor

NT1 dmtr reactor

NT1 dr-3 reactor

NT1 eco reactor

NT1 el-1 reactor

NT1 el-2 reactor

NT1 el-3 reactor

NT1 eole reactor

NT1 es-salam reactor

NT1 essor reactor

NT1 fr-2 reactor

NT1 frj-2 reactor

NT1 frm-ii reactor

**NT1** grenoble reactor  
**NT1** gtrr reactor  
**NT1** hfbr reactor  
**NT1** hifar reactor  
**NT1** hre-2 reactor  
**NT1** hwctr reactor  
**NT1** hwgcr type reactors  
**NT2** bohunice a-1 reactor  
**NT2** bohunice a-2 reactor  
**NT2** el-4 reactor  
**NT2** lucens reactor  
**NT2** niederaichbach reactor  
**NT1** hwlwr type reactors  
**NT2** cirene reactor  
**NT2** gentilly-1 reactor  
**NT2** jatr reactor  
**NT1** hwrr reactor  
**NT1** hwzpr reactor  
**NT1** ir-2 reactor  
**NT1** ispra-1 reactor  
**NT1** jeep-2 reactor  
**NT1** jrr-2 reactor  
**NT1** jrr-3 reactor  
**NT1** juno reactor  
**NT1** k reactor  
**NT1** l reactor  
**NT1** maple reactor  
**NT1** maple type reactors  
**NT1** mitr reactor  
**NT1** nbsr reactor  
**NT1** nora reactor  
**NT1** nru reactor  
**NT1** nrx reactor  
**NT1** p reactor  
**NT1** pdp reactor  
**NT1** pelinduna reactor  
**NT1** phwr type reactors  
**NT2** agesta reactor  
**NT2** atucha-1 reactor  
**NT2** atucha-2 reactor  
**NT2** bruce-1 reactor  
**NT2** bruce-2 reactor  
**NT2** bruce-3 reactor  
**NT2** bruce-4 reactor  
**NT2** bruce-5 reactor  
**NT2** bruce-6 reactor  
**NT2** bruce-7 reactor  
**NT2** bruce-8 reactor  
**NT2** cernavoda-1 reactor  
**NT2** cernavoda-2 reactor  
**NT2** cordoba reactor  
**NT2** cvtr reactor  
**NT2** darlington-1 reactor  
**NT2** darlington-2 reactor  
**NT2** darlington-3 reactor  
**NT2** darlington-4 reactor  
**NT2** douglas point ontario reactor  
**NT2** embalse reactor  
**NT2** gentilly-2 reactor  
**NT2** kaiga-1 reactor  
**NT2** kaiga-2 reactor  
**NT2** kaiga-3 reactor  
**NT2** kaiga-4 reactor  
**NT2** kakrapar-1 reactor  
**NT2** kakrapar-2 reactor  
**NT2** kalpakkam-1 reactor  
**NT2** kalpakkam-2 reactor  
**NT2** kanupp reactor  
**NT2** mzfr reactor  
**NT2** narora-1 reactor  
**NT2** narora-2 reactor  
**NT2** npd reactor  
**NT2** pickering-1 reactor  
**NT2** pickering-2 reactor  
**NT2** pickering-3 reactor  
**NT2** pickering-4 reactor  
**NT2** pickering-5 reactor  
**NT2** pickering-6 reactor  
**NT2** pickering-7 reactor

**NT2** pickering-8 reactor  
**NT2** point lepreau-1 reactor  
**NT2** point lepreau-2 reactor  
**NT2** qinshan-3-1 reactor  
**NT2** qinshan-3-2 reactor  
**NT2** rajasthan-1 reactor  
**NT2** rajasthan-2 reactor  
**NT2** rajasthan-3 reactor  
**NT2** rajasthan-4 reactor  
**NT2** rajasthan-5 reactor  
**NT2** rajasthan-6 reactor  
**NT2** tarapur-3 reactor  
**NT2** tarapur-4 reactor  
**NT2** wolsung-1 reactor  
**NT2** wolsung-2 reactor  
**NT2** wolsung-3 reactor  
**NT2** wolsung-4 reactor  
**NT1** pik reactor  
**NT1** pluto reactor  
**NT1** prr reactor  
**NT1** prtr reactor  
**NT1** pse reactor  
**NT1** r-1 reactor  
**NT1** r-a reactor  
**NT1** r-b reactor  
**NT1** r reactor  
**NT1** rb-3 reactor  
**NT1** rtr reactor  
**NT1** sghwr reactor  
**NT1** spert-2 reactor  
**NT1** taiwan research reactor  
**NT1** tr-0 reactor  
**NT1** wr-1 reactor  
**NT1** zed-2 reactor  
**NT1** zeep reactor  
**NT1** zerlina reactor

### heavy water moderator

USE heavy water

### HEAVY WATER PLANTS

*INIS: 1978-11-24; ETDE: 1978-02-14*  
*Plants for the production and/or upgrading of heavy water.*

\*BT1 isotope separation plants  
 RT heavy water  
 RT isotope separation

### heavy water research reactor

*INIS: 2003-02-03; ETDE: 2003-01-24*  
*CIAE, Beijing, China.*  
 USE hwrr reactor

### heavy water zero power reactor

2003-08-15  
*Esfahan Nuclear Technology Centre, Iran.*  
 USE hwzpr reactor

### HEBER GEOTHERMAL FIELD

*INIS: 2000-04-12; ETDE: 1975-10-01*  
 BT1 geothermal fields  
 RT california

### HECTOR REACTOR

*UKAEA, Winfrith, United Kingdom.*  
*UF hot enriched carbon moderated thermal oscillator reactor*  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 materials testing reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

### hectorite

USE montmorillonite

### HEDDUR

2000-04-12  
 \*BT1 aluminium base alloys

\*BT1 copper alloys

### HEDENBERGITE

*INIS: 2000-04-12; ETDE: 1976-01-07*  
*A black mineral of the clinopyroxene group.*  
 \*BT1 silicate minerals

### hedl

*INIS: 1985-12-10; ETDE: 2002-06-13*  
 USE hanford engineering development laboratory

### HEDTA

*Hydroxyethylethylenediaminetriacetic acid.*  
*UF hydroxyethylethylenediaminetriacetic acid*  
 \*BT1 amino acids  
 BT1 chelating agents  
 \*BT1 hydroxy acids

### HEF

*INIS: 1990-12-06; ETDE: 1980-10-27*  
*To demonstrate breeder reactor fuel reprocessing.*  
 (prior to December 1990, this concept was indexed by HOT EXPERIMENTAL FACILITY.)  
*UF hot experimental facility*  
 \*BT1 fuel reprocessing plants  
 RT consolidated fuel reprocessing program  
 RT pilot plants

### HEIDA

*UF hydroxyethyliminodiacetic acid*  
 \*BT1 amino acids  
 BT1 chelating agents  
 \*BT1 hydroxy acids

### heidelberg storage ring

*INIS: 1993-09-16; ETDE: 1993-11-08*  
 USE tsr storage ring

### heidelberg triga-mk-1-dkfkz reactor

*INIS: 1993-11-08; ETDE: 2002-06-13*  
 USE triga-1-heidelberg reactor

### HEIGHT

2000-05-23  
*For elevation use LEVELS.*  
 BT1 dimensions  
**NT1** scale height  
**NT1** virtual height  
 RT altitude  
 RT levels

### HEINRICHITE

2000-04-12  
 \*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT arsenic oxides  
 RT barium oxides  
 RT uranium oxides

### HEISENBERG MODEL

\*BT1 crystal models  
 RT electronic structure  
 RT ferromagnetism  
 RT phi4-field theory  
 RT spin

### HEISENBERG PICTURE

*UF heisenberg representation*  
 RT quantum field theory  
 RT quantum mechanics  
 RT schrodinger picture

### heisenberg principle

USE uncertainty principle

### heisenberg representation

USE heisenberg picture

**heissdampfreaktoranlage**

USE hdr reactor

**HEITLER-LONDON THEORY**

1996-07-18

(Prior to March 1997 HEITLER-LONDON WAVES was a valid ETDE descriptor.)

UF heitler-london waves

RT binding energy

**heitler-london waves**

2000-03-28

(Until July 1996 this was a valid descriptor.)

USE heitler-london theory

**HELA CELLS**

\*BT1 tumor cells

RT clone cells

RT in vitro

**helac**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

USE linear accelerators

**HELIAC STELLARATORS**

INIS: 1995-09-14; ETDE: 1987-06-09

*Helical magnetic axis stellarators.*

\*BT1 stellarators

NT1 h-1 heliac

NT1 hsx stellarator

NT1 sheila heliac

NT1 tj-ii heliac

**helianthus annuus**

USE sunflowers

**HELICAL CONFIGURATION**

BT1 configuration

RT dna

RT magnetic field configurations

RT molecular structure

**HELICAL INSTABILITY**

UF screw instability

\*BT1 plasma macroinstabilities

**HELICAL ROTARY SCREW****EXPANDER**

INIS: 2000-04-12; ETDE: 1977-06-02

UF lysholm engine

RT rotary engines

RT turbines

**HELICAL WAVEGUIDES**

BT1 waveguides

**HELICITY**

BT1 particle properties

RT angular momentum

RT chirality

RT spin

**HELICON RESONANCE**

BT1 resonance

RT superconductivity

**HELICON WAVES**

\*BT1 electromagnetic radiation

**HELICOPTERS**

INIS: 1992-02-21; ETDE: 1982-04-09

BT1 aircraft

**HELIOS DEVICES**

\*BT1 q devices

**HELIOS FACILITY**

INIS: 1995-03-28; ETDE: 1979-07-24

*Large CO<sub>2</sub> laser facility at Los Alamos for laser fusion experiments.*

RT antares facility

RT carbon dioxide lasers

RT lanl

RT laser fusion reactors

**HELIOSPHERE**

INIS: 1987-02-25; ETDE: 1987-05-01

*Influence zone of the sun in interstellar space, delimited by the ejected solar plasma.*

\*BT1 solar atmosphere

**HELIOSTATS**

INIS: 1992-03-27; ETDE: 1976-01-07

\*BT1 solar equipment

NT1 solar tracking systems

RT central receiver test facility

RT control systems

RT solar tracking

**heliothis**

USE bollworm

**HELIOTRON**

1998-09-29

\*BT1 closed plasma devices

RT lhd device

RT torsatron stellarators

**HELIOTRON-E STELLARATOR**

INIS: 1999-07-26; ETDE: 1999-09-03

*Plasma Physics Laboratory, Kyoto University, Japan.*

\*BT1 stellarators

**HELIUM**

\*BT1 rare gases

RT cryogenic fluids

RT helium embrittlement

**HELIUM 10**

\*BT1 even-even nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

**HELIUM 2**

1980-02-26

\*BT1 even-even nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

RT diprotons

**HELIUM 3**

\*BT1 even-odd nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

\*BT1 stable isotopes

NT1 helium 3 a

NT1 helium 3 a1

NT1 helium 3 b

RT helium 3 beams

RT quantum fluids

**HELIUM 3 A**

INIS: 1975-10-23; ETDE: 1975-08-19

*A phase of superfluid helium 3.*

\*BT1 helium 3

RT superfluidity

**HELIUM 3 A1**

INIS: 1981-08-31; ETDE: 1977-06-02

*A phase of superfluid helium 3.*

\*BT1 helium 3

RT superfluidity

**HELIUM 3 B**

INIS: 1975-10-23; ETDE: 1975-08-19

*A phase of superfluid helium 3.*

\*BT1 helium 3

RT superfluidity

**HELIUM 3 BEAMS**

\*BT1 ion beams

RT helium 3

**HELIUM 3 REACTIONS**

\*BT1 charged-particle reactions

**HELIUM 3 TARGET**

ETDE: 1976-07-09

BT1 targets

**HELIUM 4**

\*BT1 even-even nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

\*BT1 stable isotopes

NT1 helium i

NT1 helium ii

RT helium 4 beams

RT lambda point

RT quantum fluids

**HELIUM 4 BEAMS**

\*BT1 ion beams

NT1 alpha beams

RT helium 4

**helium 4 reactions**

USE alpha reactions

**HELIUM 4 TARGET**

ETDE: 1976-07-09

BT1 targets

**HELIUM 5**

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

**HELIUM 6**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

RT helium 6 beams

**HELIUM 6 BEAMS**

2014-04-25

\*BT1 radioactive ion beams

RT helium 6

**HELIUM 6 REACTIONS**

INIS: 1985-07-22; ETDE: 1985-08-08

\*BT1 heavy ion reactions

**HELIUM 6 TARGET**

INIS: 1986-01-21; ETDE: 1977-05-07

BT1 targets

**HELIUM 7**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

**HELIUM 8**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

RT helium 8 beams

**HELIUM 8 BEAMS**

INIS: 1985-05-15; ETDE: 1985-07-18

\*BT1 radioactive ion beams

\*BT1 secondary beams

RT helium 8

**HELIUM 8 REACTIONS**

INIS: 1985-07-22; ETDE: 1985-08-08

\*BT1 heavy ion reactions

**HELIUM 9**

\*BT1 even-odd nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

## HELIUM ASH

INIS: 1990-02-28; ETDE: 1990-03-15

A thermonuclear reaction product.

\*BT1 helium ions  
 RT alpha particles  
 RT pumped limiters  
 RT thermonuclear reactions

## HELIUM BURNING

INIS: 1978-09-28; ETDE: 1978-10-20

Astrophysical processes only.

BT1 star burning  
 RT dwarf stars  
 RT nucleosynthesis  
 RT red giant stars  
 RT star evolution

## HELIUM CHLORIDES

\*BT1 chlorides  
 \*BT1 helium halides

## HELIUM COMPLEXES

BT1 complexes

## HELIUM COMPOUNDS

1996-06-28

BT1 rare gas compounds  
 NT1 helium halides  
 NT2 helium chlorides  
 NT1 helium hydrides  
 NT1 helium hydroxides  
 NT1 helium oxides  
 NT1 helium tritides

## HELIUM COOLED REACTORS

1998-01-29

\*BT1 gas cooled reactors  
 NT1 avr reactor  
 NT1 dragon reactor  
 NT1 ebora reactor  
 NT1 egcr reactor  
 NT1 fulton-1 reactor  
 NT1 fulton-2 reactor  
 NT1 gcf reactor  
 NT1 gcr reactor  
 NT1 htr-10 reactor  
 NT1 htr reactor  
 NT1 ica-zpr reactor  
 NT1 peach bottom-1 reactor  
 NT1 schmehausen-2 reactor  
 NT1 summit-1 reactor  
 NT1 summit-2 reactor  
 NT1 thtr-300 reactor  
 NT1 uhtrex reactor  
 NT1 vg-400 reactor  
 NT1 vgr-50 reactor  
 NT1 vhr reactor  
 NT1 vidal-1 reactor  
 NT1 vidal-2 reactor  
 NT1 vrain reactor  
 RT htr type reactors

## HELIUM DILUTION

### REFRIGERATION

\*BT1 refrigeration  
 RT cryogenics  
 RT helium dilution refrigerators  
 RT refrigerators

## HELIUM DILUTION

### REFRIGERATORS

1982-06-09

BT1 refrigerators  
 RT cryostats  
 RT helium dilution refrigeration

## HELIUM EMBRITTLEMENT

INIS: 1992-06-17; ETDE: 1985-03-26

A decrease in the fracture strength of metals due to the incorporation of helium in the metal lattice.

BT1 embrittlement  
 RT brittleness  
 RT fracture properties  
 RT helium  
 RT interstitial helium generation

## helium generation

INIS: 1990-12-15; ETDE: 1983-04-28

(Prior to December 1990, this was a valid descriptor.)

USE interstitial helium generation

## HELIUM HALIDES

2012-07-19

\*BT1 halides  
 \*BT1 helium compounds  
 NT1 helium chlorides

## HELIUM HYDRIDES

\*BT1 helium compounds  
 \*BT1 hydrides

## HELIUM HYDROXIDES

1996-06-28

(From June 1996 to November 2007 HELIUM COMPOUNDS + HYDROXIDES was used for this concept.)

\*BT1 helium compounds  
 \*BT1 hydroxides

## HELIUM I

The phase of liquid helium-4 which is stable at temperatures above the lambda point (about 2.2 K).

\*BT1 helium 4

## HELIUM II

The phase of liquid helium-4 which is stable at temperatures between absolute zero and the lambda point (about 2.2 K).

\*BT1 helium 4  
 \*BT1 quantum fluids  
 RT film flow  
 RT landau liquid helium theory  
 RT superfluidity

## HELIUM IONS

\*BT1 ions  
 NT1 helium ash  
 RT alpha particles

## HELIUM ISOTOPES

1999-07-16

BT1 isotopes  
 NT1 helium 10  
 NT1 helium 2  
 NT1 helium 3  
 NT2 helium 3 a  
 NT2 helium 3 a1  
 NT2 helium 3 b  
 NT1 helium 4  
 NT2 helium i  
 NT2 helium ii  
 NT1 helium 5  
 NT1 helium 6  
 NT1 helium 7  
 NT1 helium 8  
 NT1 helium 9

## helium jet method

INIS: 1984-04-04; ETDE: 2002-06-13

USE reaction product transport systems

## helium method

USE isotope dating

## HELIUM-NEON LASERS

INIS: 1976-05-05; ETDE: 1976-06-07

\*BT1 gas lasers

## HELIUM OXIDES

2000-04-12

(From July 1996 to November 2007 HELIUM COMPOUNDS + OXIDES was used for this concept.)

\*BT1 helium compounds  
 \*BT1 oxides

## helium production rates

INIS: 2000-04-12; ETDE: 1979-09-26

USE interstitial helium generation

## HELIUM TRITIDES

1977-09-06

\*BT1 helium compounds  
 \*BT1 tritides

## HELIUM-XENON LASERS

INIS: 1992-08-11; ETDE: 1980-05-06

\*BT1 gas lasers

## helmholtz free energy

USE free energy

## HELMHOLTZ INSTABILITY

UF kelvin-helmholtz instability

\*BT1 plasma macroinstabilities  
 RT fluid flow

## HELMHOLTZ THEOREM

RT vectors

## helminths

(Prior to September 2005 this was a valid descriptor.)

SEE parasites  
 SEE plathyhelminths

## HELVITE

2000-04-12

\*BT1 silicate minerals  
 RT beryllium silicates  
 RT iron silicates  
 RT manganese silicates

## hemagglutination

USE hemagglutinins

## HEMAGGLUTININS

UF hemagglutination  
 \*BT1 agglutinins  
 NT1 concanavalin a  
 NT1 phytohemagglutinin  
 RT blood groups  
 RT erythrocytes

## hemangiomas

USE angiomas

## hematin

USE heme

## HEMATINICS

INIS: 1993-08-26; ETDE: 1981-04-20

\*BT1 hematologic agents  
 NT1 folic acid  
 NT1 intrinsic factor  
 NT1 vitamin b-12  
 RT anticoagulants  
 RT blood substitutes  
 RT coagulants  
 RT fibrinolytic agents

## HEMATITE

A common iron mineral.

\*BT1 iron ores  
 \*BT1 oxide minerals  
 RT iron oxides  
 RT limonite

**HEMATOLOGIC AGENTS**

INIS: 1984-05-24; ETDE: 1981-04-20

- BT1 drugs
- NT1 anticoagulants
  - NT2 coumarin
  - NT2 heparin
  - NT2 psoralen
- NT1 blood substitutes
  - NT2 dextran
  - NT2 pectins
  - NT2 pvp
- NT1 coagulants
  - NT2 protamines
- NT1 fibrinolytic agents
  - NT2 fibrinolysin
  - NT2 plasminogen
  - NT2 urokinase
- NT1 hematinics
  - NT2 folic acid
  - NT2 intrinsic factor
  - NT2 vitamin b-12
- RT blood
- RT blood coagulation
- RT hemic diseases

**HEMATOLOGY**

- BT1 medicine
- RT hemic diseases

**HEMATOMAS**

INIS: 1995-09-18; ETDE: 1977-06-21

- RT blood coagulation
- RT hemorrhage
- RT injuries

**hematopoiesis**

- USE blood formation

**HEMATOPOIETIC SYSTEM**

- BT1 body
- NT1 bone marrow
- RT blood formation
- RT erythropoiesis

**hematoporphyrin (heme)**

- USE heme

**HEMATOPORPHYRINS**

- BT1 pigments
- \*BT1 porphyrins
- RT hemoglobin

**HEMATOXYLIN**

1996-06-28

- BT1 dyes
- \*BT1 polyphenols
- \*BT1 pyrans

**HEME**

- UF hematin
- UF hematoporphyrin (heme)
- UF hemin
- BT1 pigments
- \*BT1 porphyrins
- RT carboxyhemoglobin
- RT hemoglobin
- RT iron
- RT methemoglobin

**HEMIACETAL DEHYDROGENASES**

INIS: 2000-04-03; ETDE: 1981-01-12

Code number 1.1.

- \*BT1 oxidoreductases
- NT1 alcohol dehydrogenase
- NT1 lactate dehydrogenase

**HEMIC DISEASES**

- UF blood diseases
- BT1 diseases
- NT1 anemias
  - NT2 ischemia
  - NT2 megaloblastic anemia

NT2 sickle cell anemia

NT2 thalassemia

NT1 hemophilia

NT1 leukopenia

NT2 lymphopenia

NT1 polycythemia

NT1 purpura

RT blood

RT blood chemistry

RT hematologic agents

RT hematology

RT hemolysis

RT hemorrhage

RT malaria

RT splenomegaly

**HEMICELLULOSE**

INIS: 2000-04-12; ETDE: 1978-06-14

Group of complex carbohydrates, hexose and pentose sugars and sugar acids of uronic type, surrounding cellulose fibers of plant cells. No chemical relation to cellulose.

\*BT1 polysaccharides

NT1 xylans

RT biomass

RT cellulose

RT lignin

RT wood

**hemin**

- USE heme

**HEMIPTERA**

\*BT1 insects

NT1 aphids

**HEMLOCKS**

INIS: 2000-04-12; ETDE: 1988-02-02

Tsuga.

\*BT1 conifers

**HEMOCYANIN**

\*BT1 metalloproteins

RT blood

**HEMOGLOBIN**

\*BT1 globins

BT1 pigments

\*BT1 porphyrins

NT1 methemoglobin

RT anemias

RT carboxyhemoglobin

RT erythrocytes

RT hematoporphyrins

RT heme

RT hemosiderin

RT iron

RT protoporphyrins

RT respiration

**HEMOLYSINS**

1999-03-01

BT1 antibodies

RT complement

RT hemolysis

**HEMOLYSIS**

The alteration, dissolution, or destruction of red blood cells in such a manner that hemoglobin is liberated into the medium in which the cells are suspended.

\*BT1 decomposition

BT1 lysis

BT1 pathological changes

RT anemias

RT erythrocytes

RT hemic diseases

RT hemolysins

RT immunity

**HEMOPHILIA**

INIS: 1987-03-24; ETDE: 1987-11-24

- \*BT1 hemic diseases
- \*BT1 hereditary diseases
- RT blood coagulation
- RT hemorrhage

**hemophilus**

- USE haemophilus

**hemopoiesis**

- USE blood formation

**HEMORRHAGE**

- BT1 pathological changes
- BT1 symptoms
- RT anemias
- RT blood
- RT blood coagulation
- RT blood vessels
- RT hematomas
- RT hemic diseases
- RT hemophilia

**HEMOSIDERIN**

- \*BT1 metalloproteins
- BT1 pigments
- \*BT1 porphyrins
- RT blood
- RT ferritin
- RT hemoglobin
- RT iron

**hemostatics**

INIS: 2000-04-12; ETDE: 1981-04-20

See also BLOOD COAGULATION FACTORS and its narrower terms.

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE coagulants

**hens**

- USE chickens

**HEPARIN**

- \*BT1 anticoagulants
- \*BT1 mucopolysaccharides
- \*BT1 organic sulfur compounds
- RT mast cells

**heparin antagonists**

INIS: 2000-04-12; ETDE: 1981-04-20

(Prior to April 1994, this was a valid ETDE descriptor.)

- USE coagulants

**HEPATECTOMY**

- \*BT1 surgery
- RT digestive system diseases
- RT liver

**HEPATITIS**

- \*BT1 digestive system diseases
- NT1 infectious hepatitis
- RT jaundice
- RT liver

**hepatitis (infectious)**

- USE infectious hepatitis

**hepatocytes**

INIS: 1983-06-30; ETDE: 1982-07-08

- USE liver cells

**HEPATOMAS**

- \*BT1 carcinomas
- RT liver

**HEPTANE**

- \*BT1 alkanes

**HEPTANOIC ACID**

- UF enanthic acid

*UF* heptylic acid

\*BT1 monocarboxylic acids

## HEPTENES

\*BT1 alkenes

## HEPTYL RADICALS

\*BT1 alkyl radicals

### heptylic acid

USE heptanoic acid

## HERA STORAGE RING

*INIS: 1984-05-28; ETDE: 1984-06-14*

*Hadron-Elektron-Ring Anlage.*

BT1 storage rings

## HERALD REACTOR

*UK Ministry of Defence, Aldermaston, Reading, Berkshire, United Kingdom.*

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

## HERBICIDES

BT1 pesticides

NT1 atrazine

RT weeds

## HERBIG-HARO OBJECTS

*INIS: 2000-04-12; ETDE: 1989-04-19*

*Small faint patches of nebulosity seen on surfaces of many dark clouds believed to be a very early phase in stellar evolution.*

RT nebulae

RT star evolution

## HERBS

*1996-11-13*

*UF* coleus

BT1 plants

NT1 marihuana

NT1 meadow foam

## HEREDITARY DISEASES

*UF* xeroderma pigmentosum

BT1 diseases

NT1 downs syndrome

NT1 hemophilia

RT chromosomal aberrations

RT congenital diseases

RT genetics

RT mutants

RT mutations

RT sickle cell anemia

RT sister chromatid exchanges

### heredity

USE genetics

### hermex process

*1996-06-28*

(Until June 1996 this was a valid descriptor.)

USE reprocessing

## HERMITE POLYNOMIALS

\*BT1 polynomials

## HERMITIAN MATRIX

BT1 matrices

## HERMITIAN OPERATORS

BT1 mathematical operators

## HERO REACTOR

*UF* hot experimental reactor zero energy

\*BT1 carbon dioxide cooled reactors

\*BT1 enriched uranium reactors

\*BT1 graphite moderated reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 zero power reactors

## HEROIN

*1996-07-08*

*UF* diacetylmorphine

\*BT1 narcotics

RT codeine

RT morphine

## HERPES SIMPLEX

\*BT1 skin diseases

\*BT1 viral diseases

RT viruses

## HERPES ZOSTER

\*BT1 nervous system diseases

\*BT1 viral diseases

RT nerves

RT viruses

## HERTZSPRUNG-RUSSELL DIAGRAM

\*BT1 diagrams

RT star evolution

### hesperidin

*1996-06-28*

(Until June 1996 this was a valid descriptor.)

USE flavones

USE glycosides

## HETEROCHROMATIN

BT1 chromatin

RT chromosome breakage

## HETEROCHROMOSOMES

*UF* sex chromosomes

BT1 chromosomes

NT1 x chromosome

NT2 human x chromosome

NT1 y chromosome

NT2 human y chromosome

RT chromosomal aberrations

RT sex

## HETEROCYCLIC ACIDS

*1996-10-22*

*UF* biliverdin

*UF* diodrast

*UF* iodopyracet

*UF* kynurenic acid

*UF* urobilinogen

\*BT1 carboxylic acids

\*BT1 heterocyclic compounds

NT1 bilirubin

NT1 biotin

NT1 histidine

NT1 hydroxyproline

NT1 lysergic acid

NT1 nicotinic acid

NT1 orotic acid

NT1 picolinic acid

NT1 porphyrins

NT2 chlorins

NT2 chlorophyll

NT2 hematoporphyrins

NT2 heme

NT2 hemoglobin

NT3 methemoglobin

NT2 hemosiderin

NT2 myoglobin

NT2 protoporphyrins

NT1 proline

NT1 rhodamines

NT1 thioctic acid

NT1 tryptophan

NT1 urocanic acid

RT nicotinamide

## HETEROCYCLIC COMPOUNDS

*1996-10-23*

*UF* guanethidine

BT1 organic compounds

NT1 azaarenes

NT2 acridines

NT3 acridine orange

NT3 flavines

NT4 acriflavine

NT4 proflavine

NT2 carbazoles

NT2 indoles

NT3 indigo

NT3 indocyanine green

NT3 lysergic acid

NT3 reserpine

NT3 strychnine

NT3 tryptamines

NT4 melatonin

NT4 serotonin

NT5 bufotenine

NT3 tryptophan

NT3 vinblastine

NT2 phenanthrolines

NT3 ferroin

NT3 phenanthroline-ortho

NT2 pteridines

NT3 aminopterin

NT3 folic acid

NT2 purines

NT3 adenines

NT4 kinetin

NT3 guanine

NT3 guanosine

NT3 hypoxanthine

NT3 inosine

NT3 mercaptopurine

NT3 xanthines

NT4 caffeine

NT4 theobromine

NT4 theophylline

NT4 uric acid

NT2 quinolines

NT3 ferron

NT3 oxine

NT3 quinaldine

NT1 azines

NT2 phenothiazines

NT3 chlorpromazine

NT3 methylene blue

NT2 pyrazines

NT3 phenazine

NT3 piperazines

NT2 pyridazines

NT3 phthalazines

NT4 luminol

NT2 pyridines

NT3 acridines

NT4 acridine orange

NT4 flavines

NT5 acriflavine

NT5 proflavine

NT3 bipyridines

NT3 nicotinamide

NT3 nicotine

NT3 nicotinic acid

NT3 picolines

NT4 picolinic acid

NT3 piperidines

NT4 dipyridamole

NT4 pethidine

NT4 triacetoneamine-n-oxyl

NT3 pyridine

NT3 pyridinium compounds

NT3 pyridoxal

NT3 pyridoxine

NT3 pyridoxylideneglutamate

NT3 pyridylazonaphthol

NT3 pyridylazoresorcinol

NT3 quinolines

NT4 ferron

NT4 oxine

NT4 quinaldine

- NT2** pyrimidines  
**NT3** alloxan  
**NT3** barbiturates  
**NT4** nembutal  
**NT4** phenobarbital  
**NT3** cytidine  
**NT3** cytosine  
**NT3** deoxycytidine  
**NT3** thiamine  
**NT3** thymidine  
**NT4** fluorothymidine  
**NT3** uracils  
**NT4** bromouracils  
**NT5** budr  
**NT4** chlorouracils  
**NT4** deoxyuridine  
**NT4** fluorouracils  
**NT5** fudr  
**NT4** iodouracils  
**NT5** iododeoxyuridine  
**NT4** orotic acid  
**NT4** thiouracil  
**NT4** thymine  
**NT4** uridine  
**NT2** triazines  
**NT3** cyanurates  
**NT3** melamine  
**NT1** azoles  
**NT2** carbazoles  
**NT2** imidazoles  
**NT3** allantoin  
**NT3** benzimidazoles  
**NT3** biotin  
**NT3** creatinine  
**NT3** histamine  
**NT3** histidine  
**NT3** hydantoins  
**NT3** metronidazole  
**NT3** misonidazole  
**NT3** urocanic acid  
**NT2** oxadiazoles  
**NT2** oxazoles  
**NT3** benzoxazoles  
**NT3** popop  
**NT2** pyrazoles  
**NT3** indazoles  
**NT3** pyrazolines  
**NT4** antipyrine  
**NT2** pyrroles  
**NT3** bilirubin  
**NT3** indoles  
**NT4** indigo  
**NT4** indocyanine green  
**NT4** lysergic acid  
**NT4** reserpine  
**NT4** strychnine  
**NT4** tryptamines  
**NT5** melatonin  
**NT5** serotonin  
**NT6** bufotenine  
**NT4** tryptophan  
**NT4** vinblastine  
**NT3** pyrrolidines  
**NT4** hydroxyproline  
**NT4** nicotine  
**NT4** proline  
**NT3** pyrrolidones  
**NT4** pvp  
**NT2** tetrazoles  
**NT3** tetrazolium  
**NT2** thiadiazoles  
**NT2** thiazoles  
**NT3** benzothiazoles  
**NT3** saccharin  
**NT3** thiamine  
**NT2** triazoles  
**NT1** bedt-tf  
**NT1** dioxane  
**NT1** dioxin
- NT1** furans  
**NT2** benzofurans  
**NT2** furfural  
**NT2** tetrahydrofuran  
**NT3** mthf  
**NT1** heterocyclic acids  
**NT2** bilirubin  
**NT2** biotin  
**NT2** histidine  
**NT2** hydroxyproline  
**NT2** lysergic acid  
**NT2** nicotinic acid  
**NT2** orotic acid  
**NT2** picolinic acid  
**NT2** porphyrins  
**NT3** chlorins  
**NT3** chlorophyll  
**NT3** hematoporphyrins  
**NT3** heme  
**NT3** hemoglobin  
**NT4** methemoglobin  
**NT3** hemosiderin  
**NT3** myoglobin  
**NT3** protoporphyrins  
**NT2** proline  
**NT2** rhodamines  
**NT2** thioctic acid  
**NT2** tryptophan  
**NT2** urocanic acid  
**NT1** heterocyclic oxygen compounds  
**NT2** pyrans  
**NT3** coumarin  
**NT3** hematoxylin  
**NT3** pyrones  
**NT3** quercetin  
**NT3** tetrahydropyran  
**NT1** imipramine  
**NT1** isoalloxazines  
**NT2** diaphorase  
**NT1** lactones  
**NT2** coumarin  
**NT2** gibberellic acid  
**NT1** morpholines  
**NT1** phthalocyanines  
**NT1** polycyclic sulfur heterocycles  
**NT1** psoralen  
**NT1** tetrathiafulvalene  
**NT1** thionaphthenes  
**NT1** thionine  
**NT1** thiophene  
**NT1** tmtsf  
**NT1** trioxanes  
**NT1** tta  
**NT1** ttf-tcnq  
**RT** cyanine dyes  
**RT** epoxides  
**RT** lactams  
**RT** squarylium dyes
- HETEROCYCLIC OXYGEN COMPOUNDS**  
*INIS: 1984-04-04; ETDE: 1978-08-08*  
**UF** oxetane  
**UF** polytetraoxane  
**\*BT1** heterocyclic compounds  
**\*BT1** organic oxygen compounds  
**NT1** pyrans  
**NT2** coumarin  
**NT2** hematoxylin  
**NT2** pyrones  
**NT2** quercetin  
**NT2** tetrahydropyran  
**RT** furans
- HETERODYNE RECEIVERS**  
*1976-02-11*  
**UF** superheterodyne receivers  
**\*BT1** microwave equipment  
**\*BT1** radio equipment  
**RT** frequency converters

**RT** radiometers

## HETEROGENEOUS CATALYSIS

*INIS: 1992-02-22; ETDE: 1984-07-20*  
 Catalysis occurring at a phase boundary, usually a solid-fluid interface.

**BT1** catalysis

## HETEROGENEOUS EFFECTS

*Effects of dissimilar constituents on neutron diffusion in shielding or reactor cores.*

**RT** absorption  
**RT** homogenization methods  
**RT** neutron flux  
**RT** reactor kinetics  
**RT** reservoir rock  
**RT** shielding

## HETEROGENEOUS REACTOR CORES

*INIS: 1981-05-11; ETDE: 1981-06-13*  
 Reactor cores using various types of fuel simultaneously.

**\*BT1** reactor cores  
**RT** fbr type reactors

## HETEROJUNCTIONS

*INIS: 1982-08-27; ETDE: 1981-07-18*  
 (Prior to July 1981, this concept in ETDE was indexed to SEMICONDUCTOR JUNCTIONS.)

**BT1** semiconductor junctions  
**RT** homojunctions  
**RT** quantum wells

## heteropoly acids

*INIS: 2000-04-12; ETDE: 1979-08-08*  
 Complex acids of metals, whose specific gravity is >4, with phosphoric acid. See also MOLYBDOPHOSPHORIC ACID and TUNGSTOPHOSPHORIC ACID.  
 (Prior to March 1997 this was a valid ETDE descriptor.)

**USE** inorganic acids

## HETEROPOLYANIONS

**\*BT1** anions  
**BT1** complexes  
**RT** molybdophosphoric acid  
**RT** tungstophosphoric acid

## heterozygotes

**USE** hybridization

## HEULANDITE

*INIS: 2000-04-12; ETDE: 1976-01-23*  
 A zeolite mineral.

**\*BT1** zeolites

## HEUSLER ALLOYS

**\*BT1** aluminium alloys  
**\*BT1** copper base alloys  
**\*BT1** corrosion resistant alloys  
**\*BT1** manganese alloys  
**RT** brass  
**RT** bronze

## HEVEA

**\*BT1** rubber trees

## HEW-305 REACTOR

*2000-04-12*  
 US AEC, Richland, Washington, USA.

**UF** hanford 305 test reactor  
**\*BT1** graphite moderated reactors  
**\*BT1** natural uranium reactors  
**\*BT1** research reactors  
**\*BT1** test reactors  
**\*BT1** thermal reactors

## hewlett-packard computers

**USE** hp computers

**HEXADECANE**

\*BT1 alkanes

**HEXADECANOIC ACID**UF *palmitic acid*

\*BT1 monocarboxylic acids

**HEXADECAPLES**

1977-11-02

BT1 multipoles

**hexagonal close packed**

USE hcp lattices

**HEXAGONAL CONFIGURATION**

BT1 configuration

**HEXAGONAL LATTICES**

\*BT1 three-dimensional lattices

NT1 hcp lattices

**HEXAGONAL SYSTEMS**

2015-06-22

\*BT1 two-dimensional systems

RT silicene

**hexahydropyridines**

USE piperidines

**hexamethylenediaminetetraacetic acid**

1996-10-23

(Prior to March 1997 HMDTA was used for this concept in ETDE.)

USE amino acids

USE chelating agents

**hexamethylenetetramine**

USE urotropin

**HEXANE**

\*BT1 alkanes

RT cyclohexane

**HEXANOIC ACID**UF *caproic acid*

\*BT1 monocarboxylic acids

**HEXANOLS**UF *hexyl alcohols*

\*BT1 alcohols

**HEXAPOLAR CONFIGURATIONS**

\*BT1 multipolar configurations

**HEXAPOLES**

BT1 multipoles

**HEXENES**

\*BT1 alkenes

**HEXOKINASE**

\*BT1 phosphotransferases

**HEXOSAMINES**

\*BT1 amines

\*BT1 hexoses

NT1 glucosamine

**HEXOSES**UF *cycasin*UF *fructose*

\*BT1 monosaccharides

NT1 fructose

NT1 galactose

NT1 glucose

NT1 hexosamines

NT2 glucosamine

NT1 mannose

NT1 sorbose

**HEXOSYL TRANSFERASES**

INIS: 2000-04-12; ETDE: 1981-06-13

Code number 2.4.1.

\*BT1 glycosyl transferases

**hexyl alcohols**

USE hexanols

**HEXYL RADICALS**

\*BT1 alkyl radicals

**HEYSHAM-A REACTOR***Heysham, Lancashire, United Kingdom.*

\*BT1 agr type reactors

\*BT1 carbon dioxide cooled reactors

\*BT1 power reactors

\*BT1 thermal reactors

**HEYSHAM-B REACTOR***Heysham, Lancashire, United Kingdom.*

\*BT1 agr type reactors

\*BT1 carbon dioxide cooled reactors

\*BT1 power reactors

\*BT1 thermal reactors

**hf radiation**

USE short wave radiation

**HFBR REACTOR***Association of Universities Inc., Upton, New York, USA.*UF *brookhaven high flux beam reactor*

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

RT tristan separator

**HFETR REACTOR**

INIS: 1986-04-03; ETDE: 1986-06-12

UF *high flux engineering test reactor*

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**HFIR REACTOR***ORNL, Oak Ridge, Tennessee, USA.*UF *high flux isotope reactor*

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**HFR REACTOR***Commission of the European Communities, Joint Research Centre, Petten, Netherlands.*UF *high flux reactor petten*UF *high-flux reactor petten*UF *petten high flux reactor*

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**hfs**

USE hyperfine structure

**HGI2 SEMICONDUCTOR****DETECTORS**

INIS: 1975-12-09; ETDE: 1976-01-26

*Mercury iodide semiconductor detectors.*UF *mercuric iodide detectors*

\*BT1 semiconductor detectors

**hhirf**

INIS: 2000-04-12; ETDE: 1977-07-23

(Prior to July 1985, this was a valid ETDE descriptor.)

USE hhirf accelerator

**HHIRF ACCELERATOR**

INIS: 1978-08-14; ETDE: 1978-10-20

UF *hhirf*UF *holifield heavy ion research facility*

\*BT1 heavy ion accelerators

RT heavy ions

RT ornl isochronous cyclotron

**HIBERNATION**UF *aestivation*

RT hypothermia

RT sleep

**hichlor process**

INIS: 2000-04-12; ETDE: 1981-03-17

*High temperature chlorination of fly ash in the presence of a reductant for the extraction of aluminium, titanium, and iron.*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE waste processing

**HIDDEN VARIABLES**

1985-11-18

(Prior to December 1985

NONMEASURABLE VARIABLES was used for this concept.)

UF *non-measurable variables*UF *nonmeasurable variables*

RT bell theorem

RT quantum mechanics

RT wave functions

**HIFAR REACTOR***Australian Atomic Energy Commission, Nuclear Science and Technology Branch, Lucas Heights, Australia. Ppermanent shutdown since 2007.*

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 materials testing reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

**HIGASHIDORI-1 REACTOR**

2008-07-24

*Tohoku Electric Power Co., Higashidori, Aomori, Japan*

\*BT1 bwr type reactors

**HIGGS BOSONS**

INIS: 1976-07-16; ETDE: 1976-11-01

BT1 bosons

BT1 elementary particles

RT higgsinos

RT symmetry breaking

**HIGGS MODEL**

INIS: 1977-01-26; ETDE: 1976-04-19

*A gauge invariant model describing massive vector bosons, in which the scalar fields form an octet under su-3.*

\*BT1 particle models

RT instantons



RT quantum field theory  
 RT su-3 groups  
 RT vector mesons

**HIGGSINOS**

2013-08-26

\*BT1 sparticles  
 RT higgs bosons  
 RT neutralinos

**high acceptance spectrometer**

2017-11-01

USE hades detector

**HIGH ALLOY STEELS**

INIS: 1983-11-09; ETDE: 1988-12-06

\*BT1 steels

NT1 stainless steels  
 NT2 chromium-nickel steels  
 NT3 alloy-d-9  
 NT3 carpenter  
 NT3 chromium-nickel-molybdenum steels  
 NT4 alloy-m-813  
 NT4 steel-cr11ni10mo2ti-1  
 NT4 steel-cr15ni15motib  
 NT4 steel-cr16ni13monbv  
 NT4 steel-cr16ni15mo3nb  
 NT4 steel-cr16ni16monb  
 NT4 steel-cr16ni8mo2  
 NT5 stainless steel-16-8-2  
 NT4 steel-cr16ni9mo2  
 NT4 steel-cr17ni12mo3  
 NT5 stainless steel-316  
 NT4 steel-cr17ni12mo3-1  
 NT5 stainless steel-316l  
 NT5 stainless steel-zcnd17-13  
 NT4 steel-cr17ni12monb  
 NT4 steel-cr17ni13mo2ti  
 NT4 steel-cr17ni13mo3ti  
 NT4 steel-ni26cr15ti2moyalb  
 NT5 alloy-a-286  
 NT3 durco  
 NT3 enduro  
 NT3 stainless steel-17-7ph  
 NT3 stainless steel-303  
 NT3 stainless steel-329  
 NT3 stainless steel-ph-15-7-mo  
 NT3 steel-cr17ni13  
 NT3 steel-cr17ni7  
 NT4 stainless steel-301  
 NT3 steel-cr18ni10  
 NT4 stainless steel-18-10  
 NT3 steel-cr18ni10-1  
 NT3 steel-cr18ni10ti  
 NT4 stainless steel-321  
 NT3 steel-cr18ni11  
 NT4 steel-x6crni1811  
 NT3 steel-cr18ni11nb  
 NT4 stainless steel-347  
 NT3 steel-cr18ni11nbco  
 NT4 stainless steel-348  
 NT3 steel-cr18ni12  
 NT4 stainless steel-305  
 NT3 steel-cr18ni12ti  
 NT3 steel-cr18ni8  
 NT4 stainless steel-18-8  
 NT3 steel-cr18ni9  
 NT4 stainless steel-302  
 NT3 steel-cr18ni9ti  
 NT3 steel-cr19ni10  
 NT4 stainless steel-304  
 NT3 steel-cr19ni10-1  
 NT4 stainless steel-304l  
 NT3 steel-cr20ni11  
 NT4 stainless steel-308  
 NT3 steel-cr20ni11-1  
 NT4 stainless steel-308l  
 NT3 steel-cr23ni14  
 NT4 stainless steel-309

NT4 stainless steel-309s  
 NT3 steel-cr23ni18  
 NT3 steel-cr25ni20  
 NT4 alloy-hk-40  
 NT4 stainless steel-310  
 NT3 steel-ni25cr20  
 NT4 stainless steel-20-25  
 NT3 steel-ni36cr12ti3al-1  
 NT3 timken alloys  
 NT2 chromium steels  
 NT3 chromium-molybdenum steels  
 NT4 chromium-nickel-molybdenum steels  
 NT5 alloy-m-813  
 NT5 steel-cr11ni10mo2ti-1  
 NT5 steel-cr15ni15motib  
 NT5 steel-cr16ni13monbv  
 NT5 steel-cr16ni15mo3nb  
 NT5 steel-cr16ni16monb  
 NT5 steel-cr16ni8mo2  
 NT6 stainless steel-16-8-2  
 NT5 steel-cr16ni9mo2  
 NT5 steel-cr17ni12mo3  
 NT6 stainless steel-316  
 NT5 steel-cr17ni12mo3-1  
 NT6 stainless steel-316l  
 NT6 stainless steel-zcnd17-13  
 NT5 steel-cr17ni12monb  
 NT5 steel-cr17ni13mo2ti  
 NT5 steel-cr17ni13mo3ti  
 NT5 steel-ni26cr15ti2moyalb  
 NT6 alloy-a-286  
 NT3 magnet steel-ks  
 NT3 miduale  
 NT3 stainless steel-406  
 NT3 steel-cr10mo2  
 NT3 steel-cr12  
 NT4 stainless steel-403  
 NT3 steel-cr12moniv  
 NT3 steel-cr12mov  
 NT4 alloy-ht-9  
 NT3 steel-cr13  
 NT4 stainless steel-410  
 NT3 steel-cr13al  
 NT4 stainless steel-405  
 NT3 steel-cr16  
 NT4 stainless steel-430  
 NT3 steel-cr16ni  
 NT3 steel-cr17cu4ni4nb-1  
 NT4 stainless steel-17-4ph  
 NT3 steel-cr17mo  
 NT4 stainless steel-440  
 NT3 steel-cr17ni4mo3  
 NT3 steel-cr18  
 NT3 steel-cr25  
 NT4 stainless steel-446  
 NT3 steel-cr9mo  
 NT3 steel-cr9monbv  
 NT2 low carbon-high alloy steels  
 NT3 steel-cr11ni10mo2ti-1  
 NT3 steel-cr17cu4ni4nb-1  
 NT4 stainless steel-17-4ph  
 NT3 steel-cr17ni12mo3-1  
 NT4 stainless steel-316l  
 NT4 stainless steel-zcnd17-13  
 NT3 steel-cr18ni10-1  
 NT3 steel-cr19ni10-1  
 NT4 stainless steel-304l  
 NT3 steel-cr20ni11-1  
 NT4 stainless steel-308l  
 NT3 steel-ni36cr12ti3al-1  
 NT2 stainless steel-317  
 NT2 stainless steel-318  
 NT2 stainless steel-422  
 NT2 stainless steel-fv-548  
 NT2 stainless steel-jbk-75  
 NT2 stainless steel m-50  
 NT2 steel-cr21mn9ni6  
 NT3 stainless steel-21-6-9

NT2 sweetalloy

**high altitude (stratosphere)**

USE stratosphere

**HIGH-BETA PLASMA**

Plasma with Beta ratio of from 0.1 to 1.0.

BT1 plasma  
 RT beta ratio

**HIGH BTU GAS**

2000-04-12

Over 900 btu per cubic foot.

UF pipeline quality gas  
 UF sng  
 UF synthetic natural gas  
 \*BT1 fuel gas  
 RT crg processes  
 RT cs-r process  
 RT hygas process  
 RT kellogg process  
 RT sng plants  
 RT sng processes

**HIGH-CHARGE-STATE ION SOURCES**

2018-02-26

BT1 ion sources

**HIGH-CURRENT ION SOURCES**

2018-02-26

BT1 ion sources

**high energy accelerator research organization**

2016-07-11

USE kek

**HIGH-ENERGY LIMIT**

2017-05-11

RT asymptotic solutions  
 RT black holes  
 RT cosmology  
 RT energy  
 RT fundamental interactions  
 RT low-energy limit  
 RT scattering  
 RT unified field theories

**HIGH ENERGY PHYSICS**

Use only for articles of a very broad nature such as an annual research program, etc.

BT1 physics  
 RT neutron physics  
 RT nuclear physics  
 RT vortex theory

**high energy radiotherapy**

USE radiotherapy

**high explosives**

USE chemical explosives

**high flux engineering test reactor**

INIS: 1993-11-08; ETDE: 2002-06-13

USE hfetr reactor

**high flux isotope reactor**

USE hfr reactor

**high flux reactor petten**

USE hfr reactor

**high-flux reactor petten**

INIS: 1984-07-20; ETDE: 2002-06-13

USE hfr reactor

**HIGH FREQUENCY AMPLIFIERS**

\*BT1 amplifiers

**HIGH-FREQUENCY DISCHARGES**

UF microwave discharges  
 BT1 electric discharges

RT high-frequency heating  
RT plasma production

**HIGH-FREQUENCY HEATING**

UF drift pumping  
\*BT1 plasma heating  
NT1 ecr heating  
NT1 icr heating  
NT1 lower hybrid heating  
NT1 magnetic-pumping heating  
NT2 acoustic heating  
NT2 collisional heating  
NT2 transit-time magnetic pumping  
RT high-frequency discharges

**high frequency radiation**

USE short wave radiation

**high-frequency radiation**

INIS: 1984-07-20; ETDE: 2002-06-13  
USE short wave radiation

**HIGH-HEAD HYDROELECTRIC POWER PLANTS**

INIS: 1997-10-03; ETDE: 1978-08-08  
Heads greater than 150 meters.  
\*BT1 hydroelectric power plants

**HIGH INCOME GROUPS**

INIS: 2000-04-12; ETDE: 1978-10-23  
\*BT1 minority groups  
RT income  
RT income distribution  
RT low income groups  
RT socio-economic factors

**HIGH-LEVEL RADIOACTIVE WASTES**

INIS: 1978-05-19; ETDE: 1978-01-23  
Wastes containing more than 100 microcuries/milliliter of radioactivity.  
\*BT1 radioactive wastes  
RT ceramic melters  
RT gorleben salt dome  
RT intermediate-level radioactive wastes  
RT low-level radioactive wastes  
RT monitored retrievable storage  
RT nuclear waste policy acts  
RT pamela plant  
RT us mrs project  
RT wipp

**high performance demonstration experiment**

INIS: 2000-04-12; ETDE: 1980-02-11  
USE mhd generator aecd

**HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY**

2004-07-16  
UF high-pressure liquid chromatography  
UF hplc  
\*BT1 liquid column chromatography

**high pressure**

(Prior to November 2003 this was a valid descriptor.)  
USE pressure range mega pa 10-100

**high-pressure areas**

2013-12-13  
USE anticyclones

**HIGH PRESSURE COOLANT INJECTION**

1979-01-18  
UF hpci  
\*BT1 eccs  
RT reactor safety

**high-pressure liquid chromatography**

2004-07-16  
USE high-performance liquid chromatography

**HIGH-PURITY GE DETECTORS**

INIS: 1975-12-09; ETDE: 1976-01-26  
UF ge detectors (high-purity)  
\*BT1 ge semiconductor detectors

**HIGH-RISE BUILDINGS**

2005-06-01  
Buildings at least 35 meters (12 stories) in height.  
UF multistory buildings  
UF skyscrapers  
BT1 buildings  
RT canyons  
RT wind loads

**HIGH ROOMS**

2006-05-26  
Large, open spaces (usually more than 7m high) found in such structures as churches, concert halls, and industrial factories.  
SF halls  
RT atria  
RT buildings  
RT domed structures

**HIGH SEAS**

INIS: 1976-12-08; ETDE: 1994-08-10  
RT fishery laws  
RT maritime laws  
RT seas  
RT territorial waters

**HIGH SPIN STATES**

BT1 energy levels  
RT backbending  
RT spin

**HIGH-SULFUR COAL**

2014-03-28  
Coal generally containing more than 1% S by weight.  
\*BT1 coal  
RT sulfur content

**high-sulfur crude oil**

INIS: 1993-03-23; ETDE: 1993-04-16  
USE sour crudes

**HIGH-TC SUPERCONDUCTORS**

INIS: 1990-08-24; ETDE: 1990-03-02  
Superconductors having critical temperature greater than 30 degrees Kelvin.  
\*BT1 type-ii superconductors  
RT chalcogenides  
RT hubbard model  
RT kosterlitz-thouless theory  
RT superconductivity

**high temperature**

1992-02-04  
(Prior to February 1992, this was a valid ETDE descriptor.)  
USE temperature range 0400-1000 k

**HIGH-TEMPERATURE FUEL CELLS**

1992-02-21  
\*BT1 fuel cells  
NT1 molten carbonate fuel cells  
NT1 solid oxide fuel cells

**high temperature gas cooled and graphite moderated reactors**

1993-11-08  
USE htgr type reactors

**high temperature lattice test reactor**

1993-11-08  
USE hltr reactor

**high temperature test reactor**

INIS: 1988-10-10; ETDE: 2002-06-13  
USE httr reactor

**high-temperature winkler process**

INIS: 2000-04-12; ETDE: 1982-10-05  
USE htwp process

**high vacuum**

(Prior to November 2003 this was a valid descriptor.)  
SEE pressure range micro pa  
SEE pressure range milli pa

**high voltage alternating current systems**

INIS: 1996-01-30; ETDE: 1976-05-17  
USE hvac systems

**high voltage direct current systems**

2000-04-12  
USE hvdc systems

**HIGH-VOLTAGE PULSE GENERATORS**

\*BT1 pulse generators  
NT1 marx generators

**highland uranium mill**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE feed materials plants

**HIGHLY ENRICHED URANIUM**

80 - 100 per cent.  
\*BT1 enriched uranium

**highways**

1992-03-05  
USE roads

**HILACS**

UF heavy ion linear accelerators  
\*BT1 heavy ion accelerators  
\*BT1 linear accelerators  
NT1 atlas superconducting linac  
NT1 superhilac  
RT heavy ion reactions  
RT heavy ions

**HILBERT SPACE**

\*BT1 banach space

**HILBERT TRANSFORMATION**

\*BT1 integral transformations

**HILL EQUATION**

\*BT1 differential equations

**HILL-WHEELER THEORY**

RT collective model  
RT nuclear models

**HIMAC ACCELERATOR**

1993-10-03  
Heavy Ion Medical Accelerator, Chiba, Japan.  
\*BT1 heavy ion accelerators  
\*BT1 synchrotrons

**HIMALAYAS**

1977-11-02  
BT1 mountains

**HINKLEY POINT-A REACTOR**

Hinkley Point, Somerset, United Kingdom.  
Permanently shut down since 2000.  
\*BT1 carbon dioxide cooled reactors  
\*BT1 magnox type reactors

\*BT1 thermal reactors

## HINKLEY POINT-B REACTOR

*Hinkley Point, Somerset, United Kingdom.*

\*BT1 agr type reactors  
\*BT1 carbon dioxide cooled reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

## HIPERCO

2000-04-12

\*BT1 cobalt alloys  
\*BT1 iron base alloys

## HIPPOCAMPUS

1982-02-09

\*BT1 brain  
RT receptors

## HIPPURAN

UF iodohippurate  
UF iodohippurate-na  
UF n-o-iodobenzoylaminoacetate  
UF orthiodohippurate  
UF sodium iodohippurate  
UF sodium n-o-iodobenzoylaminoacetate  
UF sodium orthiodohippurate  
BT1 contrast media  
RT hippuric acid

## HIPPURIC ACID

UF benzoylaminoacetic acid  
UF benzoylglycine  
UF benzoylglycocoll  
\*BT1 amino acids  
RT glycine  
RT hippuran

## hipure process

2000-04-12

*Process for gas purification if hydrogen sulfide must be removed to one ppm or less and carbon dioxide to only a few ppm.*

USE desulfurization

## hirfl

INIS: 2000-04-12; ETDE: 1983-03-24

*(Prior to July 1985, this was a valid ETDE descriptor.)*

USE hirfl cyclotron

## HIRFL CYCLOTRON

INIS: 1983-06-01; ETDE: 1983-07-07

*Heavy Ion Research Facility, Lanzhou, China.*

UF heavy ion research facility lanzhou cyclotron  
UF hirfl

UF lanzhou cyclotron

\*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons

## hirohax process

INIS: 2000-04-12; ETDE: 1979-01-30

*Wet oxidation of adsorbed sulfur compounds to sulfuric acid and ammonium sulfate.*

*(Prior to January 1995, this was a valid ETDE descriptor.)*

USE desulfurization

## HIROSHIMA

\*BT1 japan  
RT a-bomb survivors  
RT little boy  
RT nuclear explosions  
RT nuclear weapons

## HISPANIC AMERICANS

INIS: 2000-04-12; ETDE: 1982-01-21

UF american hispanics  
\*BT1 minority groups  
RT sociology

## HISPANIOLA

INIS: 1992-06-04; ETDE: 1980-02-11

\*BT1 greater antilles  
NT1 dominican republic  
NT1 haiti

## histaminase

1997-01-28

*(Until October 1996 this was a valid descriptor.)*

USE amine oxidases

## HISTAMINE

\*BT1 amines  
\*BT1 imidazoles  
RT allergy  
RT antihistaminics  
RT capillaries

## HISTIDINE

\*BT1 amino acids  
\*BT1 heterocyclic acids  
\*BT1 imidazoles

## HISTOCOMPATIBILITY COMPLEX

INIS: 2000-04-12; ETDE: 1988-04-15

BT1 antigens  
RT graft-host reaction  
RT immune system diseases  
RT immunosuppression  
RT lymphocytes

## HISTOLOGICAL TECHNIQUES

INIS: 1975-10-29; ETDE: 1975-12-16

RT animal tissues  
RT histology  
RT microscopy  
RT stains

## HISTOLOGY

RT animal tissues  
RT histological techniques  
RT microscopy

## HISTONES

\*BT1 proteins  
RT nucleoproteins  
RT nucleosomes

## HISTORICAL ASPECTS

INIS: 1983-06-02; ETDE: 1983-07-07

*For documents concerning the history of scientific and technical activities.*

RT archaeology  
RT cultural objects  
RT research programs  
RT sociology

## HITACHI COMPUTERS

INIS: 1992-08-18; ETDE: 1986-02-04

BT1 computers

## hitachi training reactor

USE htr reactor

## hitachi zosen process

INIS: 2000-04-12; ETDE: 1983-06-20

*A denitrification process in which ammonia is added to flue gas to selectively reduce nitrogen oxides to nitrogen in a catalytic reactor.*

*(Prior to January 1995, this was a valid ETDE descriptor.)*

SEE air pollution control  
SEE denitrification

## HITREX-1 REACTOR

INIS: 1977-02-08; ETDE: 1977-04-13

\*BT1 graphite moderated reactors  
\*BT1 thermal reactors  
\*BT1 zero power reactors

## hitrex-2 reactor

INIS: 2000-04-12; ETDE: 1984-08-20

*(Prior to June 1991, this was a valid ETDE descriptor.)*

USE zero power reactors

## hiv

2004-05-28

USE aids virus

## hk 40

INIS: 2000-04-12; ETDE: 1979-08-09

USE steel-cr25ni20

## HL-1 TOKAMAK

INIS: 1989-12-08; ETDE: 1990-01-03

*Southwestern Institute of Physics, Leshan, Sichuan, China.*

\*BT1 tokamak devices

## HL-1M TOKAMAK

1998-09-24

*Southwestern Institute of Physics, Leshan, Sichuan, China.*

\*BT1 tokamak devices

## HL-2 TOKAMAK

1997-03-07

*Southwestern Institute of Physics, Leshan, Sichuan, China.*

\*BT1 tokamak devices

## HL-2A TOKAMAK

2003-01-17

*Southwestern Institute of Physics, Leshan, Sichuan, China.*

\*BT1 tokamak devices

## hmdta

1996-10-23

*Hexamethylenediaminetetraacetic acid.*

*(Until October 1996 this was a valid descriptor.)*

USE amino acids

USE chelating agents

## HNPf REACTOR

*US AEC, Hallam, Nebraska, USA.*

*Decommissioned in 1964.*

UF hallam nuclear power facility

\*BT1 enriched uranium reactors  
\*BT1 graphite moderated reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors  
\*BT1 thermal reactors

## ho2

INIS: 1985-01-18; ETDE: 1982-11-08

USE hydroperoxy radicals

## HODGKINS DISEASE

UF lymphogranuloma malignum

UF lymphogranulomatosis

\*BT1 lymphomas

## HODOSCOPES

RT counting techniques

RT telescope counters

## hoelter process

INIS: 2000-04-12; ETDE: 1977-03-04

*Reaction of flue gas sulfur dioxide, dissolved in scrub water, with milk of lime in the presence of chloride ion to prevent the precipitation of carbonate and promote the precipitation of calcium sulfite which is oxidized to calcium sulfate.*

*(Prior to March 1994, this was a valid ETDE descriptor.)*

USE desulfurization

**hoffman process**

INIS: 2000-04-12; ETDE: 1981-04-17

Gasification process using entrained mixture of coal and alkali in superheated steam in ebullated catalyist bed.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**hog fuel**

INIS: 2000-04-12; ETDE: 1979-04-11

USE wood wastes

**hoger onderwijs reactor**

USE hor reactor

**hoisting**

INIS: 2000-04-12; ETDE: 1978-05-03

(Prior to March 1997 this was a valid ETDE descriptor.)

USE materials handling

**HOISTS**

1999-07-12

(Until July 1999 this information was indexed by CRANES.)

\*BT1 materials handling equipment

RT cranes

RT grabs

RT materials handling

RT winches

**HOKURIKU-1 REACTOR**

2000-04-12

\*BT1 power reactors

**HOLE MOBILITY**

BT1 mobility

**HOLES**

Absence of electrons from otherwise filled electron bands; see also BLACK HOLES, CAVITIES, OPENINGS, BOREHOLES, and VOIDS.

UF electron holes

RT charge carriers

RT electron-hole coupling

RT electron-hole droplets

RT point defects

RT quasi particles

RT trapping

RT traps

**holifield heavy ion research facility**

INIS: 1978-08-14; ETDE: 1977-07-23

USE hhirf accelerator

**HOLLANDITE**

INIS: 1981-09-18; ETDE: 1981-06-13

\*BT1 oxide minerals

RT aluminium oxides

RT barium oxides

RT synroc process

RT titanium oxides

**HOLLOW ANODES**

2004-12-20

\*BT1 anodes

**HOLLOW CATHODES**

\*BT1 cathodes

**HOLLOW FUEL RODS**

\*BT1 fuel rods

**holly event**

INIS: 1994-10-14; ETDE: 1976-03-12

A test made during PROJECT HARDTACK. (Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE surface explosions

**HOLMES-STRETFORD PROCESS**

2000-04-12

Process for removal of sulfur compounds from fuel gas manufactured from coal.

\*BT1 desulfurization

**HOLMIUM**

\*BT1 rare earths

**HOLMIUM 140**

2007-02-14

\*BT1 holmium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

**HOLMIUM 141**

INIS: 2001-03-15; ETDE: 2001-02-12

\*BT1 holmium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

**HOLMIUM 142**

2007-02-14

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

**HOLMIUM 143**

2004-12-15

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

**HOLMIUM 144**

INIS: 1987-02-25; ETDE: 1987-05-01

\*BT1 holmium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

**HOLMIUM 145**

INIS: 1988-04-15; ETDE: 1988-05-23

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**HOLMIUM 146**

1981-09-17

\*BT1 beta-plus decay radioisotopes

\*BT1 holmium isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**HOLMIUM 147**

1982-06-09

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

**HOLMIUM 148**

INIS: 1979-09-18; ETDE: 1979-04-11

\*BT1 beta-plus decay radioisotopes

\*BT1 holmium isotopes

\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**HOLMIUM 149**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**HOLMIUM 150**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**HOLMIUM 151**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**HOLMIUM 152**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**HOLMIUM 153**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

**HOLMIUM 154**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

**HOLMIUM 155**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

**HOLMIUM 156**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

**HOLMIUM 157**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

**HOLMIUM 158**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 159**

\*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 160**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 161**

\*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 162**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 163**

\*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 years living radioisotopes

**HOLMIUM 164**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 165**

\*BT1 holmium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**HOLMIUM 165 REACTIONS**

*INIS: 1983-09-05; ETDE: 1982-07-08*  
 \*BT1 heavy ion reactions

**HOLMIUM 165 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**HOLMIUM 166**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 years living radioisotopes

**HOLMIUM 167**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 168**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 169**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 170**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 171**

*INIS: 1988-03-08; ETDE: 1988-04-07*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 172**

*INIS: 1990-12-05; ETDE: 1991-01-14*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 173**

*2007-02-14*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 174**

*2007-02-14*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 175**

*2007-02-14*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM ADDITIONS**

*Alloys containing not more than 1% Ho are listed here.*  
 \*BT1 holmium alloys  
 \*BT1 rare earth additions

**HOLMIUM ALLOYS**

*Alloys containing more than 1% Ho.*  
 \*BT1 rare earth alloys  
 NT1 holmium additions  
 NT1 holmium base alloys

**HOLMIUM BASE ALLOYS**

\*BT1 holmium alloys

**HOLMIUM BORIDES**

\*BT1 borides  
 \*BT1 holmium compounds

**HOLMIUM BROMIDES**

\*BT1 bromides  
 \*BT1 holmium halides

**HOLMIUM CARBIDES**

\*BT1 carbides  
 \*BT1 holmium compounds

**HOLMIUM CARBONATES**

*INIS: 2000-04-12; ETDE: 1989-05-11*  
 \*BT1 carbonates  
 \*BT1 holmium compounds

**HOLMIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 holmium halides

**HOLMIUM COMPLEXES**

\*BT1 rare earth complexes

**HOLMIUM COMPOUNDS**

*1997-06-17*  
 BT1 rare earth compounds  
 NT1 holmium borides  
 NT1 holmium carbides  
 NT1 holmium carbonates  
 NT1 holmium halides  
 NT2 holmium bromides  
 NT2 holmium chlorides  
 NT2 holmium fluorides  
 NT2 holmium iodides  
 NT1 holmium hydrides  
 NT1 holmium hydroxides  
 NT1 holmium nitrates  
 NT1 holmium nitrides  
 NT1 holmium oxides  
 NT1 holmium perchlorates  
 NT1 holmium phosphates  
 NT1 holmium phosphides  
 NT1 holmium selenides  
 NT1 holmium silicates  
 NT1 holmium silicides  
 NT1 holmium sulfates  
 NT1 holmium sulfides  
 NT1 holmium tellurides

**HOLMIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 holmium halides

**HOLMIUM HALIDES**

*2012-07-19*  
 \*BT1 halides  
 \*BT1 holmium compounds  
 NT1 holmium bromides  
 NT1 holmium chlorides  
 NT1 holmium fluorides  
 NT1 holmium iodides

**HOLMIUM HYDRIDES**

\*BT1 holmium compounds  
 \*BT1 hydrides

**HOLMIUM HYDROXIDES**

\*BT1 holmium compounds  
 \*BT1 hydroxides

**HOLMIUM IODIDES**

\*BT1 holmium halides  
 \*BT1 iodides

**HOLMIUM IONS**

\*BT1 ions

**HOLMIUM ISOTOPES**

BT1 isotopes  
 NT1 holmium 140  
 NT1 holmium 141  
 NT1 holmium 142  
 NT1 holmium 143  
 NT1 holmium 144  
 NT1 holmium 145  
 NT1 holmium 146  
 NT1 holmium 147  
 NT1 holmium 148  
 NT1 holmium 149  
 NT1 holmium 150  
 NT1 holmium 151  
 NT1 holmium 152  
 NT1 holmium 153  
 NT1 holmium 154  
 NT1 holmium 155  
 NT1 holmium 156  
 NT1 holmium 157  
 NT1 holmium 158  
 NT1 holmium 159  
 NT1 holmium 160  
 NT1 holmium 161  
 NT1 holmium 162  
 NT1 holmium 163  
 NT1 holmium 164  
 NT1 holmium 165  
 NT1 holmium 166  
 NT1 holmium 167  
 NT1 holmium 168  
 NT1 holmium 169  
 NT1 holmium 170  
 NT1 holmium 171  
 NT1 holmium 172  
 NT1 holmium 173  
 NT1 holmium 174  
 NT1 holmium 175

**HOLMIUM NITRATES**\*BT1 holmium compounds  
\*BT1 nitrates**HOLMIUM NITRIDES**\*BT1 holmium compounds  
\*BT1 nitrides**HOLMIUM OXIDES**\*BT1 holmium compounds  
\*BT1 oxides**HOLMIUM PERCHLORATES**

INIS: 2000-04-12; ETDE: 1975-10-28  
 \*BT1 holmium compounds  
 \*BT1 perchlorates

**HOLMIUM PHOSPHATES**

1975-10-23  
 \*BT1 holmium compounds  
 \*BT1 phosphates

**HOLMIUM PHOSPHIDES**

INIS: 1978-07-03; ETDE: 1977-04-12  
 \*BT1 holmium compounds  
 \*BT1 phosphides

**HOLMIUM SELENIDES**

INIS: 1984-08-27; ETDE: 1977-12-22  
 \*BT1 holmium compounds  
 \*BT1 selenides

**HOLMIUM SILICATES**

INIS: 1990-07-24; ETDE: 1982-12-01  
 \*BT1 holmium compounds  
 \*BT1 silicates

**HOLMIUM SILICIDES**

INIS: 1975-10-29; ETDE: 1975-12-16  
 \*BT1 holmium compounds

\*BT1 silicides

**HOLMIUM SULFATES**\*BT1 holmium compounds  
\*BT1 sulfates**HOLMIUM SULFIDES**\*BT1 holmium compounds  
\*BT1 sulfides**HOLMIUM TELLURIDES**

INIS: 1988-02-02; ETDE: 1978-05-03  
 \*BT1 holmium compounds  
 \*BT1 tellurides

**holocene epoch**

INIS: 2000-04-12; ETDE: 1977-10-20  
 USE quaternary period

**HOLOGRAPHIC PRINCIPLE**

2015-06-01  
*Mathematical principle stating that the total information contained in a volume of space corresponds to an equal amount of information contained on the boundary of that space.*

RT black holes  
 RT quantum field theory  
 RT quantum gravity  
 RT string theory  
 RT topology  
 RT universe

**HOLOGRAPHY**

RT photography

**HOLTSMARK THEORY**

RT plasma

**HOLY SEE**

2008-03-28  
 UF vatican city state  
 BT1 developed countries  
 \*BT1 western europe  
 RT italy

**holzheimer process**

2000-04-12  
*Process for the underground gasification of oil shale, making use of the total energy content of the shale. Waste heat is utilized in special steam generators and distillation columns.*  
 (Prior to January 1995, this was a valid ETDE descriptor.)

USE in-situ gasification  
 USE oil shales

**HOMALITE**

INIS: 1979-09-18; ETDE: 1979-03-27  
*Brittle polyester used in photoelastic analysis of crack propagation in PWR pressure vessels under LOCA conditions.*

\*BT1 polyethylene terephthalate  
 RT araldite  
 RT photoelasticity  
 RT stress analysis

**HOME RANGE**

INIS: 1999-09-01; ETDE: 1976-05-13  
*The area to which the activities of an animal are confined.*  
 RT ecology  
 RT habitat fragmentation  
 RT wild animals

**HOMEOSTASIS**

RT biological recovery  
 RT blood  
 RT blood-brain barrier  
 RT endocrine glands  
 RT hormones  
 RT hypothalamus

RT physiology  
 RT pituitary gland

**HOMOCYSTEINE**

ETDE: 1997-03-15  
 \*BT1 amino acids  
 RT cysteine

**homocystine**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE amino acids

**HOMOGENATES**

RT animal cells  
 RT animal tissues  
 RT biological materials  
 RT in vitro  
 RT organs

**HOMOGENEOUS CATALYSIS**

INIS: 1992-04-13; ETDE: 1984-07-20  
*Catalysis occurring within a single phase, usually a gas or liquid.*  
 BT1 catalysis

**HOMOGENEOUS MIXTURES**

1999-10-11  
 \*BT1 mixtures  
 NT1 solutions  
 NT2 aqueous solutions  
 NT2 fuel solutions  
 NT2 hypertonic solutions  
 NT2 isotonic solutions  
 NT2 leachates  
 NT2 process solutions  
 NT2 solid solutions

**HOMOGENEOUS PLASMA**

BT1 plasma

**homogeneous reactor experiment 2**

2000-04-12  
 USE hre-2 reactor

**HOMOGENEOUS REACTORS**

BT1 reactors  
 NT1 fuel dispersion reactors  
 NT2 fluidized bed reactors  
 NT2 slurry reactors  
 NT1 gas fueled reactors  
 NT2 coaxial flow reactors  
 NT2 light bulb reactors  
 NT2 plasma core assembly  
 NT1 liquid homogeneous reactors  
 NT2 aqueous homogeneous reactors  
 NT3 ai-1-77 reactor  
 NT3 argus reactor  
 NT3 ber-2 reactor  
 NT3 byu 1-77 reactor  
 NT3 cesnef reactor  
 NT3 dr-1 reactor  
 NT3 frf reactor  
 NT3 gidra reactor  
 NT3 hre-2 reactor  
 NT3 jrr-1 reactor  
 NT3 kewb reactor  
 NT3 kstr reactor  
 NT3 ncsr-1 reactor  
 NT3 nevada university reactor  
 NT3 prnc-1-77 reactor  
 NT3 supo reactor  
 NT3 wrrr reactor  
 NT1 solid homogeneous reactors  
 NT2 acpr reactor  
 NT2 aerogjet-general nucleonics reactors  
 NT3 agn 201 costanza  
 NT2 akr-1 reactor  
 NT2 anex reactor  
 NT2 ebor reactor  
 NT2 nsrr reactor

- NT2 pebble bed reactors  
 NT3 avr reactor  
 NT3 thtr-300 reactor  
 NT3 vg-400 reactor  
 NT3 vgr-50 reactor  
 NT2 romashka reactor  
 NT2 shca reactor  
 NT2 sur-100 series reactor  
 NT2 treat reactor  
 NT2 triga type reactors  
 NT3 afri reactor  
 NT3 atpr reactor  
 NT3 colorado triga-mk-3 reactor  
 NT3 cornell triga-mk-2 reactor  
 NT3 dow triga-mk-1 reactor  
 NT3 fir-1 reactor  
 NT3 frf-2 reactor  
 NT3 frm reactor  
 NT3 gulf triga-mk-3 reactor  
 NT3 kartini-ppny reactor  
 NT3 lopra reactor  
 NT3 nscr reactor  
 NT3 ostr reactor  
 NT3 prpr reactor  
 NT3 psbr reactor  
 NT3 rtp reactor  
 NT3 trico ii reactor  
 NT3 trico reactor  
 NT3 triga-1-arizona reactor  
 NT3 triga-1-california reactor  
 NT3 triga-1-hanford reactor  
 NT3 triga-1-hanover reactor  
 NT3 triga-1-heidelberg reactor  
 NT3 triga-1-michigan reactor  
 NT3 triga-2-bandung reactor  
 NT3 triga-2-bangladesh reactor  
 NT3 triga-2-dalat reactor  
 NT3 triga-2-illinois reactor  
 NT3 triga-2-kansas reactor  
 NT3 triga-2-ljubljana reactor  
 NT3 triga-2-mainz reactor  
 NT3 triga-2-musashi reactor  
 NT3 triga-2-pavia reactor  
 NT3 triga-2-pitesti reactor  
 NT3 triga-2 reactor  
 NT3 triga-2-rikkyo reactor  
 NT3 triga-2-rome reactor  
 NT3 triga-2-seoul reactor  
 NT3 triga-2-vienna reactor  
 NT3 triga-3-la jolla reactor  
 NT3 triga-3-munich reactor  
 NT3 triga-3-salazar reactor  
 NT3 triga-3-seoul reactor  
 NT3 triga-brazil reactor  
 NT3 triga-texas reactor  
 NT3 triga-veterans reactor  
 NT3 ucbr reactor  
 NT3 uwnr reactor  
 NT3 wsur reactor

**HOMOGENIZATION METHODS**

- INIS: 1981-06-19; ETDE: 1981-08-04  
*Methods in which the heterogeneities of the reactor core must be considered in separate calculations in which the equivalent homogenized parameters are produced for use in subsequent calculations of the overall flux distribution in the reactor.*  
 BT1 calculation methods  
 RT heterogeneous effects  
 RT neutron diffusion equation  
 RT neutron flux  
 RT neutron transport theory  
 RT reactor lattice parameters

**HOMOJUNCTIONS**

- INIS: 2000-04-12; ETDE: 1981-07-18  
 BT1 semiconductor junctions  
 RT heterojunctions

**HOMOPOLAR GENERATORS**

- INIS: 1984-04-04; ETDE: 1981-05-18  
*D-C generators in which the poles presented to the armature are all of the same polarity.*  
 UF homopolar machines  
 \*BT1 electric generators  
 RT direct current

**homopolar machines**

- INIS: 2000-04-12; ETDE: 1981-05-18  
 USE homopolar generators

**homozygotes**

- ETDE: 2002-06-13  
 USE hybridization

**HONDURAS**

- \*BT1 central america  
 BT1 developing countries

**HONEY**

- ETDE: 1975-09-11  
 BT1 food

**HONEYCOMB STRUCTURES**

- INIS: 1993-03-11; ETDE: 1976-01-07  
*For single-layer materials (or 2-D materials) see CRYSTAL LATTICES.*  
 BT1 mechanical structures  
 RT solar collectors

**honeylocust trees**

- INIS: 2000-04-12; ETDE: 1981-05-18  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE leguminosae  
 USE trees

**HONEYWELL COMPUTERS**

- BT1 computers

**HONG KONG**

- Former British possession re-integrated into China in 1997.*  
 \*BT1 china

**HONGYANHE-1 REACTOR**

- 2017-10-25  
 Dalian, China  
 \*BT1 pwr type reactors

**HONGYANHE-2 REACTOR**

- 2017-10-25  
 Dalian, China  
 \*BT1 pwr type reactors

**HONGYANHE-3 REACTOR**

- 2017-10-25  
 Dalian, China  
 \*BT1 pwr type reactors

**HONGYANHE-4 REACTOR**

- 2017-10-25  
 Dalian, China  
 \*BT1 pwr type reactors

**HONING**

- BT1 machining  
 RT grinding

**HOOKE LAW**

- RT elasticity  
 RT poisson ratio  
 RT young modulus

**HOOKWORM**

- (From 1974 till March 1997 NIPPOSTRONGYLUS was a valid ETDE descriptor.)  
 UF nippostrongylus  
 \*BT1 nematodes  
 BT1 parasites  
 RT parasitic diseases

**HOPE CREEK-1 REACTOR**

- PSEG Nuclear, LLC, Salem, New Jersey, USA.  
 (Prior to November 1973 known as NEWBOLD ISLAND-1 REACTOR for the initially planned site, and older material is so indexed.)  
 UF bordentown nj newbold island-1 reactor  
 UF newbold island-1 reactor  
 UF public service newbold island-1 reactor  
 \*BT1 bwr type reactors

**HOPE CREEK-2 REACTOR**

- Public Service Electric and Gas Co., Salem, New Jersey, USA. Canceled in 1981 before construction began.  
 (Prior to November 1973 known as NEWBOLD ISLAND-2 REACTOR for the initially planned site, and older material is so indexed.)  
 UF bordentown nj newbold island-2 reactor  
 UF newbold island-2 reactor  
 UF public service newbold island-2 reactor  
 \*BT1 bwr type reactors

**HOPPERS**

- INIS: 2000-04-12; ETDE: 1977-03-04  
 UF bunkers  
 BT1 containers

**HOR REACTOR**

- Interuniversitair Reactor Instituut/ Technische Hogeschool Delft, Delft, Netherlands.  
 UF delft hoger onderwijs reactor  
 UF hoger onderwijs reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**HORACE REACTOR**

- \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 zero power reactors

**hordeum**

- USE barley

**HORIZONTAL AXIS TURBINES**

- INIS: 1992-09-24; ETDE: 1985-08-22  
 \*BT1 wind turbines  
 RT diffuser augmented turbines  
 RT tipvane rotors  
 RT vortex augmented turbines

**horizontal concentration**

- INIS: 2000-04-12; ETDE: 1979-04-12  
 USE horizontal integration

**horizontal diversification**

- INIS: 2000-04-12; ETDE: 1979-04-12  
 USE horizontal integration

**HORIZONTAL DIVESTITURE**

- INIS: 2000-04-12; ETDE: 1977-09-19  
 RT petroleum industry  
 RT regulations

**HORIZONTAL INTEGRATION**

- INIS: 2000-05-04; ETDE: 1979-04-12  
 UF horizontal concentration  
 UF horizontal diversification  
 RT competition  
 RT industry  
 RT petroleum industry

**hormone antagonists**

INIS: 2000-04-12; ETDE: 1981-04-20

Use the descriptor below or one of its narrower terms.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE drugs

**HORMONES**

NT1 adrenal hormones

NT2 adrenaline

NT2 corticosteroids

NT3 glucocorticoids

NT4 corticosterone

NT4 cortisone

NT4 dexamethasone

NT4 hydrocortisone

NT4 prednisolone

NT4 prednisone

NT3 mineralocorticoids

NT4 aldosterone

NT2 noradrenaline

NT1 peptide hormones

NT2 calcitonin

NT2 erythropoietin

NT2 gastrin

NT2 glucagon

NT2 insulin

NT2 leptin

NT2 parathormone

NT2 pituitary hormones

NT3 acth

NT3 gonadotropins

NT4 fsh

NT4 hcg

NT4 lth

NT4 luteinizing hormone

NT3 liberins

NT4 lh-rh

NT3 oxytocin

NT3 sth

NT3 tsh

NT3 vasopressin

NT2 secretin

NT2 thyroid hormones

NT3 diiodothyronine

NT3 thyrocalcitonin

NT3 thyroxine

NT3 triiodothyronine

NT2 thyronine

NT2 trh

NT1 steroid hormones

NT2 androgens

NT3 androstenedione

NT3 androsterone

NT3 hydroxyandrosterone

NT3 testosterone

NT2 corticosteroids

NT3 glucocorticoids

NT4 corticosterone

NT4 cortisone

NT4 dexamethasone

NT4 hydrocortisone

NT4 prednisolone

NT4 prednisone

NT3 mineralocorticoids

NT4 aldosterone

NT2 estrogens

NT3 estradiol

NT4 fluoroestradiol

NT3 estriol

NT3 estrone

NT2 progesterone

RT abscisic acid

RT biochemistry

RT endocrine diseases

RT endocrine glands

RT homeostasis

RT intrinsic factor

RT physiology

RT prostaglandins

RT receptors

RT somatostatin

RT steroids

RT stimulation

**HORNBLENDE**

\*BT1 amphibole

RT granites

RT peridotites

**hornfels**

INIS: 2000-04-12; ETDE: 1980-08-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE metamorphic rocks

**HORSES**

\*BT1 mammals

**HORTICULTURE**

INIS: 1992-02-18; ETDE: 1980-10-27

The science of growing fruits, vegetables, flowers and ornamental plants.

BT1 agriculture

RT gardening

RT greenhouses

RT harvesting

**HOSE INSTABILITY**

UF firehose instability

UF gardenhose instability

\*BT1 plasma microinstabilities

**HOSES**

INIS: 2000-04-12; ETDE: 1976-01-07

BT1 tubes

**HOSKINS 875**

2000-04-12

\*BT1 aluminium alloys

\*BT1 chromium alloys

\*BT1 iron base alloys

**HOSPITALS**

BT1 buildings

BT1 medical establishments

RT health services

RT medicine

RT public buildings

**HOST**

RT fungal diseases

RT graft-host reaction

RT parasitic diseases

RT rickettsial diseases

RT transplants

RT viral diseases

**HOST-CELL REACTIVATION**

\*BT1 biological repair

RT bacteria

RT bacteriophages

RT chemical radiation effects

RT dna

RT radiation injuries

**HOT ATOM CHEMISTRY**

Chemical reactions of atoms or ions of high kinetic energies (more than 1 ev) resulting from nuclear transformations.

UF chemical effects of nuclear transformations

UF recoil chemistry

\*BT1 radiochemistry

NT1 szilard-chalmers reaction

RT nuclear reactions

RT recoils

RT retention

RT scavenging

RT valence

**HOT CELLS**

Shielded chambers for remote handling of radioactive materials.

\*BT1 laboratory equipment

RT gloveboxes

RT hot labs

RT manipulators

RT periscopes

RT radiation protection

RT remote handling

RT remote handling equipment

RT remote viewing equipment

RT shielding

**HOT CHANNEL**

RT fuel channels

RT hot channel factor

RT reactor cooling systems

**HOT CHANNEL FACTOR**

BT1 dimensionless numbers

RT hot channel

RT reactor safety

**HOT DIPPING**

\*BT1 dip coating

**HOT-DRY-ROCK SYSTEMS**

1992-09-01

UF impermeable dry rock

BT1 energy systems

BT1 geothermal systems

RT hydraulic fractures

**hot enriched carbon moderated thermal oscillator reactor**

1993-11-08

USE hector reactor

**hot experimental facility**

INIS: 1990-12-06; ETDE: 1980-10-27

(Prior to December 1990, this was a valid descriptor.)

USE hef

**hot experimental reactor zero energy**

1993-11-08

USE hero reactor

**HOT GAS CLEANUP**

INIS: 1993-01-27; ETDE: 1978-04-27

BT1 purification

RT acoustic agglomerators

RT coal gasification

RT combined-cycle power plants

RT desulfurization

RT electrostatic precipitators

RT filters

RT filtration

RT fuel gas

**hot isostatic pressing**

2003-06-26

USE hot pressing

**HOT LABS**

UF radiochemical laboratories

BT1 laboratories

BT1 nuclear facilities

RT hot cells

RT laboratory equipment

RT manipulators

RT periscopes

RT radiation hazards

RT radiation protection

RT radioactivity

RT remote handling

**HOT NUCLEI**

1994-04-12

Nuclei with temperatures exceeding 4 MeV.

BT1 nuclei



**HOT PLASMA**

BT1 plasma

**HOT PRESSING**

UF hot isostatic pressing

\*BT1 pressing

RT hot working

**HOT SPOT FACTOR**

BT1 dimensionless numbers

RT hot spots

RT reactor safety

**HOT SPOTS**

RT burnout

RT dryout

RT fuel cans

RT heat transfer

RT hot spot factor

RT reactor cooling systems

RT rewetting

RT volcanoes

**hot spots (biological)**

USE biological hot spots

**HOT SPRINGS**

2000-03-31

*Springs whose temperature is above that of the human body.*

SF geothermal springs

SF thermal waters

\*BT1 thermal springs

NT1 geysers

RT hydrothermal systems

RT mineral springs

**HOT WATER**

INIS: 2000-07-24; ETDE: 1978-10-23

\*BT1 water

RT district heating

RT water heating

**hot water heaters**

INIS: 2000-04-12; ETDE: 1981-01-27

USE water heaters

**HOT-WATER PROCESSES**

2000-04-12

*Processes used primarily in processing of oil (tar) sands to separate tar from sand.*

BT1 fluid injection processes

RT oil sands

RT oil shales

**hot-water systems**

2000-04-12

(Prior to August 1992 this was a valid ETDE descriptor.)

USE geothermal hot-water systems

**HOT WIRE ANEMOMETERS**

\*BT1 anemometers

**HOT-WIRE GAGES**

\*BT1 pressure gages

NT1 pirani gages

**HOT WORKING**

\*BT1 materials working

RT extrusion

RT forging

RT hot pressing

RT rolling

**HOTELS**

INIS: 2000-04-12; ETDE: 1979-12-17

UF inns

UF motels

UF motor inns

\*BT1 commercial buildings

RT residential buildings

RT tourism

**hough-powell devices**

USE flying spot digitizers

**HOURLY VARIATIONS**

INIS: 1981-07-08; ETDE: 1980-03-04

*Variations from hour to hour.*

BT1 variations

**HOURS LIVING RADIOISOTOPES**

\*BT1 radioisotopes

NT1 actinium 224

NT1 actinium 228

NT1 actinium 229

NT1 americium 237

NT1 americium 238

NT1 americium 239

NT1 americium 242

NT1 americium 244

NT1 americium 245

NT1 antimony 116

NT1 antimony 117

NT1 antimony 118

NT1 antimony 128

NT1 antimony 129

NT1 argon 41

NT1 arsenic 78

NT1 astatine 207

NT1 astatine 208

NT1 astatine 209

NT1 astatine 210

NT1 astatine 211

NT1 barium 126

NT1 barium 129

NT1 barium 139

NT1 berkelium 243

NT1 berkelium 244

NT1 berkelium 248

NT1 berkelium 250

NT1 bismuth 201

NT1 bismuth 202

NT1 bismuth 203

NT1 bismuth 204

NT1 bismuth 212

NT1 bohrium 273

NT1 bohrium 274

NT1 bromine 75

NT1 bromine 76

NT1 bromine 80

NT1 bromine 83

NT1 cadmium 107

NT1 cadmium 117

NT1 californium 247

NT1 californium 255

NT1 cerium 132

NT1 cerium 133

NT1 cerium 135

NT1 cerium 137

NT1 cesium 127

NT1 cesium 134

NT1 chromium 48

NT1 cobalt 55

NT1 cobalt 58

NT1 cobalt 61

NT1 copper 61

NT1 copper 64

NT1 curium 238

NT1 curium 239

NT1 curium 249

NT1 dubnium 267

NT1 dubnium 269

NT1 dysprosium 152

NT1 dysprosium 153

NT1 dysprosium 155

NT1 dysprosium 157

NT1 dysprosium 165

NT1 einsteinium 249

NT1 einsteinium 250

NT1 einsteinium 256

NT1 erbium 158

NT1 erbium 161

NT1 erbium 163

NT1 erbium 165

NT1 erbium 171

NT1 europium 150

NT1 europium 152

NT1 europium 157

NT1 fermium 251

NT1 fermium 254

NT1 fermium 255

NT1 fermium 256

NT1 fluorine 18

NT1 gadolinium 159

NT1 gallium 66

NT1 gallium 68

NT1 gallium 72

NT1 gallium 73

NT1 germanium 66

NT1 germanium 75

NT1 germanium 77

NT1 germanium 78

NT1 gold 191

NT1 gold 192

NT1 gold 193

NT1 gold 196

NT1 gold 200

NT1 hafnium 170

NT1 hafnium 171

NT1 hafnium 173

NT1 hafnium 180

NT1 hafnium 182

NT1 hafnium 183

NT1 hafnium 184

NT1 hassium 276

NT1 holmium 160

NT1 holmium 161

NT1 holmium 162

NT1 holmium 167

NT1 indium 109

NT1 indium 110

NT1 indium 113

NT1 indium 115

NT1 indium 117

NT1 iodine 120

NT1 iodine 121

NT1 iodine 123

NT1 iodine 130

NT1 iodine 132

NT1 iodine 133

NT1 iodine 135

NT1 iridium 184

NT1 iridium 185

NT1 iridium 186

NT1 iridium 187

NT1 iridium 190

NT1 iridium 194

NT1 iridium 195

NT1 iridium 196

NT1 iron 52

NT1 krypton 76

NT1 krypton 77

NT1 krypton 83

NT1 krypton 85

NT1 krypton 87

NT1 krypton 88

NT1 lanthanum 132

NT1 lanthanum 133

NT1 lanthanum 135

NT1 lanthanum 141

NT1 lanthanum 142

NT1 lead 198

NT1 lead 199

NT1 lead 200

NT1 lead 201

NT1 lead 202

NT1 lead 204

NT1 lead 209

NT1 lead 212

NT1 lutetium 176

**NT1** lutetium 179  
**NT1** magnesium 28  
**NT1** manganese 56  
**NT1** mendelevium 256  
**NT1** mendelevium 257  
**NT1** mendelevium 259  
**NT1** mercury 192  
**NT1** mercury 193  
**NT1** mercury 195  
**NT1** mercury 197  
**NT1** molybdenum 90  
**NT1** molybdenum 93  
**NT1** neodymium 138  
**NT1** neodymium 139  
**NT1** neodymium 141  
**NT1** neodymium 149  
**NT1** neptunium 236  
**NT1** neptunium 240  
**NT1** nickel 65  
**NT1** niobium 89  
**NT1** niobium 90  
**NT1** niobium 96  
**NT1** niobium 97  
**NT1** osmium 181  
**NT1** osmium 182  
**NT1** osmium 183  
**NT1** osmium 189  
**NT1** osmium 191  
**NT1** palladium 101  
**NT1** palladium 109  
**NT1** palladium 111  
**NT1** palladium 112  
**NT1** platinum 185  
**NT1** platinum 186  
**NT1** platinum 187  
**NT1** platinum 189  
**NT1** platinum 197  
**NT1** platinum 200  
**NT1** plutonium 234  
**NT1** plutonium 243  
**NT1** plutonium 245  
**NT1** polonium 204  
**NT1** polonium 205  
**NT1** polonium 207  
**NT1** potassium 42  
**NT1** potassium 43  
**NT1** praseodymium 137  
**NT1** praseodymium 138  
**NT1** praseodymium 139  
**NT1** praseodymium 142  
**NT1** praseodymium 145  
**NT1** promethium 150  
**NT1** protactinium 228  
**NT1** protactinium 234  
**NT1** radium 230  
**NT1** radon 210  
**NT1** radon 211  
**NT1** radon 224  
**NT1** rhenium 181  
**NT1** rhenium 182  
**NT1** rhenium 188  
**NT1** rhenium 190  
**NT1** rhodium 100  
**NT1** rhodium 106  
**NT1** rhodium 99  
**NT1** rubidium 81  
**NT1** rubidium 82  
**NT1** ruthenium 105  
**NT1** ruthenium 95  
**NT1** samarium 142  
**NT1** samarium 156  
**NT1** scandium 43  
**NT1** scandium 44  
**NT1** selenium 73  
**NT1** silicon 31  
**NT1** silver 103  
**NT1** silver 104  
**NT1** silver 112  
**NT1** silver 113

**NT1** sodium 24  
**NT1** strontium 80  
**NT1** strontium 85  
**NT1** strontium 87  
**NT1** strontium 91  
**NT1** strontium 92  
**NT1** sulfur 38  
**NT1** tantalum 173  
**NT1** tantalum 174  
**NT1** tantalum 175  
**NT1** tantalum 176  
**NT1** tantalum 178  
**NT1** tantalum 180  
**NT1** tantalum 184  
**NT1** technetium 93  
**NT1** technetium 94  
**NT1** technetium 95  
**NT1** technetium 99  
**NT1** tellurium 116  
**NT1** tellurium 117  
**NT1** tellurium 119  
**NT1** tellurium 127  
**NT1** tellurium 129  
**NT1** terbium 147  
**NT1** terbium 148  
**NT1** terbium 149  
**NT1** terbium 150  
**NT1** terbium 151  
**NT1** terbium 152  
**NT1** terbium 154  
**NT1** terbium 156  
**NT1** thallium 195  
**NT1** thallium 196  
**NT1** thallium 197  
**NT1** thallium 198  
**NT1** thallium 199  
**NT1** thulium 163  
**NT1** thulium 166  
**NT1** thulium 173  
**NT1** tin 110  
**NT1** tin 127  
**NT1** titanium 45  
**NT1** tungsten 176  
**NT1** tungsten 177  
**NT1** uranium 240  
**NT1** xenon 122  
**NT1** xenon 123  
**NT1** xenon 125  
**NT1** xenon 135  
**NT1** ytterbium 164  
**NT1** ytterbium 177  
**NT1** ytterbium 178  
**NT1** yttrium 85  
**NT1** yttrium 86  
**NT1** yttrium 87  
**NT1** yttrium 90  
**NT1** yttrium 92  
**NT1** yttrium 93  
**NT1** zinc 62  
**NT1** zinc 69  
**NT1** zinc 71  
**NT1** zirconium 86  
**NT1** zirconium 87  
**NT1** zirconium 97  
**RT** half-life  
**RT** lifetime

## HOUSEHOLDS

*INIS: 1992-10-23; ETDE: 1979-12-10*  
*Social unit comprised of those living together in the same house, apartment or other dwelling.*

**RT** apartment buildings  
**RT** houses  
**RT** mobile homes  
**RT** residential buildings  
**RT** residential sector  
**RT** sectoral analysis

## HOUSES

1985-07-22

*UF* residences

\***BT1** residential buildings

*RT* households

*RT* mobile homes

## hovercraft

*INIS: 2000-04-12; ETDE: 1977-08-09*

*USE* air cushion vehicles

## HP COMPUTERS

*UF* hewlett-packard computers

**BT1** computers

## hpci

1979-01-18

*USE* high pressure coolant injection

## hpd devices

*USE* flying spot digitizers

## hpde

*INIS: 2000-04-12; ETDE: 1980-02-11*

*USE* mhd generator aecd

## HPL

*UF* human placental lactogen

**BT1** lactogens

*RT* placenta

*RT* pregnancy

*RT* sth

## hplc

2004-07-16

*USE* high-performance liquid chromatography

## HPRR REACTOR

*ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.*

*UF* health physics research reactor

\***BT1** air cooled reactors

\***BT1** enriched uranium reactors

\***BT1** fast reactors

\***BT1** pulsed reactors

\***BT1** research reactors

## HRE-2 REACTOR

2000-04-12

*ORNL, Oak Ridge, Tennessee, USA.*

*UF* homogeneous reactor experiment 2

\***BT1** aqueous homogeneous reactors

\***BT1** enriched uranium reactors

\***BT1** experimental reactors

\***BT1** heavy water moderated reactors

\***BT1** power reactors

\***BT1** research reactors

\***BT1** test reactors

## HRON RIVER

2004-12-15

\***BT1** rivers

*RT* slovakia

## hsa

*INIS: 1984-04-04; ETDE: 2002-06-13*

*Human serum albumin.*

*USE* albumins

*USE* blood serum

## HSK PROCEDURE

*UF* hylleraas-scherr-knight procedure

**BT1** perturbation theory

\***BT1** variational methods

*RT* electronic structure

*RT* quantum mechanics

**HSX STELLARATOR**

*INIS: 1999-01-26; ETDE: 2000-01-25*  
*Helical Symmetry Experiment, University of Wisconsin, USA.*

\*BT1 heliac stellarators

**HT-2 TOKAMAK**

*INIS: 1999-07-26; ETDE: 1999-09-03*  
*Hitachi Tokamak, Ibaraki, Japan.*

\*BT1 tokamak devices

**HT-6B TOKAMAK**

*INIS: 1989-12-08; ETDE: 1990-01-03*  
*Academia Sinica, Hefei, Anhui, China.*

\*BT1 tokamak devices

**HT-6M TOKAMAK**

*INIS: 1989-12-08; ETDE: 1990-01-03*  
*Academia Sinica, Hefei, Anhui, China.*

\*BT1 tokamak devices

**HT-7 TOKAMAK**

*INIS: 1998-01-28; ETDE: 1998-02-24*  
*Academia Sinica, Hefei, Anhui, China.*

\*BT1 tokamak devices

**HT-7U TOKAMAK**

2003-05-20  
*Academia Sinica, Hefei, Anhui, China.*

UF east tokamak

UF experimental advanced  
 superconducting tokamak

\*BT1 tokamak devices

**htgr peach bottom reactor**

USE peach bottom-1 reactor

**HTGR TYPE REACTORS**

1998-01-29

UF high temperature gas cooled and  
 graphite moderated reactors

\*BT1 gas cooled reactors

\*BT1 graphite moderated reactors

NT1 avr reactor

NT1 dragon reactor

NT1 fulton-1 reactor

NT1 fulton-2 reactor

NT1 ga standard reactor

NT1 htr-10 reactor

NT1 htr reactor

NT1 kahter reactor

NT1 peach bottom-1 reactor

NT1 schmehausen-2 reactor

NT1 summit-1 reactor

NT1 summit-2 reactor

NT1 thtr-300 reactor

NT1 vg-400 reactor

NT1 vgr-50 reactor

NT1 vhtr reactor

NT1 vidal-1 reactor

NT1 vidal-2 reactor

NT1 vrain reactor

RT helium cooled reactors

RT power reactors

**HTLTR REACTOR**

*Pacific Northwest Laboratory, Battelle Memorial Institute, Richland, Washington, USA. Shut down in 1971.*

UF high temperature lattice test reactor

\*BT1 enriched uranium reactors

\*BT1 graphite moderated reactors

\*BT1 nitrogen cooled reactors

\*BT1 research reactors

\*BT1 test reactors

**htlv iii virus**

*INIS: 1986-05-23; ETDE: 2002-06-13*

USE aids virus

**hto**

1996-06-19

USE tritium oxides

**HTR-10 REACTOR**

*INIS: 1998-01-29; ETDE: 1998-02-24*  
*Tsinghua Univ., Beijing, China.*

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 helium cooled reactors

\*BT1 htgr type reactors

\*BT1 test reactors

**HTR REACTOR**

*Tokyo Atomic Industrial Research Lab., Ltd, Kanagawa Prefecture, Japan.*

UF hitachi training reactor

UF japan htr

UF kawasaki-hitachi training reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**HTTR REACTOR**

1988-10-10

*Oarai Research Establishment of JAERI, Oarai, Ibaraki, Japan.*

UF high temperature test reactor

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 helium cooled reactors

\*BT1 htgr type reactors

**HTW PROCESS**

*INIS: 2000-04-12; ETDE: 1982-10-05*

*Rheinische Braunkohlenwerke/FRG coal gasification process which utilizes a fluidized bed reactor with an after-reactor chamber and operates at a pressure of approx. 10 bar and a temperature of approx. 1100 C to produce a high quality synthesis gas.*

UF high-temperature winkler process

\*BT1 coal gasification

RT synthesis gas

**HUBBARD MODEL**

*INIS: 1992-04-24; ETDE: 1992-07-09*

\*BT1 crystal models

RT antiferromagnetism

RT band theory

RT electronic structure

RT ferromagnetism

RT high-*tc* superconductors

RT superconductivity

**HUBBLE EFFECT**

UF hubble-humason shift

RT cosmology

RT expansion

RT red shift

RT universe

**hubble-humason shift**

USE hubble effect

**HUDSON RIVER**

\*BT1 rivers

RT new jersey

RT new york

**huff and puff process**

*INIS: 2000-04-12; ETDE: 1976-06-07*

USE fluid injection processes

**hugholtz-pines theory**

USE van hove-hugholtz theory

**HULTHEN POTENTIAL**

1976-07-06

\*BT1 nuclear potential

**human cells**

USE animal cells

**human chorionic gonadotropin**

USE hcg

**HUMAN CHROMOSOME 1**

*INIS: 1994-01-04; ETDE: 1993-12-28*

\*BT1 human chromosomes

**HUMAN CHROMOSOME 12**

1993-02-17

\*BT1 human chromosomes

**HUMAN CHROMOSOME 13**

*INIS: 1994-01-04; ETDE: 1993-12-28*

\*BT1 human chromosomes

**HUMAN CHROMOSOME 14**

1993-02-17

\*BT1 human chromosomes

**HUMAN CHROMOSOME 15**

*INIS: 1994-01-04; ETDE: 1993-12-28*

\*BT1 human chromosomes

**HUMAN CHROMOSOME 16**

*INIS: 1992-01-14; ETDE: 1987-10-22*

\*BT1 human chromosomes

**HUMAN CHROMOSOME 17**

*INIS: 1991-12-11; ETDE: 1989-01-27*

\*BT1 human chromosomes

**HUMAN CHROMOSOME 18**

*INIS: 1991-12-11; ETDE: 1992-01-24*

\*BT1 human chromosomes

**HUMAN CHROMOSOME 19**

*INIS: 1991-12-11; ETDE: 1987-07-31*

\*BT1 human chromosomes

**HUMAN CHROMOSOME 2**

1992-10-28

\*BT1 human chromosomes

**HUMAN CHROMOSOME 21**

*INIS: 1991-12-11; ETDE: 1987-07-31*

\*BT1 human chromosomes

**HUMAN CHROMOSOME 22**

1992-09-24

\*BT1 human chromosomes

**HUMAN CHROMOSOME 3**

*INIS: 2000-04-12; ETDE: 1992-11-30*

\*BT1 human chromosomes

**HUMAN CHROMOSOME 5**

*INIS: 1991-12-11; ETDE: 1988-04-15*

\*BT1 human chromosomes

**HUMAN CHROMOSOME 6**

*INIS: 2000-04-12; ETDE: 1993-12-28*

\*BT1 human chromosomes

**HUMAN CHROMOSOME 7**

*INIS: 1994-01-04; ETDE: 1993-12-28*

\*BT1 human chromosomes

**HUMAN CHROMOSOME 8**

1993-02-17

\*BT1 human chromosomes

**HUMAN CHROMOSOME 9**

*INIS: 2000-04-12; ETDE: 1993-12-28*

\*BT1 human chromosomes

**HUMAN CHROMOSOMES**

INIS: 1997-06-17; ETDE: 1991-12-05  
(Prior to October 1991, this was indexed by CHROMOSOMES.)

- BT1 chromosomes
- NT1 human chromosome 1
- NT1 human chromosome 12
- NT1 human chromosome 13
- NT1 human chromosome 14
- NT1 human chromosome 15
- NT1 human chromosome 16
- NT1 human chromosome 17
- NT1 human chromosome 18
- NT1 human chromosome 19
- NT1 human chromosome 2
- NT1 human chromosome 21
- NT1 human chromosome 22
- NT1 human chromosome 23
- NT1 human chromosome 5
- NT1 human chromosome 6
- NT1 human chromosome 7
- NT1 human chromosome 8
- NT1 human chromosome 9
- NT1 human x chromosome
- NT1 human y chromosome
- NT1 philadelphia chromosome
- RT banding techniques
- RT cell nuclei
- RT chromatids
- RT chromatin
- RT chromosomal aberrations
- RT chromosome sorting
- RT dna
- RT dna repair
- RT gene regulation
- RT genes
- RT genetic effects
- RT genetic mapping
- RT karyotype
- RT mitosis
- RT nucleoli
- RT rflps

**HUMAN FACTORS**

1982-02-09  
*Aspects of human behavior which influence events or situations, e.g. actions of operators at nuclear power plants.*

- SF psychology
- RT accidents
- RT aesthetics
- RT attitudes
- RT behavior
- RT drug abuse
- RT failures
- RT man-machine systems
- RT mto model
- RT personnel
- RT safety
- RT safety culture
- RT safety engineering
- RT sociology

**HUMAN FACTORS ENGINEERING**

INIS: 1995-01-23; ETDE: 1982-06-07  
*Application of information on physical and psychological characteristics of man to the design of devices and systems for human use.*

- UF ergonomics
- BT1 engineering
- RT accidents
- RT equipment
- RT hazards
- RT man-machine systems
- RT personnel
- RT safety
- RT working conditions

**human immune deficiency virus**

2004-05-28  
USE aids virus

**HUMAN INTRUSION**

INIS: 1985-07-23; ETDE: 1990-09-13  
*Unauthorized entering of people into restricted areas, facilities, etc. See also BIOINTRUSION.*

- UF infiltration (by people)
- UF intrusion (human)
- SF intrusion
- RT entry control systems
- RT fences
- RT interest groups
- RT nuclear facilities
- RT physical protection
- RT sabotage
- RT security

**human placental lactogen**

USE hpl

**HUMAN POPULATIONS**

(From August 1980 till April 1997 DEMOGRAPHY was a valid ETDE descriptor.)

- UF demography
- UF humans
- UF people
- BT1 populations
- NT1 a-bomb survivors
- NT1 indigenous peoples
  - NT2 american indians
  - NT2 eskimos
  - NT2 sami people
- NT1 minority groups
  - NT2 american indians
  - NT2 black americans
  - NT2 elderly people
  - NT2 handicapped people
  - NT2 high income groups
  - NT2 hispanic americans
  - NT2 low income groups
  - NT2 oriental americans
  - NT2 sami people
- NT1 rural populations
- NT1 urban populations
  - RT anthropology
  - RT boom towns
  - RT civil defense
  - RT communities
  - RT cuex
  - RT epidemiology
  - RT health services
  - RT icrp critical group
  - RT interest groups
  - RT man
  - RT occupants
  - RT patients
  - RT personnel
  - RT population dynamics
  - RT population relocation
  - RT public health
  - RT regional analysis
  - RT residential sector
  - RT sociology

**human serum albumin**

INIS: 1984-04-04; ETDE: 2002-06-13  
USE albumins  
USE blood serum

**human tissues**

INIS: 1997-01-28; ETDE: 1996-04-02  
USE animal tissues

**HUMAN X CHROMOSOME**

INIS: 1992-01-08; ETDE: 1988-04-15  
\*BT1 human chromosomes

\*BT1 x chromosome

**HUMAN Y CHROMOSOME**

INIS: 1992-01-08; ETDE: 1988-04-15  
\*BT1 human chromosomes  
\*BT1 y chromosome

**humans**

INIS: 2000-04-12; ETDE: 1981-06-16  
USE human populations

**humboldt bay**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE california  
USE pacific ocean

**HUMBOLDT BAY REACTOR**

*Pacific Gas and Electric Co., Eureka, California, USA. Shut down in 1976; decommissioned in 1988.*

\*BT1 bwr type reactors

**HUMBOLDT GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1983-04-28  
*This process is based on the dissolution of carbon in molten iron. During the process the coal is completely converted leaving no by-products such as tar or other heavy hydrocarbons. The gas produced is practically sulfur free.*

\*BT1 coal gasification

**humeca uranium mill**

INIS: 1996-07-18; ETDE: 1976-08-04  
(Until July 1996 this was a valid descriptor.)  
USE nuclear facilities

**HUMIC ACIDS**

\*BT1 organic acids  
RT fulvic acids  
RT humus  
RT soils

**HUMIDIFIERS**

INIS: 2000-04-12; ETDE: 1977-06-21  
RT dehumidifiers  
RT electric appliances  
RT humidity control

**HUMIDISTATS**

\*BT1 control equipment  
RT humidity control

**HUMIDITY**

SF water content  
BT1 moisture  
RT dew point  
RT humidity recovery  
RT hygrometry  
RT moisture gages  
RT water vapor

**HUMIDITY CONTROL**

BT1 control  
RT air conditioning  
RT humidifiers  
RT humidistats  
RT humidity recovery  
RT thermal comfort

**HUMIDITY RECOVERY**

2004-09-14  
RT air conditioners  
RT heat recovery  
RT humidity  
RT humidity control

**HUMUS**

*Material resulting from partial decomposition of plant or animal matter and forming the organic portion of soil.*

- RT forest litter
- RT fulvic acids
- RT humic acids
- RT soils

**HUNGARIAN ORGANIZATIONS**

1986-04-03

- BT1 national organizations
- NT1 atomki

**hungarian paks-1 reactor**

- USE paks-1 reactor

**hungarian paks-2 reactor**

- USE paks-2 reactor

**hungarian paks-3 reactor**

INIS: 1980-07-24; ETDE: 1980-08-12

- USE paks-3 reactor

**hungarian paks-4 reactor**

INIS: 1980-07-24; ETDE: 1980-08-12

- USE paks-4 reactor

**hungarian wwr-c reactor**

- USE wwr-s-budapest reactor

**HUNGARY**

- BT1 developing countries
- \*BT1 eastern europe
- RT danube river
- RT oecd

**HUNTERSTON-A REACTOR**

*Hunterston, Ayrshire, United Kingdom. Permanently shut down since 1990.*

- \*BT1 carbon dioxide cooled reactors
- \*BT1 magnox type reactors
- \*BT1 thermal reactors

**HUNTERSTON-B REACTOR**

*Hunterston, Ayrshire, United Kingdom.*

- \*BT1 agr type reactors
- \*BT1 carbon dioxide cooled reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**HURRICANES**

- BT1 storms
- RT cyclones
- RT monsoons
- RT turbulence
- RT water waves
- RT weather
- RT wind

**HURWITZ EFFECT**

- UF *bethe-hurwitz effect*
- RT nuclear models

**hushed echo event**

INIS: 2000-04-12; ETDE: 1975-12-16

- USE bedrock project

**husky ace event**

INIS: 2000-04-12; ETDE: 1975-09-11

*A test made during PROJECT ARBOR. (Prior to January 1995, this was a valid ETDE descriptor.)*

- USE nuclear explosions
- USE underground explosions

**husky pup event**

INIS: 2000-04-12; ETDE: 1977-06-21

- USE anvil project

**hutch event**

1994-10-14

*A test made during OPERATION MANDREL. (Prior to September 1994, this was a valid ETDE descriptor.)*

- USE nuclear explosions
- USE underground explosions

**hutchinson island-1 reactor**

- USE lucie-1 reactor

**hutchinson island-2 reactor**

- USE lucie-2 reactor

**huttonite**

1997-01-28

*(Until October 1996 this was a valid descriptor.)*

- USE silicate minerals
- USE thorium minerals

**HUYGENS PRINCIPLE**

- RT wave propagation

**HVAC SYSTEMS**

INIS: 1996-01-31; ETDE: 1976-05-17

*69 kV to 230 kV. For heating, ventilating, and air conditioning systems, see SPACE HVAC SYSTEMS.*

- UF *high voltage alternating current systems*

- \*BT1 ac systems

**HVDC SYSTEMS**

1996-01-31

*69 kV to 230 kV.*

- UF *high voltage direct current systems*

- \*BT1 dc systems

**HWCTR REACTOR**

*Savannah River Plant, Aiken, South Carolina, USA. Shut down in 1964.*

- UF *heavy water components test reactor*

- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 materials testing reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**HWGCR TYPE REACTORS**

- UF *heavy water moderated and gas cooled reactors*

- \*BT1 gas cooled reactors
- \*BT1 heavy water moderated reactors
- NT1 bohunice a-1 reactor
- NT1 bohunice a-2 reactor
- NT1 el-4 reactor
- NT1 lucens reactor
- NT1 niederaichbach reactor
- RT power reactors

**HWLWR TYPE REACTORS**

- UF *heavy water moderated and water cooled reactors*

- \*BT1 heavy water moderated reactors
- \*BT1 water cooled reactors
- NT1 cirene reactor
- NT1 gentilly-1 reactor
- NT1 jatr reactor
- RT power reactors

**hwrr-2 reactor**

2018-06-04

- USE hwrr reactor

**HWRR REACTOR**

2003-02-03

*CIAE, Beijing, China. Permanent shutdown since 2007.*

- UF *heavy water research reactor*
- UF *hwrr-2 reactor*

- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors

**HWZPR REACTOR**

2003-08-14

*Esfahan nuclear technology centre, Iran.*

- UF *heavy water zero power reactor*
- \*BT1 heavy water moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**HYALURONIC ACID**

- \*BT1 mucopolysaccharides
- RT glucuronic acid
- RT hyaluronidase

**HYALURONIDASE**

*Code numbers 3.2.1.35 and 3.2.1.36.*

- \*BT1 carbon-oxygen lyases
- \*BT1 o-glycosyl hydrolases
- RT hyaluronic acid

**HYBRID COMPUTERS**

- BT1 computers

**HYBRID ELECTRIC-POWERED VEHICLES**

1992-04-14

- \*BT1 electric-powered vehicles
- RT electric batteries
- RT hybrid systems

**HYBRID REACTORS**

*Devices in which controlled self-sustaining fission-fusion processes take place.*

- RT fusion neutron source facilities
- RT hybrid systems
- RT lotus facility
- RT reactors
- RT thermonuclear reactors

**HYBRID RESONANCE**

- BT1 resonance

**HYBRID SYSTEMS**

1992-04-14

*Systems using two different types of components performing essentially the same function.*

- RT hybrid electric-powered vehicles
- RT hybrid reactors
- RT power transmission
- RT thermonuclear reactors

**HYBRIDIZATION**

- UF *heterozygotes*

- UF *homozygotes*

- UF *hybrids*

- UF *mixing (genetic)*

- NT1 dna hybridization

- NT2 dna-cloning

- RT electronic structure

- RT genetic engineering

- RT genetics

- RT wave functions

**HYBRIDOMAS**

INIS: 1986-05-23; ETDE: 1984-01-27

*Hybrid cells resulting from the fusion of myeloma cells with lymphocytes; often used in the production of monoclonal antibodies.*

- UF *fused cells (animal)*

- BT1 animal cells

- RT biotechnology

- RT cell cultures

- RT dna hybridization

- RT lymphocytes

- RT monoclonal antibodies

**hybrids**

USE hybridization

**HYBTOK TOKAMAKS**

INIS: 1991-08-12; ETDE: 1991-09-13

\*BT1 tokamak devices

**hycsos**

INIS: 2000-04-12; ETDE: 1979-09-26

Chemical heat pump based on metal hydrides.

Hydride Conversion and Storage System.

USE chemical heat pumps

**HYDANTOINS**

INIS: 2000-04-12; ETDE: 1985-05-07

\*BT1 imidazoles

RT urea

**HYDATIDOSIS**

\*BT1 parasitic diseases

RT cestodes

RT parasites

**HYDRA**

\*BT1 cnidaria

**hydra reactor**

2004-09-09

Russian Research Center, Kurchatov Institute, Moscow, Russia.

USE gidra reactor

**HYDRANE PROCESS**

2000-04-12

Production of pipeline gas from coal by direct conversion with H to give CH<sub>4</sub>. 1000 psi H flows upward through free-falling pulverized coal at 725 degrees. Carbon, hydrogen sulfide, and dust are removed from product.

\*BT1 coal gasification

BT1 sng processes

**hydration**

USE hydration

**hydrated electrons**

USE hydration

USE solvated electrons

**HYDRATES**

For chemical compounds or minerals.

NT1 gas hydrates

NT1 unh

RT water

**HYDRATION**

Addition of water; for addition of hydrogen use HYDROGENATION.

UF hydratation

UF hydrated electrons

BT1 solvation

**HYDRAULIC ACCUMULATORS**

INIS: 2000-04-12; ETDE: 1979-08-07

Devices that store potential energy by accumulating a quantity of pressurized hydraulic fluid in a pressure vessel.

BT1 mechanical energy storage equipment

\*BT1 tanks

RT energy storage

RT hydraulic equipment

RT hydraulics

**HYDRAULIC CONDUCTIVITY**

INIS: 1983-06-30; ETDE: 1982-03-10

Rate of water flow through porous rock, soil, etc.

UF meinzer unit

UF permeability coefficient (fluid mechanics)

RT fluid mechanics

RT ground water

RT hydrology

RT liquid flow

RT underground disposal

**HYDRAULIC CONTROL DEVICES**

\*BT1 control equipment

\*BT1 hydraulic equipment

RT hydraulics

RT remote control

**HYDRAULIC EQUIPMENT**

INIS: 1986-07-09; ETDE: 1977-01-28

BT1 equipment

NT1 hydraulic control devices

RT hydraulic accumulators

RT hydraulic fluids

RT hydraulics

RT natural gas wells

RT petroleum

RT well completion

RT well drilling

**HYDRAULIC FLUIDS**

INIS: 1992-03-05; ETDE: 1981-11-24

\*BT1 working fluids

RT hydraulic equipment

**HYDRAULIC FRACTURES**

INIS: 1992-05-12; ETDE: 1980-07-09

\*BT1 fractures

RT cracks

RT fracturing fluids

RT hot-dry-rock systems

RT hydraulic fracturing

**HYDRAULIC FRACTURING**

1975-12-09

Fracturing of deep rock strata by hydraulic pressure, frequently for the deposition of radioactive wastes.

BT1 fracturing

RT fluid injection

RT fractures

RT fracturing fluids

RT hydraulic fractures

RT waste disposal

RT well stimulation

**hydraulic fracturing fluids**

INIS: 2000-04-12; ETDE: 1982-10-05

USE fracturing fluids

**HYDRAULIC MINING**

INIS: 2000-04-12; ETDE: 1977-05-07

BT1 mining

RT auger mining

RT longwall mining

RT mining engineering

**hydraulic rams**

INIS: 2000-04-12; ETDE: 1977-01-10

USE pumps

**HYDRAULIC TRANSPORT**

INIS: 1984-02-22; ETDE: 1976-08-24

BT1 transport

RT hydraulics

RT materials handling

RT pipelines

RT slurries

RT slurry pipelines

**HYDRAULIC TURBINES**

INIS: 1992-02-19; ETDE: 1976-11-17

Machines which convert the energy of an elevated water supply into mechanical energy of a rotating shaft.

\*BT1 turbines

NT1 pump turbines

RT hydraulics

RT penstocks

RT turbogenerators

RT water wheels

**HYDRAULICS**

\*BT1 fluid mechanics

NT1 thermal hydraulics

RT flow rate

RT fluid flow

RT friction factor

RT hydraulic accumulators

RT hydraulic control devices

RT hydraulic equipment

RT hydraulic transport

RT hydraulic turbines

RT hydrodynamics

RT penstocks

RT pneumatics

RT solids flow

RT surges

RT water hammer

**HYDRAZIDES**

\*BT1 organic nitrogen compounds

NT1 isoniazid

RT hydrazine

RT organic acids

**HYDRAZINE**

1996-07-08

BT1 nitrogen compounds

RT dpqh

RT hydrazides

RT hydrazones

**HYDRAZINE FUEL CELLS**

2000-04-12

\*BT1 fuel cells

**HYDRAZOIC ACID**

INIS: 1988-06-22; ETDE: 1977-04-12

UF azomide

\*BT1 inorganic acids

RT azides

**HYDRAZONES**

\*BT1 organic nitrogen compounds

RT aldehydes

RT hydrazine

RT ketones

**HYDRIDATION**

BT1 chemical reactions

RT dehydridation

RT hydrides

RT hydrogen

RT hydrogen embrittlement

**HYDRIDE MODERATED REACTORS**

BT1 reactors

NT1 acpr reactor

NT1 anex reactor

NT1 nsrr reactor

NT1 stir reactor

NT1 szi type reactors

NT2 knk-2 reactor

NT2 knk reactor

NT1 topaz reactor

NT1 triga type reactors

NT2 afri reactor

NT2 atrp reactor

NT2 colorado triga-mk-3 reactor

NT2 cornell triga-mk-2 reactor

NT2 dow triga-mk-1 reactor

NT2 fir-1 reactor

NT2 fir-2 reactor

NT2 fir reactor

NT2 gulf triga-mk-3 reactor

NT2 kartini-ppny reactor

NT2 lopra reactor

NT2 nscr reactor

NT2 ostr reactor

NT2 ppr reactor

NT2 psbr reactor

NT2 rtp reactor  
 NT2 trico ii reactor  
 NT2 trico reactor  
 NT2 triga-1-arizona reactor  
 NT2 triga-1-california reactor  
 NT2 triga-1-hanford reactor  
 NT2 triga-1-hanover reactor  
 NT2 triga-1-heidelberg reactor  
 NT2 triga-1-michigan reactor  
 NT2 triga-1-michigan reactor  
 NT2 triga-2-bandung reactor  
 NT2 triga-2-bangladesh reactor  
 NT2 triga-2-dalat reactor  
 NT2 triga-2-illinois reactor  
 NT2 triga-2-kansas reactor  
 NT2 triga-2-ljubljana reactor  
 NT2 triga-2-mainz reactor  
 NT2 triga-2-musashi reactor  
 NT2 triga-2-pavia reactor  
 NT2 triga-2-pitesti reactor  
 NT2 triga-2-reaktor  
 NT2 triga-2-rikkyo reactor  
 NT2 triga-2-rome reactor  
 NT2 triga-2-seoul reactor  
 NT2 triga-2-vienna reactor  
 NT2 triga-3-la jolla reactor  
 NT2 triga-3-munich reactor  
 NT2 triga-3-salazar reactor  
 NT2 triga-3-seoul reactor  
 NT2 triga-brazil reactor  
 NT2 triga-texas reactor  
 NT2 triga-veterans reactor  
 NT2 ucbr reactor  
 NT2 uwnr reactor  
 NT2 wsur reactor  
 NT1 xma-1 reactor  
 RT hydride moderators

**HYDRIDE MODERATORS**

BT1 moderators  
 RT hydride moderated reactors  
 RT hydrides  
 RT szt type reactors  
 RT topaz reactor  
 RT zirconium hydrides

**HYDRIDES**

1997-06-17

BT1 hydrogen compounds  
 NT1 actinium hydrides  
 NT1 aluminium hydrides  
 NT1 americium hydrides  
 NT1 antimony hydrides  
 NT1 argon hydrides  
 NT1 arsenic hydrides  
 NT1 barium hydrides  
 NT1 berkelium hydrides  
 NT1 beryllium hydrides  
 NT1 bismuth hydrides  
 NT1 boranes  
 NT1 boron hydrides  
 NT1 calcium hydrides  
 NT1 cerium hydrides  
 NT1 cesium hydrides  
 NT1 chromium hydrides  
 NT1 cobalt hydrides  
 NT1 copper hydrides  
 NT1 curium hydrides  
 NT1 dysprosium hydrides  
 NT1 erbium hydrides  
 NT1 europium hydrides  
 NT1 gadolinium hydrides  
 NT1 germanium hydrides  
 NT1 gold hydrides  
 NT1 hafnium hydrides  
 NT1 helium hydrides  
 NT1 holmium hydrides  
 NT1 indium hydrides  
 NT1 iridium hydrides  
 NT1 iron hydrides  
 NT1 krypton hydrides

NT1 lanthanum hydrides  
 NT1 lead hydrides  
 NT1 lithium hydrides  
 NT2 lithium deuterides  
 NT2 lithium tritides  
 NT1 lutetium hydrides  
 NT1 magnesium hydrides  
 NT1 manganese hydrides  
 NT1 mercury hydrides  
 NT1 molybdenum hydrides  
 NT1 neodymium hydrides  
 NT1 neon hydrides  
 NT1 neptunium hydrides  
 NT1 nickel hydrides  
 NT1 niobium hydrides  
 NT1 nitrogen hydrides  
 NT2 ammonia  
 NT1 palladium hydrides  
 NT1 phosphorus hydrides  
 NT1 platinum hydrides  
 NT1 plutonium hydrides  
 NT1 potassium hydrides  
 NT1 praseodymium hydrides  
 NT1 protactinium hydrides  
 NT1 rhenium hydrides  
 NT1 rhodium hydrides  
 NT1 rubidium hydrides  
 NT1 ruthenium hydrides  
 NT1 samarium hydrides  
 NT1 scandium hydrides  
 NT1 selenium hydrides  
 NT1 silanes  
 NT1 silver hydrides  
 NT1 sodium hydrides  
 NT1 strontium hydrides  
 NT1 tantalum hydrides  
 NT1 technetium hydrides  
 NT1 tellurium hydrides  
 NT1 terbium hydrides  
 NT1 thallium hydrides  
 NT1 thorium hydrides  
 NT1 thulium hydrides  
 NT1 tin hydrides  
 NT1 titanium hydrides  
 NT1 tungsten hydrides  
 NT1 uranium hydrides  
 NT1 vanadium hydrides  
 NT1 xenon hydrides  
 NT1 ytterbium hydrides  
 NT1 yttrium hydrides  
 NT1 zinc hydrides  
 NT1 zirconium hydrides  
 RT hydridation  
 RT hydride moderators  
 RT hydrogen additions  
 RT hydrogen storage

**HYDRIODIC ACID**

*Prior to August 2012 the concept 'hydrogen iodides' was indexed here*

\*BT1 inorganic acids  
 \*BT1 iodine compounds  
 RT hydrogen iodides

**HYDRO-LYASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 4.2.1.

\*BT1 carbon-oxygen lyases  
 NT1 carbonic anhydrase

**HYDROAROMATICS**

INIS: 2000-04-12; ETDE: 1991-08-27

UF naphthenes  
 BT1 organic compounds  
 NT1 tetralin  
 RT aromatics  
 RT redox reactions

**HYDROBROMIC ACID**

*Prior to August 2012 the concept "hydrogen bromides" was indexed here.*

\*BT1 bromine compounds  
 \*BT1 inorganic acids  
 RT hydrogen bromides

**HYDROCARBON FUEL CELLS**

1992-05-20

\*BT1 fuel cells

**hydrocarbon logging**

INIS: 2000-04-12; ETDE: 1979-03-27

USE gas meters  
 USE well logging

**HYDROCARBONS**

1996-10-22

BT1 organic compounds

NT1 alkanes

NT2 2-2-dimethylpropane

NT2 2-methylbutane

NT2 2-methylpropane

NT2 butane

NT2 cycloalkanes

NT3 cyclohexane

NT3 decalin

NT2 decane

NT2 dodecane

NT2 ethane

NT2 heptane

NT2 hexadecane

NT2 hexane

NT2 methane

NT2 octane

NT2 paraffin

NT2 pentane

NT2 propane

NT2 squalane

NT1 alkenes

NT2 2-methylpropene

NT2 butenes

NT2 cycloalkenes

NT3 cyclopentadiene

NT3 norbornadiene

NT3 quadricyclene

NT2 ethylene

NT2 heptenes

NT2 hexenes

NT2 octenes

NT2 pentenes

NT2 propylene

NT1 alkynes

NT2 acetylene

NT2 cycloalkynes

NT2 propyne

NT1 aromatics

NT2 acetophenone

NT2 alkylated aromatics

NT3 cumene

NT3 cymene

NT3 durene

NT3 mesitylene

NT3 methyl-naphthalenes

NT3 styrene

NT3 toluene

NT3 xylenes

NT4 xylene-para

NT2 aniline

NT2 azaarenes

NT3 acridines

NT4 acridine orange

NT4 flavines

NT5 acriflavine

NT5 proflavine

NT3 carbazoles

NT3 indoles

NT4 indigo

NT4 indocyanine green

NT4 lysergic acid

NT4 reserpine  
 NT4 strychnine  
 NT4 tryptamines  
 NT5 melatonin  
 NT5 serotonin  
 NT6 bufotenine  
 NT4 tryptophan  
 NT4 vinblastine  
 NT3 phenanthrolines  
 NT4 ferroin  
 NT4 phenanthroline-ortho  
 NT3 pteridines  
 NT4 aminopterin  
 NT4 folic acid  
 NT3 purines  
 NT4 adenines  
 NT5 kinetin  
 NT4 guanine  
 NT4 guanosine  
 NT4 hypoxanthine  
 NT4 inosine  
 NT4 mercaptopurine  
 NT4 xanthines  
 NT5 caffeine  
 NT5 theobromine  
 NT5 theophylline  
 NT5 uric acid  
 NT3 quinolines  
 NT4 ferron  
 NT4 oxine  
 NT4 quinaldine  
 NT2 benzene  
 NT2 benzidine  
 NT2 benzyl alcohol  
 NT2 bibenzyl  
 NT2 biphenyl  
 NT2 ddt  
 NT2 divinylbenzene  
 NT2 halogenated aromatic hydrocarbons  
 NT3 brominated aromatic hydrocarbons  
 NT3 chlorinated aromatic hydrocarbons  
 NT4 aldrin  
 NT4 polychlorinated biphenyls  
 NT3 fluorinated aromatic hydrocarbons  
 NT3 iodinated aromatic hydrocarbons  
 NT2 indan  
 NT2 methyl tyrosine  
 NT2 oligophenylenes  
 NT2 pethidine  
 NT2 phenols  
 NT3 cresols  
 NT3 dinitrophenol  
 NT3 eriochrome dyes  
 NT3 hydroxypropiophenone  
 NT3 naphthols  
 NT4 1-nitroso-2-naphthol  
 NT4 nitroso-r salt  
 NT4 pyridylazonaphthol  
 NT4 thorin  
 NT4 trypan blue  
 NT3 nitrophenol  
 NT3 phenol  
 NT3 phenolphthalein  
 NT3 picric acid  
 NT3 polyphenols  
 NT4 arsenazo  
 NT4 bromosulphophthalein  
 NT4 catecholamines  
 NT4 curcumin  
 NT4 dopamine  
 NT4 fluorescein  
 NT5 erythrosine  
 NT4 hematoxylin  
 NT4 morin  
 NT4 pyridylazoresorcinol  
 NT4 pyrocatechol

NT4 pyrogallol  
 NT4 quercetin  
 NT4 resorcinol  
 NT4 stilbestrol  
 NT4 tannic acid  
 NT4 tiron  
 NT3 thymol  
 NT3 tyramine  
 NT3 xylenols  
 NT2 phenylalanine  
 NT2 polycyclic aromatic hydrocarbons  
 NT3 3-methylcholanthrene  
 NT3 acenaphthene  
 NT3 anthracene  
 NT3 azulene  
 NT3 benzanthracene  
 NT3 benzopyrene  
 NT3 calixarenes  
 NT3 cholanthrene  
 NT3 chrysene  
 NT3 dimethylbenzanthracene  
 NT3 fluorene  
 NT3 indene  
 NT3 indocyanine green  
 NT3 methylnaphthalenes  
 NT3 naphthalene  
 NT3 pentacene  
 NT3 perylene  
 NT3 phenanthrene  
 NT3 polyphenyls  
 NT4 terphenyls  
 NT5 terphenyl-ortho  
 NT5 terphenyl-para  
 NT3 pyrene  
 NT3 quaterphenyls  
 NT3 tetracene  
 NT3 triphenylene  
 NT2 quinones  
 NT3 anthraquinones  
 NT4 alizarin  
 NT4 carminic acid  
 NT4 quinizarin  
 NT3 benzoquinones  
 NT4 chloranil  
 NT4 chloranilic acid  
 NT4 plastoquinone  
 NT4 ubiquinone  
 NT3 rhodizonic acid  
 NT3 vitamin k  
 NT2 stilbene  
 NT2 tetralin  
 NT2 tolan  
 NT2 triphenylmethane dyes  
 NT3 methyl violet  
 NT3 methylthymol blue  
 NT1 carotenoids  
 NT1 polyenes  
 NT2 dienes  
 NT3 allene  
 NT3 butadiene  
 NT3 cyclopentadiene  
 NT3 ferrocene  
 NT3 isoprene  
 NT3 pentadienes  
 NT2 polyacetylenes  
 NT2 squalene  
 RT bromoform  
 RT fischer-tropsch synthesis  
 RT fish oil  
 RT fluidized bed hydrogenation process  
 RT fluorofom  
 RT freons  
 RT iodoform  
 RT meadow foam  
 RT oils  
 RT partial oxidation processes  
 RT petroleum  
 RT refrigerants  
 RT shell gasification process

RT turpentine

## hydrocephalus

USE malformations

## HYDROCHLORIC ACID

*Prior to August 2012 the concept "hydrogen chlorides" was indexed here.*

\*BT1 chlorine compounds

\*BT1 inorganic acids

RT aqua regia

RT hydrogen chlorides

## HYDROCORTISONE

UF cortisol

\*BT1 glucocorticoids

## HYDROCRACKING

2000-05-08

\*BT1 cracking

RT catalytic cracking

RT thermal cracking

## HYDROCYANIC ACID

*Prior to August 2012 the concept 'hydrogen cyanides' was indexed here*

\*BT1 inorganic acids

RT hydrogen cyanides

## hydrocyclones

INIS: 2000-04-12; ETDE: 1978-07-27

USE cyclone separators

## HYDRODYNAMIC MASS EFFECT

INIS: 1976-03-17; ETDE: 1976-08-24

*A virtual increase of the mass of solids when vibrating in fluids.*

UF added mass effect

UF virtual mass effect

RT damping

RT eigenfrequency

RT hydrodynamics

RT mechanical vibrations

## HYDRODYNAMIC MODEL

*A model for particle production in high-energy collisions that applies relativistic hydrodynamics to the coalesced hadronic matter.*

\*BT1 thermodynamic model

RT nuclear models

RT particle production

## HYDRODYNAMICS

\*BT1 fluid mechanics

NT1 electrohydrodynamics

NT1 magnetohydrodynamics

RT counterflow systems

RT crossflow systems

RT fluid flow

RT flute instability

RT hydraulics

RT hydrodynamic mass effect

RT liquid flow

RT rayleigh-taylor instability

RT working fluids

## HYDROELECTRIC POWER

UF hydroelectricity

\*BT1 electric power

\*BT1 renewable energy sources

RT grand river

RT hydroelectric power plants

RT pumped storage power plants

## HYDROELECTRIC POWER PLANTS

1997-10-03

BT1 power plants

NT1 high-head hydroelectric power plants

NT1 low-head hydroelectric power plants

NT1 medium-head hydroelectric power plants



- NT1** micro-scale hydroelectric power plants  
**NT1** pumped storage power plants  
**NT1** small-scale hydroelectric power plants  
*RT* altamaha river  
*RT* au sable river  
*RT* dams  
*RT* fish passage facilities  
*RT* flood control  
*RT* hydroelectric power  
*RT* lewis river  
*RT* little tennessee river  
*RT* menominee river  
*RT* peaking power plants  
*RT* penstocks  
*RT* pumped storage  
*RT* saginaw river  
*RT* skagit river  
*RT* spillways  
*RT* turbines  
*RT* water wheels

**hydroelectricity**

USE hydroelectric power

**HYDROFLUORIC ACID**

*Prior to August 2012 the concept 'hydrogen fluorides' was indexed here*

- \*BT1 fluorine compounds  
 \*BT1 inorganic acids  
*RT* hydrogen fluorides

**hydroformylation**

*INIS: 2000-04-12; ETDE: 1983-06-20*

USE carbonylation

**HYDROGELS**

2006-02-06

*Two-phase colloidal systems in which the disperse phase (particles) has combined with water.*

- \*BT1 gels  
*RT* polymers  
*RT* water

**HYDROGEN**

- \*BT1 nonmetals  
*RT* balmer lines  
*RT* cryogenic fluids  
*RT* dehydration  
*RT* h1 regions  
*RT* hydridation  
*RT* hydrogen-based economy  
*RT* hydrogen embrittlement  
*RT* hydrogen fuels  
*RT* hydrogen meters  
*RT* hydrogen production  
*RT* hydrogen storage  
*RT* lyman lines

**HYDROGEN 1**

- UF protium*  
 \*BT1 hydrogen isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes  
*RT* hydrogen deuteride

**HYDROGEN 1 MINUS BEAMS**

*INIS: 1978-08-14; ETDE: 1978-10-19*

- UF hydrogen minus 1 beams*  
 \*BT1 ion beams

**HYDROGEN 1 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**hydrogen 2**

USE deuterium

**hydrogen 3**

USE tritium

**HYDROGEN 4**

- \*BT1 hydrogen isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei

**HYDROGEN 5**

- \*BT1 hydrogen isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**HYDROGEN 6**

- \*BT1 hydrogen isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei

**HYDROGEN 7**

- \*BT1 hydrogen isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**HYDROGEN ADDITIONS**

*RT* hydrides

**HYDROGEN-BASED ECONOMY**

2000-04-12

*Energy industry based on hydrogen for energy storage, distribution, and utilization.*

- RT* hydrogen  
*RT* hydrogen storage  
*RT* industry

**HYDROGEN BROMIDES**

*Till August 2012 HYDROBROMIC ACID was used for this concept*

- \*BT1 bromides  
 \*BT1 hydrogen halides  
*RT* hydrobromic acid

**HYDROGEN BURNING**

*INIS: 1978-11-24; ETDE: 1980-07-23*

*Astrophysical processes only.*

- UF pp chain*  
*UF proton-proton cycle*  
 BT1 star burning  
*RT* main sequence stars  
*RT* nucleosynthesis  
*RT* star evolution  
*RT* star models

**HYDROGEN CHLORIDES**

*Till August 2012 HYDROCHLORIC ACID*

*was used for this concept*

- \*BT1 chlorides  
 \*BT1 hydrogen halides  
*RT* hydrochloric acid

**HYDROGEN COMPLEXES**

BT1 complexes

**HYDROGEN COMPOUNDS**

- NT1** borohydrides  
**NT2** uranium borohydrides  
**NT1** deuterium compounds  
**NT2** deuterides  
**NT3** hydrogen deuteride  
**NT3** lithium deuterides  
**NT2** deuterium tritide  
**NT2** heavy water  
**NT1** hydrides  
**NT2** actinium hydrides  
**NT2** aluminium hydrides  
**NT2** americium hydrides  
**NT2** antimony hydrides  
**NT2** argon hydrides  
**NT2** arsenic hydrides  
**NT2** barium hydrides  
**NT2** berkelium hydrides  
**NT2** beryllium hydrides  
**NT2** bismuth hydrides

- NT2** boranes  
**NT2** boron hydrides  
**NT2** calcium hydrides  
**NT2** cerium hydrides  
**NT2** cesium hydrides  
**NT2** chromium hydrides  
**NT2** cobalt hydrides  
**NT2** copper hydrides  
**NT2** curium hydrides  
**NT2** dysprosium hydrides  
**NT2** erbium hydrides  
**NT2** europium hydrides  
**NT2** gadolinium hydrides  
**NT2** germanium hydrides  
**NT2** gold hydrides  
**NT2** hafnium hydrides  
**NT2** helium hydrides  
**NT2** holmium hydrides  
**NT2** indium hydrides  
**NT2** iridium hydrides  
**NT2** iron hydrides  
**NT2** krypton hydrides  
**NT2** lanthanum hydrides  
**NT2** lead hydrides  
**NT2** lithium hydrides  
**NT3** lithium deuterides  
**NT3** lithium tritides  
**NT2** lutetium hydrides  
**NT2** magnesium hydrides  
**NT2** manganese hydrides  
**NT2** mercury hydrides  
**NT2** molybdenum hydrides  
**NT2** neodymium hydrides  
**NT2** neon hydrides  
**NT2** neptunium hydrides  
**NT2** nickel hydrides  
**NT2** niobium hydrides  
**NT2** nitrogen hydrides  
**NT3** ammonia  
**NT2** palladium hydrides  
**NT2** phosphorus hydrides  
**NT2** platinum hydrides  
**NT2** plutonium hydrides  
**NT2** potassium hydrides  
**NT2** praseodymium hydrides  
**NT2** protactinium hydrides  
**NT2** rhenium hydrides  
**NT2** rhodium hydrides  
**NT2** rubidium hydrides  
**NT2** ruthenium hydrides  
**NT2** samarium hydrides  
**NT2** scandium hydrides  
**NT2** selenium hydrides  
**NT2** silanes  
**NT2** silver hydrides  
**NT2** sodium hydrides  
**NT2** strontium hydrides  
**NT2** tantalum hydrides  
**NT2** technetium hydrides  
**NT2** tellurium hydrides  
**NT2** terbium hydrides  
**NT2** thallium hydrides  
**NT2** thorium hydrides  
**NT2** thulium hydrides  
**NT2** tin hydrides  
**NT2** titanium hydrides  
**NT2** tungsten hydrides  
**NT2** uranium hydrides  
**NT2** vanadium hydrides  
**NT2** xenon hydrides  
**NT2** ytterbium hydrides  
**NT2** yttrium hydrides  
**NT2** zinc hydrides  
**NT2** zirconium hydrides  
**NT1** hydrogen cyanides  
**NT1** hydrogen halides  
**NT2** hydrogen bromides  
**NT2** hydrogen chlorides  
**NT2** hydrogen fluorides

NT2 hydrogen iodides  
 NT1 hydrogen nitrates  
 NT1 hydrogen peroxide  
 NT1 hydrogen phosphates  
 NT1 hydrogen silicates  
 NT1 hydrogen sulfates  
 NT1 hydrogen sulfides  
 NT1 hydroxides  
 NT2 actinium hydroxides  
 NT2 aluminium hydroxides  
 NT2 americium hydroxides  
 NT2 ammonium hydroxides  
 NT2 antimony hydroxides  
 NT2 barium hydroxides  
 NT2 beryllium hydroxides  
 NT2 bismuth hydroxides  
 NT2 boron hydroxides  
 NT2 cadmium hydroxides  
 NT2 calcium hydroxides  
 NT2 cerium hydroxides  
 NT2 cesium hydroxides  
 NT2 chromium hydroxides  
 NT2 cobalt hydroxides  
 NT2 copper hydroxides  
 NT2 curium hydroxides  
 NT2 dysprosium hydroxides  
 NT2 erbium hydroxides  
 NT2 europium hydroxides  
 NT2 gadolinium hydroxides  
 NT2 gallium hydroxides  
 NT2 germanium hydroxides  
 NT2 hafnium hydroxides  
 NT2 helium hydroxides  
 NT2 holmium hydroxides  
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 NT2 neodymium hydroxides  
 NT2 neptunium hydroxides  
 NT2 nickel hydroxides  
 NT2 niobium hydroxides  
 NT2 palladium hydroxides  
 NT2 platinum hydroxides  
 NT2 plutonium hydroxides  
 NT2 potassium hydroxides  
 NT2 praseodymium hydroxides  
 NT2 promethium hydroxides  
 NT2 protactinium hydroxides  
 NT2 rhenium hydroxides  
 NT2 rhodium hydroxides  
 NT2 rubidium hydroxides  
 NT2 ruthenium hydroxides  
 NT2 samarium hydroxides  
 NT2 scandium hydroxides  
 NT2 silicon hydroxides  
 NT2 silver hydroxides  
 NT2 sodium hydroxides  
 NT2 strontium hydroxides  
 NT2 tantalum hydroxides  
 NT2 tellurium hydroxides  
 NT2 terbium hydroxides  
 NT2 thallium hydroxides  
 NT2 thorium hydroxides  
 NT2 thulium hydroxides  
 NT2 tin hydroxides  
 NT2 titanium hydroxides  
 NT2 tungsten hydroxides  
 NT2 uranium hydroxides  
 NT2 vanadium hydroxides  
 NT2 ytterbium hydroxides  
 NT2 yttrium hydroxides  
 NT2 zinc hydroxides  
 NT2 zirconium hydroxides

NT1 inorganic acids  
 NT2 boric acid  
 NT2 broensted acids  
 NT2 bromic acid  
 NT2 carbonic acid  
 NT2 chloric acid  
 NT2 chlorous acid  
 NT2 chromic acid  
 NT2 fluoroboric acid  
 NT2 hydrazoic acid  
 NT2 hydroiodic acid  
 NT2 hydrobromic acid  
 NT2 hydrochloric acid  
 NT2 hydrocyanic acid  
 NT2 hydrofluoric acid  
 NT2 hypochlorous acid  
 NT2 hypofluorous acid  
 NT2 hypoiodous acid  
 NT2 hypophosphorous acid  
 NT2 iodic acid  
 NT2 lewis acids  
 NT2 molybdic acid  
 NT2 molybdophosphoric acid  
 NT2 nitric acid  
 NT2 nitrous acid  
 NT2 perchloric acid  
 NT2 periodic acid  
 NT2 phosphoric acid  
 NT2 phosphorous acid  
 NT2 silicic acid  
 NT2 sulfamic acid  
 NT2 sulfuric acid  
 NT2 sulfurous acid  
 NT2 telluric acid  
 NT2 tungstophosphoric acid  
 NT1 tritium compounds  
 NT2 tritides  
 NT3 deuterium tritide  
 NT3 helium tritides  
 NT3 hydrogen tritide  
 NT3 lithium tritides  
 NT2 tritium oxides  
 NT1 water  
 NT2 drinking water  
 NT2 feedwater  
 NT2 fresh water  
 NT2 ground water  
 NT3 interstitial water  
 NT3 magmatic water  
 NT2 heavy water  
 NT2 hot water  
 NT2 rain water  
 NT3 throughfall  
 NT2 seawater  
 NT2 tritium oxides  
 NT2 waste water  
 NT3 shale tar water

## HYDROGEN COOLED REACTORS

\*BT1 gas cooled reactors  
 NT1 kiwi reactors  
 NT2 kiwi-tnt reactor  
 NT1 nerva reactor  
 NT1 nrx-a2 reactor  
 NT1 nrx-a3 reactor  
 NT1 nrx-a4-est reactor  
 NT1 nrx-a5 reactor  
 NT1 nrx-a6 reactor  
 NT1 pewee-1 reactor  
 NT1 pewee-2 reactor  
 NT1 pewee-3 reactor  
 NT1 pewee-4 reactor  
 NT1 phoebus-1a reactor  
 NT1 phoebus-1b reactor  
 NT1 phoebus-2a reactor  
 NT1 rover reactors  
 NT1 xe-prime reactor  
 RT nrx-a7 reactor  
 RT space propulsion reactors

RT xe-2 reactor

## HYDROGEN CYANIDES

INIS: 2000-04-12; ETDE: 1975-08-19  
 Till July 2012 HYDROCYANIC ACID was used for this concept  
 BT1 cyanides  
 BT1 hydrogen compounds  
 RT hydrocyanic acid

## HYDROGEN DEUTERIDE

1976-03-02  
 UF deuterium hydride  
 \*BT1 deuterides  
 RT deuterium  
 RT hydrogen 1

## hydrogen donor reactions

INIS: 1981-02-27; ETDE: 1978-10-23  
 USE hydrogen transfer

## HYDROGEN EMBRITTLEMENT

INIS: 1992-06-17; ETDE: 1980-06-06  
 A decrease in fracture strength of metals due to the incorporation of hydrogen in the metal lattice.  
 BT1 embrittlement  
 RT brittleness  
 RT fracture properties  
 RT hydridation  
 RT hydrogen  
 RT interstitial hydrogen generation

## HYDROGEN FLUORIDES

Till August 2012 HYDROFLUORIC ACID was used for this concept  
 \*BT1 fluorides  
 \*BT1 hydrogen halides  
 RT hydrofluoric acid

## HYDROGEN FUEL CELLS

1976-07-30  
 \*BT1 fuel cells

## HYDROGEN FUELS

1992-07-10  
 \*BT1 synthetic fuels  
 RT automotive fuels  
 RT hydrogen  
 RT jet engine fuels  
 RT slush

## hydrogen generation

INIS: 1990-12-15; ETDE: 1983-04-28  
 (Prior to December 1990, this was a valid descriptor.)  
 USE interstitial hydrogen generation

## HYDROGEN GENERATORS

2000-01-04  
 Devices for continuous production of small quantities of hydrogen.  
 BT1 gas generators  
 RT hydrogen production

## HYDROGEN HALIDES

2012-07-26  
 \*BT1 halides  
 BT1 hydrogen compounds  
 NT1 hydrogen bromides  
 NT1 hydrogen chlorides  
 NT1 hydrogen fluorides  
 NT1 hydrogen iodides

## hydrogen hydroxides

USE water

## HYDROGEN IODIDES

INIS: 2000-04-12; ETDE: 1983-02-09  
 Till August 2012 HYDRIOIC ACID was used for this concept  
 \*BT1 hydrogen halides  
 \*BT1 iodides

RT hydriodic acid

## HYDROGEN IONS

\*BT1 ions  
 NT1 hydrogen ions 1 minus  
 NT1 hydrogen ions 1 plus  
 NT1 hydrogen ions 2 plus  
 NT1 hydrogen ions 3 plus

## HYDROGEN IONS 1 MINUS

For monatomic negative hydrogen ions.

\*BT1 anions  
 \*BT1 hydrogen ions

## HYDROGEN IONS 1 PLUS

For monatomic positive hydrogen ions.

UF proton-atom collisions  
 UF proton-molecule collisions  
 \*BT1 cations  
 \*BT1 hydrogen ions  
 RT h2 regions  
 RT oxonium ions  
 RT protons

## HYDROGEN IONS 2 PLUS

For diatomic singly positive hydrogen ions.

\*BT1 cations  
 \*BT1 hydrogen ions  
 \*BT1 molecular ions

## HYDROGEN IONS 3 PLUS

For triatomic singly positive hydrogen ions.

\*BT1 cations  
 \*BT1 hydrogen ions  
 \*BT1 molecular ions

## HYDROGEN ISOTOPES

1999-07-16

BT1 isotopes  
 NT1 deuterium  
 NT1 hydrogen 1  
 NT1 hydrogen 4  
 NT1 hydrogen 5  
 NT1 hydrogen 6  
 NT1 hydrogen 7  
 NT1 tritium

## hydrogen logs

INIS: 2000-04-12; ETDE: 1979-03-27

SEE neutron-gamma logging  
 SEE neutron logging  
 SEE neutron-neutron logging

## HYDROGEN METERS

1977-10-17

\*BT1 meters  
 RT chemical analysis  
 RT hydrogen

## hydrogen minus 1 beams

INIS: 2000-04-12; ETDE: 1979-03-05

USE hydrogen 1 minus beams

## HYDROGEN NITRATES

Till July 2012 NITRIC ACID was used for this concept

BT1 hydrogen compounds  
 \*BT1 nitrates  
 RT nitric acid

## HYDROGEN PEROXIDE

BT1 hydrogen compounds  
 \*BT1 peroxides

## HYDROGEN PHOSPHATES

Till July 2012 PHOSPHORIC ACID was used for this concept

BT1 hydrogen compounds  
 \*BT1 phosphates  
 RT phosphoric acid

## HYDROGEN PRODUCTION

1994-10-13

For industrial hydrogen production only; see also INTERSTITIAL HYDROGEN GENERATION.

(Until October 1994 this concept was indexed to HYDROGEN and PRODUCTION.)

UF production (hydrogen)  
 RT autothermal reformer processes  
 RT biophotolysis  
 RT bosch process  
 RT hydrogen  
 RT hydrogen generators  
 RT partial oxidation processes  
 RT photoelectrolysis  
 RT reformer processes  
 RT steam-iron process  
 RT steam reformer processes  
 RT thermochemical processes  
 RT water gas processes

## hydrogen production rates

INIS: 2000-04-12; ETDE: 1979-09-26

USE interstitial hydrogen generation

## hydrogen selenides

INIS: 2000-04-12; ETDE: 1982-05-12

USE selenium hydrides

## HYDROGEN SILICATES

Till July 2012 SILICIC ACID was used for this concept

BT1 hydrogen compounds  
 \*BT1 silicates  
 RT silicic acid

## HYDROGEN STORAGE

1992-02-18

BT1 storage  
 RT chemisorption  
 RT cryogenics  
 RT energy storage  
 RT hydrides  
 RT hydrogen  
 RT hydrogen-based economy  
 RT tanks

## HYDROGEN SULFATES

Till July 2012 SULFURIC ACID was used for this concept

BT1 hydrogen compounds  
 \*BT1 sulfates  
 RT sulfuric acid

## HYDROGEN SULFIDES

UF sulfur hydrides  
 BT1 hydrogen compounds  
 \*BT1 sulfides  
 RT sour crudes

## HYDROGEN TRANSFER

INIS: 1981-02-27; ETDE: 1978-10-23

UF hydrogen donor reactions  
 RT charge exchange  
 RT chemical reactions  
 RT isotopic exchange  
 RT photochemical reactions

## HYDROGEN TRITIDE

INIS: 1976-07-06; ETDE: 1976-02-19

UF tritium hydride  
 \*BT1 tritides

## hydrogenase

1984-06-21

(Prior to July 1984 this was a valid descriptor, and older material is so indexed.)

USE hydrogenases

## HYDROGENASES

INIS: 1984-06-21; ETDE: 1981-01-12

Code number 1.12.

UF hydrogenase  
 \*BT1 oxidoreductases

## HYDROGENATION

BT1 chemical reactions  
 NT1 gulf hds process  
 RT clean coke process  
 RT cs-r process  
 RT dehydrogenation  
 RT deuteration  
 RT fischer-tropsch synthesis  
 RT flash hydrolysis process  
 RT lc-fining

## HYDROKINETIC POWER

2008-12-24

Electric power generated from moving water without dams or other structures typically used at conventional hydropower facilities; for the latter, use HYDROELECTRIC POWER.

\*BT1 electric power  
 \*BT1 renewable energy sources  
 RT water current power generators  
 RT water currents

## hydrokinetic power generators

2008-12-24

USE water current power generators

## HYDROLASES

Code number 3.

\*BT1 enzymes  
 NT1 acid anhydrases  
 NT2 gtp-ases  
 NT2 phosphohydrolases  
 NT3 atp-ase  
 NT1 esterases  
 NT2 carboxylesterases  
 NT3 cholinesterase  
 NT3 lipases  
 NT2 phosphatases  
 NT3 acid phosphatase  
 NT3 alkaline phosphatase  
 NT3 nucleotidases  
 NT2 phosphodiesterases  
 NT3 nucleases  
 NT4 dna-ase  
 NT5 endonucleases  
 NT4 rna-ase  
 NT1 glycosyl hydrolases  
 NT2 o-glycosyl hydrolases  
 NT3 amylase  
 NT3 cellulase  
 NT3 galactosidase  
 NT3 glucosidase  
 NT3 glucuronidase  
 NT3 hyaluronidase  
 NT3 lysozyme  
 NT3 xylanase  
 NT1 non-peptide c-n hydrolases  
 NT2 amidases  
 NT3 arginase  
 NT3 urease  
 NT2 amidinases  
 NT1 peptide hydrolases  
 NT2 acid proteinases  
 NT3 pepsin  
 NT2 aminopeptidases  
 NT2 carboxypeptidases  
 NT2 nonspecific peptidases  
 NT3 renin  
 NT3 urokinase  
 NT2 serine proteinases  
 NT3 chymotrypsin  
 NT3 fibrinolysin  
 NT3 kallikrein

- NT3 thrombin  
 NT3 trypsin  
 NT2 sh-proteinases  
 NT3 cathepsins  
 NT3 papain  
 NT3 streptococcal proteinase  
 RT enzymatic hydrolysis

**HYDROLOGY**

- RT aquifers  
 RT drainage  
 RT floods  
 RT fluid injection  
 RT ground water  
 RT hydraulic conductivity  
 RT lakes  
 RT piezometry  
 RT rivers  
 RT site characterization  
 RT surface waters  
 RT water influx  
 RT water springs  
 RT water tables

**HYDROLYSIS**

1997-06-17

- BT1 lysis  
 \*BT1 solvolysis  
 NT1 acid hydrolysis  
 NT1 alkaline hydrolysis  
 NT1 autohydrolysis  
 NT1 enzymatic hydrolysis  
 NT1 saccharification  
 NT1 saponification  
 RT esters

**HYDROMAGNETIC WAVES**

- UF *magneto hydrodynamic waves*  
 NT1 alfvén waves  
 NT1 magnetoacoustic waves  
 NT2 fast magnetoacoustic waves  
 RT magnetoacoustics  
 RT plasma surface waves  
 RT plasma waves  
 RT shock waves

**HYDROMETALLURGY**

- \*BT1 extractive metallurgy  
 RT leaching  
 RT precipitation  
 RT solvent extraction

**hydronium ions**

INIS: 2000-04-12; ETDE: 1977-08-24  
 USE oxonium ions

**HYDRONIUM RADICALS**

- BT1 radicals  
 RT water

**HYDROPEROXY RADICALS**

- HO2.  
 UF *ho2*  
 UF *perhydroxyl radical*  
 BT1 radicals

**HYDROPHYLIC POLYMERS**

2000-01-11

- \*BT1 gels  
 BT1 polymers  
 RT shielding materials  
 RT water

**HYDROPONIC CULTURE**

INIS: 1999-05-19; ETDE: 1976-05-13  
*Growing of plants in a nutrient solution with the mechanical support of an inert medium such as sand.*

- BT1 cultivation techniques  
 RT agriculture  
 RT aquaculture  
 RT crops

- RT greenhouses  
 RT plant growth

**HYDRORETORTING ASSAY**

INIS: 2000-04-12; ETDE: 1984-10-10

- RT oil shales  
 RT shale oil

**HYDROSPHERE**

- RT aquatic ecosystems  
 RT atmospheric precipitations  
 RT cryosphere  
 RT environment  
 RT glaciers  
 RT limnology  
 RT surface waters  
 RT water

**HYDROSTATIC BEARINGS**

INIS: 1978-08-14; ETDE: 1978-10-19

- BT1 bearings  
 RT liquids  
 RT lubrication

**HYDROSTATICS**

- RT fluid mechanics  
 RT pore pressure

**HYDROTHERMAL ALTERATION**

1994-10-13

*Alteration of rocks or minerals by the reaction of hydrothermal water with preexisting solid phases.*

(Until October 1994 this concept was indexed to METAMORPHISM.)

- BT1 metamorphism  
 RT hydrothermal stage  
 RT rock-fluid interactions

**hydrothermal convective systems**

INIS: 2000-04-12; ETDE: 1976-03-11

USE hydrothermal systems

**HYDROTHERMAL STAGE**

*That stage in the cooling of a magma containing volatiles during which the residual fluid is strongly enriched in water and other volatiles.*

- RT hydrothermal alteration  
 RT metamorphism

**HYDROTHERMAL SYNTHESIS**

INIS: 1999-03-09; ETDE: 1975-12-16

*Mineral synthesis in presence of water at elevated temperatures.*

- BT1 synthesis

**HYDROTHERMAL SYSTEMS**

1992-04-08

*Geothermal system where most of the heat is transferred by the convective circulation of water or steam.*

- UF *hydrothermal convective systems*  
 BT1 energy systems  
 BT1 geothermal systems  
 NT1 geothermal hot-water systems  
 NT1 vapor-dominated systems  
 RT fumaroles  
 RT geothermal fluids  
 RT geysers  
 RT hot springs  
 RT thermal springs  
 RT warm springs

**HYDROT HORITE**

2000-04-12

- \*BT1 silicate minerals  
 \*BT1 thorium minerals  
 RT thorium silicates

**HYDROTORTING PROCESS**

2000-04-12

*Finely crushed oil shale is retorted under high pressure in presence of hydrogen; process developed by Texaco.*

- RT oil shales  
 RT retorting

**HYDROXAMIC ACIDS**

- \*BT1 amines  
 \*BT1 hydroxy compounds  
 NT1 benzohydroxamic acid  
 RT organic acids

**HYDROXIDE MODERATORS**

- BT1 moderators  
 RT hydroxides

**HYDROXIDES**

1997-06-19

- UF *alkalis (hydroxides)*  
 UF *hydroxyl ions*  
 BT1 hydrogen compounds  
 BT1 oxygen compounds  
 NT1 actinium hydroxides  
 NT1 aluminium hydroxides  
 NT1 americium hydroxides  
 NT1 ammonium hydroxides  
 NT1 antimony hydroxides  
 NT1 barium hydroxides  
 NT1 beryllium hydroxides  
 NT1 bismuth hydroxides  
 NT1 boron hydroxides  
 NT1 cadmium hydroxides  
 NT1 calcium hydroxides  
 NT1 cerium hydroxides  
 NT1 cesium hydroxides  
 NT1 chromium hydroxides  
 NT1 cobalt hydroxides  
 NT1 copper hydroxides  
 NT1 curium hydroxides  
 NT1 dysprosium hydroxides  
 NT1 erbium hydroxides  
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 NT1 samarium hydroxides  
 NT1 scandium hydroxides  
 NT1 silicon hydroxides  
 NT1 silver hydroxides  
 NT1 sodium hydroxides  
 NT1 strontium hydroxides

NT1 tantalum hydroxides  
 NT1 tellurium hydroxides  
 NT1 terbium hydroxides  
 NT1 thallium hydroxides  
 NT1 thorium hydroxides  
 NT1 thulium hydroxides  
 NT1 tin hydroxides  
 NT1 titanium hydroxides  
 NT1 tungsten hydroxides  
 NT1 uranium hydroxides  
 NT1 vanadium hydroxides  
 NT1 ytterbium hydroxides  
 NT1 yttrium hydroxides  
 NT1 zinc hydroxides  
 NT1 zirconium hydroxides  
 RT bases  
 RT dawsonite  
 RT hydroxide moderators  
 RT hydroxyl radicals  
 RT hydroxylation

**HYDROXY ACIDS**

1996-10-23

For carboxylic acids only; for other acids see  
 HYDROXY COMPOUNDS coordinated with  
 the descriptor for the particular acid group,  
 e.g., SULFONIC ACIDS.

UF aluminon  
 UF aurintricarboxylic acid  
 UF chrome violet  
 UF melilotic acid  
 UF podophyllinic acid  
 UF trihydroxyglutaric acid  
 UF trioxyglutaric acid  
 \*BT1 carboxylic acids  
 NT1 acetylsalicylic acid  
 NT1 benzoic acid  
 NT1 carnitine  
 NT1 citric acid  
 NT1 diiodotyrosine  
 NT1 dopa  
 NT1 eddha  
 NT1 eosin  
 NT1 fluorescein  
 NT2 erythrosine  
 NT1 galacturonic acid  
 NT1 gallic acid  
 NT1 gibberellic acid  
 NT1 gluconic acid  
 NT1 glucuronic acid  
 NT1 glyceric acid  
 NT1 glycolic acid  
 NT1 hedta  
 NT1 heida  
 NT1 hydroxyproline  
 NT1 hydroxytryptophan  
 NT1 lactic acid  
 NT1 malic acid  
 NT1 mandelic acid  
 NT1 methyl tyrosine  
 NT1 mevalonic acid  
 NT1 pantothenic acid  
 NT1 rose bengal  
 NT1 salicylic acid  
 NT1 serine  
 NT1 shikimic acid  
 NT1 tartaric acid  
 NT1 threonine  
 NT1 thyronine  
 NT1 tyrosine  
 RT hydroxy compounds  
 RT lactones

**hydroxy-alpha-alanine-beta**

USE serine

**HYDROXY COMPOUNDS**

1996-10-23

For organic compounds only and excluding  
 saccharides, glycosides and hydroxy acids.

UF dianabol  
 UF kynurenic acid  
 UF pregnanediol  
 UF pregnanetriol  
 UF tmpn  
 BT1 organic compounds  
 NT1 alcohols  
 NT2 2-methylpropanol  
 NT2 benzhydrol  
 NT2 benzyl alcohol  
 NT2 butanols  
 NT2 choline  
 NT2 cyclohexanol  
 NT2 decanols  
 NT2 enols  
 NT2 erythritol  
 NT2 ethanol  
 NT3 bioethanol  
 NT4 cellulosic ethanol  
 NT2 glycerol  
 NT2 glycols  
 NT3 butanediols  
 NT3 cellosolves  
 NT3 egta  
 NT3 ethylene glycols  
 NT4 polyethylene glycols  
 NT5 carbowax  
 NT5 pluronics  
 NT3 pinacol  
 NT2 hexanols  
 NT2 methanol  
 NT2 metronidazole  
 NT2 misonidazole  
 NT2 octanols  
 NT2 pentanols  
 NT2 propanols  
 NT2 pva  
 NT1 alizarin  
 NT1 androsterone  
 NT1 bph  
 NT1 carminic acid  
 NT1 chromotropic acid  
 NT1 corticosteroids  
 NT2 glucocorticoids  
 NT3 corticosterone  
 NT3 cortisone  
 NT3 dexamethasone  
 NT3 hydrocortisone  
 NT3 prednisolone  
 NT3 prednisone  
 NT2 mineralocorticoids  
 NT3 aldosterone  
 NT1 cupferron  
 NT1 ephedrine  
 NT1 estradiol  
 NT2 fluoroestradiol  
 NT1 estriol  
 NT1 estrone  
 NT1 ferron  
 NT1 folic acid  
 NT1 guanine  
 NT1 hydroxamic acids  
 NT2 benzohydroxamic acid  
 NT1 hydroxyandrostenone  
 NT1 hydroxypregnenone  
 NT1 hydroxyurea  
 NT1 hypoxanthine  
 NT1 melanin  
 NT1 oximes  
 NT2 benzoinoxime  
 NT2 dimethylglyoxime  
 NT1 oxine  
 NT1 phenols  
 NT2 cresols  
 NT2 dinitrophenol

NT2 eriochrome dyes  
 NT2 hydroxypropionophenone  
 NT2 naphthols  
 NT3 1-nitroso-2-naphthol  
 NT3 nitroso-r salt  
 NT3 pyridylazonaphthol  
 NT3 thorin  
 NT3 trypan blue  
 NT2 nitrophenol  
 NT2 phenol  
 NT2 phenolphthalein  
 NT2 picric acid  
 NT2 polyphenols  
 NT3 arsenazo  
 NT3 bromosulphthalein  
 NT3 catecholamines  
 NT3 curcumin  
 NT3 dopamine  
 NT3 fluorescein  
 NT4 erythrosine  
 NT3 hematoxilin  
 NT3 morin  
 NT3 pyridylazoresorcinol  
 NT3 pyrocatechol  
 NT3 pyrogallol  
 NT3 quercetin  
 NT3 resorcinol  
 NT3 stilbestrol  
 NT3 tannic acid  
 NT3 tiron  
 NT2 thymol  
 NT2 tyramine  
 NT2 xylenols  
 NT1 pyridoxine  
 NT1 quinizarin  
 NT1 rhodizonic acid  
 NT1 serotonin  
 NT2 bufotenine  
 NT1 sterols  
 NT2 bile acids  
 NT3 cholic acid  
 NT2 cholesterol  
 NT2 ergosterol  
 NT2 sitosterol  
 NT1 testosterone  
 NT1 thiamine  
 NT1 uracils  
 NT2 bromouracils  
 NT3 budr  
 NT2 chlorouracils  
 NT2 deoxyuridine  
 NT2 fluorouracils  
 NT3 fudr  
 NT2 iodouracils  
 NT3 iododeoxyuridine  
 NT2 orotic acid  
 NT2 thiouracil  
 NT2 thymine  
 NT2 uridine  
 RT hydroxy acids  
 RT hydroxylation  
 RT inositols

**hydroxy-para-cymene**

USE thymol

**hydroxyacetic acid**

USE glycolic acid

**HYDROXYANDROSTENONE**

UF dehydroepiandrosterone

\*BT1 androgens

\*BT1 hydroxy compounds

\*BT1 ketones

**hydroxybenzene**

USE phenol

**hydroxybenzoic acid-ortho**

USE salicylic acid

**hydroxydiphenylacetic acid**

USE benzilic acid

**hydroxyethylethylenediaminetriacetic acid***Hydroxyethylethylenediaminetriacetic acid.*

USE hedta

**hydroxyethyliminodiacetic acid**

USE heida

**hydroxyl ions**

USE anions

USE hydroxides

**HYDROXYL RADICALS**

BT1 radicals

RT hydroxides

RT oxygen compounds

**HYDROXYLAMINE**

\*BT1 amines

RT oximes

**hydroxylase**

2000-04-12

(Prior to January 1981 this was a valid ETDE descriptor.)

USE hydroxylases

**HYDROXYLASES**

INIS: 1982-02-10; ETDE: 1981-01-12

(Prior to February 1982 HYDROXYLASE was a valid term, and older information is so indexed.)

UF hydroxylase

\*BT1 oxidoreductases

NT1 tyrosinase

**HYDROXYLATION**

INIS: 1977-07-05; ETDE: 1976-12-16

BT1 chemical reactions

RT hydroxides

RT hydroxy compounds

**hydroxynaphthalenes**

USE naphthols

**HYDROXYPREGNENONE**

UF pregnenolone

\*BT1 hydroxy compounds

\*BT1 ketones

\*BT1 pregnanes

RT progesterone

**HYDROXYPROLINE**

\*BT1 amino acids

\*BT1 heterocyclic acids

\*BT1 hydroxy acids

\*BT1 pyrrolidines

RT collagen

RT proline

**hydroxypropionic acid-alpha**

USE lactic acid

**HYDROXYPROPIOPHENONE**

ETDE: 2005-02-01

(Prior to January 2005 POP was used for this concept.)

UF paroxypropione

UF pop (paroxypropione)

\*BT1 ketones

\*BT1 phenols

**hydroxysuccinic acid**

USE malic acid

**hydroxytoluenes**

USE cresols

**HYDROXYTRYPTOPHAN**

\*BT1 amino acids

\*BT1 hydroxy acids

\*BT1 radioprotective substances

RT tryptophan

**HYDROXYUREA**

INIS: 2000-04-12; ETDE: 1976-03-11

\*BT1 amides

\*BT1 hydroxy compounds

**hydroxyxylenes**

2000-04-12

USE xylenols

**hyflex process**

INIS: 2000-04-12; ETDE: 1981-07-06

*In the HYFLEX process carbonaceous raw materials are concurrently heated with hydrogen or another gas in an entrained-flow reactor to pyrolysis temperatures, which produces a slate of products that can be varied by choosing different operating pressures and cracking severities.*

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**HYGAS PROCESS**

2000-04-12

*Institute of Gas Technology hydrogasification process for producing high-btu gas by slurring the coal with light oil and using a three-stage gasifier.*

UF igt hydrogasification process

\*BT1 coal gasification

BT1 sng processes

RT high btu gas

**HYGROMETRY**

(From November 1981 till March 1997

PSYCHROMETRY was a valid ETDE descriptor.)

UF psychrometry

RT humidity

RT moisture gages

**HYGROSCOPICITY**

RT adsorption

**HYLEMYA ANTIQUA**

\*BT1 flies

RT onions

**HYLIFE CONVERTER**

INIS: 1979-09-18; ETDE: 1979-01-30

*High Yield Lithium Injection Fusion Energy Converter.*

\*BT1 laser fusion reactors

**HYLLERAAS COORDINATES**

BT1 coordinates

RT quantum mechanics

**hylleraas-scherr-knight procedure**

1993-11-08

USE hsk procedure

**hymenolepis**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE cestodes

**HYMENOPTERA**

INIS: 1993-07-12; ETDE: 1981-06-16

\*BT1 insects

NT1 ants

NT1 bees

NT1 wasps

**hyoscyamine**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE alkaloids

**hypaque**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE amides

USE organic iodine compounds

USE sodium compounds

**HYPERBOLIC CONFIGURATION**

2004-09-09

BT1 configuration

**HYPERCHARGE**

BT1 particle properties

RT charm particles

RT gauge invariance

**HYPERCUBE COMPUTERS**

INIS: 1991-10-01; ETDE: 1987-10-22

*Computer architecture in which each processor has its own memory and is connected to a number of other processors.*

BT1 computers

RT array processors

RT supercomputers

**HYPERFINE STRUCTURE**

UF hfs

RT spectra

**hyperfragments**

USE hypernuclei

**HYPERGEOMETRIC FUNCTIONS**

BT1 functions

**HYPERGLYCEMIA**

RT saccharides

**HYPERNUCLEI**

UF hyperfragments

BT1 nuclear fragments

BT1 nuclei

RT hyperons

**HYPERON BEAMS**

1996-07-18

(Prior to March 1997 OMEGA PARTICLE BEAMS was a valid ETDE descriptor; prior to August 1996 XI PARTICLE BEAMS was a valid ETDE descriptor.)

UF omega particle beams

UF xi particle beams

\*BT1 particle beams

NT1 lambda particle beams

NT1 sigma particle beams

**HYPERON-HYPERON****INTERACTIONS**

\*BT1 baryon-baryon interactions

**HYPERON REACTIONS**

\*BT1 baryon reactions

**HYPERONS**

UF strange baryons

\*BT1 baryons

\*BT1 strange particles

NT1 antihyperons

NT2 antilambda particles

NT2 antiomega particles

NT2 antisigma particles

NT2 antixi particles

NT1 lambda baryons

NT2 lambda-1405 baryons

NT2 lambda-1520 baryons

NT2 lambda-1600 baryons

NT2 lambda-1670 baryons

NT2 lambda-1690 baryons

NT2 lambda-1800 baryons

NT2 lambda-1810 baryons

NT2 lambda-1820 baryons

- NT2 lambda-1830 baryons
- NT2 lambda-1890 baryons
- NT2 lambda-2100 baryons
- NT2 lambda-2110 baryons
- NT2 lambda particles
- NT3 antilambda particles
- NT1 lambda-n-2130 dibaryons
- NT1 omega baryons
- NT2 omega-2250 baryons
- NT2 omega particles
- NT3 antiomega particles
- NT3 omega minus particles
- NT1 sigma baryons
- NT2 sigma-1385 baryons
- NT2 sigma-1660 baryons
- NT2 sigma-1670 baryons
- NT2 sigma-1750 baryons
- NT2 sigma-1770 baryons
- NT2 sigma-1775 baryons
- NT2 sigma-1915 baryons
- NT2 sigma-1940 baryons
- NT2 sigma-2030 baryons
- NT2 sigma-2455 baryons
- NT2 sigma particles
- NT3 antisigma particles
- NT3 sigma minus particles
- NT3 sigma neutral particles
- NT3 sigma plus particles
- NT1 xi baryons
- NT2 xi-1530 baryons
- NT2 xi-1690 baryons
- NT2 xi-1820 baryons
- NT2 xi-1950 baryons
- NT2 xi-2030 baryons
- NT2 xi-2250 baryons
- NT2 xi-2500 baryons
- NT2 xi particles
- NT3 anti xi particles
- NT3 xi minus particles
- NT3 xi neutral particles
- NT1 z\*baryons
- RT hypernuclei

**HYPERPARATHYROIDISM**

1984-12-04

- \*BT1 endocrine diseases
- RT bone tissues
- RT calcium
- RT parathyroid glands

**HYPERSONIC FLOW**

- BT1 fluid flow

**HYPERTENSION**

- BT1 symptoms
- \*BT1 vascular diseases
- RT antihypertensive agents
- RT biological stress
- RT blood pressure

**HYPERTHERMIA**

INIS: 1981-08-18; ETDE: 1976-07-07

- BT1 body temperature
- RT fever
- RT heat stress
- RT hypothermia

**HYPERTHYROIDISM**

- UF basedow's disease
- UF thyrotoxicosis
- \*BT1 endocrine diseases
- RT antithyroid drugs
- RT goiter
- RT pbi
- RT thyroid hormones

**HYPERTONIC SOLUTIONS**

- \*BT1 solutions
- RT isotonic solutions
- RT osmosis

**HYPERTROPHY**

- BT1 pathological changes

**HYPNOTICS AND SEDATIVES**

- UF sedatives
- \*BT1 central nervous system depressants
- NT1 barbiturates
- NT2 nembital
- NT2 phenobarbital
- NT1 chlorpromazine
- NT1 codeine
- NT1 reserpine
- RT analgesics
- RT anesthetics
- RT narcotics
- RT sleep
- RT tranquilizers

**HYPOCENTERS**

INIS: 2000-04-12; ETDE: 1978-10-25

*Subterranean sources of earthquakes; also, centers of subterranean areas in which the energy of earthquakes is supposed to be concentrated.*

- RT earthquakes

**HYPOCHLOROUS ACID**

- \*BT1 chlorine compounds
- \*BT1 inorganic acids
- BT1 oxygen compounds

**HYPOFLUOROUS ACID**

INIS: 1994-03-15; ETDE: 1977-12-22

- \*BT1 fluorine compounds
- \*BT1 inorganic acids
- BT1 oxygen compounds

**HYPOIODOUS ACID**

INIS: 1980-12-01; ETDE: 1981-01-09

- \*BT1 inorganic acids
- \*BT1 iodine compounds
- BT1 oxygen compounds

**hypophosphites**

*Specific hypophosphites should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and HYPOPHOSPHOROUS ACID.*

- USE hypophosphorous acid

**HYPOPHOSPHOROUS ACID**

- UF hypophosphites
- \*BT1 inorganic acids
- BT1 oxygen compounds
- BT1 phosphorus compounds

**HYPOPHYSECTOMY**

- \*BT1 surgery
- RT hypothalamus
- RT pituitary gland
- RT pituitary hormones

**hypophysis**

- USE pituitary gland

**HYPOTENSION**

- RT biological stress
- RT blood pressure

**HYPOTHALAMUS**

- \*BT1 brain
- RT autonomic nervous system
- RT endocrine glands
- RT homeostasis
- RT hypophysectomy
- RT metabolism
- RT pituitary gland
- RT th

**HYPOTHERMIA**

- BT1 body temperature
- RT hibernation

- RT hyperthermia

**HYPOTHESIS**

- NT1 ergodic hypothesis
- NT1 limiting fragmentation
- NT1 mach principle
- NT1 negative mass
- RT comparative evaluations
- RT functional models
- RT hypothetical accidents
- RT mathematical models
- RT structural models

**HYPOTHETICAL ACCIDENTS**

2006-06-27

*For possible accidents which have not actually occurred. Coordinate with descriptor(s) for the specific accident, e.g.*

*LOSS OF FLOW, OIL SPILLS, if appropriate.*

- BT1 accidents
- RT hypothesis
- RT reactor accident simulation

**HYPOTHYROIDISM**

- UF myxedema
- \*BT1 endocrine diseases
- RT antithyroid drugs
- RT goiter
- RT pbi
- RT thyroid hormones

**HYPOXANTHINE**

- \*BT1 hydroxy compounds
- \*BT1 purines
- RT inosine
- RT nucleotides
- RT xanthines

**hypoxanthine guanine****phosphoribosyltransferase**

INIS: 2000-04-12; ETDE: 1981-06-13

- USE hypoxanthine phosphoribosyltransferase

**HYPOXANTHINE****PHOSPHORIBOSYLTRANSFERASE**

INIS: 2000-04-12; ETDE: 1981-06-13

- UF hypoxanthine guanine phosphoribosyltransferase
- \*BT1 pentosyl transferases

**hypoxia**

- USE anoxia

**HYSTERESIS**

- RT damping
- RT energy losses
- RT internal friction
- RT tolerance

**HYTORT PROCESS**

INIS: 2000-04-12; ETDE: 1979-08-07

*Direct, non-catalytic hydrogenation of kerogen at high pressures and controlled heat-up rates; developed by IGT.*

- RT black shales
- RT retorting

**HZ RANGE**

- BT1 frequency range

**i-beam type reactors**

INIS: 1982-11-30; ETDE: 1976-09-15

- USE ion beam fusion reactors

**I CENTERS**

*Interstitial halogen-ion centers.*

- \*BT1 color centers
- \*BT1 interstitials

**I CODES**

- BT1 computer codes

**I G PROCESS**

2000-04-12

\*BT1 coal gasification

**i-inositol**

USE inositol

**i-v characteristic**

INIS: 1984-01-18; ETDE: 2002-06-13

USE electric conductivity

**IAEA**

UF international atomic energy agency

BT1 international organizations

NT1 ictp

NT1 monaco marine environment laboratory

NT1 seibersdorf iaea laboratory

RT austria

RT canare

RT cenna

RT cscnd

RT iaea agreements

RT iaea safeguards

RT inis

RT international convention on nuclear safety

RT recommendations

RT united nations

**IAEA AGREEMENTS**

\*BT1 international agreements

RT iaea

RT legal aspects

**iaea marine environment laboratory,****monaco**

INIS: 2004-06-11; ETDE: 2004-07-08

USE monaco marine environment laboratory

**IAEA SAFEGUARDS**

BT1 safeguards

RT iaea

**iaea seibersdorf laboratory**

INIS: 1988-04-15; ETDE: 2002-06-13

USE seibersdorf iaea laboratory

**IAN**

INIS: 1987-05-26; ETDE: 1987-06-09

Instituto de Asuntos Nucleares, Bogota.

\*BT1 colombian organizations

**IAN-R1 REACTOR**

Institute of Nuclear Affairs, Bogota, Colombia.

UF instituto de asuntos nucleares r1

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**IANTHINITE**

2000-07-24

\*BT1 oxide minerals

\*BT1 uranium minerals

RT uranium oxides

**IBM COMPUTERS**

BT1 computers

**ibr-1 reactor**

1984-06-21

USE ifr reactor

**IBR-2 REACTOR**

1978-01-13

UF dubna ibr-2 reactor

UF dubna pulsed reactor

\*BT1 fast reactors

\*BT1 pulsed reactors

\*BT1 research reactors

**IBR-30 REACTOR**

Dubna, Russian Federation.

\*BT1 fast reactors

\*BT1 pulsed reactors

\*BT1 research reactors

**ICE**

NT1 frost

NT1 ice caps

NT1 icebergs

RT antarctic regions

RT arctic regions

RT cryosphere

RT defrosting

RT glaciers

RT hail

RT slush

RT snow

RT water

**ICE CAPS**

INIS: 1992-01-16; ETDE: 1986-07-25

Perennial cover of ice and snow on a land mass.

BT1 ice

RT antarctic regions

RT arctic regions

RT cryosphere

RT glaciers

RT icebergs

RT mountains

**ICE CONDENSERS**

1977-01-25

A steam condenser using ice as the heat sink.

Incorporated for example in the containment systems of McGuire, Watts Bar and other reactors.

UF condensers (using ice)

\*BT1 steam condensers

RT containment systems

RT cooling

RT reactor cooling systems

**ICEBERGS**

INIS: 1992-07-21; ETDE: 1979-08-07

BT1 ice

RT cryosphere

RT ice caps

**icebreaker arktika reactor**

INIS: 1984-08-27; ETDE: 1994-09-12

USE leonid brezhnev reactor

**icebreaker lenin reactor**

USE lenin reactor

**icebreaker leonid brezhnev reactor**

INIS: 1993-11-08; ETDE: 1994-09-12

USE leonid brezhnev reactor

**icebreaker sibir reactor**

INIS: 1985-09-09; ETDE: 2002-06-13

USE sibir reactor

**ICECUBE NEUTRINO DETECTOR**

2016-12-12

IceCube is a particle detector at the South

Pole

\*BT1 neutrino detectors

**ICELAND**

1997-06-17

BT1 developing countries

BT1 islands

\*BT1 western europe

RT atlantic ocean

RT krafla geothermal field

RT namafjall geothermal field

RT oecd

**ices**

INIS: 2000-04-12; ETDE: 1992-02-10

(Prior to February 1992, this was a valid ETDE descriptor.)

USE ices program

**ICES PROGRAM**

INIS: 2000-04-12; ETDE: 1977-06-30

Program to develop community-scale energy systems, integrating community design planning and energy technology concepts. (Prior to February 1992, this subject was indexed by ICES.)

UF ices

UF integrated community energy systems

BT1 energy systems

NT1 thermal transmission ices

RT communities

RT energy facilities

RT heating

RT integrated energy utility systems

RT modular integrated utility systems

RT total energy systems

**ICF DEVICES**

INIS: 1997-06-05; ETDE: 1984-10-24

UF inertial confinement fusion devices

BT1 thermonuclear devices

NT1 angara-5 device

RT aurora facility

RT cascade reactors

RT diode-pumped solid state lasers

RT electron beam fusion reactors

RT inertial confinement

RT ion beam fusion reactors

RT laser fusion reactors

RT us national ignition facility

**icf targets**

INIS: 1999-07-26; ETDE: 2002-06-13

SEE electron beam targets

SEE ion beam targets

SEE laser targets

**ICHTHAMMOL**

2000-04-12

A brownish black viscous liquid prepared from a distillate of bituminous schists by sulfonation followed by neutralization with ammonia. It is used as an antiseptic and emollient.

UF ichthyol

RT oil shales

RT shale oil

**ichthyol**

2000-04-12

USE ichthammol

**ICHTHYOPLANKTON**

INIS: 1993-06-02; ETDE: 1979-03-28

The microscopic free-floating eggs and larvae of fish.

\*BT1 plankton

RT anadromous fishes

RT eggs

RT fathead minnow

RT fishes

RT larvae



**ici process**

2000-04-12

Process for removing fly ash and sulfur dioxide from flue gases. It is a development of the holiden process and involves recovery of sulfur as liquefied sulfur dioxide or free sulfur. (Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**ICL COMPUTERS**

BT1 computers

**icns (international convention on nuclear safety)**

INIS: 1999-12-23; ETDE: 2005-01-28

(Prior to January 2005 ICNS was a valid descriptor.)

USE international convention on nuclear safety

**iconoscopes**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE camera tubes

**ICP MASS SPECTROSCOPY**

INIS: 1993-10-01; ETDE: 1993-11-08

Inductively Coupled Plasma mass spectroscopy.

\*BT1 mass spectroscopy  
RT chemical analysis  
RT mass spectra  
RT mass spectrometers  
RT resonance ionization mass spectroscopy

**icr**

INIS: 1983-12-01; ETDE: 1984-01-27

USE ion cyclotron-resonance

**ICR HEATING**

UF ion cyclotron-resonance heating

\*BT1 high-frequency heating

RT cyclotron radiation

RT ion cyclotron-resonance

**ICRP**

UF international commission radiological protection

BT1 international organizations

RT alara

RT cuex

RT icru

RT radiation protection

RT recommendations

RT reference man

**ICRP CRITICAL GROUP**

Out of a general population, the group of persons most highly exposed to radiation by virtue of their occupations, diets, habits, etc.

UF critical group (icrp)

RT body burden

RT diet

RT human populations

RT occupational exposure

RT occupations

RT radiation doses

RT radiation hazards

RT working conditions

**ICRU**

UF international commission on radiation units and measurements

BT1 international organizations

RT dosimetry

RT icrp

RT radiation dose units

RT recommendations

**icsd**

INIS: 1984-04-04; ETDE: 2002-06-13

Ionization chamber smoke detectors.

USE smoke detectors

**ICTP**

1979-11-02

International Centre for Theoretical Physics, Trieste.

UF international center for theoretical physics

\*BT1 iaea

**IDAHO**

1997-06-19

\*BT1 usa

RT columbia river basin

RT raft river valley

RT snake river plain

RT western us overthrust belt

RT yellowstone national park

**idaho advanced test reactor**

USE atr reactor

**IDAHO CHEMICAL PROCESSING PLANT**

\*BT1 fuel reprocessing plants

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

**idaho materials testing reactor**

USE mtr reactor

**idaho national engineering and environmental laboratory**

2005-05-18

USE idaho national laboratory

**idaho national engineering laboratory**

INIS: 1976-05-07; ETDE: 1975-12-16

Until 1976 known as NRTS and older material is so indexed.

USE idaho national laboratory

**IDAHO NATIONAL LABORATORY**

2011-06-01

(Formerly known as INEEL, Idaho National Engineering Laboratory, and NRTS)

UF idaho national engineering and environmental laboratory

UF idaho national engineering laboratory

UF ineel

UF inel

UF inl

UF national reactor testing station

UF nrts

\*BT1 us doe

**IDEAL FLOW**

1986-03-04

UF frictionless flow

UF inviscid flow

UF nonviscous flow

\*BT1 incompressible flow

\*BT1 steady flow

RT laminar flow

**IDENTIFICATION SYSTEMS**

INIS: 1985-12-10; ETDE: 1980-05-06

For persons or objects. Not for systems for PARTICLE IDENTIFICATION.

UF authentication

NT1 biometric authentication

RT control systems

RT data acquisition systems

RT entry control systems

RT nuclear materials management

RT pattern recognition

RT physical protection devices

RT safeguards

RT secrecy protection

RT security

**iea**

INIS: 1977-04-07; ETDE: 1976-05-17

USE international energy agency

**IEA-ZPR REACTOR**

Instituto de Energia Atomica, Sao Paulo, Brazil.

UF instituto de energia atomica zpr

UF sao paulo iea zero power reactor

\*BT1 graphite moderated reactors

\*BT1 helium cooled reactors

\*BT1 research reactors

\*BT1 zero power reactors

RT enriched uranium reactors

RT thorium reactors

**IEAR-1 REACTOR**

Instituto de Energia Atomica, Sao Paulo, Brazil.

UF instituto de energia atomica r1

UF sao paulo ieear-1 reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**iec (international electrotechnical commission)**

2004-09-14

USE international electrotechnical commission

**ieus (integrated energy utility systems)**

INIS: 2000-04-12; ETDE: 2005-01-28

(Prior to January 2005 IEUS was a valid descriptor.)

USE integrated energy utility systems

**IFIEC**

INIS: 1991-12-11; ETDE: 1992-01-08

International Federation of Industrial Energy Consumers.

UF international federation of industrial energy consumers

BT1 international organizations

RT industry

RT international cooperation

**IFIP**

UF international food irradiation project

\*BT1 coordinated research programs

RT food

RT irradiation procedures

RT preservation

RT radappertization

RT radication

RT radurization

**ifp process**

2000-04-12

Process for removal of hydrogen sulfide and sulfur dioxide from Claus unit tail gas to an sulfur dioxide level of 1, 500 to 2, 000 ppm (ifp-1) or 500 ppm or below (ifp-2) and stack gas clean-up to take sulfur dioxide down to or below 500 ppm (ifp-2).

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**IFR REACTOR**

UF ibr-1 reactor

\*BT1 fast reactors

\*BT1 zero power reactors

**ifve**

INIS: 1984-06-21; ETDE: 2002-06-13  
 Inst. Fiziki Vysokikh Ehnergij.  
 USE ihhep

**IGCAR**

INIS: 1989-02-24; ETDE: 1989-03-20  
 Indira Gandhi Centre for Atomic Research,  
 Kalpakkam, Tamilnadu, India.  
 UF kalpakkam reactor research center  
 UF rrc, kalpakkam  
 \*BT1 indian organizations

**IGNALINA-1 REACTOR**

INIS: 1997-09-16; ETDE: 1996-02-12  
 Permanent shutdown since 2004.  
 (Until February 1996 this descriptor was  
 spelled IGNALINSK-1 REACTOR.)  
 UF ignalinsk-1 reactor  
 UF rbmk-1500 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**IGNALINA-2 REACTOR**

INIS: 1997-09-16; ETDE: 1996-02-12  
 Permanent shutdown since 2009.  
 (Until February 1996 this descriptor was  
 spelled IGNALINSK-2 REACTOR.)  
 UF ignalinsk-2 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**ignalinsk-1 reactor**

INIS: 1997-01-28; ETDE: 1984-09-20  
 (Until February 1996 this was a valid  
 descriptor.)  
 USE ignalina-1 reactor

**ignalinsk-2 reactor**

INIS: 1997-01-28; ETDE: 1984-09-20  
 (Until February 1996 this was a valid  
 descriptor.)  
 USE ignalina-2 reactor

**IGNEOUS ROCKS**

UF crystalline rocks  
 BT1 rocks  
 NT1 caldasite  
 NT1 lava  
 NT1 plutonic rocks  
 NT2 diorites  
 NT2 gabbros  
 NT3 anorthosites  
 NT2 granites  
 NT3 aplites  
 NT3 granodiorites  
 NT3 quartz monzonite  
 NT2 pegmatites  
 NT2 peridotites  
 NT3 kimberlites  
 NT2 syenites  
 NT1 volcanic rocks  
 NT2 andesites  
 NT2 basalt  
 NT3 diabases  
 NT2 lamprophyres  
 NT3 kimberlites  
 NT2 nepheline basalts  
 NT2 perlite  
 NT2 rhyolites  
 NT2 trachytes  
 NT2 tuff  
 RT basement rock  
 RT magma  
 RT magmatism

**IGNITION**

INIS: 1992-09-07; ETDE: 1975-08-19  
 NT1 autoignition  
 RT combustion  
 RT combustion waves  
 RT detonation waves  
 RT flames  
 RT flammability  
 RT ignition systems

**ignition (thermonuclear)**

USE thermonuclear ignition

**IGNITION QUALITY**

2000-04-12  
 RT antiknock ratings  
 RT combustion

**IGNITION SPHERICAL TORUS**

INIS: 1999-03-02; ETDE: 1987-04-08  
 Small aspect ratio device retaining only  
 indispensable components along the major  
 axis of a tokamak plasma, such as a cooled,  
 normal conductor producing a toroidal  
 magnetic field.  
 \*BT1 tokamak devices  
 RT compact torus

**IGNITION SYSTEMS**

INIS: 1984-07-20; ETDE: 1976-05-17  
 Not for THERMONUCLEAR IGNITION.  
 RT automobiles  
 RT combustion  
 RT combustors  
 RT ignition  
 RT internal combustion engines

**IGNITRONS**

\*BT1 gas discharge tubes  
 \*BT1 rectifier tubes

**IGR REACTOR**

INIS: 2003-11-26; ETDE: 2003-12-03  
 National Nuclear Center of the Republic of  
 Kazakhstan, Kurchatov city, East Kazakhstan.  
 UF experimental graphite reactor  
 UF impulse graphite reactor  
 UF kazakhstan igr reactor  
 UF pulsed graphite reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 materials testing reactors  
 \*BT1 pulsed reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**igt biothermal gasification**

INIS: 2000-04-12; ETDE: 1981-12-14  
 USE biothermgas process

**igt dehydrodesulfurization process**

INIS: 2000-04-12; ETDE: 1980-09-04  
 Fine crushed coal is first treated in a fluidized  
 bed reactor with air at 400 C and then with  
 hydrogen at 800 C; atmospheric pressure in  
 both reactors.  
 (Prior to March 1994, this was a valid ETDE  
 descriptor.)  
 USE desulfurization

**igt hydrogasification process**

2000-04-12  
 USE hygas process

**igt waste process**

INIS: 2000-04-12; ETDE: 1975-10-28  
 USE biogas process

**igy**

USE international geophysical year

**IHEP**

INIS: 1975-10-09; ETDE: 1975-12-16  
 Institute for High Energy Physics, Protvino,  
 Russian Federation.  
 UF ifve  
 UF inst fiziki vysokikh ehnergij  
 UF institute for high energy physics  
 \*BT1 nrc kurchatov institute  
 RT serpukhov synchrotron

**IHNI-1 REACTOR**

2018-06-04  
 Beijing, Fangshang district, China.  
 UF in-hospital neutron irradiator  
 \*BT1 pool type reactors  
 \*BT1 reactor neutron source facilities  
 \*BT1 research reactors

**iisnr reactor**

USE thetis reactor

**IKATA-2 REACTOR**

INIS: 1985-11-16; ETDE: 1985-12-11  
 Shikoku Electric Power Co., Ikata, Ehime,  
 Japan.  
 \*BT1 pwr type reactors

**IKATA-3 REACTOR**

INIS: 1989-10-27; ETDE: 1989-11-21  
 Shikoku Electric Power Co., Ikata, Ehime,  
 Japan.  
 \*BT1 pwr type reactors

**IKATA REACTOR**

Shikoku Electric Power Co., Ikata, Ehime,  
 Japan. Permanent shutdown since 2016.  
 \*BT1 pwr type reactors

**IKO**

INIS: 1978-07-31; ETDE: 1978-09-11  
 UF inst v kernph onder amsterdam  
 UF nuclear physics research institute  
 amsterdam  
 \*BT1 netherlands organizations

**IKO SYNCHROCYCLOTRON**

IKO - Nuclear Physics Research Institute,  
 Amsterdam.  
 \*BT1 synchrocyclotrons

**ilc**

2015-10-02  
 USE international linear collider

**ileum**

USE small intestine

**illiac computers**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE computers

**illinium**

USE promethium

**ILLINOIS**

1995-01-27  
 \*BT1 usa  
 NT1 chicago  
 RT anl  
 RT chattanooga formation  
 RT fermilab  
 RT illinois basin  
 RT mississippi river  
 RT ohio river

**ILLINOIS BASIN**

INIS: 1992-06-12; ETDE: 1980-07-09

The geographic area that includes all of the coal reserves of Illinois, Indiana, and the western part of Kentucky.

RT coal deposits  
RT illinois  
RT indiana  
RT kentucky

**illinois university triga-mk-2 reactor**

INIS: 1993-11-08; ETDE: 2002-06-13

USE triga-2-illinois reactor

**ILLITE**

A general term for the clay-mineral constituent of argillaceous sediments belonging to the mica group.

\*BT1 clays

**ILLIUM**

2000-04-12

\*BT1 chromium alloys  
\*BT1 copper alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys

**ILLUMINANCE**

INIS: 1986-07-09; ETDE: 1981-10-24

Density of luminous flux on a surface.

UF illumination  
UF luminous flux density  
RT albedo  
RT brightness  
RT daylighting  
RT lighting requirements  
RT lighting systems  
RT optics

**illumination**

INIS: 1986-07-09; ETDE: 1981-10-24

USE illuminance

**illumination systems**

2000-04-12

USE lighting systems

**ILMENITE**

An iron-black, opaque, rhombohedral mineral.

\*BT1 oxide minerals  
RT iron oxides  
RT titanium oxides

**ilmr**

INIS: 1987-03-24; ETDE: 1987-11-24

International Laboratory of Marine Radioactivity, Monaco.

(Prior to June 2004 this was a valid descriptor.)

USE monaco marine environment laboratory

**ILO**

UF international labour organisation  
BT1 international organizations  
RT united nations  
RT work

**ILVAITE**

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 silicate minerals  
RT calcium silicates  
RT iron silicates

**IMAGE CONVERTERS**

UF converters (image)  
BT1 image tubes  
RT image intensifiers  
RT image processing

**IMAGE INTENSIFIERS**

UF intensifiers (image)  
RT fluoroscopy  
RT image converters  
RT image processing  
RT radiation protection

**IMAGE PROCESSING**

INIS: 2000-02-01; ETDE: 1977-06-02

Procedure for restoring or enhancing images, often by computer.

UF processing (images)  
BT1 processing  
RT cat scanning  
RT computerized tomography  
RT data processing  
RT digital filters  
RT ecat scanning  
RT fiducial markers  
RT image converters  
RT image intensifiers  
RT image scanners  
RT images  
RT photocopying  
RT photography  
RT radioisotope scanners  
RT video tapes

**IMAGE SCANNERS**

UF optical scanners  
UF scanners (image)  
UF scanners (optical)  
RT computerized tomography  
RT data processing  
RT digitizers  
RT electronic equipment  
RT image processing  
RT particle tracks  
RT pattern recognition  
RT photographic films  
RT photon computed tomography  
RT proton computed tomography  
RT radioisotope scanners  
RT sequential scanning

**IMAGE STORAGE TUBES**

UF storage tubes  
BT1 image tubes

**IMAGE TUBES**

NT1 camera tubes  
NT2 vidicons  
NT1 image converters  
NT1 image storage tubes  
RT cathode ray tubes  
RT display devices  
RT electron tubes  
RT images  
RT pattern recognition  
RT photoelectric cells

**IMAGES**

UF autoradiographs  
UF photographs  
UF radiographs  
RT display devices  
RT image processing  
RT image tubes  
RT nuclear emulsions  
RT pattern recognition  
RT photographic films  
RT radioisotope scanners  
RT scintiscanning  
RT video tapes

**imatran voima-1 reactor**

INIS: 1976-08-13; ETDE: 2000-02-10

USE loviisa-1 reactor

**imatran voima-2 reactor**

INIS: 1976-08-13; ETDE: 2000-02-10

USE loviisa-2 reactor

**imatran voima power reactor**

INIS: 2000-04-12; ETDE: 2002-06-13

USE loviisa-1 reactor

**imco**

International Maritime Consultative Organization.

(Prior to July 2001, this was a valid descriptor.)

USE imo

**IMIDAZOLES**

1996-10-22

Compounds that contain a five-membered heterocyclic ring containing nitrogen atoms in the 1 and 3 positions.

UF cmni  
UF parabanic acid  
\*BT1 azoles  
NT1 allantoin  
NT1 benzimidazoles  
NT1 biotin  
NT1 creatinine  
NT1 histamine  
NT1 histidine  
NT1 hydantoins  
NT1 metronidazole  
NT1 misonidazole  
NT1 urocanic acid

**IMIDES**

\*BT1 organic nitrogen compounds

NT1 nem

RT dicarboxylic acids

**imidines**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE organic nitrogen compounds

**IMINES**

1996-01-24

For aldehyde and ketone derivatives only, i.e., for compounds containing the =N- group; for those containing the -NH- group, see ORGANIC NITROGEN COMPOUNDS or appropriate specific descriptors listed thereunder.

\*BT1 organic nitrogen compounds

NT1 creatinine

NT1 schiff bases

RT aldehydes

RT guanidines

RT ketones

**iminoamides**

USE amidines

**iminourea**

USE guanidines

**IMPAMINE**

\*BT1 amines

\*BT1 antidepressants

\*BT1 heterocyclic compounds

\*BT1 organic nitrogen compounds

**immediate radiation effects**

USE early radiation effects

**immobilization (wastes)**

INIS: 1990-12-06; ETDE: 1983-11-09

(Prior to December 1990, this was a valid descriptor.)

SEE solidification

SEE vitrification

**IMMOBILIZED CELLS**

INIS: 1999-03-01; ETDE: 1980-09-22

Microbial cells which have been entrained on gels.

- SF cells (immobilized)
- RT biotechnology
- RT immobilized enzymes
- RT microorganisms

**IMMOBILIZED ENZYMES**

INIS: 2000-04-12; ETDE: 1980-01-24

Stable, re-useable enzymes obtained by immobilizing naturally occurring enzymes onto solid supports by means of various chemical techniques.

- RT enzymes
- RT immobilized cells

**IMMUNE REACTIONS**

Limited to immune reactions to foreign antigens in vivo.

- RT aids virus
- RT antigen-antibody reactions
- RT immunity
- RT phagocytosis
- RT toxoids

**immune sera**

- USE immune serums

**IMMUNE SERUMS**

- UF antiserum
- UF immune sera
- UF serum (immune)
- RT antibodies
- RT blood serum
- RT inoculation

**IMMUNE SYSTEM DISEASES**

INIS: 1991-07-02; ETDE: 1988-06-27

- BT1 diseases
- NT1 aids
- NT1 leukemia
  - NT2 myeloid leukemia
- NT1 leukopenia
  - NT2 lymphopenia
- NT1 lupus
- NT1 lymphomas
  - NT2 hodgkins disease
  - NT2 lymphosarcomas

- RT allergy
- RT asthma
- RT complement
- RT histocompatibility complex
- RT leukopoiesis
- RT lymph nodes
- RT lymphocytes
- RT reticuloendothelial system
- RT spleen
- RT thymus

**immune tolerance**

- USE immunity

**IMMUNITY**

1996-07-23

- UF c-reactive protein
- UF compatibility (immunological)
- UF immune tolerance
- RT aids
- RT aids virus
- RT allergy
- RT anaphylaxis
- RT antibodies
- RT antibody formation
- RT antigen-antibody reactions
- RT antigens
- RT chimeras
- RT disease resistance
- RT graft-host reaction
- RT hemolysis

- RT immune reactions
- RT immunoglobulins
- RT immunology
- RT immunosuppression
- RT inoculation
- RT interferon
- RT lymphocytes
- RT lymphokines
- RT natural killer cells
- RT preventive medicine
- RT radioimmunology
- RT receptors
- RT thymectomy
- RT toxoids
- RT transplants
- RT vaccines

**IMMUNOASSAY**

INIS: 1999-03-26; ETDE: 1987-04-08

- BT1 bioassay
- NT1 enzyme immunoassay
- NT1 radioimmunoassay

**IMMUNOGLOBULINS**

- \*BT1 globulins
- RT gene amplification
- RT immunity

**IMMUNOLOGY**

- NT1 radioimmunology
- RT immunity
- RT mitogens

**IMMUNOSUPPRESSION**

- RT antimetabolic drugs
- RT cyclosporine
- RT endoxan
- RT glucocorticoids
- RT histocompatibility complex
- RT immunity
- RT immunosuppressive drugs
- RT transplants

**IMMUNOSUPPRESSIVE DRUGS**

1992-07-16

- BT1 drugs
- NT1 cyclosporine
- NT1 endoxan
- RT immunosuppression
- RT immunotherapy

**IMMUNOTHERAPY**

INIS: 1981-05-11; ETDE: 1978-06-14

- \*BT1 therapy
- NT1 radioimmunotherapy
- RT corynebacterium parvum
- RT immunosuppressive drugs

**IMO**

2001-07-17

- UF imco
- UF inter-governmental maritime consultative organization
- UF international maritime consultative organization
- UF international maritime organization
- BT1 international organizations
- RT united nations

**IMP DEVICE**

- \*BT1 magnetic mirrors

**IMP SATELLITES**

- BT1 satellites

**IMPACT FUSION**

INIS: 1981-06-19; ETDE: 1979-10-23

Achieved by the acceleration of a DT-bearing projectile and subsequent impact with a stationary target or a similarly accelerated projectile.

- \*BT1 thermonuclear reactions

- RT inertial confinement
- RT magnetic gradient accelerators
- RT railgun accelerators

**IMPACT FUSION DRIVERS**

INIS: 1995-07-21; ETDE: 1980-01-15

Macroparticle accelerators to be used in inertial confinement fusion.

- BT1 inertial fusion drivers
- NT1 magnetic gradient accelerators
- RT accelerators
- RT plasma guns
- RT railgun accelerators

**IMPACT PARAMETER**

- RT nuclear reactions
- RT peripheral collisions
- RT scattering

**IMPACT SHOCK**

- UF shock (impact)
- RT damage
- RT failures
- RT impact strength
- RT missile protection
- RT potting
- RT shock absorbers
- RT shock waves
- RT water hammer

**IMPACT STRENGTH**

- UF strength (impact)
- BT1 mechanical properties
- RT impact shock
- RT impact tests

**IMPACT TESTS**

- \*BT1 mechanical tests
- NT1 charpy test
- RT destructive testing
- RT impact strength
- RT notches

**IMPEDANCE**

- NT1 electric impedance
- NT1 mechanical impedance

**imperfections**

- USE defects

**IMPERIAL VALLEY**

1997-06-19

- BT1 valleys
- RT california
- RT east mesa geothermal field
- RT geothermal fields
- RT salton sea
- RT watersheds

**impermeable dry rock**

2000-04-12

- USE hot-dry-rock systems

**IMPINGEMENT**

1996-05-23

(Until May 1996 this concept was indexed to FOULING and SCREENS.)

- RT entrainment
- RT fouling
- RT intake structures
- RT screens

**implanted sources**

INIS: 2000-04-12; ETDE: 1978-05-01

- USE radiation source implants

**IMPLANTS**

INIS: 1981-11-27; ETDE: 1978-07-05

For emplacement of materials into organisms; not for ION IMPLANTATION, CRYSTAL DOPING, etc.

- NT1 radiation source implants
- RT injection

**IMPLEMENTATION**

INIS: 1985-03-19; ETDE: 1976-10-13

Provision of instruments or means of accomplishing or carrying out plans, orders, laws, etc.

- RT administrative procedures
- RT agreements
- RT enforcement
- RT feasibility studies
- RT government policies
- RT legislation
- RT planning
- RT recommendations
- RT regulations

**IMPLOSIONS**

- NT1 laser implosions
- NT2 direct drive laser implosion
- NT2 indirect drive laser implosion
- RT explosions
- RT linus reactors
- RT shock waves

**import taxes**

INIS: 2000-04-12; ETDE: 1978-06-14

- USE tariffs

**importance function (neutron)**

- USE neutron importance function

**IMPORTS**

INIS: 1992-02-23; ETDE: 1978-06-14

Goods or services brought from another country.

(Until February 1992 this concept was indexed by TRADE.)

- BT1 trade
- RT domestic supplies
- RT exports
- RT foreign policy
- RT oil-importing countries
- RT sales
- RT tariffs

**IMPREGNATION**

The infusion or permeation of one substance into another.

- RT adsorption

**improvement ratio**

INIS: 2000-04-12; ETDE: 1983-01-21

- USE formation damage

**impulse**

2000-04-12

- USE pulses

**impulse (linear momentum)**

INIS: 1983-02-03; ETDE: 2002-06-13

- USE linear momentum

**impulse (pulses)**

INIS: 1983-02-03; ETDE: 2002-06-13

- USE pulses

**IMPULSE APPROXIMATION**

- \*BT1 approximations
- RT bound state
- RT coupling
- RT scattering

**impulse graphite reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

- USE igr reactor

**IMPURITIES**

Unwanted constituents only, not for metal and nonmetal additions, or for the concepts covered by TRACE AMOUNTS and INTERFERING ELEMENTS.

- UF purity

- NT1 plasma impurities
- RT activation analysis
- RT contamination
- RT inclusions
- RT interfering elements
- RT jesse effect
- RT microanalysis
- RT plasma
- RT purification
- RT segregation
- RT substoichiometry
- RT trace amounts

**impurity study experimental tokamak**

INIS: 1993-11-08; ETDE: 2002-06-13

- USE isx tokamak

**ims**

INIS: 1977-04-07; ETDE: 1977-10-19

- USE international magnetospheric study

**IMS STELLARATOR**

INIS: 1990-12-15; ETDE: 1991-08-20

Interchangeable Module Stellarator at University of Wisconsin, Madison, Wisconsin, USA.

- \*BT1 stellarators

**in 519**

INIS: 2000-04-12; ETDE: 1979-08-09

(Prior to March 1997 ALLOY-IN-519 was used for this concept in ETDE.)

- USE chromium alloys
- USE iron base alloys
- USE nickel alloys
- USE niobium alloys

**IN-BEAM SPECTROSCOPY**

INIS: 1977-06-13; ETDE: 1977-10-20

- BT1 spectroscopy

**in-core fuel management**

- USE fuel management

**IN CORE INSTRUMENTS**

See also specific instruments plus FUEL ASSEMBLIES or REACTOR CORES.

- BT1 reactor instrumentation
- NT1 noise thermometers
- RT acoustic monitoring
- RT in-service inspection
- RT positioning
- RT reactor cores
- RT temperature monitoring

**in-core thermionic reactor**

2000-04-12

- USE beryllium moderated reactors
- USE enriched uranium reactors
- USE thermionic reactors
- USE zero power reactors

**IN-COUNTRY DETECTION**

INIS: 2000-04-12; ETDE: 1987-04-08

That part of the test ban verification process in which seismic data are collected from locations within the country.

- \*BT1 seismic detection
- RT nuclear explosion detection
- RT nuclear explosions
- RT on-site inspection
- RT underground explosions

**in-hospital neutron irradiator**

2018-06-04

- USE ihni-1 reactor

**IN PILE LOOPS**

- UF loops (in pile)
- \*BT1 reactor experimental facilities
- RT experimental channels
- RT irradiation capsules

**IN-SERVICE INSPECTION**

INIS: 1977-06-13; ETDE: 1977-04-12

- BT1 inspection
- RT in core instruments
- RT nondestructive testing
- RT reactor maintenance

**IN-SITU COMBUSTION**

INIS: 2000-04-12; ETDE: 1976-05-17

Air is injected into a well ignition is caused to occur at the input well, and a combustion zone is propagated within the reservoir rock to nearby producing wells.

- UF fire flooding
- \*BT1 combustion
- \*BT1 in-situ processing
- RT in-situ gasification
- RT in-situ retorting
- RT reverse combustion
- RT thermal recovery

**IN-SITU GASIFICATION**

2000-04-12

- UF holzheim process
- UF underground gasification
- \*BT1 gasification
- \*BT1 in-situ processing
- RT coal gasification
- RT electrolinking
- RT in-situ combustion

**IN-SITU HYBRIDIZATION**

1996-05-03

- \*BT1 nucleic acid hybridization
- RT chromosomes
- RT dna
- RT dna hybridization
- RT genes
- RT genetic mapping
- RT rna

**IN-SITU LIQUEFACTION**

2000-04-12

- \*BT1 in-situ processing
- \*BT1 liquefaction

**IN-SITU PROCESSING**

2000-02-01

- BT1 processing
- NT1 in-situ combustion
- NT1 in-situ gasification
- NT1 in-situ liquefaction
- NT1 in-situ retorting
- NT1 solution mining
- RT leachates
- RT leaching
- RT modified in-situ processes
- RT oil shales
- RT ore processing
- RT retorting
- RT underground explosions

**IN-SITU RETORTING**

2000-04-12

- UF ljunstrom process
- \*BT1 in-situ processing
- \*BT1 retorting
- RT in-situ combustion
- RT oil shales
- RT rise

**in utero irradiation**

- USE prenatal irradiation

**IN-VESSEL HEAT EXCHANGERS**

- BT1 heat exchangers

**IN VITRO**

As opposite to in vivo.

- RT cell cultures
- RT clone cells
- RT culture media

RT hela cells  
 RT homogenates  
 RT l cells  
 RT tissue cultures

**IN VIVO**

*To be used only to differentiate from in vitro studies at the cellular or tissue level.*

RT animal tissues  
 RT cell division  
 RT cell proliferation  
 RT organs  
 RT plant cells  
 RT tumor cells

**INACTIVATION**

RT inhibition  
 RT preservation  
 RT sterilization

**incandescent lamps**

INIS: 2000-04-12; ETDE: 1986-07-08  
 USE light bulbs

**incentives**

INIS: 2000-04-12; ETDE: 1979-08-07  
 (From August 1979 to March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)  
 SEE financial incentives

**INCIDENCE ANGLE**

INIS: 1984-04-04; ETDE: 1980-01-24  
*Use only when the incidence angle is a significant parameter.*

UF angle (incidence)  
 UF angle of incidence  
 RT angular distribution  
 RT inclination  
 RT optics  
 RT orientation  
 RT reflection  
 RT refraction  
 RT scattering

**incidents**

USE accidents

**incineration**

INIS: 2000-04-12; ETDE: 1982-03-11  
 USE combustion

**INCINERATORS**

UF kiln incinerators  
 NT1 waste incinerators  
 NT1 waterwall incinerators  
 RT burners  
 RT combustion  
 RT furnaces

**INCLINATION**

*Angle between the velocity vector of a charged particle and the magnetic field in which the particle moves.*

UF angle of inclination  
 UF pitch angle  
 RT geomagnetic field  
 RT incidence angle  
 RT tilt mechanisms

**INCLINED STRATA**

INIS: 1992-07-21; ETDE: 1980-03-29  
 \*BT1 geologic strata  
 RT coal seams  
 RT geologic deposits

**INCLINOMETERS**

2017-03-23  
*Instrument for measuring angles of slope, elevation or depression of an object with respect to gravity.*  
 UF tilt meters  
 \*BT1 meters

**inclusion complexes**

USE clathrates

**INCLUSIONS**

RT castings  
 RT crystal defects  
 RT impurities  
 RT ion implantation  
 RT microstructure  
 RT trace amounts

**inclusive distribution**

USE distribution  
 USE inclusive interactions

**INCLUSIVE INTERACTIONS**

*The group of all interactions of two particles producing a specific final state.*

UF inclusive distribution  
 \*BT1 particle interactions  
 NT1 semi-inclusive interactions  
 RT exclusive interactions  
 RT limiting fragmentation  
 RT nuclear fireball model

**INCOHERENT PRODUCTION**

\*BT1 particle interactions  
 BT1 particle production  
 RT coherent tube model

**INCOHERENT SCATTERING**

BT1 scattering  
 RT diffuse scattering  
 RT inelastic scattering

**INCOLOY 800**

1993-10-03  
 UF alloy 800  
 \*BT1 alloy-fe46ni33cr21

**INCOLOY 800H**

INIS: 1993-10-03; ETDE: 1982-02-23  
 UF alloy 800h  
 UF alloy-800h (incoloy)  
 \*BT1 alloy-fe44ni33cr21

**INCOLOY 802**

INIS: 1993-10-03; ETDE: 1979-08-09  
 UF alloy-802 (incoloy)  
 \*BT1 alloy-fe46ni33cr21

**INCOLOY 825**

INIS: 1993-10-03; ETDE: 1980-09-22  
 UF alloy-825 (incoloy)  
 \*BT1 alloy-ni43fe30cr22mo3

**INCOLOY 901**

1993-10-03  
 UF alloy-901 (incoloy)  
 \*BT1 aluminium additions  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 incoloy alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys  
 \*BT1 titanium alloys

**INCOLOY ALLOYS**

UF alloy-ni42fe36cr12mo6ti3  
 BT1 alloys  
 NT1 alloy-fe44ni33cr21  
 NT2 incoloy 800h  
 NT1 alloy-fe46ni33cr21  
 NT2 incoloy 800  
 NT2 incoloy 802  
 NT1 alloy-ni43fe30cr22mo3  
 NT2 incoloy 825  
 NT1 incoloy 901

**INCOME**

1999-12-07  
 UF disposable income  
 NT1 royalties  
 RT charges  
 RT economics  
 RT high income groups  
 RT income distribution  
 RT inflation  
 RT low income groups  
 RT prices  
 RT profits  
 RT standard of living

**INCOME DISTRIBUTION**

INIS: 1999-12-07; ETDE: 1978-02-14  
 RT economics  
 RT high income groups  
 RT income

**INCOMPLETE FUSION REACTIONS**

INIS: 1985-01-18; ETDE: 1984-07-10  
 UF breakup fusion  
 UF massive transfer reactions  
 \*BT1 heavy ion reactions  
 RT compound-nucleus reactions  
 RT deep inelastic heavy ion reactions  
 RT heavy ion fusion reactions  
 RT nuclear fragmentation  
 RT precompound-nucleus emission  
 RT transfer reactions

**INCOMPRESSIBLE FLOW**

SF perfect flow  
 BT1 fluid flow  
 NT1 ideal flow  
 RT navier-stokes equations

**INCONEL 600**

1993-10-03  
 UF alloy-600 (inconel)  
 \*BT1 alloy-ni76cr15fe8

**inconel 601**

INIS: 1985-01-17; ETDE: 2002-06-13  
 USE alloy-ni61cr23fe14

**INCONEL 617**

1993-10-03  
 UF alloy-617 (inconel)  
 \*BT1 alloy-ni54cr22co13mo9

**INCONEL 625**

1993-10-03  
 UF alloy-625 (inconel)  
 \*BT1 alloy-ni61cr22mo9nb4fe3

**inconel 643**

INIS: 2000-04-12; ETDE: 1979-05-25  
 (Prior to August 1996 this was a valid ETDE descriptor.)  
 USE inconel alloys

**INCONEL 671**

INIS: 1993-10-03; ETDE: 1977-03-04  
 UF alloy-671 (inconel)  
 \*BT1 alloy-ni51cr48

**INCONEL 690**

INIS: 1993-10-03; ETDE: 1980-09-22  
 UF alloy-690 (inconel)  
 \*BT1 alloy-ni59cr30fe9

**INCONEL 700**

INIS: 1996-07-17; ETDE: 1979-05-25  
 \*BT1 inconel alloys

**inconel 702**

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE aluminium alloys

USE chromium alloys  
USE inconel alloys

**INCONEL 706**

1993-10-03

UF alloy-706 (inconel)  
\*BT1 alloy-ni41fe40cr16nb3

**INCONEL 713C**

1993-10-03

\*BT1 alloy-ni74cr13al6mo4

**INCONEL 713LC**

INIS: 1993-10-03; ETDE: 1978-12-20

UF alloy-713-lc  
UF alloy-713lc (inconel)  
\*BT1 alloy-ni75cr12al6mo5

**INCONEL 718**

1993-10-03

\*BT1 alloy-ni53cr19fe19nb5mo3

**INCONEL 738**

INIS: 2000-02-14; ETDE: 1978-12-20

\*BT1 inconel alloys

**INCONEL 739**

INIS: 2000-04-12; ETDE: 1979-09-06

\*BT1 inconel alloys

**INCONEL 82**

1993-10-03

UF alloy-82 (inconel)  
\*BT1 alloy-ni73cr20mn3nb3

**INCONEL ALLOYS**

1996-11-13

(From 1979 till August 1996 ALLOY-IN-643 and INCONEL 643 were valid ETDE descriptors.)

UF alloy-in-643  
UF alloy-ni47cr25co12w9fe3  
UF alloy-ni48co28cr15al3mo3ti2  
UF alloy-ni78cr16al4  
UF inconel 643  
UF inconel 702

\*BT1 nickel base alloys

NT1 alloy-ni41fe40cr16nb3

NT2 inconel 706

NT1 alloy-ni46cr23co19ti5al4

NT2 alloy-in-939

NT1 alloy-ni51cr48

NT2 inconel 671

NT1 alloy-ni53cr19fe19nb5mo3

NT2 inconel 718

NT1 alloy-ni54cr22co13mo9

NT2 inconel 617

NT1 alloy-ni59cr30fe9

NT2 inconel 690

NT1 alloy-ni60co15cr10al6ti5mo3

NT2 alloy-in-100

NT1 alloy-ni61cr16co9al3ti3w3

NT2 alloy-in-738

NT1 alloy-ni61cr22mo9nb4fe3

NT2 inconel 625

NT1 alloy-ni61cr23fe14

NT1 alloy-ni73cr15fe7ti3

NT2 inconel x750

NT1 alloy-ni73cr20mn3nb3

NT2 inconel 82

NT1 alloy-ni74cr13al6mo4

NT2 inconel 713c

NT1 alloy-ni75cr12al6mo5

NT2 inconel 713lc

NT1 alloy-ni76cr15fe8

NT2 inconel 600

NT1 inconel 700

NT1 inconel 738

NT1 inconel 739

RT alloy-ni70mo17cr7fe5

RT inor-8

RT nimonic

**inconel ma 753**

2000-04-12

USE alloy-in-853

**INCONEL X750**

1993-10-03

UF alloy-x750 (inconel)  
\*BT1 alloy-ni73cr15fe7ti3

**incorporation (biological)**

INIS: 1983-02-03; ETDE: 1983-03-07

USE uptake

**increasing**

INIS: 2000-04-12; ETDE: 1979-07-18

USE augmentation

**INCREMENTAL-COST PRICING**

INIS: 2000-04-12; ETDE: 1978-12-11

Charges based on cost of attracting new supplies to replace the dwindling flow from conventional sources.

BT1 prices

RT marginal-cost pricing

**INCUBATION**

RT heating

RT infectious diseases

RT latency period

RT quarantine

RT time dependence

**INDAN**

INIS: 2000-04-12; ETDE: 1976-10-13

UF indane

\*BT1 aromatics

**indane**

2017-04-21

USE indan

**INDAZOLES**

\*BT1 pyrazoles

**indc**

INIS: 1976-07-16; ETDE: 2002-06-13

USE international nuclear data committee

**INDEMNIFICATION AGREEMENTS**

INIS: 1976-12-08; ETDE: 1994-08-10

Agreements whereby the State undertakes to compensate for nuclear damage involving the civil liability of the nuclear operator.

BT1 agreements

RT liabilities

RT workmens compensation

**INDENE**

\*BT1 polycyclic aromatic hydrocarbons

**INDENTATION TESTING**

2017-04-24

Means of testing the mechanical properties of materials.

\*BT1 materials testing

RT hardness

**independent-particle model**

USE single-particle model

**index of refraction**

INIS: 1982-12-07; ETDE: 2002-06-13

USE refractive index

**INDEXES**

Should be used to index all pieces of literature which are indexes.

BT1 document types

RT directories

RT information retrieval

**INDIA**

BT1 asia

BT1 developing countries

RT brahmaputra river

RT ganga river

**india ink**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE inks

USE pigments

**INDIAN OCEAN**

1997-06-19

\*BT1 seas

NT1 arabian sea

NT2 persian gulf

NT3 strait of hormuz

NT1 timor sea

RT madagascar

RT maldives

RT mauritius

RT reunion island

RT southern oscillation

RT sri lanka

RT tasmania

**INDIAN ORGANIZATIONS**

Not to be used for American Indian Organizations.

BT1 national organizations

NT1 barc

NT1 igcar

**INDIAN POINT-1 REACTOR**

Consolidated Edison Co., Buchanan, New York, USA. Shut down in 1974.

UF consolidated edison thorium reactor

\*BT1 pwr type reactors

**INDIAN POINT-2 REACTOR**

Entergy Nuclear IP2 LLC, Buchanan, New York, USA.

\*BT1 pwr type reactors

**INDIAN POINT-3 REACTOR**

Entergy Nuclear Operations, Inc., Buchanan, New York, USA.

\*BT1 pwr type reactors

**indian reservations**

INIS: 2000-04-12; ETDE: 1979-01-30

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE american indians

**INDIANA**

\*BT1 usa

RT illinois basin

RT ohio river

**indiana university cyclotron**

INIS: 1979-04-27; ETDE: 1979-05-25

USE iu cyclotron

**indians (american)**

INIS: 2000-04-12; ETDE: 1978-11-14

USE american indians

**indicator species**

INIS: 2000-04-12; ETDE: 1976-03-22

USE biological indicators

**INDICATORS**

1996-10-23

UF congo red

UF erioglaucline

UF neutral red

UF toluylene red

SF chemicals

NT1 bromosulphophthalein

NT1 eosin

NT1 indocyanine green

NT1 methyl orange

- NT1 methyl red
- NT1 methylthymol blue
- NT1 phenolphthalein
- NT1 pyrocatechol violet
- NT1 rose bengal
- NT1 xylenol orange

**INDIGENOUS PEOPLES**

2008-05-23

- \*BT1 human populations
- NT1 american indians
- NT1 eskimos
- NT1 sami people

**INDIGO**

INIS: 2000-04-12; ETDE: 1983-01-21

- UF indigo red
- BT1 dyes
- \*BT1 indoles

**indigo red**

INIS: 2000-04-12; ETDE: 1983-01-21

- USE indigo

**INDIRECT DRIVE ICF**

1999-09-15

*Inertial confinement fusion in which the driver energy is converted into x-rays before being absorbed by the target capsule.*

- RT indirect drive laser implosion
- RT inertial confinement

**INDIRECT DRIVE LASER****IMPLOSION**

INIS: 1995-07-21; ETDE: 1992-06-11

*Laser implosion where the driver energy is converted into x-rays before being absorbed by the target capsule.*

- \*BT1 laser implosions
- RT direct drive laser implosion
- RT indirect drive icf
- RT inertial fusion drivers
- RT laser fusion reactors
- RT laser-produced plasma
- RT laser-radiation heating
- RT laser targets
- RT pulsed fusion reactors

**INDIUM**

- \*BT1 metals

**INDIUM 100**

1982-06-09

- \*BT1 beta-plus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**INDIUM 101**

INIS: 1988-06-22; ETDE: 1988-07-15

- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 102**

INIS: 1981-02-27; ETDE: 1981-03-13

- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 103**

INIS: 1978-11-24; ETDE: 1978-12-20

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 104**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 105**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 106**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**INDIUM 107**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 108**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**INDIUM 109**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 110**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**INDIUM 110 TARGET**

ETDE: 1976-07-09

- BT1 targets

**INDIUM 111**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 112**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei

- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**INDIUM 113**

- \*BT1 hours living radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**INDIUM 113 TARGET**

ETDE: 1976-07-09

- BT1 targets

**INDIUM 114**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**INDIUM 115**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**INDIUM 115 TARGET**

ETDE: 1976-07-09

- BT1 targets

**INDIUM 116**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 117**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 118**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 119**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 120**

- \*BT1 beta-minus decay radioisotopes



- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 121**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 122**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 123**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 124**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 125**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 126**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 127**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 127 TARGET**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
BT1 targets

**INDIUM 128**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**INDIUM 129**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 130**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**INDIUM 131**

*INIS: 1976-07-30; ETDE: 1976-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**INDIUM 133**

*2002-06-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 134**

*2002-06-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**INDIUM 135**

*2002-06-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 97**

*2007-11-01*

- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 98**

*2007-11-01*

- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 99**

*2007-11-01*

- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**INDIUM ADDITIONS**

*Alloys containing not more than 1% In are listed here.*

- \*BT1 indium alloys

**INDIUM ALLOYS**

*Alloys containing more than 1% In.*

- BT1 alloys
- NT1 indium additions
- NT1 indium base alloys

**indium antimonide detectors**

*INIS: 1988-04-15; ETDE: 2002-06-13*

USE insb semiconductor detectors

**INDIUM ANTIMONIDES**

*INIS: 1989-05-29; ETDE: 1989-06-21*

- \*BT1 antimonides

- BT1 indium compounds

**INDIUM ARSENIDES**

- \*BT1 arsenides
- BT1 indium compounds

**INDIUM BASE ALLOYS**

- \*BT1 indium alloys

**INDIUM BORIDES**

- \*BT1 borides
- BT1 indium compounds

**INDIUM BROMIDES**

- \*BT1 bromides
- \*BT1 indium halides

**INDIUM CARBIDES**

*1996-07-18*

(From July 1996 to November 2007 INDIUM COMPOUNDS + CARBIDES was used for this concept.)

- \*BT1 carbides
- BT1 indium compounds

**INDIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 indium halides

**INDIUM COMPLEXES**

- BT1 complexes

**INDIUM COMPOUNDS**

*1997-06-17*

- NT1 indium antimonides
- NT1 indium arsenides
- NT1 indium borides
- NT1 indium carbides
- NT1 indium halides
- NT2 indium bromides
- NT2 indium chlorides
- NT2 indium fluorides
- NT2 indium iodides
- NT1 indium hydrides
- NT1 indium hydroxides
- NT1 indium nitrates
- NT1 indium nitrides
- NT1 indium oxides
- NT1 indium perchlorates
- NT1 indium phosphates
- NT1 indium phosphides
- NT1 indium selenides
- NT1 indium silicates
- NT1 indium sulfates
- NT1 indium sulfides
- NT1 indium tellurides
- NT1 indium tungstates

**INDIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 indium halides

**INDIUM HALIDES**

*2012-07-19*

- \*BT1 halides
- BT1 indium compounds
- NT1 indium bromides
- NT1 indium chlorides
- NT1 indium fluorides
- NT1 indium iodides

**INDIUM HYDRIDES**

- \*BT1 hydrides
- BT1 indium compounds

**INDIUM HYDROXIDES**

- \*BT1 hydroxides
- BT1 indium compounds

**INDIUM IODIDES**

- \*BT1 indium halides
- \*BT1 iodides

**INDIUM IONS**

\*BT1 ions

**INDIUM ISOTOPES**

1999-07-16

BT1 isotopes  
**NT1** indium 100  
**NT1** indium 101  
**NT1** indium 102  
**NT1** indium 103  
**NT1** indium 104  
**NT1** indium 105  
**NT1** indium 106  
**NT1** indium 107  
**NT1** indium 108  
**NT1** indium 109  
**NT1** indium 110  
**NT1** indium 111  
**NT1** indium 112  
**NT1** indium 113  
**NT1** indium 114  
**NT1** indium 115  
**NT1** indium 116  
**NT1** indium 117  
**NT1** indium 118  
**NT1** indium 119  
**NT1** indium 120  
**NT1** indium 121  
**NT1** indium 122  
**NT1** indium 123  
**NT1** indium 124  
**NT1** indium 125  
**NT1** indium 126  
**NT1** indium 127  
**NT1** indium 128  
**NT1** indium 129  
**NT1** indium 130  
**NT1** indium 131  
**NT1** indium 132  
**NT1** indium 133  
**NT1** indium 134  
**NT1** indium 135  
**NT1** indium 97  
**NT1** indium 98  
**NT1** indium 99

**INDIUM NITRATES**

BT1 indium compounds  
 \*BT1 nitrates

**INDIUM NITRIDES**

BT1 indium compounds  
 \*BT1 nitrides

**INDIUM OXIDES**

BT1 indium compounds  
 \*BT1 oxides

**INDIUM PERCHLORATES**

INIS: 1978-09-28; ETDE: 1977-11-28

BT1 indium compounds  
 \*BT1 perchlorates

**INDIUM PHOSPHATES**

INIS: 1978-09-28; ETDE: 1978-10-19

BT1 indium compounds  
 \*BT1 phosphates

**INDIUM PHOSPHIDE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1978-12-11

\*BT1 solar cells

**INDIUM PHOSPHIDES**

BT1 indium compounds  
 \*BT1 phosphides

**INDIUM SELENIDE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

\*BT1 solar cells

**INDIUM SELENIDES**

1976-03-17

BT1 indium compounds  
 \*BT1 selenides

**INDIUM SILICATES**

INIS: 1996-07-18; ETDE: 1975-09-11

(From July 1996 to November 2007 INDIUM COMPOUNDS + SILICATES was used for this concept.)

BT1 indium compounds  
 \*BT1 silicates

**INDIUM SULFATES**

BT1 indium compounds  
 \*BT1 sulfates

**INDIUM SULFIDES**

BT1 indium compounds  
 \*BT1 sulfides

**INDIUM TELLURIDES**

BT1 indium compounds  
 \*BT1 tellurides

**INDIUM TUNGSTATES**

INIS: 2000-04-12; ETDE: 1976-11-17

BT1 indium compounds  
 \*BT1 tungstates

**INDOCYANINE GREEN**

INIS: 1975-10-29; ETDE: 1975-12-16

BT1 dyes  
 BT1 indicators  
 \*BT1 indoles  
 \*BT1 polycyclic aromatic hydrocarbons  
 \*BT1 sulfonates

**INDOLES**

UF benzopyrroles

\*BT1 azaarenes  
 \*BT1 pyrroles  
**NT1** indigo  
**NT1** indocyanine green  
**NT1** lysergic acid  
**NT1** reserpine  
**NT1** strychnine  
**NT1** tryptamines  
**NT2** melatonin  
**NT2** serotonin  
**NT3** bufotenine  
**NT1** tryptophan  
**NT1** vinblastine  
 RT ergotamine

**INDONESIA**

1997-06-19

UF java (island)  
 BT1 asia  
 BT1 developing countries  
 BT1 islands  
 RT dieng geothermal field  
 RT kamojang geothermal field  
 RT opec  
 RT pacific ocean  
 RT timor sea

**INDONESIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**indonesian triga-mk-2 reactor**

1997-01-28

USE triga-2-bandung reactor

**INDOOR AIR CONTAMINATION**

1994-02-28

For radioactive contamination only. For non-radioactive materials use INDOOR AIR POLLUTION.

BT1 contamination  
 RT indoors

**INDOOR AIR POLLUTION**

INIS: 1994-02-28; ETDE: 1978-09-13

For nonradioactive pollution only. For radioactive materials such as radon use INDOOR AIR CONTAMINATION.

\*BT1 air pollution  
 RT indoors

**INDOORS**

2004-11-02

Only for documents where this concept is significant.

RT indoor air contamination  
 RT indoor air pollution  
 RT outdoors

**INDUCED POLARIZATION****LOGGING**

INIS: 2000-04-12; ETDE: 1979-03-29

Exploration method involving measurement of the slow decay of voltage in the ground following the cessation of an excitation current pulse or low frequency variations of earth impedance.

\*BT1 electric logging  
 RT electrical surveys

**induced radioactivity**

USE radioactivity

**INDUCTANCE**

1992-03-11

\*BT1 electrical properties  
 RT capacitance  
 RT electric conductivity

**INDUCTION**

**NT1** faraday induction  
 RT lln advanced test accelerator

**INDUCTION FURNACES**

\*BT1 electric furnaces

**INDUCTION GENERATORS**

INIS: 1992-02-23; ETDE: 1981-12-14

\*BT1 electric generators

**INDUCTION LOGGING**

INIS: 1984-04-04; ETDE: 1976-06-07

UF magnetic induction logging  
 \*BT1 electric logging  
 RT magnetic surveys  
 RT resistivity logging

**INDUCTION WELDING**

\*BT1 welding

**inductors**

USE solenoids

**INDUS-1**

1994-06-13

450 MeV synchrotron radiation source at the Centre for Advanced Technology, Indore, India.

UF indus-i  
 BT1 storage rings  
 \*BT1 synchrotron radiation sources

**INDUS-2**

1994-06-13

2 GeV synchrotron radiation source at the Centre for Advanced Technology, Indore, India.

UF indus-ii  
 BT1 storage rings  
 \*BT1 synchrotron radiation sources

**indus-i**

INIS: 1994-06-13; ETDE: 1993-08-30

(Until June 1994 this was a valid descriptor.)  
 USE indus-1

**indus-ii**

INIS: 1994-06-13; ETDE: 1993-08-30

(Until June 1994 this was a valid descriptor.)

USE indus-2

**INDUSTRIAL ACCIDENTS**

BT1 accidents

**INDUSTRIAL BUILDINGS**

2007-07-27

BT1 buildings

RT industrial plants

RT industry

**INDUSTRIAL MEDICINE**

BT1 medicine

RT accidents

RT occupational diseases

RT occupational safety

RT personnel

RT radiation protection

RT working conditions

**industrial parks**

INIS: 2000-04-12; ETDE: 1979-09-26

Areas at a distance from a city center designed especially for communities of industries and businesses.

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE energy parks

SEE industry

**INDUSTRIAL PLANTS**

1996-07-18

UF manufacturing facilities

UF plants (industrial)

NT1 biomass conversion plants

NT1 chemical plants

NT2 gasoline plants

NT2 petrochemical plants

NT1 cimarron plutonium production plant

NT1 cimarron uranium fuel plant

NT1 coal gasification plants

NT1 coal liquefaction plants

NT1 coal preparation plants

NT1 coking plants

NT1 desalination plants

NT1 ethanol plants

NT1 feed materials plants

NT2 areva nc malvesi

NT2 feed materials production center

NT2 west valley uf6 facility

NT1 foundries

NT1 isotope separation plants

NT2 areva nc miramas

NT2 areva nc pierrelatte

NT2 centrifuge enrichment plants

NT3 portsmouth centrifuge enrichment plant

NT3 rokkasho uranium enrichment plant

NT2 gaseous diffusion plants

NT3 orgdp

NT3 paducah plant

NT3 portsmouth gaseous diffusion plant

NT2 heavy water plants

NT2 tritium extraction plants

NT1 lng plants

NT1 methanol plants

NT1 natural gas processing plants

NT1 oil sand processing plants

NT1 oil shale processing plants

NT2 anvil points research facility

NT2 glen davis facility

NT1 oxygen plants

NT1 petroleum refineries

NT1 sequoyah uf6 production plant

NT1 sng plants

NT1 synthetic fuels refineries

NT1 waste processing plants

NT2 resource recovery facilities

NT2 waste incinerators

NT2 waste oil refineries

RT demonstration plants

RT fuel fabrication plants

RT industrial buildings

RT industry

RT modular structures

RT pilot plants

**INDUSTRIAL RADIOGRAPHY**

1999-12-03

See also BIOMEDICAL RADIOGRAPHY.

UF radiography (industrial)

\*BT1 nondestructive testing

NT1 beta radiography

NT1 gamma radiography

NT2 gamma fuel scanning

NT1 neutron radiography

NT1 proton radiography

NT1 x-ray radiography

RT autoradiography

RT inspection

RT microradiography

RT radiation attenuation testing

RT radiological personnel

RT tomography

**industrial relations**

INIS: 2000-04-12; ETDE: 1979-06-06

USE labor relations

**industrial sector**

INIS: 2000-04-12; ETDE: 1979-03-29

USE industry

**INDUSTRIAL WASTES**

INIS: 1975-11-07; ETDE: 1975-10-01

UF municipal wastes (industrial)

SF emissions (industrial)

BT1 wastes

NT1 spent liquors

RT chemical effluents

RT chemical wastes

RT emissions tax

RT emissions trading

RT gaseous wastes

RT liquid wastes

RT organic wastes

RT pollutants

RT refuse derived fuels

RT scrap

RT scrap metals

RT solid wastes

**industrialized countries**

INIS: 1982-12-03; ETDE: 1978-03-03

USE developed countries

**INDUSTRY**

(From September 1979 to March 1997

INDUSTRIAL PARKS was a valid ETDE descriptor.)

UF industrial sector

SF end use sector

SF industrial parks

NT1 aerospace industry

NT1 automotive industry

NT1 beverage industry

NT1 cement industry

NT1 ceramics industry

NT1 chemical industry

NT1 coal industry

NT1 construction industry

NT1 electric power industry

NT1 fertilizer industry

NT1 fishing industry

NT1 food industry

NT2 dairy industry

NT2 meat industry

NT1 furniture industry

NT1 geothermal industry

NT1 glass industry

NT1 metal industry

NT1 mineral industry

NT1 natural gas industry

NT2 lng industry

NT1 nuclear industry

NT1 oil sand industry

NT1 oil shale industry

NT1 petroleum industry

NT2 lpg industry

NT1 plastics industry

NT1 printing and publishing industry

NT1 rubber industry

NT1 solar industry

NT1 sugar industry

NT1 synthetic fuels industry

NT1 textile industry

NT1 wind power industry

NT1 wood products industry

NT2 paper industry

RT business

RT by-products

RT commercialization

RT developing countries

RT economic development

RT fuel reprocessing plants

RT horizontal integration

RT hydrogen-based economy

RT ifiec

RT industrial buildings

RT industrial plants

RT joint ventures

RT labor relations

RT manufacturers

RT manufacturing

RT marketers

RT mining

RT resellers

RT retailers

RT small businesses

RT technology assessment

RT technology impacts

RT technology transfer

RT technology utilization

RT tourism

**inel**

2005-05-18

Formerly known as Idaho National

Engineering Laboratory, and before 1976 as

NRTS.

USE idaho national laboratory

**inel**

INIS: 1984-06-21; ETDE: 2002-06-13

USE idaho national laboratory

**inel safety research experimental facility reactor**

INIS: 1993-11-08; ETDE: 2002-06-13

USE saref reactor

**INELASTIC SCATTERING**

1996-01-24

BT1 scattering

NT1 deep inelastic scattering

NT1 delbrueck scattering

NT1 resonance scattering

NT1 thomson scattering

RT anharmonic crystals

RT hauser-feshbach theory

RT incoherent scattering

RT skyrme potential

RT spin flip

**INERT ATMOSPHERE**

\*BT1 controlled atmospheres

**NT1** cover gas  
*RT* carbon dioxide  
*RT* nitrogen  
*RT* rare gases

**inert neutrinos**

2016-12-12

USE sterile neutrinos

**inertia**

USE moment of inertia

**INERTIAL CONFINEMENT***INIS: 1999-09-15; ETDE: 1978-04-28**A dynamic plasma confinement by inertial forces.*

\***BT1** plasma confinement  
*RT* aurora facility  
*RT* direct drive icf  
*RT* electron beam fusion accelerator  
*RT* electron beam fusion reactors  
*RT* electron beam targets  
*RT* icf devices  
*RT* impact fusion  
*RT* indirect drive icf  
*RT* inertial fusion drivers  
*RT* ion beam fusion reactors  
*RT* ion beam targets  
*RT* laser fusion reactors  
*RT* laser implosions  
*RT* laser targets  
*RT* particle beam fusion accelerator  
*RT* us national ignition facility

**inertial confinement fusion devices***INIS: 1984-08-24; ETDE: 1984-10-24*

USE icf devices

**inertial confinement fusion targets***INIS: 1999-07-26; ETDE: 2002-06-13*

SEE electron beam targets  
 SEE ion beam targets  
 SEE laser targets

**INERTIAL FUSION DRIVERS**

1995-07-21

**NT1** impact fusion drivers  
**NT2** magnetic gradient accelerators  
*RT* direct drive laser implosion  
*RT* indirect drive laser implosion  
*RT* inertial confinement  
*RT* ion beam fusion reactors  
*RT* laser fusion reactors

**INERTIAL GUIDANCE***INIS: 2000-04-12; ETDE: 1975-11-11*

*RT* electronic guidance  
*RT* navigational instruments

**INERTIAL SEPARATORS***INIS: 1976-10-07; ETDE: 1976-03-22**Separators that operate by imparting a centrifugal force to the particle to be removed from the carrier gas stream.*

*UF* ash separators  
*UF* centrifugal separators  
*UF* separators (inertial)  
 \***BT1** separation equipment  
**NT1** cyclone separators  
*RT* dust collectors  
*RT* pollution control equipment

**INERTINITE***INIS: 2000-04-12; ETDE: 1987-07-24***BT1** macerals**ines**

1995-05-10

USE international nuclear event scale

**INFANTS***SF* newborns

\***BT1** children  
*RT* life cycle  
*RT* neonates

**INFECTIOUS DISEASES**

**BT1** diseases  
**NT1** bacterial diseases  
**NT2** cholera  
**NT2** diphtheria  
**NT2** gonorrhea  
**NT2** leprosy  
**NT2** syphilis  
**NT2** tetanus  
**NT2** tuberculosis  
**NT2** typhoid  
**NT1** fungal diseases  
**NT2** mycoses  
**NT2** tinea  
**NT1** parasitic diseases  
**NT2** fascioliasis  
**NT2** filariasis  
**NT2** hydatidosis  
**NT2** malaria  
**NT2** schistosomiasis  
**NT2** trichinosis  
**NT2** trypanosomiasis  
**NT1** rickettsial diseases  
**NT2** typhus  
**NT1** viral diseases  
**NT2** aids  
**NT2** herpes simplex  
**NT2** herpes zoster  
**NT2** infectious hepatitis  
**NT2** influenza  
**NT2** measles  
**NT2** newcastle disease  
**NT2** poliomyelitis  
**NT2** rabies  
*RT* anti-infective agents  
*RT* antibiotics  
*RT* epidemiology  
*RT* granulomas  
*RT* incubation  
*RT* inflammation  
*RT* legionella anisa  
*RT* legionella pneumophila  
*RT* microorganisms  
*RT* septicemia  
*RT* virulence

**INFECTIOUS HEPATITIS***INIS: 2000-03-28; ETDE: 1981-01-12*

*UF* hepatitis (infectious)  
 \***BT1** hepatitis  
 \***BT1** viral diseases

**INFECTIVITY**

1997-06-17

*RT* bacteria  
*RT* disinfectants  
*RT* endotoxins  
*RT* germicides

**infiltration (by people)***INIS: 1985-07-23; ETDE: 2002-06-13*

USE human intrusion

**infiltration (rock)***INIS: 1985-07-23; ETDE: 2002-06-13*

*Deposition in rocks of mineral matter by permeation of water carrying the matter in solution. Coordinate the descriptor below with an appropriate descriptor from the work block of ROCKS.*

USE water influx

**infiltration (water)***INIS: 1985-07-23; ETDE: 2002-06-13*

USE water influx

**INFLAMMATION**

**BT1** pathological changes  
**BT1** symptoms  
*RT* antipyretics  
*RT* granulomas  
*RT* infectious diseases  
*RT* pneumonitis  
*RT* trichinosis

**INFLATABLE COLLECTORS***INIS: 2000-04-12; ETDE: 1979-02-27*

\***BT1** solar collectors  
*RT* solar ponds

**INFLATABLE SEALS****BT1** seals**INFLATION***INIS: 1992-02-05; ETDE: 1978-07-06*

*RT* cost  
*RT* economic development  
*RT* income

**inflation (cosmological)**

2015-06-05

USE cosmological inflation

**INFLATIONARY UNIVERSE***INIS: 1985-07-22; ETDE: 1987-08-14*

*Universe described by cosmological models which usually involve a very weakly-coupled scalar field which is displaced from the minimum of its potential. Regions of the universe where the scalar field is initially displaced from its minimum undergo inflation as the scalar field relaxes.*

*UF* cosmic inflation

\***BT1** cosmological models  
*RT* cosmological inflation  
*RT* inflatons  
*RT* space-time  
*RT* unified gauge models

**INFLATONS**

2013-10-24

\***BT1** postulated particles  
*RT* inflationary universe

**INFLUENZA**

\***BT1** viral diseases  
*RT* influenza viruses

**INFLUENZA VIRUSES**

\***BT1** viruses  
*RT* influenza

**influx (particles)**

1995-07-03

USE particle influx

**influx (water)***INIS: 1985-10-23; ETDE: 2002-06-13*

USE water influx

**INFN**

2016-12-12

*National Institute for Nuclear Physics, Italy**UF* catania national laboratory

\***BT1** italian organizations  
*RT* frascati national laboratory  
*RT* gran sasso national laboratory  
*RT* legnaro national laboratory

**INFORMATION**

(From July 1984 till April 1997

**CRYPTOGRAPHY** was a valid **ETDE** descriptor; from November 1981 till June 1992 **TECHNICAL WRITING** was a valid **ETDE** descriptor.)

*UF* information validation*SF* technical writing**NT1** classified information

**NT1** data  
**NT2** data compilation  
**NT2** numerical data  
**NT3** compiled data  
**NT3** evaluated data  
**NT3** experimental data  
**NT3** financial data  
**NT3** statistical data  
**NT3** theoretical data  
**NT1** diagrams  
**NT2** bragg curve  
**NT2** electrocardiograms  
**NT2** engineering drawings  
**NT2** fermi plot  
**NT2** feynman diagram  
**NT2** flowsheets  
**NT2** goldstone diagrams  
**NT2** hertzprung-russell diagram  
**NT2** mollier diagrams  
**NT2** nomograms  
**NT2** nyquist diagrams  
**NT2** optical depth curve  
**NT3** spectroscopic curve of growth  
**NT2** phase diagrams  
**NT2** s-n diagram  
**NT2** scatterplots  
**NT3** argand diagrams  
**NT3** dalitz plot  
**NT3** prism plot  
**NT2** sun charts  
**NT2** thermochemical diagrams  
**NT2** young diagram  
**NT1** proprietary information  
**NT1** public information  
**NT1** quantum information  
**NT2** qubits  
*RT* congressional inquiries  
*RT* cryptography  
*RT* data base management  
*RT* information centers  
*RT* information theory  
*RT* libraries  
*RT* manuals  
*RT* privacy act  
*RT* records management  
*RT* technology transfer

### INFORMATION CENTERS

*INIS: 1994-09-09; ETDE: 1976-04-19*  
*UF* technical information center  
*RT* data compilation  
*RT* educational facilities  
*RT* information  
*RT* information systems  
*RT* libraries

### information declassification

*INIS: 2000-04-12; ETDE: 1983-03-24*  
 USE declassification

### INFORMATION DISSEMINATION

*INIS: 1995-10-27; ETDE: 1980-05-06*  
*RT* information needs  
*RT* information systems  
*RT* internet  
*RT* knowledge management  
*RT* proprietary information  
*RT* public information  
*RT* technology transfer

### INFORMATION NEEDS

*INIS: 1976-03-25; ETDE: 1976-08-24*  
*Identification of subject areas or types of data on which information is needed in order to further specific areas of research. Coordinate with descriptors for the specific areas of research.*  
*RT* data  
*RT* information dissemination  
*RT* reporting requirements

*RT* research programs  
*RT* us napap

### INFORMATION RETRIEVAL

*1996-07-08*  
 (From June 1975 till August 1996 UNISIST was a valid ETDE descriptor.)  
*UF* document retrieval  
*UF* records retrieval  
*SF* unisist  
*RT* data base management  
*RT* data tagging  
*RT* documentation  
*RT* indexes  
*RT* information systems  
*RT* knowledge management  
*RT* standardized terminology

### INFORMATION SYSTEMS

*1996-07-08*  
 (From June 1975 till August 1996 UNISIST was a valid ETDE descriptor.)  
*SF* seedis  
*SF* unisist  
**NT1** agris  
**NT1** cinda  
**NT1** etde  
**NT1** geographic information systems  
**NT1** inis  
**NT1** seidb  
**NT1** wends  
*RT* computer networks  
*RT* data base management  
*RT* data compilation  
*RT* data tagging  
*RT* distributed data processing  
*RT* documentation  
*RT* information centers  
*RT* information dissemination  
*RT* information retrieval  
*RT* information theory  
*RT* knowledge management  
*RT* libraries  
*RT* nuclear data collections  
*RT* standardized terminology

### INFORMATION THEORY

*RT* communications  
*RT* cybernetics  
*RT* data processing  
*RT* game theory  
*RT* information  
*RT* information systems  
*RT* quantum information  
*RT* redundancy  
*RT* set theory

### information validation

*INIS: 1982-10-29; ETDE: 1995-05-10*  
 USE information  
 USE verification

### INFRARED DIVERGENCES

*UF* divergences (infrared)  
*RT* quantum electrodynamics

### INFRARED RADIATION

**\*BT1** electromagnetic radiation  
**NT1** far infrared radiation  
**NT1** intermediate infrared radiation  
**NT1** near infrared radiation  
*RT* infrared spectra  
*RT* infrared thermography  
*RT* thermal radiation  
*RT* thermography  
*RT* wavelengths

### INFRARED SPECTRA

**BT1** spectra  
*RT* absorption spectroscopy  
*RT* infrared radiation

*RT* structural chemical analysis  
*RT* vibrational states

### INFRARED SPECTROMETERS

*1976-02-11*  
**\*BT1** spectrometers  
**NT1** photoacoustic spectrometers  
*RT* lead germanates

### INFRARED SURVEYS

*2000-01-21*  
**\*BT1** geophysical surveys  
*RT* geothermal exploration

### INFRARED THERMOGRAPHY

*INIS: 1978-07-03; ETDE: 1977-09-19*  
*A method for measuring the infrared radiation emitted from surfaces.*  
*UF* thermal photography  
**\*BT1** thermography  
*RT* heat losses  
*RT* infrared radiation  
*RT* temperature monitoring

### INFUSION

**BT1** intake

### ing linac

*1996-07-18*  
*Intense Neutron Generator Linac.*  
 (Until July 1996 this was a valid descriptor.)  
 USE linear accelerators  
 USE neutron sources

### INGESTION

**BT1** intake  
*RT* beverages  
*RT* diet  
*RT* digestion  
*RT* drinking water  
*RT* food  
*RT* intestinal absorption  
*RT* oral administration  
*RT* oral cavity

### inhalable particles

*2013-11-27*  
 SEE aerosols  
 SEE particulates

### INHALATION

**BT1** intake  
*RT* aerosols  
*RT* air  
*RT* breath  
*RT* dusts  
*RT* intratracheal administration  
*RT* maximum inhalation quantity  
*RT* radionuclide administration  
*RT* respiration  
*RT* respirators  
*RT* respiratory system

### inhalation exposure chambers

*INIS: 1978-09-28; ETDE: 1977-10-20*  
 USE exposure chambers

### INHALATION TOXICOLOGY RESEARCH INSTITUTE

*INIS: 2000-04-12; ETDE: 1982-07-27*  
*UF* itri  
*UF* lovelace biomedical and environmental research institute  
**\*BT1** us doe  
*RT* new mexico

### INHIBITION

*UF* extinguishment  
*UF* growth inhibition  
*UF* suppression  
**NT1** sprout inhibition  
*RT* catalysis

RT enzyme inhibitors  
 RT flames  
 RT inactivation  
 RT stabilization

**inhibitors (corrosion)**

USE corrosion inhibitors

**inhibitors (enzyme)**

INIS: 1978-08-30; ETDE: 1976-03-11

USE enzyme inhibitors

**INHOMOGENEOUS FIELDS**

RT electric fields  
 RT electromagnetic fields  
 RT magnetic fields

**INHOMOGENEOUS PLASMA**

BT1 plasma

**INHOURL EQUATION**

1999-07-07

UF nordheim equation  
 BT1 equations  
 RT reactivity  
 RT reactor kinetics

**INHOURS**

\*BT1 reactivity units

**INIS**

1996-04-19

UF international nuclear information system  
 BT1 information systems  
 RT iaea

**initial reservoir pressure**

INIS: 1986-07-09; ETDE: 1978-09-11

USE reservoir pressure

**INJECTION**

BT1 intake  
 NT1 intramuscular injection  
 NT1 intraperitoneal injection  
 NT1 intravenous injection  
 NT1 subcutaneous injection  
 RT implants  
 RT radionuclide administration  
 RT therapy

**injection (beams)**

USE beam injection

**injection (pellets)**

INIS: 1988-11-16; ETDE: 2002-06-13

USE pellet injection

**injection fluids**

INIS: 2000-04-12; ETDE: 1985-08-08

For oil and gas wells.

USE displacement fluids

**INJECTION WELLS**

1991-10-22

A well used for injecting fluids into underground strata.

UF input well  
 BT1 wells  
 RT geothermal wells  
 RT reinjection

**INJURIES**

UF trauma  
 UF traumatic shock  
 BT1 diseases  
 NT1 bone fractures  
 NT1 burns  
 NT2 flash burns  
 NT2 radiation burns  
 NT1 radiation injuries  
 NT2 osteoradionecrosis  
 NT2 radiation burns

NT2 radiodermatitis

NT1 wounds  
 RT accidents  
 RT first aid  
 RT health hazards  
 RT hematomas  
 RT safety  
 RT single intake

**INKS**

1996-07-18

UF india ink  
 RT dyes

**inl**

2011-06-02

USE idaho national laboratory

**INLAND WATERWAYS**

UF canals (waterways)  
 BT1 surface waters  
 NT1 manivier canal  
 NT1 panama canal  
 NT1 sues canal  
 RT harbors  
 RT lakes  
 RT marinas  
 RT rivers  
 RT territorial waters  
 RT transport

**inlet event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**inner bremsstrahlung**

USE internal bremsstrahlung

**inner mongolia**

INIS: 2000-04-12; ETDE: 1979-12-10

USE china

**INNER-SHELL EXCITATION**

INIS: 1987-11-02; ETDE: 1987-12-23

\*BT1 excitation  
 RT inner-shell ionization

**INNER-SHELL IONIZATION**

INIS: 1976-07-06; ETDE: 1976-08-24

BT1 ionization  
 RT auger effect  
 RT autoionization  
 RT coulomb ionization  
 RT inner-shell excitation

**inns**

INIS: 2000-04-12; ETDE: 1979-12-17

USE hotels

**INOCULATION**

RT immune serums  
 RT immunity  
 RT vaccines  
 RT viruses

**INOR-8**

1993-10-03

\*BT1 alloy-ni70mol7cr7fe5  
 RT inconel alloys

**INORGANIC ACIDS**

(From August 1979 to March 1997

HETEROPOLY ACIDS was a valid ETDE descriptor.)

UF acids (inorganic)  
 UF heteropoly acids  
 UF mineral acids  
 UF polythionic acids  
 BT1 hydrogen compounds  
 BT1 inorganic compounds  
 NT1 boric acid  
 NT1 broensted acids

NT1 bromic acid  
 NT1 carbonic acid  
 NT1 chloric acid  
 NT1 chlorous acid  
 NT1 chromic acid  
 NT1 fluoroboric acid  
 NT1 hydrazoic acid  
 NT1 hydriodic acid  
 NT1 hydrobromic acid  
 NT1 hydrochloric acid  
 NT1 hydrocyanic acid  
 NT1 hydrofluoric acid  
 NT1 hypochlorous acid  
 NT1 hypofluorous acid  
 NT1 hypiodous acid  
 NT1 hypophosphorous acid  
 NT1 iodic acid  
 NT1 lewis acids  
 NT1 molybdc acid  
 NT1 molybdophosphoric acid  
 NT1 nitric acid  
 NT1 nitrous acid  
 NT1 perchloric acid  
 NT1 periodic acid  
 NT1 phosphoric acid  
 NT1 phosphorous acid  
 NT1 silicic acid  
 NT1 sulfamic acid  
 NT1 sulfuric acid  
 NT1 sulfurous acid  
 NT1 telluric acid  
 NT1 tungstophosphoric acid  
 RT acid carbonates  
 RT acid sulfates  
 RT acid sulfites  
 RT acidification  
 RT anhydrides  
 RT ph value

**INORGANIC COMPOUNDS**

1986-07-10

For very general papers only. Use of a more specific term is recommended.

UF compounds (inorganic)  
 SF chemicals

NT1 inorganic acids  
 NT2 boric acid  
 NT2 broensted acids  
 NT2 bromic acid  
 NT2 carbonic acid  
 NT2 chloric acid  
 NT2 chlorous acid  
 NT2 chromic acid  
 NT2 fluoroboric acid  
 NT2 hydrazoic acid  
 NT2 hydriodic acid  
 NT2 hydrobromic acid  
 NT2 hydrochloric acid  
 NT2 hydrocyanic acid  
 NT2 hydrofluoric acid  
 NT2 hypochlorous acid  
 NT2 hypofluorous acid  
 NT2 hypiodous acid  
 NT2 hypophosphorous acid  
 NT2 iodic acid  
 NT2 lewis acids  
 NT2 molybdc acid  
 NT2 molybdophosphoric acid  
 NT2 nitric acid  
 NT2 nitrous acid  
 NT2 perchloric acid  
 NT2 periodic acid  
 NT2 phosphoric acid  
 NT2 phosphorous acid  
 NT2 silicic acid  
 NT2 sulfamic acid  
 NT2 sulfuric acid  
 NT2 sulfurous acid  
 NT2 telluric acid

**NT2** tungstophosphoric acid  
**RT** chemical feedstocks

**INORGANIC ION EXCHANGERS**

**UF** *permutit (inorganic)*  
**\*BT1** ion exchange materials  
**NT1** bentonite  
**NT1** montmorillonite  
**NT1** mullite  
**NT1** vermiculite  
**NT1** zeolites  
**NT2** clinoptilolite  
**NT2** faujasite  
**NT2** heulandite  
**NT2** laumontite  
**NT2** mordenite  
**NT2** wairakite

**INORGANIC PHOSPHORS**

1999-08-23

**BT1** phosphors  
**NT1** cadmium sulfides  
**NT1** cadmium tungstates  
**NT1** calcium tungstates  
**NT1** cesium iodides  
**NT1** lithium iodides  
**NT1** potassium iodides  
**NT1** sodium iodides  
**NT1** zinc sulfides  
**RT** bismuth germanates  
**RT** solid scintillation detectors

**INORGANIC POLYMERS**

**BT1** polymers

**INOSINE**

**\*BT1** nucleosides  
**\*BT1** purines  
**RT** hypoxanthine  
**RT** itp

**inosine triphosphate**

2017-11-13

**USE** itp

**INOSITOL**

**UF** *i-inositol*  
**\*BT1** inositols  
**\*BT1** lipotropic factors  
**RT** phytic acid

**INOSITOLS**

**\*BT1** monosaccharides  
**NT1** inositol  
**RT** hydroxy compounds

**input-output**

**INIS:** 2000-04-12; **ETDE:** 1979-05-02

**SEE** material balance

**INPUT-OUTPUT ANALYSIS**

**INIS:** 1999-01-27; **ETDE:** 1978-04-06

*A type of economic analysis.*

(Until January 1999, this concept was indexed by the broader term ECONOMIC ANALYSIS.)

**SF** *operations research*  
**\*BT1** economic analysis  
**RT** developing countries  
**RT** economy  
**RT** energy analysis  
**RT** regional analysis

**input well**

**INIS:** 2000-04-12; **ETDE:** 1976-03-31

**USE** injection wells

**INR CYCLOTRON**

**INIS:** 1983-06-01; **ETDE:** 1983-03-24

*Institute of Nuclear Research, Academia Sinica, Shanghai.*

**UF** *institute of nuclear research (shanghai) cyclotron*

**UF** *shanghai inr cyclotron*

**\*BT1** isochronous cyclotrons

**ins cyclotron (tokyo)**

**INIS:** 1983-06-01; **ETDE:** 2002-06-13

**USE** tokyo ins cyclotron

**INSB SEMICONDUCTOR DETECTORS**

**INIS:** 1988-04-15; **ETDE:** 1988-07-08

*Indium antimonide semiconductor detectors.*

**UF** *indium antimonide detectors*

**\*BT1** semiconductor detectors

**INSECT DISPERSAL**

**UF** *dispersal (insect)*

**RT** behavior

**RT** insects

**RT** sterile insect release

**RT** sterile male technique

**INSECTICIDES**

**BT1** pesticides

**NT1** aldrin

**NT1** ddt

**NT1** dieldrin

**NT1** kepone

**NT1** lindane

**NT1** malathion

**NT1** parathion

**RT** insects

**INSECTS**

1996-07-08

**UF** *caste (insects)*

**UF** *entomology*

**\*BT1** arthropods

**NT1** coleoptera

**NT2** beetles

**NT3** boll weevil

**NT3** tribolium

**NT1** dictyoptera

**NT2** cockroaches

**NT1** diptera

**NT2** flies

**NT3** fruit flies

**NT4** anastrepha

**NT4** ceratitis capitata

**NT4** dacus

**NT5** dacus oleae

**NT4** drosophila

**NT3** glossina

**NT3** hylemya antiqua

**NT3** screwworm fly

**NT2** mosquitoes

**NT1** ephemeroptera

**NT1** hemiptera

**NT2** aphids

**NT1** hymenoptera

**NT2** ants

**NT2** bees

**NT2** wasps

**NT1** lepidoptera

**NT2** moths

**NT3** bollworm

**NT3** codling moth

**NT3** lymantria dispar

**NT3** rice stem borers

**NT3** silkworm

**NT1** orthoptera

**NT2** grasshoppers

**NT3** locusts

**RT** chemical attractants

**RT** chemoreceptors

**RT** disease vectors  
**RT** genetic control  
**RT** grain disinfection  
**RT** insect dispersal  
**RT** insecticides  
**RT** larvae  
**RT** mass rearing  
**RT** parasites  
**RT** pest control  
**RT** pest eradication  
**RT** pheromone  
**RT** pupae  
**RT** radiodisinfection  
**RT** rearing  
**RT** rickettsiae  
**RT** sterile male technique

**INSOLATION**

1984-04-04

**RT** diffuse solar radiation  
**RT** direct solar radiation  
**RT** radiative forcing  
**RT** solar flux  
**RT** solar radiation  
**RT** solar simulators  
**RT** sun charts

**INSPECTION**

(Prior to May 1996 SURVEILLANCE was a valid ETDE descriptor.)

**UF** *control (inspection)*

**SF** *surveillance*

**NT1** in-service inspection

**NT1** on-site inspection

**RT** accuracy

**RT** audits

**RT** calibration

**RT** evaluation

**RT** gesellschaft fuer anlagen- und

reaktorsicherheit

**RT** industrial radiography

**RT** legal aspects

**RT** licensing

**RT** materials testing

**RT** nondestructive testing

**RT** performance testing

**RT** post-irradiation examination

**RT** preventive medicine

**RT** quality control

**RT** radiation monitoring

**RT** radiation protection

**RT** reactor maintenance

**RT** recommendations

**RT** safeguards

**RT** sampling

**RT** specifications

**RT** testing

**RT** verification

**inspector general (us doe)**

**INIS:** 1994-09-29; **ETDE:** 1980-06-06

**USE** us doe inspector general

**inst fiziki vysokikh ehnergij**

**INIS:** 1984-06-21; **ETDE:** 2002-06-13

**USE** ihep

**inst phys chem res rilac**

**INIS:** 1986-05-23; **ETDE:** 2002-06-13

**USE** rilac

**inst v kernph onder amsterdam**

**INIS:** 2000-02-08; **ETDE:** 1978-09-11

**USE** iko

**INSTABILITY**

**NT1** combustion instability

**NT1** pierce instability

**NT1** plasma instability

**NT2** absolute instabilities

**NT2** convective instabilities

- NT2** decay instability  
**NT2** explosive instability  
**NT2** gravitational instability  
**NT2** plasma macroinstabilities  
**NT3** ballooning instability  
**NT3** edge localized modes  
**NT3** fishbone instability  
**NT3** flute instability  
**NT3** helical instability  
**NT3** helmholtz instability  
**NT3** kink instability  
**NT3** parametric instabilities  
**NT3** sausage instability  
**NT3** tearing instability  
**NT3** tilting instability  
**NT3** trapped-particle instability  
**NT3** whistler instability  
**NT2** plasma microinstabilities  
**NT3** bump-in-tail instability  
**NT3** cyclotron instability  
**NT3** drift instability  
**NT3** hose instability  
**NT3** ion wave instability  
**NT3** loss cone instability  
**NT3** negative mass instability  
**NT3** two-stream instability  
**NT1** rayleigh-taylor instability  
**RT** bifurcation  
**RT** stability

**INSTABILITY GROWTH RATES**

- RT** plasma instability  
**RT** time dependence

**INSTALLATION**

- INIS:** 1992-09-30; **ETDE:** 1976-05-13  
**RT** construction

**installation sites**

- INIS:** 1976-12-08; **ETDE:** 2002-06-13  
*If appropriate use one of the specific types of facilities.*  
**USE** nuclear facilities

**INSTANTONS**

- INIS:** 1978-01-13; **ETDE:** 1977-11-29  
*Finite action solutions to Euclidean field equations, localized in time and space.*  
**UF** pseudoparticles  
**BT1** quasi particles  
**RT** field equations  
**RT** field theories  
**RT** gauge invariance  
**RT** higgs model  
**RT** lattice field theory  
**RT** merons  
**RT** quantum chromodynamics  
**RT** solitons  
**RT** su groups  
**RT** symmetry breaking  
**RT** vacuum states  
**RT** yang-mills theory

**institut fuer isotopen- und strahlenforschung leipzig**

- INIS:** 1986-05-23; **ETDE:** 2002-06-13  
**USE** zfi leipzig

**institute for high energy physics**

- INIS:** 1993-11-08; **ETDE:** 2002-06-13  
**USE** ihep

**institute for nuclear studies cyclotron**

- INIS:** 1993-11-08; **ETDE:** 2002-06-13  
**USE** tokyo ins cyclotron

**institute for reactor safety**

- INIS:** 1977-09-06; **ETDE:** 1977-10-19  
**USE** gesellschaft fuer anlagen- und reaktorsicherheit

**institute of nuclear research (shanghai) cyclotron**

- INIS:** 1993-11-08; **ETDE:** 2002-06-13  
**USE** inr cyclotron

**institute of physical and chemical research cyclotron**

- INIS:** 1993-11-08; **ETDE:** 2002-06-13  
**USE** ipcr cyclotron

**INSTITUTIONAL FACTORS**

- INIS:** 1999-03-01; **ETDE:** 1979-05-25  
**NT1** political aspects  
**NT1** socio-economic factors  
**RT** government policies  
**RT** institutional sector  
**RT** mto model  
**RT** public policy

**INSTITUTIONAL SECTOR**

- INIS:** 2000-04-12; **ETDE:** 1979-09-27  
**RT** institutional factors  
**RT** national government  
**RT** state government

**instituto de asuntos nucleares r1**

- 1993-11-08  
**USE** ian-r1 reactor

**instituto de energia atomica r1**

- 1993-11-08  
**USE** iear-1 reactor

**instituto de energia atomica zpr**

- INIS:** 1993-11-08; **ETDE:** 2002-06-13  
**USE** iea-zpr reactor

**instituto engenhoria nuclear rio reactor**

- 1993-11-08  
**USE** rien-1 reactor

**instruments (measuring)**

- USE** measuring instruments

**insulating limiters**

- USE** limiters

**INSULATING OILS**

- INIS:** 1999-03-01; **ETDE:** 1980-07-23  
*A high-quality oil whose high dielectric strength and high flash point allow it to be used in switches, circuit breakers, and transformers as an insulating and cooling medium.*  
**UF** transformer oils  
**\*BT1** oils  
**RT** circuit breakers  
**RT** dielectric materials  
**RT** dielectric properties  
**RT** electrical insulators  
**RT** switches  
**RT** transformers

**insulation (acoustic)**

- INIS:** 2000-04-12; **ETDE:** 1995-07-03  
**USE** acoustic insulation

**insulation (electrical, by dielectric materials)**

- INIS:** 1993-11-08; **ETDE:** 2002-06-13  
**USE** electrical insulation

**insulation (electrical, by magnetic fields)**

- INIS:** 1993-11-08; **ETDE:** 2002-06-13  
**USE** magnetic insulation

**insulation (electrical)**

- INIS:** 2000-04-12; **ETDE:** 1977-06-02  
**USE** electrical insulation

**insulation (magnetic)**

- INIS:** 2000-04-12; **ETDE:** 1980-11-08  
**USE** magnetic insulation

**insulation (thermal)**

- USE** thermal insulation

**insulators (electrical)**

- USE** electrical insulators

**INSULIN**

- \*BT1** peptide hormones  
**RT** diabetes mellitus  
**RT** glucose  
**RT** metabolism  
**RT** pancreas

**INSURANCE**

- UF** health insurance  
**UF** insurance law  
**UF** marine insurance  
**UF** property insurance  
**UF** transport insurance  
**NT1** accident insurance  
**NT1** nuclear insurance  
**RT** financial security  
**RT** hazards  
**RT** legal aspects  
**RT** liabilities  
**RT** victims compensation

**insurance law**

- INIS:** 1990-12-15; **ETDE:** 2002-06-13  
*(Prior to December 1990, this was a valid descriptor.)*  
**USE** insurance  
**USE** legal aspects

**INTAKE**

- NT1** chronic intake  
**NT1** infusion  
**NT1** ingestion  
**NT1** inhalation  
**NT1** injection  
**NT2** intramuscular injection  
**NT2** intraperitoneal injection  
**NT2** intravenous injection  
**NT2** subcutaneous injection  
**NT1** oral administration  
**NT1** rectal administration  
**NT1** single intake  
**RT** annual limit of intake  
**RT** assimilation  
**RT** maximum permissible intake  
**RT** radionuclide administration  
**RT** radionuclide kinetics  
**RT** uptake

**INTAKE CANALS**

- 2000-04-12  
**RT** auxiliary water systems  
**RT** intake structures

**INTAKE STRUCTURES**

- 1996-05-14  
**BT1** mechanical structures  
**RT** cooling systems  
**RT** impingement  
**RT** intake canals  
**RT** screens

**INTEGRABILITY**

- 2018-02-16  
**NT1** complete integrability  
**NT1** liouville integrability  
**RT** hamiltonians  
**RT** quantum systems

**INTEGRABLE SYSTEMS**

- 2018-02-16  
*A differential system is said to be completely integrable in the Frobenius sense, if the space*



on which it is defined has a foliation by maximal integral manifolds.

BT1 dynamical systems

## INTEGRAL CALCULUS

UF residues (mathematical)

BT1 mathematics

RT poincare-bertrand formula

## INTEGRAL CROSS SECTIONS

INIS: 1976-05-05; ETDE: 1976-06-07

Cross sections integrated over all angles; a measure of the reaction probability, not of the angular distribution.

BT1 cross sections

RT excitation functions

RT nuclear reactions

## INTEGRAL DOSES

\*BT1 radiation doses

RT cuex

RT maximum permissible exposure

RT spatial dose distributions

RT temporal dose distributions

## INTEGRAL EQUATIONS

BT1 equations

NT1 blankenbecler-sugar equations

NT1 fredholm equation

NT1 lippmann-schwinger equation

NT1 quasipotential equation

NT1 voltaerra integral equations

RT differential equations

RT integrals

RT kernels

RT mathematics

RT point kernels

## INTEGRAL PAC

UF perturbed angular correlation (integral)

\*BT1 perturbed angular correlation

## INTEGRAL TRANSFORMATIONS

BT1 transformations

NT1 fourier transformation

NT1 hankel transform

NT1 hilbert transformation

NT1 laplace transformation

NT1 mellin transform

RT integrals

RT mathematics

## INTEGRALS

(From October 1975 till May 1996

SOMMERFELD INTEGRALS was a valid ETDE descriptor.)

UF sommerfeld integrals

NT1 action integral

NT1 collision integrals

NT1 path integrals

NT2 feynman path integral

NT1 resonance integrals

NT1 talmi integrals

RT integral equations

RT integral transformations

RT mathematics

RT quadratures

## INTEGRATED CIRCUITS

\*BT1 microelectronic circuits

NT1 cmos circuits

## integrated community energy systems

INIS: 2000-04-12; ETDE: 1977-06-30

USE ices program

## INTEGRATED COOLING SYSTEMS

\*BT1 reactor cooling systems

## INTEGRATED ENERGY UTILITY SYSTEMS

INIS: 2000-04-12; ETDE: 2005-01-28

(Prior to January 2005 IEUS was used for this concept.)

UF ieus (integrated energy utility systems)

BT1 energy systems

NT1 modular integrated utility systems

RT ices program

RT public utilities

RT total energy systems

## INTEGRATED IN-SITU PROCESS

INIS: 2000-04-12; ETDE: 1981-10-24

Multe Mineral Corp. Process for producing shale oil, raw nahcolite, soda ash, and alumina.

BT1 modified in-situ processes

RT aluminium oxides

RT nahcolite

RT oil shales

## integrated utility systems

INIS: 1982-12-03; ETDE: 1977-09-19

USE total energy systems

## integrators (pulse)

USE pulse integrators

## integrity (fuel)

INIS: 1986-03-04; ETDE: 1985-03-26

USE fuel integrity

## INTEGRO-DIFFERENTIAL EQUATIONS

1995-09-06

BT1 equations

NT1 boltzmann equation

## intense neutron generator linac

1996-07-18

(Prior to March 1997 ING LINAC was used for this concept in ETDE.)

USE linear accelerators

USE neutron sources

## intensifiers (image)

USE image intensifiers

## inter-governmental maritime consultative organization

INIS: 2000-02-10; ETDE: 2002-06-13

USE imo

## INTERACTING BOSON MODEL

\*BT1 shell models

RT boson expansion

RT boson-fermion symmetry

RT bosons

RT nuclear structure

## INTERACTION RANGE

UF long-range interactions

UF short-range interactions

BT1 distance

RT interactions

## INTERACTIONS

For elementary particles and radiations only.

See also CONFIGURATION INTERACTION.

NT1 configuration mixing

NT1 exchange interactions

NT1 final-state interactions

NT1 finite-range interactions

NT1 fundamental interactions

NT2 electromagnetic interactions

NT3 compton effect

NT3 coulomb scattering

NT3 electroproduction

NT3 photon-hadron interactions

NT4 photon-baryon interactions

NT5 photon-hyperon interactions

NT5 photon-nucleon interactions

NT6 photon-neutron interactions

NT6 photon-proton interactions

NT4 photon-meson interactions

NT3 photon-photon interactions

NT3 photoproduction

NT4 primakoff effect

NT3 umklapp processes

NT2 gravitational interactions

NT2 strong interactions

NT3 charge-exchange interactions

NT3 peripheral collisions

NT2 weak interactions

NT3 fermi interactions

NT3 leptonic decay

NT1 pair production

NT2 internal pair production

NT1 pairing interactions

NT1 particle interactions

NT2 annihilation

NT2 charged-current interactions

NT2 coherent production

NT2 electron-quark interactions

NT2 electroproduction

NT2 exclusive interactions

NT3 semi-exclusive interactions

NT2 gluon-gluon interactions

NT2 hadron-hadron interactions

NT3 baryon-baryon interactions

NT4 hyperon-hyperon interactions

NT4 nucleon-antinucleon interactions

NT5 antiproton-neutron

interactions

NT5 neutron-antineutron

interactions

NT5 proton-antineutron

interactions

NT5 proton-antiproton interactions

NT4 nucleon-deuteron interactions

NT5 proton-deuteron interactions

NT4 nucleon-hyperon interactions

NT4 nucleon-nucleon interactions

NT5 neutron-neutron interactions

NT5 proton-nucleon interactions

NT6 proton-neutron interactions

NT6 proton-proton interactions

NT3 meson-baryon interactions

NT4 meson-hyperon interactions

NT5 kaon-hyperon interactions

NT5 pion-hyperon interactions

NT4 meson-nucleon interactions

NT5 kaon-nucleon interactions

NT6 kaon-neutron interactions

NT7 kaon minus-neutron

interactions

NT7 kaon neutral-neutron

interactions

NT7 kaon plus-neutron

interactions

NT6 kaon-proton interactions

NT7 kaon minus-proton

interactions

NT7 kaon neutral-proton

interactions

NT7 kaon plus-proton

interactions

NT5 pion-nucleon interactions

NT6 pion-neutron interactions

NT7 pion minus-neutron

interactions

NT7 pion plus-neutron

interactions

NT6 pion-proton interactions

NT7 pion minus-proton

interactions

NT7 pion plus-proton

interactions

**NT3** meson-meson interactions  
**NT4** kaon-kaon interactions  
**NT4** pion-kaon interactions  
**NT4** pion-pion interactions  
**NT2** inclusive interactions  
**NT3** semi-inclusive interactions  
**NT2** incoherent production  
**NT2** lepton-hadron interactions  
**NT3** lepton-baryon interactions  
**NT4** lepton-nucleon interactions  
**NT5** deep inelastic scattering  
**NT5** electron-nucleon interactions  
**NT6** electron-neutron interactions  
**NT6** electron-proton interactions  
**NT5** lepton-neutron interactions  
**NT6** antilepton-neutron interactions  
**NT7** antineutrino-neutron interactions  
**NT5** lepton-proton interactions  
**NT6** antilepton-proton interactions  
**NT7** antineutrino-proton interactions  
**NT5** muon-nucleon interactions  
**NT6** muon-neutron interactions  
**NT6** muon-proton interactions  
**NT5** neutrino-nucleon interactions  
**NT6** antineutrino-nucleon interactions  
**NT7** antineutrino-neutron interactions  
**NT7** antineutrino-proton interactions  
**NT6** neutrino-neutron interactions  
**NT7** antineutrino-neutron interactions  
**NT6** neutrino-proton interactions  
**NT7** antineutrino-proton interactions  
**NT3** lepton-meson interactions  
**NT4** electron-meson interactions  
**NT5** electron-pion interactions  
**NT4** muon-meson interactions  
**NT4** neutrino-meson interactions  
**NT2** lepton-lepton interactions  
**NT3** electron-electron interactions  
**NT3** electron-muon interactions  
**NT3** electron-positron interactions  
**NT3** muon-muon interactions  
**NT3** neutrino-electron interactions  
**NT4** antineutrino-electron interactions  
**NT3** neutrino-muon interactions  
**NT3** neutrino-neutrino interactions  
**NT3** positron-positron interactions  
**NT2** neutral-current interactions  
**NT2** photon-hadron interactions  
**NT3** photon-baryon interactions  
**NT4** photon-hyperon interactions  
**NT4** photon-nucleon interactions  
**NT5** photon-neutron interactions  
**NT5** photon-proton interactions  
**NT3** photon-meson interactions  
**NT2** photon-lepton interactions  
**NT3** photon-electron interactions  
**NT3** photon-muon interactions  
**NT3** photon-neutrino interactions  
**NT2** photon-photon interactions  
**NT2** photoproduction  
**NT3** primakoff effect  
**NT2** quark-antiquark interactions  
**NT2** quark-gluon interactions  
**NT2** quark-hadron interactions  
**NT2** quark-quark interactions  
**NT1** residual interactions  
**RT** abc effect  
**RT** beam luminosity  
**RT** capture

**RT** capture-to-fission ratio  
**RT** colliding beams  
**RT** collisions  
**RT** coupling  
**RT** decay  
**RT** effective range theory  
**RT** interaction range  
**RT** lorentz force  
**RT** nuclear molecules  
**RT** nucleon-nucleon potential  
**RT** pomeranchuk theorem  
**RT** scattering  
**RT** selection rules  
**RT** threshold energy  
**RT** transverse momentum  
**RT** wolfenstein parameters

## INTERACTIVE DISPLAY DEVICES

**UF** interactive graphics  
**\*BT1** display devices  
**RT** computer graphics

### interactive graphics

**USE** interactive display devices

## INTERAGENCY COOPERATION

**INIS: 1994-06-27; ETDE: 1980-08-25**  
**BT1** cooperation

## INTERATOMIC DISTANCES

**BT1** distance  
**RT** molecular structure

## INTERATOMIC FORCES

**RT** binding energy  
**RT** buckingham potential  
**RT** lennard-jones potential  
**RT** morse potential  
**RT** potentials

### intercalates

**INIS: 2000-04-12; ETDE: 1977-08-09**  
**USE** clathrates

## INTERCEPTION

**INIS: 2000-04-12; ETDE: 1984-12-10**  
**RT** acid rain  
**RT** atmospheric precipitations  
**RT** evaporation  
**RT** forests  
**RT** plants  
**RT** rain water  
**RT** runoff  
**RT** security  
**RT** throughfall  
**RT** water

### interchange instability

**USE** flute instability

## INTERCHANGEABILITY

**INIS: 1993-02-18; ETDE: 1977-09-19**  
*Ability to substitute one energy source, fuel or material for another.*  
**RT** compatibility  
**RT** energy sources  
**RT** fuel substitution  
**RT** fuels  
**RT** material substitution  
**RT** materials  
**RT** resource conservation

## INTERCONNECTED POWER SYSTEMS

**INIS: 1992-03-17; ETDE: 1979-05-03**  
*A system of two or more individual power systems normally operating with interconnecting tie lines enabling each system to draw on the other's reserves in time of need or for economic reasons.*  
**UF** power pools  
**\*BT1** power systems

**RT** power factor  
**RT** power generation  
**RT** power pooling  
**RT** power transmission  
**RT** sellback

### intercrystalline corrosion

**USE** intergranular corrosion

## INTEREST GROUPS

**INIS: 1982-12-03; ETDE: 1980-12-08**  
*For groups formed to further a particular interest, e.g. antinuclear groups, industry groups.*

**UF** antinuclear groups  
**UF** lobbies  
**UF** pressure groups  
**SF** adversaries  
**RT** consumer protection  
**RT** human intrusion  
**RT** human populations  
**RT** intervenors  
**RT** minority groups

## INTEREST RATE

**INIS: 2000-04-12; ETDE: 1978-06-14**  
**UF** discount rate  
**RT** charges  
**RT** debt collection  
**RT** financing  
**RT** investment

## INTERFACES

*Not in the sense of EQUIPMENT INTERFACES.*

**NT1** sediment-water interfaces  
**RT** surfaces

### interfaces (equipment)

**USE** equipment interfaces

### interfacial tension

**INIS: 2000-04-12; ETDE: 1980-11-25**  
**SEE** surface tension

## INTERFERENCE

**RT** radio noise  
**RT** wave propagation

## INTERFERING ELEMENTS

**RT** impurities

## INTERFEROMETERS

**UF** vlb systems  
**BT1** measuring instruments  
**NT1** fabry-perot interferometer  
**NT1** mach-zehnder interferometer  
**NT1** michelson interferometer  
**RT** interferometry  
**RT** radio telescopes  
**RT** spectrometers  
**RT** squid devices

## INTERFEROMETRY

**RT** interferometers

## INTERFERON

**1999-09-08**  
*A protein (lymphokine) released by cells in response to virus infection. When taken up by other cells, interferon inhibits the replication of viruses within them.*  
**\*BT1** lymphokines  
**RT** immunity  
**RT** viruses

## INTERGALACTIC SPACE

**BT1** space  
**RT** nonluminous matter  
**RT** universe

**INTERGOVERNMENTAL COOPERATION**

INIS: 1985-04-22; ETDE: 1979-12-17

Limited to cooperation between the national government and the government of one or more of the country's administrative subdivisions, or between the governments of some of the subdivisions. Not for INTERNATIONAL COOPERATION.

BT1 cooperation  
RT compact commissions

**INTERGRANULAR CORROSION**

UF intercrystalline corrosion  
\*BT1 corrosion  
RT grain boundaries

**interim storage**

INIS: 1982-12-06; ETDE: 2002-06-13  
USE waste storage

**INTERKOSMOS SATELLITES**

BT1 satellites  
RT kosmos satellites  
RT proton satellites

**INTERLABORATORY COMPARISONS**

INIS: 1982-08-27; ETDE: 1982-09-10  
RT calibration standards  
RT comparative evaluations  
RT cooperation  
RT coordinated research programs

**interleukins**

1995-07-03  
USE lymphokines

**INTERLOCKS**

1986-05-23  
RT control systems  
RT reactor control systems  
RT switches

**INTERMEDIATE BOSONS**

UF w boson  
BT1 bosons  
BT1 elementary particles  
NT1 intermediate vector bosons  
NT2 w minus bosons  
NT2 w plus bosons  
NT2 z neutral bosons

**INTERMEDIATE BTU GAS**

1992-05-22  
250 to 900 btu per cubic foot.  
UF gobar gas  
\*BT1 fuel gas  
NT1 carburetted water gas  
NT1 town gas  
NT1 water gas  
RT syngas process

**intermediate coolant loops**

2018-03-19  
USE secondary coolant circuits

**INTERMEDIATE COUPLING**

BT1 coupling  
NT1 j-j coupling  
NT1 l-s coupling  
RT tomonaga approximation

**intermediate coupling approximation**

USE tomonaga approximation

**intermediate image spectrometer**

USE magnetic lens spectrometers

**INTERMEDIATE INFRARED RADIATION**

INIS: 1976-05-05; ETDE: 1976-06-07  
Wave length range 2.5-50 microns.  
\*BT1 infrared radiation

**INTERMEDIATE-LEVEL RADIOACTIVE WASTES**

INIS: 1978-05-19; ETDE: 1978-01-23  
Wastes containing from  $5 \times 10^{-5}$  to 100 microcuries/milliliter of radioactivity.  
UF medium-level wastes  
\*BT1 radioactive wastes  
RT bohunice radioactive waste processing center  
RT high-level radioactive wastes  
RT konrad ore mine  
RT low-level radioactive wastes  
RT mochovce liquid raw final treatment facility  
RT morsleben salt mine

**INTERMEDIATE MASS NUCLEI**

1998-01-27  
For nuclei with mass 41-180.

BT1 nuclei  
NT1 aluminium 41  
NT1 aluminium 42  
NT1 antimony 103  
NT1 antimony 104  
NT1 antimony 105  
NT1 antimony 106  
NT1 antimony 107  
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<b>NT1</b> bromine 74	<b>NT1</b> calcium 58	<b>NT1</b> chromium 68
<b>NT1</b> bromine 75	<b>NT1</b> calcium 60	<b>NT1</b> cobalt 49
<b>NT1</b> bromine 76	<b>NT1</b> cesium 112	<b>NT1</b> cobalt 50
<b>NT1</b> bromine 77	<b>NT1</b> cesium 113	<b>NT1</b> cobalt 51
<b>NT1</b> bromine 78	<b>NT1</b> cesium 114	<b>NT1</b> cobalt 52
<b>NT1</b> bromine 79	<b>NT1</b> cesium 115	<b>NT1</b> cobalt 53
<b>NT1</b> bromine 80	<b>NT1</b> cesium 116	<b>NT1</b> cobalt 54
<b>NT1</b> bromine 81	<b>NT1</b> cesium 117	<b>NT1</b> cobalt 55
<b>NT1</b> bromine 82	<b>NT1</b> cesium 118	<b>NT1</b> cobalt 56
<b>NT1</b> bromine 83	<b>NT1</b> cesium 119	<b>NT1</b> cobalt 57
<b>NT1</b> bromine 84	<b>NT1</b> cesium 120	<b>NT1</b> cobalt 58
<b>NT1</b> bromine 85	<b>NT1</b> cesium 121	<b>NT1</b> cobalt 59
<b>NT1</b> bromine 86	<b>NT1</b> cesium 122	<b>NT1</b> cobalt 60
<b>NT1</b> bromine 87	<b>NT1</b> cesium 123	<b>NT1</b> cobalt 61
<b>NT1</b> bromine 88	<b>NT1</b> cesium 124	<b>NT1</b> cobalt 62
<b>NT1</b> bromine 89	<b>NT1</b> cesium 125	<b>NT1</b> cobalt 63
<b>NT1</b> bromine 90	<b>NT1</b> cesium 126	<b>NT1</b> cobalt 64
<b>NT1</b> bromine 91	<b>NT1</b> cesium 127	<b>NT1</b> cobalt 65
<b>NT1</b> bromine 92	<b>NT1</b> cesium 128	<b>NT1</b> cobalt 66
<b>NT1</b> bromine 93	<b>NT1</b> cesium 129	<b>NT1</b> cobalt 67
<b>NT1</b> bromine 94	<b>NT1</b> cesium 130	<b>NT1</b> cobalt 68
<b>NT1</b> bromine 95	<b>NT1</b> cesium 131	<b>NT1</b> cobalt 69
<b>NT1</b> bromine 96	<b>NT1</b> cesium 132	<b>NT1</b> cobalt 70
<b>NT1</b> bromine 97	<b>NT1</b> cesium 133	<b>NT1</b> cobalt 71
<b>NT1</b> cadmium 100	<b>NT1</b> cesium 134	<b>NT1</b> cobalt 72
<b>NT1</b> cadmium 101	<b>NT1</b> cesium 135	<b>NT1</b> cobalt 73
<b>NT1</b> cadmium 102	<b>NT1</b> cesium 136	<b>NT1</b> cobalt 74
<b>NT1</b> cadmium 103	<b>NT1</b> cesium 137	<b>NT1</b> cobalt 75
<b>NT1</b> cadmium 104	<b>NT1</b> cesium 138	<b>NT1</b> copper 52
<b>NT1</b> cadmium 105	<b>NT1</b> cesium 139	<b>NT1</b> copper 53
<b>NT1</b> cadmium 106	<b>NT1</b> cesium 140	<b>NT1</b> copper 54
<b>NT1</b> cadmium 107	<b>NT1</b> cesium 141	<b>NT1</b> copper 55
<b>NT1</b> cadmium 108	<b>NT1</b> cesium 142	<b>NT1</b> copper 56
<b>NT1</b> cadmium 109	<b>NT1</b> cesium 143	<b>NT1</b> copper 57
<b>NT1</b> cadmium 110	<b>NT1</b> cesium 144	<b>NT1</b> copper 58
<b>NT1</b> cadmium 111	<b>NT1</b> cesium 145	<b>NT1</b> copper 59
<b>NT1</b> cadmium 112	<b>NT1</b> cesium 146	<b>NT1</b> copper 60
<b>NT1</b> cadmium 113	<b>NT1</b> cesium 147	<b>NT1</b> copper 61
<b>NT1</b> cadmium 114	<b>NT1</b> cesium 148	<b>NT1</b> copper 62
<b>NT1</b> cadmium 115	<b>NT1</b> cesium 149	<b>NT1</b> copper 63
<b>NT1</b> cadmium 116	<b>NT1</b> cesium 150	<b>NT1</b> copper 64
<b>NT1</b> cadmium 117	<b>NT1</b> cesium 151	<b>NT1</b> copper 65
<b>NT1</b> cadmium 118	<b>NT1</b> chlorine 41	<b>NT1</b> copper 66
<b>NT1</b> cadmium 119	<b>NT1</b> chlorine 42	<b>NT1</b> copper 67
<b>NT1</b> cadmium 120	<b>NT1</b> chlorine 43	<b>NT1</b> copper 68
<b>NT1</b> cadmium 121	<b>NT1</b> chlorine 44	<b>NT1</b> copper 69
<b>NT1</b> cadmium 122	<b>NT1</b> chlorine 45	<b>NT1</b> copper 70
<b>NT1</b> cadmium 123	<b>NT1</b> chlorine 46	<b>NT1</b> copper 71
<b>NT1</b> cadmium 124	<b>NT1</b> chlorine 47	<b>NT1</b> copper 72
<b>NT1</b> cadmium 125	<b>NT1</b> chlorine 48	<b>NT1</b> copper 73
<b>NT1</b> cadmium 126	<b>NT1</b> chlorine 49	<b>NT1</b> copper 74
<b>NT1</b> cadmium 127	<b>NT1</b> chlorine 50	<b>NT1</b> copper 75
<b>NT1</b> cadmium 128	<b>NT1</b> chlorine 51	<b>NT1</b> copper 76
<b>NT1</b> cadmium 129	<b>NT1</b> chromium 42	<b>NT1</b> copper 77
<b>NT1</b> cadmium 130	<b>NT1</b> chromium 43	<b>NT1</b> copper 78
<b>NT1</b> cadmium 131	<b>NT1</b> chromium 44	<b>NT1</b> copper 79
<b>NT1</b> cadmium 132	<b>NT1</b> chromium 45	<b>NT1</b> copper 80
<b>NT1</b> cadmium 95	<b>NT1</b> chromium 46	<b>NT1</b> erbium 146
<b>NT1</b> cadmium 96	<b>NT1</b> chromium 47	<b>NT1</b> gallium 56
<b>NT1</b> cadmium 97	<b>NT1</b> chromium 48	<b>NT1</b> gallium 57
<b>NT1</b> cadmium 98	<b>NT1</b> chromium 49	<b>NT1</b> gallium 58
<b>NT1</b> cadmium 99	<b>NT1</b> chromium 50	<b>NT1</b> gallium 59
<b>NT1</b> calcium 41	<b>NT1</b> chromium 51	<b>NT1</b> gallium 60
<b>NT1</b> calcium 42	<b>NT1</b> chromium 52	<b>NT1</b> gallium 61
<b>NT1</b> calcium 43	<b>NT1</b> chromium 53	<b>NT1</b> gallium 62
<b>NT1</b> calcium 44	<b>NT1</b> chromium 54	<b>NT1</b> gallium 63
<b>NT1</b> calcium 45	<b>NT1</b> chromium 55	<b>NT1</b> gallium 64
<b>NT1</b> calcium 46	<b>NT1</b> chromium 56	<b>NT1</b> gallium 65
<b>NT1</b> calcium 47	<b>NT1</b> chromium 57	<b>NT1</b> gallium 66
<b>NT1</b> calcium 48	<b>NT1</b> chromium 58	<b>NT1</b> gallium 67
<b>NT1</b> calcium 49	<b>NT1</b> chromium 59	<b>NT1</b> gallium 68
<b>NT1</b> calcium 50	<b>NT1</b> chromium 60	<b>NT1</b> gallium 69
<b>NT1</b> calcium 51	<b>NT1</b> chromium 61	<b>NT1</b> gallium 70
<b>NT1</b> calcium 52	<b>NT1</b> chromium 62	<b>NT1</b> gallium 71
<b>NT1</b> calcium 53	<b>NT1</b> chromium 63	<b>NT1</b> gallium 72
<b>NT1</b> calcium 54	<b>NT1</b> chromium 64	<b>NT1</b> gallium 73
<b>NT1</b> calcium 55	<b>NT1</b> chromium 65	<b>NT1</b> gallium 74
<b>NT1</b> calcium 56	<b>NT1</b> chromium 66	<b>NT1</b> gallium 75
<b>NT1</b> calcium 57	<b>NT1</b> chromium 67	<b>NT1</b> gallium 76

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<b>NT1</b>	lead 180	<b>NT1</b>	nickel 56	<b>NT1</b>	palladium 102
<b>NT1</b>	manganese 44	<b>NT1</b>	nickel 57	<b>NT1</b>	palladium 103
<b>NT1</b>	manganese 45	<b>NT1</b>	nickel 58	<b>NT1</b>	palladium 104
<b>NT1</b>	manganese 46	<b>NT1</b>	nickel 59	<b>NT1</b>	palladium 105
<b>NT1</b>	manganese 47	<b>NT1</b>	nickel 60	<b>NT1</b>	palladium 106
<b>NT1</b>	manganese 48	<b>NT1</b>	nickel 61	<b>NT1</b>	palladium 107
<b>NT1</b>	manganese 49	<b>NT1</b>	nickel 62	<b>NT1</b>	palladium 108
<b>NT1</b>	manganese 50	<b>NT1</b>	nickel 63	<b>NT1</b>	palladium 109
<b>NT1</b>	manganese 51	<b>NT1</b>	nickel 64	<b>NT1</b>	palladium 110
<b>NT1</b>	manganese 52	<b>NT1</b>	nickel 65	<b>NT1</b>	palladium 111
<b>NT1</b>	manganese 53	<b>NT1</b>	nickel 66	<b>NT1</b>	palladium 112
<b>NT1</b>	manganese 54	<b>NT1</b>	nickel 67	<b>NT1</b>	palladium 113
<b>NT1</b>	manganese 55	<b>NT1</b>	nickel 68	<b>NT1</b>	palladium 114
<b>NT1</b>	manganese 56	<b>NT1</b>	nickel 69	<b>NT1</b>	palladium 115
<b>NT1</b>	manganese 57	<b>NT1</b>	nickel 70	<b>NT1</b>	palladium 116
<b>NT1</b>	manganese 58	<b>NT1</b>	nickel 71	<b>NT1</b>	palladium 117
<b>NT1</b>	manganese 59	<b>NT1</b>	nickel 72	<b>NT1</b>	palladium 118
<b>NT1</b>	manganese 60	<b>NT1</b>	nickel 73	<b>NT1</b>	palladium 119
<b>NT1</b>	manganese 61	<b>NT1</b>	nickel 74	<b>NT1</b>	palladium 120
<b>NT1</b>	manganese 62	<b>NT1</b>	nickel 75	<b>NT1</b>	palladium 121
<b>NT1</b>	manganese 63	<b>NT1</b>	nickel 76	<b>NT1</b>	palladium 122
<b>NT1</b>	manganese 64	<b>NT1</b>	nickel 77	<b>NT1</b>	palladium 123
<b>NT1</b>	manganese 65	<b>NT1</b>	nickel 78	<b>NT1</b>	palladium 124
<b>NT1</b>	manganese 66	<b>NT1</b>	nickel 80	<b>NT1</b>	palladium 91
<b>NT1</b>	manganese 67	<b>NT1</b>	niobium 100	<b>NT1</b>	palladium 92
<b>NT1</b>	manganese 68	<b>NT1</b>	niobium 101	<b>NT1</b>	palladium 93
<b>NT1</b>	manganese 69	<b>NT1</b>	niobium 102	<b>NT1</b>	palladium 94
<b>NT1</b>	manganese 70	<b>NT1</b>	niobium 103	<b>NT1</b>	palladium 95
<b>NT1</b>	mercury 171	<b>NT1</b>	niobium 104	<b>NT1</b>	palladium 96
<b>NT1</b>	mercury 172	<b>NT1</b>	niobium 105	<b>NT1</b>	palladium 97
<b>NT1</b>	mercury 173	<b>NT1</b>	niobium 106	<b>NT1</b>	palladium 98
<b>NT1</b>	mercury 174	<b>NT1</b>	niobium 107	<b>NT1</b>	palladium 99
<b>NT1</b>	mercury 175	<b>NT1</b>	niobium 108	<b>NT1</b>	phosphorus 41
<b>NT1</b>	mercury 176	<b>NT1</b>	niobium 109	<b>NT1</b>	phosphorus 42
<b>NT1</b>	mercury 177	<b>NT1</b>	niobium 110	<b>NT1</b>	phosphorus 43
<b>NT1</b>	mercury 178	<b>NT1</b>	niobium 111	<b>NT1</b>	phosphorus 44
<b>NT1</b>	mercury 179	<b>NT1</b>	niobium 112	<b>NT1</b>	phosphorus 45
<b>NT1</b>	mercury 180	<b>NT1</b>	niobium 113	<b>NT1</b>	phosphorus 46
<b>NT1</b>	molybdenum 100	<b>NT1</b>	niobium 81	<b>NT1</b>	platinum 166
<b>NT1</b>	molybdenum 101	<b>NT1</b>	niobium 82	<b>NT1</b>	platinum 167
<b>NT1</b>	molybdenum 102	<b>NT1</b>	niobium 83	<b>NT1</b>	platinum 168
<b>NT1</b>	molybdenum 103	<b>NT1</b>	niobium 84	<b>NT1</b>	platinum 169
<b>NT1</b>	molybdenum 104	<b>NT1</b>	niobium 85	<b>NT1</b>	platinum 170
<b>NT1</b>	molybdenum 105	<b>NT1</b>	niobium 86	<b>NT1</b>	platinum 171
<b>NT1</b>	molybdenum 106	<b>NT1</b>	niobium 87	<b>NT1</b>	platinum 172
<b>NT1</b>	molybdenum 107	<b>NT1</b>	niobium 88	<b>NT1</b>	platinum 173
<b>NT1</b>	molybdenum 108	<b>NT1</b>	niobium 89	<b>NT1</b>	platinum 174
<b>NT1</b>	molybdenum 109	<b>NT1</b>	niobium 90	<b>NT1</b>	platinum 175
<b>NT1</b>	molybdenum 110	<b>NT1</b>	niobium 91	<b>NT1</b>	platinum 176
<b>NT1</b>	molybdenum 111	<b>NT1</b>	niobium 92	<b>NT1</b>	platinum 177
<b>NT1</b>	molybdenum 112	<b>NT1</b>	niobium 93	<b>NT1</b>	platinum 178
<b>NT1</b>	molybdenum 113	<b>NT1</b>	niobium 94	<b>NT1</b>	platinum 179
<b>NT1</b>	molybdenum 114	<b>NT1</b>	niobium 95	<b>NT1</b>	platinum 180
<b>NT1</b>	molybdenum 115	<b>NT1</b>	niobium 96	<b>NT1</b>	potassium 41
<b>NT1</b>	molybdenum 83	<b>NT1</b>	niobium 97	<b>NT1</b>	potassium 42
<b>NT1</b>	molybdenum 84	<b>NT1</b>	niobium 98	<b>NT1</b>	potassium 43
<b>NT1</b>	molybdenum 85	<b>NT1</b>	niobium 99	<b>NT1</b>	potassium 44
<b>NT1</b>	molybdenum 86	<b>NT1</b>	osmium 161	<b>NT1</b>	potassium 45
<b>NT1</b>	molybdenum 87	<b>NT1</b>	osmium 162	<b>NT1</b>	potassium 46
<b>NT1</b>	molybdenum 88	<b>NT1</b>	osmium 163	<b>NT1</b>	potassium 47
<b>NT1</b>	molybdenum 89	<b>NT1</b>	osmium 164	<b>NT1</b>	potassium 48
<b>NT1</b>	molybdenum 90	<b>NT1</b>	osmium 165	<b>NT1</b>	potassium 49
<b>NT1</b>	molybdenum 91	<b>NT1</b>	osmium 166	<b>NT1</b>	potassium 50
<b>NT1</b>	molybdenum 92	<b>NT1</b>	osmium 167	<b>NT1</b>	potassium 51
<b>NT1</b>	molybdenum 93	<b>NT1</b>	osmium 168	<b>NT1</b>	potassium 52
<b>NT1</b>	molybdenum 94	<b>NT1</b>	osmium 169	<b>NT1</b>	potassium 53
<b>NT1</b>	molybdenum 95	<b>NT1</b>	osmium 170	<b>NT1</b>	potassium 54
<b>NT1</b>	molybdenum 96	<b>NT1</b>	osmium 171	<b>NT1</b>	potassium 55
<b>NT1</b>	molybdenum 97	<b>NT1</b>	osmium 172	<b>NT1</b>	potassium 56
<b>NT1</b>	molybdenum 98	<b>NT1</b>	osmium 173	<b>NT1</b>	rare earth nuclei
<b>NT1</b>	molybdenum 99	<b>NT1</b>	osmium 174	<b>NT2</b>	cerium 119
<b>NT1</b>	nickel 48	<b>NT1</b>	osmium 175	<b>NT2</b>	cerium 120
<b>NT1</b>	nickel 49	<b>NT1</b>	osmium 176	<b>NT2</b>	cerium 121
<b>NT1</b>	nickel 50	<b>NT1</b>	osmium 177	<b>NT2</b>	cerium 122
<b>NT1</b>	nickel 51	<b>NT1</b>	osmium 178	<b>NT2</b>	cerium 123
<b>NT1</b>	nickel 52	<b>NT1</b>	osmium 179	<b>NT2</b>	cerium 124
<b>NT1</b>	nickel 53	<b>NT1</b>	osmium 180	<b>NT2</b>	cerium 125
<b>NT1</b>	nickel 54	<b>NT1</b>	palladium 100	<b>NT2</b>	cerium 126
<b>NT1</b>	nickel 55	<b>NT1</b>	palladium 101	<b>NT2</b>	cerium 127

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NT2	terbium 171	NT1	rhenium 167	NT1	rubidium 98
NT2	thulium 144	NT1	rhenium 168	NT1	rubidium 99
NT2	thulium 145	NT1	rhenium 169	NT1	ruthenium 100
NT2	thulium 146	NT1	rhenium 170	NT1	ruthenium 101
NT2	thulium 147	NT1	rhenium 171	NT1	ruthenium 102
NT2	thulium 148	NT1	rhenium 172	NT1	ruthenium 103
NT2	thulium 149	NT1	rhenium 173	NT1	ruthenium 104
NT2	thulium 150	NT1	rhenium 174	NT1	ruthenium 105
NT2	thulium 151	NT1	rhenium 175	NT1	ruthenium 106
NT2	thulium 152	NT1	rhenium 176	NT1	ruthenium 107
NT2	thulium 153	NT1	rhenium 177	NT1	ruthenium 108
NT2	thulium 154	NT1	rhenium 178	NT1	ruthenium 109
NT2	thulium 155	NT1	rhenium 179	NT1	ruthenium 110
NT2	thulium 156	NT1	rhenium 180	NT1	ruthenium 111
NT2	thulium 157	NT1	rhodium 100	NT1	ruthenium 112
NT2	thulium 158	NT1	rhodium 101	NT1	ruthenium 113
NT2	thulium 159	NT1	rhodium 102	NT1	ruthenium 114
NT2	thulium 160	NT1	rhodium 103	NT1	ruthenium 115
NT2	thulium 161	NT1	rhodium 104	NT1	ruthenium 116
NT2	thulium 162	NT1	rhodium 105	NT1	ruthenium 117
NT2	thulium 163	NT1	rhodium 106	NT1	ruthenium 118
NT2	thulium 164	NT1	rhodium 107	NT1	ruthenium 119
NT2	thulium 165	NT1	rhodium 108	NT1	ruthenium 120
NT2	thulium 166	NT1	rhodium 109	NT1	ruthenium 87
NT2	thulium 167	NT1	rhodium 110	NT1	ruthenium 88
NT2	thulium 168	NT1	rhodium 111	NT1	ruthenium 89
NT2	thulium 169	NT1	rhodium 112	NT1	ruthenium 90
NT2	thulium 170	NT1	rhodium 113	NT1	ruthenium 91
NT2	thulium 171	NT1	rhodium 114	NT1	ruthenium 92
NT2	thulium 172	NT1	rhodium 115	NT1	ruthenium 93
NT2	thulium 173	NT1	rhodium 116	NT1	ruthenium 94
NT2	thulium 174	NT1	rhodium 117	NT1	ruthenium 95
NT2	thulium 175	NT1	rhodium 118	NT1	ruthenium 96
NT2	thulium 176	NT1	rhodium 119	NT1	ruthenium 97
NT2	thulium 177	NT1	rhodium 120	NT1	ruthenium 98
NT2	thulium 178	NT1	rhodium 121	NT1	ruthenium 99
NT2	thulium 179	NT1	rhodium 122	NT1	scandium 41
NT2	ytterbium 148	NT1	rhodium 89	NT1	scandium 42
NT2	ytterbium 149	NT1	rhodium 90	NT1	scandium 43
NT2	ytterbium 150	NT1	rhodium 91	NT1	scandium 44
NT2	ytterbium 151	NT1	rhodium 92	NT1	scandium 45
NT2	ytterbium 152	NT1	rhodium 93	NT1	scandium 46
NT2	ytterbium 153	NT1	rhodium 94	NT1	scandium 47
NT2	ytterbium 154	NT1	rhodium 95	NT1	scandium 48
NT2	ytterbium 155	NT1	rhodium 96	NT1	scandium 49
NT2	ytterbium 156	NT1	rhodium 97	NT1	scandium 50
NT2	ytterbium 157	NT1	rhodium 98	NT1	scandium 51
NT2	ytterbium 158	NT1	rhodium 99	NT1	scandium 52
NT2	ytterbium 159	NT1	rubidium 100	NT1	scandium 53
NT2	ytterbium 160	NT1	rubidium 101	NT1	scandium 54
NT2	ytterbium 161	NT1	rubidium 102	NT1	scandium 55
NT2	ytterbium 162	NT1	rubidium 103	NT1	scandium 56
NT2	ytterbium 163	NT1	rubidium 71	NT1	scandium 57
NT2	ytterbium 164	NT1	rubidium 72	NT1	scandium 58
NT2	ytterbium 165	NT1	rubidium 73	NT1	scandium 59
NT2	ytterbium 166	NT1	rubidium 74	NT1	scandium 60
NT2	ytterbium 167	NT1	rubidium 75	NT1	scandium 61
NT2	ytterbium 168	NT1	rubidium 76	NT1	selenium 64
NT2	ytterbium 169	NT1	rubidium 77	NT1	selenium 65
NT2	ytterbium 170	NT1	rubidium 78	NT1	selenium 66
NT2	ytterbium 171	NT1	rubidium 79	NT1	selenium 67
NT2	ytterbium 172	NT1	rubidium 80	NT1	selenium 68
NT2	ytterbium 173	NT1	rubidium 81	NT1	selenium 69
NT2	ytterbium 174	NT1	rubidium 82	NT1	selenium 70
NT2	ytterbium 175	NT1	rubidium 83	NT1	selenium 71
NT2	ytterbium 176	NT1	rubidium 84	NT1	selenium 72
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NT2	ytterbium 178	NT1	rubidium 86	NT1	selenium 74
NT2	ytterbium 179	NT1	rubidium 87	NT1	selenium 75
NT2	ytterbium 180	NT1	rubidium 88	NT1	selenium 76
NT2	ytterbium 181	NT1	rubidium 89	NT1	selenium 77
NT1	rhenium 159	NT1	rubidium 90	NT1	selenium 78
NT1	rhenium 160	NT1	rubidium 91	NT1	selenium 79
NT1	rhenium 161	NT1	rubidium 92	NT1	selenium 80
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NT1	rhenium 163	NT1	rubidium 94	NT1	selenium 82
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 NT1 xenon 147  
 NT1 yttrium 100  
 NT1 yttrium 101  
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 NT1 zirconium 96  
 NT1 zirconium 97  
 NT1 zirconium 98  
 NT1 zirconium 99  
 RT nuclear structure

## INTERMEDIATE NEUTRONS

\*BT1 neutrons  
 RT resonance neutrons

## INTERMEDIATE REACTORS

\*BT1 epithermal reactors  
 NT1 thor reactor  
 RT resonance neutrons

## INTERMEDIATE RESONANCE

BT1 resonance  
 RT cross sections  
 RT intermediate structure  
 RT nuclear reactions

## INTERMEDIATE STATE

2000-04-12

*A state of partial superconductivity that occurs when a magnetic field of appropriate strength is applied to a superconducting material below its critical temperature.*

RT superconductivity

## intermediate storage

INIS: 1982-12-06; ETDE: 2002-06-13  
 USE waste storage

## INTERMEDIATE STRUCTURE

RT cross sections  
 RT intermediate resonance  
 RT nuclear reactions

## intermediate technology

INIS: 2000-04-12; ETDE: 1978-06-14  
 USE appropriate technology

**INTERMEDIATE VECTOR BOSONS**

*SF* weak boson  
 \*BT1 intermediate bosons  
 NT1 w minus bosons  
 NT1 w plus bosons  
 NT1 z neutral bosons  
 RT electron-quark interactions  
 RT weinberg angle

**intermediates (reaction)**

*INIS*: 2000-04-12; *ETDE*: 1980-03-04  
 SEE reaction intermediates

**INTERMETALLIC COMPOUNDS**

1995-11-22

*Alloy of two or more metals in which a change in composition is accompanied by a progression of phases, differing in crystal structure. Index the constituent metals with descriptors of the form (METAL) ALLOYS.*

*UF* electron compounds  
 BT1 alloys  
 NT1 cementite  
 RT antimonides  
 RT arsenides  
 RT borides  
 RT laves phases  
 RT selenides  
 RT semimetals  
 RT silicides  
 RT tellurides

**INTERMOLECULAR FORCES**

*RT* binding energy  
*RT* potentials  
*RT* van der waals forces

**INTERNAL BREMSSTRAHLUNG**

*UF* inner bremsstrahlung  
 \*BT1 bremsstrahlung

**INTERNAL COMBUSTION ENGINES**

1997-06-19

*UF* gas engines  
*UF* gasoline engines  
 \*BT1 heat engines  
 NT1 diesel engines  
 NT1 direct injection engines  
 NT1 dual-fuel engines  
 NT1 gas turbine engines  
 NT1 ramjet engines  
 NT1 rotary engines  
 NT2 wankel engines  
 NT1 spark ignition engines  
 NT2 wankel engines  
 NT1 stratified charge engines  
 NT1 turbofan engines  
 NT1 turbojet engines  
 RT aaps  
 RT autoignition  
 RT carburetors  
 RT compression ratio  
 RT exhaust gases  
 RT ignition systems  
 RT knock control  
 RT pcv systems  
 RT pistons  
 RT superchargers

**internal contamination**

USE radionuclide kinetics

**INTERNAL CONVERSION**

BT1 conversion  
 \*BT1 nuclear decay  
 NT1 k conversion  
 NT1 l conversion  
 NT1 m conversion  
 RT energy levels  
 RT gamma decay  
 RT internal conversion radioisotopes

*RT* internal pair production

**INTERNAL CONVERSION RADIOISOTOPES**

\*BT1 radioisotopes  
 NT1 actinium 227  
 NT1 antimony 119  
 NT1 antimony 122  
 NT1 antimony 124  
 NT1 antimony 126  
 NT1 astatine 212  
 NT1 barium 131  
 NT1 barium 133  
 NT1 barium 135  
 NT1 berkelium 243  
 NT1 bromine 77  
 NT1 bromine 80  
 NT1 bromine 82  
 NT1 cadmium 111  
 NT1 cadmium 113  
 NT1 californium 247  
 NT1 californium 250  
 NT1 cerium 133  
 NT1 cerium 137  
 NT1 cesium 123  
 NT1 cesium 134  
 NT1 cesium 138  
 NT1 cobalt 58  
 NT1 cobalt 60  
 NT1 dysprosium 159  
 NT1 einsteinium 254  
 NT1 erbium 156  
 NT1 erbium 169  
 NT1 germanium 73  
 NT1 germanium 75  
 NT1 gold 191  
 NT1 gold 193  
 NT1 gold 195  
 NT1 gold 196  
 NT1 gold 197  
 NT1 hafnium 178  
 NT1 hafnium 179  
 NT1 hafnium 180  
 NT1 holmium 158  
 NT1 holmium 160  
 NT1 holmium 164  
 NT1 indium 112  
 NT1 indium 114  
 NT1 indium 115  
 NT1 indium 116  
 NT1 indium 121  
 NT1 iodine 125  
 NT1 iodine 129  
 NT1 iodine 130  
 NT1 iodine 132  
 NT1 iodine 133  
 NT1 iridium 190  
 NT1 iridium 191  
 NT1 iridium 192  
 NT1 iridium 193  
 NT1 krypton 79  
 NT1 krypton 83  
 NT1 lead 199  
 NT1 lead 202  
 NT1 lutetium 169  
 NT1 lutetium 170  
 NT1 lutetium 171  
 NT1 lutetium 172  
 NT1 lutetium 176  
 NT1 mercury 193  
 NT1 mercury 195  
 NT1 mercury 197  
 NT1 mercury 199  
 NT1 molybdenum 93  
 NT1 neodymium 147  
 NT1 neptunium 236  
 NT1 niobium 91  
 NT1 niobium 93  
 NT1 niobium 94

NT1 osmium 180  
 NT1 osmium 189  
 NT1 osmium 190  
 NT1 osmium 191  
 NT1 osmium 194  
 NT1 palladium 112  
 NT1 platinum 193  
 NT1 platinum 195  
 NT1 platinum 197  
 NT1 platinum 199  
 NT1 plutonium 235  
 NT1 plutonium 237  
 NT1 polonium 199  
 NT1 polonium 201  
 NT1 polonium 202  
 NT1 polonium 203  
 NT1 polonium 205  
 NT1 polonium 206  
 NT1 polonium 207  
 NT1 praseodymium 142  
 NT1 promethium 145  
 NT1 radium 213  
 NT1 radium 225  
 NT1 radium 228  
 NT1 radium 230  
 NT1 radon 210  
 NT1 radon 211  
 NT1 rhenium 183  
 NT1 rhenium 184  
 NT1 rhenium 188  
 NT1 rhenium 189  
 NT1 rhodium 100  
 NT1 rhodium 101  
 NT1 rhodium 103  
 NT1 rhodium 105  
 NT1 rhodium 96  
 NT1 rubidium 81  
 NT1 samarium 145  
 NT1 samarium 151  
 NT1 scandium 46  
 NT1 selenium 79  
 NT1 selenium 81  
 NT1 silver 103  
 NT1 silver 105  
 NT1 silver 107  
 NT1 silver 109  
 NT1 silver 111  
 NT1 silver 99  
 NT1 tantalum 182  
 NT1 technetium 96  
 NT1 technetium 97  
 NT1 technetium 99  
 NT1 tellurium 121  
 NT1 tellurium 123  
 NT1 tellurium 125  
 NT1 terbium 151  
 NT1 terbium 157  
 NT1 terbium 158  
 NT1 thallium 198  
 NT1 thorium 234  
 NT1 thulium 159  
 NT1 thulium 161  
 NT1 tin 113  
 NT1 tin 119  
 NT1 tin 121  
 NT1 tungsten 176  
 NT1 tungsten 181  
 NT1 tungsten 185  
 NT1 uranium 230  
 NT1 uranium 235  
 NT1 uranium 240  
 NT1 xenon 125  
 NT1 xenon 129  
 NT1 xenon 131  
 NT1 xenon 133  
 NT1 ytterbium 164  
 NT1 ytterbium 165  
 NT1 ytterbium 166  
 NT1 ytterbium 177

**NT1** yttrium 86  
**RT** internal conversion

### INTERNAL ELECTROMAGNETIC PULSES

\***BT1** electromagnetic pulses  
**RT** electron emission

### INTERNAL FRICTION

**UF** friction (internal)  
**BT1** friction  
**RT** bordoni peak  
**RT** crystal defects  
**RT** damping  
**RT** hysteresis  
**RT** viscosity

### INTERNAL IONIZATION

**BT1** ionization  
**RT** beta decay

### INTERNAL IRRADIATION

**UF** absorbed fraction (internal irradiation)  
**UF** effective energy (internal irradiation)  
**BT1** irradiation  
**RT** afterloading  
**RT** brachytherapy  
**RT** critical organs  
**RT** dose commitments  
**RT** radiation source implants  
**RT** radionuclide kinetics  
**RT** unsealed sources

### INTERNAL MARKET

**INIS: 1995-03-02; ETDE: 1995-01-03**  
 (Until December 1994 this concept was indexed to COMMON MARKET.)  
**UF** common market  
**UF** european economic community  
**UF** single market  
 \***BT1** european union

### internal medicine

**USE** medicine

### INTERNAL PAIR PRODUCTION

*Creation of an electron-positron pair by internal conversion of a nucleus with excitation of more than 1.022 MeV.*  
**UF** pair conversion  
 \***BT1** pair production  
**RT** decay  
**RT** internal conversion

### internal revenue service

**INIS: 2000-04-12; ETDE: 1978-04-06**  
**USE** us irs

### INTERNAL RING DEVICES

1996-07-08  
 \***BT1** closed plasma devices  
**NT1** fm devices  
**NT1** levitron devices  
**NT1** lm devices  
**NT1** spherator  
**NT1** tokapole devices  
**NT1** tornado devices  
**RT** minimum average-b configurations  
**RT** multipolar configurations

### INTERNAL WAVES

**INIS: 2000-04-12; ETDE: 1982-02-23**  
*A wave motion of a stably stratified fluid in which the maximum vertical motion takes place below the surface of the fluid.*  
**RT** energy transfer  
**RT** water waves  
**RT** wave propagation

### international affairs

**INIS: 1994-09-09; ETDE: 1980-05-06**  
**USE** international relations

### INTERNATIONAL AGREEMENTS

*Including agreements involving international organizations. The countries or organizations parties to the agreement are also indexed if appropriate.*

**BT1** agreements  
**NT1** atomic energy agreements  
**NT1** bilateral agreements  
**NT1** iaea agreements  
**NT1** multilateral agreements  
**NT2** bcoclmcnm  
**NT2** bcolons  
**NT2** bcstpc  
**NT2** canare  
**NT2** cenna  
**NT2** cppnm  
**NT2** csnd  
**NT2** international convention on nuclear safety  
**NT2** kyoto protocol  
**NT2** lcpmpdpw  
**NT2** paris agreement  
**NT2** pcotpl  
**NT2** rio declaration  
**NT2** solas convention  
**NT2** unfccc  
**NT2** vcoclnd  
**RT** coordinated research programs  
**RT** foreign policy  
**RT** international cooperation  
**RT** international relations  
**RT** north star project  
**RT** nuclear freeze  
**RT** rarotonga treaty  
**RT** treaties

### international atomic energy agency

1993-11-08  
**USE** iaea

### international center for theoretical physics

**INIS: 1993-11-08; ETDE: 2002-06-13**  
**USE** ictp

### international commission on radiation units and measurements

2006-05-22  
**USE** icru

### international commission radiological protection

1993-11-08  
**USE** icrp

### INTERNATIONAL CONTROL

\***BT1** atomic energy control  
**RT** international cooperation

### INTERNATIONAL CONVENTION ON NUCLEAR SAFETY

**INIS: 2002-02-04; ETDE: 2005-01-28**  
 (Prior to January 2005 ICNS was used for this concept.)  
**UF** convention on nuclear safety  
**UF** icns (international convention on nuclear safety)  
**UF** nuclear safety convention  
 \***BT1** multilateral agreements  
**RT** iaea  
**RT** radiation protection  
**RT** reactor safety

### INTERNATIONAL COOPERATION

1996-01-09  
*The cooperating countries or organizations are also indexed if appropriate.*

**BT1** cooperation  
**RT** coordinated research programs  
**RT** dumand project  
**RT** embargoes  
**RT** euromarket  
**RT** foreign policy  
**RT** ifiec  
**RT** international agreements  
**RT** international control  
**RT** international nuclear data committee  
**RT** international organizations  
**RT** international relations  
**RT** military assistance  
**RT** multinational enterprises  
**RT** technology transfer

### INTERNATIONAL ELECTROTECHNICAL COMMISSION

2004-09-14  
**UF** iec (international electrotechnical commission)  
**BT1** international organizations  
**RT** iso  
**RT** recommendations  
**RT** standards  
**RT** standards document

### INTERNATIONAL ENERGY AGENCY

**INIS: 1977-04-07; ETDE: 1976-03-11**  
**UF** iea  
**BT1** international organizations  
**RT** energy policy  
**RT** energy shortages  
**RT** etde  
**RT** oecd

### international federation of industrial energy consumers

**INIS: 1993-11-08; ETDE: 2002-06-13**  
**USE** ifiec

### international food irradiation project

**INIS: 1993-11-08; ETDE: 2002-06-13**  
**USE** ifip

### international fusion superconducting magnet test facility

**INIS: 2000-04-12; ETDE: 1987-04-08**  
**IFSMTF.**  
 (From February 1979 to March 1997 LARGE COIL PROGRAM was a valid ETDE descriptor.)  
**USE** test facilities

### INTERNATIONAL GEOPHYSICAL YEAR

**UF** igy  
**RT** geophysics  
**RT** sun

### international labour organisation

1993-11-08  
**USE** ilo

### INTERNATIONAL LAWS

1990-12-15  
 (Prior to December 1990, this descriptor was spelled INTERNATIONAL LAW.)  
**BT1** laws  
**RT** treaties

**INTERNATIONAL LINEAR COLLIDER**

2015-09-08

*A proposed linear electron-positron collider with collision energy up to 500 GeV.*

UF ilc

\*BT1 linear colliders

**INTERNATIONAL MAGNETOSPHERIC STUDY**

INIS: 1990-12-15; ETDE: 1977-10-20

*The study covers the years 1976-1978.**(Prior to December 1990, this descriptor was spelled INTERNATL MAGNETOSPHERIC STUDY, and documents were indexed with this spelling.)*

UF ims

UF *internatl magnetospheric study*

RT earth magnetosphere

RT geomagnetic field

RT magnetopause

RT magnetosheath

RT magnetotail

RT plasmopause

RT plasmasphere

**international maritime consultative organization**

1993-11-08

USE imo

**international maritime organization**

2001-07-19

USE imo

**INTERNATIONAL NUCLEAR DATA COMMITTEE**

INIS: 1976-07-16; ETDE: 1978-01-23

UF indc

BT1 international organizations

RT international cooperation

RT nuclear data collections

RT us nuclear data network

**INTERNATIONAL NUCLEAR EVENT SCALE**

1995-05-10

UF ines

RT emergency plans

RT fission product release

RT radiation accidents

RT radiation protection

RT reactor accidents

RT reactor safety

**international nuclear information system**

1993-11-08

USE inis

**INTERNATIONAL ORGANIZATIONS**

1998-06-10

UF ccms

UF oas

UF *organization of american states*

NT1 abacc

NT1 arab atomic energy agency

NT1 cen

NT1 cern

NT1 comecon

NT1 ctbt

NT1 esa

NT1 esarda

NT1 eurodif

NT1 european union

NT2 ecsc

NT2 euratom

NT2 internal market

NT1 fao

NT1 foratom

NT1 iaea

NT2 ictp

NT2 monaco marine environment laboratory

NT2 seibersdorf iaea laboratory

NT1 icrp

NT1 icru

NT1 ifiec

NT1 ilo

NT1 imo

NT1 international electrotechnical commission

NT1 international energy agency

NT1 international nuclear data committee

NT1 irpa

NT1 iso

NT1 jinr

NT1 nato

NT1 oapec

NT1 oecd

NT2 nea

NT1 olade

NT1 opec

NT1 sesame synchrotron laboratory

NT1 undp

NT1 unep

NT1 unesco

NT1 unidir

NT1 unido

NT1 united nations

NT1 unscar

NT1 uranium institute

NT1 wano

NT1 wenra

NT1 who

NT1 wmo

NT1 world bank

NT1 world energy council

RT coordinated research programs

RT international cooperation

RT member states

RT national organizations

**INTERNATIONAL QUIET SUN YEAR**

UF iqsy

RT sun

**international radiation protection association**

INIS: 1993-11-08; ETDE: 2002-06-13

USE irpa

**INTERNATIONAL REGULATIONS**

INIS: 1976-07-16; ETDE: 1976-09-15

\*BT1 regulations

NT1 oecd mcmsdrw

**INTERNATIONAL RELATIONS**

INIS: 1994-09-09; ETDE: 1980-05-06

*Political aspects of affairs between countries.*UF *balance of power*UF *international affairs*

RT international agreements

RT international cooperation

RT salt talks

RT trade

**INTERNATIONAL SOLAR MAXIMUM YEAR**

INIS: 1990-12-17; ETDE: 1981-08-04

*Began in October 1979.**(Prior to December 1990, this descriptor was spelled INTERNATL SOLAR MAXIMUM YEAR, and documents were indexed with this spelling.)*UF *internatl solar maximum year*

RT solar cycle

RT sun

**INTERNATIONAL SPACE STATION**

2005-10-13

UF *iss orbital station*

BT1 satellites

\*BT1 space vehicles

**international standard organization**

1993-11-08

USE iso

**international tokamak reactor**

INIS: 1980-09-12; ETDE: 1980-10-07

USE intor tokamak

**internatl magnetospheric study**

INIS: 1990-12-15; ETDE: 2002-06-13

*(Prior to December 1990, this was a valid descriptor.)*

USE international magnetospheric study

**internatl solar maximum year**

INIS: 1990-12-17; ETDE: 2002-06-13

*(Prior to December 1990, this was a valid descriptor.)*

USE international solar maximum year

**INTERNET**

1995-10-27

*For documents discussing the Internet.*

BT1 computer networks

RT information dissemination

**INTERPLANETARY MAGNETIC FIELDS**

BT1 magnetic fields

RT interplanetary space

**INTERPLANETARY SPACE**

BT1 space

RT geocorona

RT interplanetary magnetic fields

RT solar system

RT zodiacal light

**INTERPOLATION**

\*BT1 numerical solution

RT extrapolation

RT mathematics

RT runge-kutta method

RT spline functions

**intersecting beams**

USE colliding beams

**intersecting storage accelerator**

1993-11-08

USE isabelle storage rings

**INTERSTELLAR GRAINS**

BT1 particles

RT cosmic dust

RT cosmic gases

RT star accretion

**INTERSTELLAR MAGNETIC FIELDS**

BT1 magnetic fields

RT interstellar space

**INTERSTELLAR SPACE**

BT1 space

RT cosmic dust

RT cosmic gases

RT interstellar magnetic fields

RT milky way

RT star accretion

**interstitial cell stim hormone**

USE luteinizing hormone

**INTERSTITIAL HELIUM GENERATION**

INIS: 1990-12-15; ETDE: 1991-08-14

Generation of helium in the lattice structure of structural materials due to neutron irradiation.

(Prior to December 1990, this concept was indexed by HELIUM GENERATION.)

UF helium generation

UF helium production rates

SF gas production rates

\*BT1 physical radiation effects

RT damaging neutron fluence

RT helium embrittlement

**INTERSTITIAL HYDROGEN GENERATION**

INIS: 1990-12-15; ETDE: 1991-08-15

Generation of hydrogen in the lattice structure of structural materials due to neutron irradiation.

(Prior to December 1990, this concept was indexed by HYDROGEN GENERATION.)

UF hydrogen generation

UF hydrogen production rates

SF gas production rates

\*BT1 physical radiation effects

RT damaging neutron fluence

RT hydrogen embrittlement

**INTERSTITIAL WATER**

INIS: 1994-08-26; ETDE: 1976-08-04

Subsurface water contained in pore spaces between the grains of rock and sediments.

UF connate water

UF formation water

\*BT1 ground water

RT natural gas wells

RT oil wells

RT pore pressure

RT reservoir fluids

RT reservoir rock

RT sandstones

**INTERSTITIALS**

1996-01-24

\*BT1 point defects

NT1 i centers

RT crowdions

**interuniversitair reactor instituut**

ETDE: 1976-05-19

Delft, the Netherlands.

USE iri

**INTERVENORS**

INIS: 2000-04-03; ETDE: 1977-09-19

(From July 1976 till February 1997 ADVERSARIES was a valid ETDE descriptor.)

SF adversaries

RT decision making

RT interest groups

RT legal aspects

**interventions**

INIS: 2000-04-12; ETDE: 1980-08-25

(Prior to April 1994, this was a valid ETDE descriptor.)

USE administrative procedures

**intervertebral disks**

INIS: 1984-04-04; ETDE: 2002-06-13

USE cartilage

USE vertebrae

**INTESTINAL ABSORPTION**

UF absorption (intestinal)

\*BT1 absorption

BT1 uptake

RT digestion

RT ingestion

RT oral administration

RT portal system

RT rectal administration

RT small intestine

**INTESTINES**

1996-07-18

\*BT1 gastrointestinal tract

\*BT1 organs

NT1 large intestine

NT2 rectum

NT1 small intestine

RT aerobacter

RT ascaridae

RT constipation

RT crypt cells

RT diarrhea

RT enteritis

RT escherichia coli

RT portal system

**INTOR TOKAMAK**

INIS: 1980-09-12; ETDE: 1979-12-10

International tokamak reactor.

UF international tokamak reactor

\*BT1 tokamak devices

**INTRACELLULAR DIGESTION**

BT1 digestion

RT animal cells

RT phagocytosis

**INTRAMUSCULAR INJECTION**

\*BT1 injection

**intranuclear cascades**

USE nuclear cascades

**INTRAPERITONEAL INJECTION**

\*BT1 injection

RT peritoneum

**INTRATRACHEAL****ADMINISTRATION**

RT inhalation

RT radionuclide administration

RT trachea

**INTRAVENOUS INJECTION**

\*BT1 injection

RT veins

**INTRINSIC FACTOR**

\*BT1 hematinics

\*BT1 mucoproteins

RT anemias

RT hormones

RT stomach

RT vitamin b-12

**INTRONS**

INIS: 1995-06-09; ETDE: 1994-02-25

RT dna

RT exons

RT gene regulation

RT genes

RT rna

RT splicing

**intrusion**

INIS: 2000-04-12; ETDE: 1978-04-06

(Prior to October 1990 this was a valid ETDE descriptor.)

SEE biointrusion

SEE human intrusion

SEE plutonic rocks

SEE water influx

**intrusion (animals)**

INIS: 1985-07-23; ETDE: 2002-06-13

USE biointrusion

**intrusion (human)**

INIS: 1985-07-23; ETDE: 2002-06-13

USE human intrusion

**intrusion (plants)**

INIS: 1985-07-23; ETDE: 2002-06-13

USE biointrusion

**intrusion (rock)**

INIS: 1985-07-23; ETDE: 2002-06-13

Process of emplacement of fluid material into pre-existing rock. Coordinate the descriptor below with other appropriate descriptor(s), e.g. POSITIONING, PETROGENESIS.

USE plutonic rocks

**intrusion (water)**

INIS: 1985-07-23; ETDE: 2002-06-13

USE water influx

**INTRUSION DETECTION SYSTEMS**

INIS: 1999-01-05; ETDE: 1982-09-10

SF adaptive intrusion data systems

BT1 alarm systems

RT detection

RT motion detection systems

RT nuclear materials management

RT physical protection

RT safeguards

RT security

**intrusive rocks**

INIS: 1985-10-23; ETDE: 1985-11-13

Rocks formed from emplacement of fluid material into pre-existing rock.

USE plutonic rocks

**INULIN**

\*BT1 polysaccharides

RT polyacetals

**invap (argentina)**

2003-03-18

USE argentine invap

**INVAR**

\*BT1 iron base alloys

\*BT1 nickel alloys

**INVARIANCE PRINCIPLES**

NT1 c invariance

NT1 charge independence

NT1 conformal invariance

NT1 cp invariance

NT1 cpt theorem

NT1 g-parity invariance

NT1 gauge invariance

NT1 lorentz invariance

NT1 p invariance

NT1 rotational invariance

NT1 scale invariance

NT1 t invariance

NT2 detailed balance principle

RT adiabatic invariance

RT conservation laws

RT fundamental interactions

RT goldstone bosons

RT symmetry

**INVARIANT IMBEDDING**

RT geometry

RT topology

RT transport theory

**invention secrecy act**

INIS: 2000-04-12; ETDE: 1980-04-14

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE laws

SEE secrecy protection

**INVENTIONS**

INIS: 1994-07-01; ETDE: 1979-10-23

- RT patents  
RT technology transfer

**INVENTORIES**

- UF petroleum stocks  
UF stocks  
RT accounting  
RT availability  
RT losses  
RT material balance  
RT material unaccounted for  
RT safeguards  
RT shortages  
RT storage  
RT storage facilities

**inverse pinch devices (linear)**

USE linear hard core pinch devices

**INVERSE SCATTERING PROBLEM**

Problem of determining scattering potential from phase shifts.

- RT scattering

**inversions (temperature)**

INIS: 1976-10-29; ETDE: 2002-06-13

USE temperature inversions

**INVERTEBRATES**

1997-06-17

- BT1 animals  
NT1 annelids  
NT1 arthropods  
NT2 arachnids  
NT3 mites  
NT3 scorpions  
NT3 spiders  
NT3 ticks  
NT2 crustaceans  
NT3 branchiopods  
NT4 artemia  
NT4 daphnia  
NT3 copepods  
NT3 decapods  
NT4 crabs  
NT4 lobsters  
NT4 prawns  
NT4 shrimp  
NT2 insects  
NT3 coleoptera  
NT4 beetles  
NT5 boll weevil  
NT5 tribolium  
NT3 dictyoptera  
NT4 cockroaches  
NT3 diptera  
NT4 flies  
NT5 fruit flies  
NT6 anastrepha  
NT6 ceratitis capitata  
NT6 dacus  
NT7 dacus oleae  
NT6 drosophila  
NT5 glossina  
NT5 hylemya antiqua  
NT5 screwworm fly  
NT4 mosquitoes  
NT3 ephemeroptera  
NT3 hemiptera  
NT4 aphids  
NT3 hymenoptera  
NT4 ants  
NT4 bees  
NT4 wasps  
NT3 lepidoptera  
NT4 moths  
NT5 bollworm  
NT5 codling moth

- NT5 lymantria dispar  
NT5 rice stem borers  
NT5 silkworm  
NT3 orthoptera  
NT4 grasshoppers  
NT5 locusts  
NT1 bryozoa  
NT1 coelenterata  
NT2 cnidaria  
NT3 corals  
NT3 hydra  
NT1 echinoderms  
NT2 sea urchins  
NT1 molluscs  
NT2 clams  
NT2 mussels  
NT2 oysters  
NT2 snails  
NT1 nematodes  
NT2 ascaridae  
NT3 ascaris  
NT2 dictyocaulus  
NT2 hookworm  
NT2 trichinella  
NT1 platyhelminths  
NT2 cestodes  
NT2 trematodes  
NT3 fasciola  
NT3 schistosoma  
NT2 turbellaria  
NT3 planaria  
NT1 protozoa  
NT2 ciliata  
NT3 paramecium  
NT3 tetrahymena  
NT2 mastigophora  
NT3 dinoflagellate  
NT3 euglena  
NT3 trypanosoma  
NT2 sarcodina  
NT3 amoeba  
NT3 foraminifera  
NT2 sporozoa  
NT3 babesidae  
NT3 plasmodium  
NT1 rotifera  
RT parasites

**INVERTED STEPANOV METHOD**

INIS: 1996-04-18; ETDE: 1980-02-11

An edge-defined film-growth method which uses nonwetted dies.

- SF stepanov method  
BT1 crystal growth methods  
RT crystal growth  
RT efg method  
RT sheets

**INVERTERS**

INIS: 1976-09-06; ETDE: 1975-08-19

Excludes AC to DC converters for which use RECTIFIERS.

- UF dc to ac inverters  
\*BT1 electrical equipment  
RT dc to dc converters  
RT power conditioning circuits  
RT power supplies

**investigations**

INIS: 2000-04-12; ETDE: 1980-07-09

For inquiries in the legalistic sense; not for scientific studies.

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE administrative procedures

**INVESTMENT**

- RT capital  
RT cost  
RT diversification

- RT economics  
RT euromarket  
RT financing  
RT interest rate  
RT payback period  
RT property values

**inviscid flow**

1986-03-04

USE ideal flow

**INVOICES**

Itemized lists of goods shipped, usually specifying the price and the terms of sale.

- RT accounting  
RT charges

**IODATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

- \*BT1 iodine compounds  
BT1 oxygen compounds  
RT iodic acid

**iodex process**

2000-04-12

USE iodox process

**IODIC ACID**

- \*BT1 inorganic acids  
\*BT1 iodine compounds  
BT1 oxygen compounds  
RT iodates

**IODIDES**

1997-06-17

- \*BT1 halides  
\*BT1 iodine compounds  
NT1 aluminium iodides  
NT1 americium iodides  
NT1 antimony iodides  
NT1 argon iodides  
NT1 arsenic iodides  
NT1 astatine iodides  
NT1 barium iodides  
NT1 beryllium iodides  
NT1 bismuth iodides  
NT1 boron iodides  
NT1 cadmium iodides  
NT1 calcium iodides  
NT1 californium iodides  
NT1 cerium iodides  
NT1 cesium iodides  
NT1 chromium iodides  
NT1 cobalt iodides  
NT1 copper iodides  
NT1 curium iodides  
NT1 dysprosium iodides  
NT1 einsteinium iodides  
NT1 erbium iodides  
NT1 europium iodides  
NT1 fermium iodides  
NT1 gadolinium iodides  
NT1 gallium iodides  
NT1 germanium iodides  
NT1 gold iodides  
NT1 hafnium iodides  
NT1 holmium iodides  
NT1 hydrogen iodides  
NT1 indium iodides  
NT1 iron iodides  
NT2 iron halides  
NT3 iron bromides  
NT3 iron chlorides  
NT3 iron fluorides  
NT1 lanthanum iodides  
NT1 lead iodides  
NT1 lithium iodides  
NT1 lutetium iodides



**NT1** magnesium iodides  
**NT1** manganese iodides  
**NT1** mercury iodides  
**NT1** molybdenum iodides  
**NT1** neodymium iodides  
**NT1** neon iodides  
**NT1** neptunium iodides  
**NT1** nickel iodides  
**NT1** niobium iodides  
**NT1** nitrogen iodides  
**NT1** palladium iodides  
**NT1** phosphorus iodides  
**NT1** platinum iodides  
**NT1** plutonium iodides  
**NT1** polonium iodides  
**NT1** potassium iodides  
**NT1** praseodymium iodides  
**NT1** promethium iodides  
**NT1** protactinium iodides  
**NT1** rhenium iodides  
**NT1** rubidium iodides  
**NT1** samarium iodides  
**NT1** scandium iodides  
**NT1** selenium iodides  
**NT1** silicon iodides  
**NT1** silver iodides  
**NT1** sodium iodides  
**NT1** strontium iodides  
**NT1** tantalum iodides  
**NT1** technetium iodides  
**NT1** tellurium iodides  
**NT1** terbium iodides  
**NT1** thallium iodides  
**NT1** thorium iodides  
**NT1** thulium iodides  
**NT1** tin iodides  
**NT1** titanium iodides  
**NT1** tungsten iodides  
**NT1** uranium iodides  
**NT1** vanadium iodides  
**NT1** xenon iodides  
**NT1** ytterbium iodides  
**NT1** yttrium iodides  
**NT1** zinc iodides  
**NT1** zirconium iodides  
**RT** oxyiodides

#### IODINATED ALICYCLIC HYDROCARBONS

2000-04-12

\*BT1 halogenated alicyclic hydrocarbons  
 \*BT1 organic iodine compounds

#### IODINATED ALIPHATIC HYDROCARBONS

1991-09-30

(Prior to October 1991, this concept was indexed by ORGANIC IODINE COMPOUNDS.)

\*BT1 halogenated aliphatic hydrocarbons  
 \*BT1 organic iodine compounds  
**NT1** iodoform  
**NT1** methyl iodide

#### IODINATED AROMATIC HYDROCARBONS

1991-10-01

\*BT1 halogenated aromatic hydrocarbons  
 \*BT1 organic iodine compounds

#### iodinated hydrocarbons

ETDE: 2002-06-13

USE organic iodine compounds

#### IODINATION

\*BT1 halogenation  
**RT** deiodination

#### IODINE

UF iodine iodides

\*BT1 halogens  
**RT** iodine additions  
**RT** iodox process  
**RT** lugol  
**RT** thyroglobulin  
**RT** thyroid  
**RT** thyroid hormones

#### IODINE 108

INIS: 1991-03-22; ETDE: 1991-04-09

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

#### IODINE 109

INIS: 1984-06-21; ETDE: 1984-07-10

\*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes

#### IODINE 110

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

#### IODINE 111

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

#### IODINE 112

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

#### IODINE 113

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

#### IODINE 114

INIS: 1978-02-23; ETDE: 1978-03-08

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

#### IODINE 115

1978-07-03

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

#### IODINE 116

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

#### IODINE 117

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

#### IODINE 118

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

#### IODINE 119

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

#### IODINE 120

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

#### IODINE 121

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei

#### IODINE 122

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

#### IODINE 123

\*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 odd-even nuclei

#### IODINE 124

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 odd-odd nuclei

#### IODINE 125

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 iodine isotopes  
 \*BT1 odd-even nuclei

**IODINE 126**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-odd nuclei

**IODINE 127**

- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**IODINE 127 BEAMS**

- INIS: 1979-04-27; ETDE: 1979-05-25*  
 \*BT1 ion beams

**IODINE 127 REACTIONS**

- 1984-05-28*  
 \*BT1 heavy ion reactions

**IODINE 127 TARGET**

- ETDE: 1976-07-09*  
 BT1 targets

**IODINE 128**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 128 TARGET**

- INIS: 1984-07-20; ETDE: 1984-08-20*  
 BT1 targets

**IODINE 129**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**IODINE 129 TARGET**

- ETDE: 1976-07-09*  
 BT1 targets

**IODINE 130**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 131**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei

**IODINE 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei

**IODINE 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes

- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IODINE 134**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 135**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei

**IODINE 136**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IODINE 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IODINE 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IODINE 139**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IODINE 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**IODINE 142**

- INIS: 1986-04-28; ETDE: 1986-07-03*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**IODINE 143**

- 2007-11-01*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 odd-even nuclei

**IODINE 144**

- 2007-11-01*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes

- \*BT1 odd-odd nuclei

**IODINE ADDITIONS**

- INIS: 1976-07-16; ETDE: 1976-09-15*  
 RT iodine

**IODINE BROMIDES**

- UF bromine iodides*  
 \*BT1 bromides  
 \*BT1 iodine halides

**IODINE CHLORIDES**

- UF chlorine iodides*  
 \*BT1 chlorides  
 \*BT1 iodine halides

**IODINE COMPLEXES**

- BT1 complexes

**IODINE COMPOUNDS**

- BT1 halogen compounds  
 NT1 hydriodic acid  
 NT1 hypoiodous acid  
 NT1 iodates  
 NT1 iodic acid  
 NT1 iodides  
 NT2 aluminium iodides  
 NT2 americium iodides  
 NT2 antimony iodides  
 NT2 argon iodides  
 NT2 arsenic iodides  
 NT2 astatine iodides  
 NT2 barium iodides  
 NT2 beryllium iodides  
 NT2 bismuth iodides  
 NT2 boron iodides  
 NT2 cadmium iodides  
 NT2 calcium iodides  
 NT2 californium iodides  
 NT2 cerium iodides  
 NT2 cesium iodides  
 NT2 chromium iodides  
 NT2 cobalt iodides  
 NT2 copper iodides  
 NT2 curium iodides  
 NT2 dysprosium iodides  
 NT2 einsteinium iodides  
 NT2 erbium iodides  
 NT2 europium iodides  
 NT2 fermium iodides  
 NT2 gadolinium iodides  
 NT2 gallium iodides  
 NT2 germanium iodides  
 NT2 gold iodides  
 NT2 hafnium iodides  
 NT2 holmium iodides  
 NT2 hydrogen iodides  
 NT2 indium iodides  
 NT2 iron iodides  
 NT3 iron halides  
 NT4 iron bromides  
 NT4 iron chlorides  
 NT4 iron fluorides  
 NT2 lanthanum iodides  
 NT2 lead iodides  
 NT2 lithium iodides  
 NT2 lutetium iodides  
 NT2 magnesium iodides  
 NT2 manganese iodides  
 NT2 mercury iodides  
 NT2 molybdenum iodides  
 NT2 neodymium iodides  
 NT2 neon iodides  
 NT2 neptunium iodides  
 NT2 nickel iodides  
 NT2 niobium iodides  
 NT2 nitrogen iodides  
 NT2 palladium iodides  
 NT2 phosphorus iodides  
 NT2 platinum iodides  
 NT2 plutonium iodides

**NT2** polonium iodides  
**NT2** potassium iodides  
**NT2** praseodymium iodides  
**NT2** promethium iodides  
**NT2** protactinium iodides  
**NT2** rhenium iodides  
**NT2** rubidium iodides  
**NT2** samarium iodides  
**NT2** scandium iodides  
**NT2** selenium iodides  
**NT2** silicon iodides  
**NT2** silver iodides  
**NT2** sodium iodides  
**NT2** strontium iodides  
**NT2** tantalum iodides  
**NT2** technetium iodides  
**NT2** tellurium iodides  
**NT2** terbium iodides  
**NT2** thallium iodides  
**NT2** thorium iodides  
**NT2** thulium iodides  
**NT2** tin iodides  
**NT2** titanium iodides  
**NT2** tungsten iodides  
**NT2** uranium iodides  
**NT2** vanadium iodides  
**NT2** xenon iodides  
**NT2** ytterbium iodides  
**NT2** yttrium iodides  
**NT2** zinc iodides  
**NT2** zirconium iodides  
**NT1** iodine halides  
**NT2** iodine bromides  
**NT2** iodine chlorides  
**NT2** iodine fluorides  
**NT1** iodine oxides  
**NT1** oxyiodides  
**NT1** periodates  
**NT1** periodic acid  
**RT** organic iodine compounds

**IODINE FLUORIDES**

**UF** *fluorine iodides*  
**\*BT1** fluorides  
**\*BT1** iodine halides

**IODINE HALIDES**

2012-07-19  
**\*BT1** halides  
**\*BT1** iodine compounds  
**NT1** iodine bromides  
**NT1** iodine chlorides  
**NT1** iodine fluorides

**iodine iodides**

**USE** iodine

**IODINE IONS**

**\*BT1** ions

**IODINE ISOTOPES**

1999-07-16  
**BT1** isotopes  
**NT1** iodine 108  
**NT1** iodine 109  
**NT1** iodine 110  
**NT1** iodine 111  
**NT1** iodine 112  
**NT1** iodine 113  
**NT1** iodine 114  
**NT1** iodine 115  
**NT1** iodine 116  
**NT1** iodine 117  
**NT1** iodine 118  
**NT1** iodine 119  
**NT1** iodine 120  
**NT1** iodine 121  
**NT1** iodine 122  
**NT1** iodine 123  
**NT1** iodine 124  
**NT1** iodine 125

**NT1** iodine 126  
**NT1** iodine 127  
**NT1** iodine 128  
**NT1** iodine 129  
**NT1** iodine 130  
**NT1** iodine 131  
**NT1** iodine 132  
**NT1** iodine 133  
**NT1** iodine 134  
**NT1** iodine 135  
**NT1** iodine 136  
**NT1** iodine 137  
**NT1** iodine 138  
**NT1** iodine 139  
**NT1** iodine 140  
**NT1** iodine 141  
**NT1** iodine 142  
**NT1** iodine 143  
**NT1** iodine 144

**IODINE LASERS**

1995-07-21  
**\*BT1** gas lasers

**IODINE NUMBER**

2000-04-12  
*A measure of the unsaturation of a substance, as an oil or fat.*  
**RT** chemical composition

**IODINE OXIDES**

**\*BT1** iodine compounds  
**\*BT1** oxides  
**RT** oxyiodides

**iodochloroquine**

INIS: 1996-10-23; ETDE: 1981-09-22  
 (Until October 1996 this was a valid descriptor.)  
**USE** organic chlorine compounds  
**USE** organic iodine compounds

**IODODEOXYURIDINE**

**UF** *iudr*  
**\*BT1** iodouracils  
**\*BT1** nucleosides  
**RT** deoxyuridine

**IODOFORM**

**\*BT1** iodinated aliphatic hydrocarbons  
**RT** hydrocarbons  
**RT** methane

**iodohippurate**

INIS: 1975-10-23; ETDE: 2002-06-13  
**USE** hippuran

**iodohippurate-na**

INIS: 2000-04-12; ETDE: 1980-08-12  
**USE** hippuran

**IODOMETRY**

**\*BT1** titration

**iodopyracet**

1996-07-18  
 (Prior to March 1997 DIODRAST was used for this concept in ETDE.)  
**USE** contrast media  
**USE** heterocyclic acids  
**USE** organic iodine compounds  
**USE** pyridines

**IODOURACILS**

**\*BT1** antimetabolites  
**\*BT1** organic iodine compounds  
**\*BT1** uracils  
**NT1** iododeoxyuridine

**IODOX PROCESS**

**UF** *iodex process*  
**\*BT1** reprocessing

**RT** iodine  
**RT** methyl iodide  
**RT** radioactive waste processing

**ioglycamic acid**

INIS: 1996-10-23; ETDE: 1975-12-16  
 (Until October 1996 this was a valid descriptor.)  
**USE** amides  
**USE** ethers  
**USE** monocarboxylic acids  
**USE** organic iodine compounds

**IOHEXOL**

INIS: 1983-06-30; ETDE: 1983-07-20  
**BT1** contrast media

**ION ACOUSTIC WAVES**

1997-04-30  
*Non-dispersive ion waves.*  
**UF** *non-dispersive ion waves*  
**UF** *nondispersive ion waves*  
**\*BT1** ion waves  
**RT** sonic probes  
**RT** sound waves

**ION-ATOM COLLISIONS**

**UF** *proton-atom collisions*  
**\*BT1** atom collisions  
**\*BT1** ion collisions  
**RT** electron-promotion model

**ION BEAM FUSION REACTORS**

INIS: 1995-07-21; ETDE: 1983-02-09  
**UF** *i-beam type reactors*  
**UF** *ion beam type reactors*  
**BT1** thermonuclear reactors  
**RT** icf devices  
**RT** inertial confinement  
**RT** inertial fusion drivers  
**RT** particle beam fusion accelerator

**ION BEAM INJECTION**

**BT1** beam injection  
**NT1** molecular ion beam injection

**ION BEAM TARGETS**

INIS: 1982-11-30; ETDE: 1978-09-11  
**SF** *icf targets*  
**SF** *inertial confinement fusion targets*  
**BT1** targets  
**RT** electron beam targets  
**RT** inertial confinement  
**RT** laser targets  
**RT** thermonuclear fuels

**ion beam type reactors**

INIS: 1982-11-30; ETDE: 1976-09-15  
**USE** ion beam fusion reactors

**ION BEAMS**

1996-07-18  
**BT1** beams  
**NT1** aluminium 27 beams  
**NT1** beryllium 9 beams  
**NT1** bismuth 209 beams  
**NT1** boron 10 beams  
**NT1** boron 11 beams  
**NT1** bromine 79 beams  
**NT1** calcium 40 beams  
**NT1** calcium 48 beams  
**NT1** carbon 12 beams  
**NT1** carbon 13 beams  
**NT1** chlorine 35 beams  
**NT1** chlorine 37 beams  
**NT1** copper 63 beams  
**NT1** deuteron beams  
**NT1** fluorine 19 beams  
**NT1** gadolinium 155 beams  
**NT1** germanium 74 beams  
**NT1** germanium 76 beams  
**NT1** gold 197 beams

**NT1** helium 3 beams  
**NT1** helium 4 beams  
**NT2** alpha beams  
**NT1** hydrogen 1 minus beams  
**NT1** iodine 127 beams  
**NT1** iron 56 beams  
**NT1** iron 58 beams  
**NT1** krypton 84 beams  
**NT1** krypton 86 beams  
**NT1** lanthanum 139 beams  
**NT1** lead 208 beams  
**NT1** lithium 6 beams  
**NT1** lithium 7 beams  
**NT1** magnesium 24 beams  
**NT1** magnesium 25 beams  
**NT1** neon 20 beams  
**NT1** neon 22 beams  
**NT1** nickel 58 beams  
**NT1** nickel 60 beams  
**NT1** nitrogen 14 beams  
**NT1** nitrogen 15 beams  
**NT1** oxygen 16 beams  
**NT1** oxygen 18 beams  
**NT1** phosphorus 31 beams  
**NT1** potassium 39 beams  
**NT1** potassium 41 beams  
**NT1** radioactive ion beams  
**NT2** aluminium 26 beams  
**NT2** argon 38 beams  
**NT2** argon 39 beams  
**NT2** argon 40 beams  
**NT2** beryllium 10 beams  
**NT2** beryllium 11 beams  
**NT2** beryllium 7 beams  
**NT2** boron 12 beams  
**NT2** boron 8 beams  
**NT2** carbon 10 beams  
**NT2** carbon 11 beams  
**NT2** carbon 14 beams  
**NT2** chlorine 39 beams  
**NT2** helium 6 beams  
**NT2** helium 8 beams  
**NT2** lithium 11 beams  
**NT2** lithium 8 beams  
**NT2** neon 19 beams  
**NT2** nitrogen 13 beams  
**NT2** sulfur 38 beams  
**NT2** triton beams  
**NT2** uranium 238 beams  
**NT1** silicon 28 beams  
**NT1** silicon 29 beams  
**NT1** silver 107 beams  
**NT1** sodium 23 beams  
**NT1** sulfur 32 beams  
**NT1** tin 120 beams  
**NT1** titanium 48 beams  
**NT1** titanium 50 beams  
**NT1** tungsten 184 beams  
**NT1** xenon 129 beams  
**NT1** xenon 131 beams  
**NT1** xenon 132 beams  
**NT1** xenon 136 beams  
**RT** anions  
**RT** beam strippers  
**RT** cations  
**RT** charge distribution  
**RT** charged particles  
**RT** heavy ions  
**RT** ion implantation  
**RT** ion probes  
**RT** ion scattering analysis  
**RT** ion spectroscopy  
**RT** ions  
**RT** light ions  
**RT** migma devices  
**RT** particle beams  
**RT** sputtering

**ion blocking**

**USE** ion channeling

**ION CHANNELING**

**UF** ion blocking  
**BT1** channeling  
**RT** crystal lattices  
**RT** ions

**ion clusters**

**USE** ion pairs

**ION COLLISIONS**

**BT1** collisions  
**NT1** electron-ion collisions  
**NT1** ion-atom collisions  
**NT1** ion-ion collisions  
**NT1** ion-molecule collisions  
**NT1** photon-ion collisions  
**NT1** positron-ion collisions

**ION CYCLOTRON-RESONANCE**

*INIS: 1983-12-01; ETDE: 1984-01-27*

**UF** icr  
**\*BT1** cyclotron resonance  
**RT** icr heating

**ion cyclotron-resonance heating**

**USE** icr heating

**ION CYCLOTRON RESONANCE SPECTROSCOPY**

*INIS: 2000-04-12; ETDE: 1976-03-22*

**\*BT1** ion spectroscopy  
**RT** cyclotron resonance

**ION DENSITY**

**UF** density (ion)  
**RT** ions

**ION DETECTION**

**\*BT1** charged particle detection  
**RT** heavy ions  
**RT** ion dosimetry  
**RT** ions  
**RT** light ions

**ION DOSIMETRY**

**BT1** dosimetry  
**RT** ion detection

**ion-drag accelerators**

**USE** electron-ring accelerators

**ION DRIFT**

**UF** drift (ion)  
**RT** ambipolar diffusion  
**RT** ions

**ION EMISSION**

**BT1** emission  
**RT** field emission

**ION EXCHANGE**

**UF** cation exchange capacity  
**UF** exchange (ion)  
**UF** ligand exchange  
**RT** demineralization  
**RT** desalination  
**RT** distribution functions  
**RT** ion exchange chromatography  
**RT** separation processes

**ION EXCHANGE CHROMATOGRAPHY**

**\*BT1** chromatography  
**RT** distribution functions  
**RT** ion exchange  
**RT** ion exchange materials  
**RT** leaching  
**RT** resins

**ION EXCHANGE MATERIALS**

**UF** decalco  
**UF** ion exchange membranes  
**BT1** materials  
**NT1** inorganic ion exchangers  
**NT2** bentonite  
**NT2** montmorillonite  
**NT2** mullite  
**NT2** vermiculite  
**NT2** zeolites  
**NT3** clinoptilolite  
**NT3** faujasite  
**NT3** heulandite  
**NT3** laumontite  
**NT3** mordenite  
**NT3** wairakite  
**NT1** liquid ion exchangers  
**NT1** mixed bed ion exchangers  
**NT1** organic ion exchangers  
**NT2** polystyrene-dvb  
**RT** anions  
**RT** cations  
**RT** graft polymers  
**RT** ion exchange chromatography  
**RT** leaching  
**RT** resins  
**RT** silica gel

**ion exchange membranes**

**USE** ion exchange materials  
**USE** membranes

**ION IMPLANTATION**

**RT** crystal doping  
**RT** crystals  
**RT** doped materials  
**RT** inclusions  
**RT** ion beams  
**RT** ions  
**RT** trace amounts

**ION-ION COLLISIONS**

**\*BT1** ion collisions

**ION MICROPROBE ANALYSIS**

**UF** sims  
**BT1** microanalysis  
**\*BT1** nondestructive analysis  
**RT** ion probes

**ION MICROSCOPES**

**BT1** microscopes

**ION MICROSCOPY**

**UF** field emission microscopy  
**UF** field ion microscopy  
**BT1** microscopy  
**RT** field emission

**ION MOBILITY**

*ETDE: 1975-07-29*

**\*BT1** particle mobility  
**RT** ions

**ION-MOBILITY DETECTORS**

*INIS: 1999-12-31; ETDE: 1980-03-04*

*Ionization chambers with a corona discharge ionization source for vapor analysis.*

**BT1** measuring instruments  
**RT** drift chambers  
**RT** gas analysis  
**RT** ionization chambers

**ION-MOLECULE COLLISIONS**

**UF** proton-molecule collisions  
**\*BT1** ion collisions  
**\*BT1** molecule collisions

**ION-NEUTRALIZATION SPECTROSCOPY**

**BT1** spectroscopy

**ION PAIRS**

- UF clusters (ion)
- UF ion clusters
- RT atomic clusters
- RT ions

**ION PLASMA WAVES**

- Dispersive ion waves.*
- UF *dispersive ion waves*
- \*BT1 ion waves

**ION PROBES**

- BT1 probes
- RT chemical analysis
- RT deuteron probes
- RT ion beams
- RT ion microprobe analysis
- RT ion sources
- RT proton probes
- RT secondary beams
- RT secondary emission

**ION PROPULSION**

- INIS: 1976-02-18; ETDE: 1976-04-19
- Vehicular motion caused by reaction from the high-speed discharge of a beam of ions.*
- BT1 propulsion
- RT ion thrusters

**ION RINGS**

- INIS: 1975-12-19; ETDE: 1976-08-24
- RT confinement
- RT magnetic confinement
- RT minimum-b configurations

**ION SCATTERING ANALYSIS**

- \*BT1 nondestructive analysis
- RT ion beams
- RT radiation scattering analysis
- RT scattering

**ION SELECTIVE ELECTRODE ANALYSIS**

- BT1 chemical analysis
- RT electrodes

**ION SELECTIVE ELECTRODES**

- INIS: 2000-04-12; ETDE: 1982-07-27
- BT1 electrodes

**ION SOURCES**

- NT1 alpha sources
- NT1 charge-exchange ion sources
- NT1 ecr ion sources
- NT1 electron beam ion sources
- NT1 electron-impact ion sources
- NT1 high-charge-state ion sources
- NT1 high-current ion sources
- NT1 laser ion sources
- NT2 laser-plasma ion sources
- NT2 resonant-ionization laser ion sources
- NT1 plasma ion sources
- NT2 arc-discharge ion sources
- NT3 vacuum-arc ion sources
- NT4 mevva ion sources
- NT2 glow-discharge ion sources
- NT2 magnetron ion sources
- NT2 microwave ion sources
- NT2 multi-cusp ion sources
- NT2 penning ion sources
- NT2 plasmatron ion sources
- NT3 duoplasmatrons
- NT3 triplasmatrons
- NT2 rf ion sources
- NT1 surface ion sources
- RT atomic beam sources
- RT ion probes
- RT ions
- RT neutral beam sources
- RT particle sources

**ION SPECTROSCOPY**

- UF *beam-foil spectroscopy*
- UF *beam-gas spectroscopy*
- BT1 spectroscopy
- NT1 ion cyclotron resonance spectroscopy
- RT ion beams
- RT rutherford backscattering spectroscopy

**ION TEMPERATURE**

- UF *plasma temperature*
- UF *temperature (ion)*
- RT energy
- RT ions

**ION THRUSTERS**

- INIS: 1975-10-23; ETDE: 1975-12-16
- BT1 thrusters
- RT ion propulsion
- RT propulsion
- RT propulsion systems
- RT surface ionization

**ION WAVE INSTABILITY**

- \*BT1 plasma microinstabilities
- RT bernstein mode

**ION WAVES**

- BT1 plasma waves
- NT1 ion acoustic waves
- NT1 ion plasma waves
- RT bernstein mode

**IONIC COMPOSITION**

- RT chemical composition
- RT ionosphere
- RT ions
- RT plasma

**IONIC CONDUCTIVITY**

- \*BT1 electric conductivity
- NT1 proton conductivity

**IONIC CRYSTALS**

- BT1 crystals

***ionic liquids***

- 2010-11-02
- USE molten salts

***ionic potential***

- INIS: 2000-04-12; ETDE: 1979-02-23
- Valence divided by ionic radius.*
- (Prior to March 1997 this was a valid ETDE descriptor.)
- USE valence

***ionic reactions***

- USE chemical reactions
- USE ions

***ionics electrolytic regeneration***

- process*
- INIS: 2000-04-12; ETDE: 1977-04-12
- Electrolytic cell technology to convert sodium sulfate solution to caustic and sulfuric acid.*
- Sulfate ions formed by oxidation are purged from the scrubbing loop as dilute sulfuric acid.*
- (Prior to January 1995, this was a valid ETDE descriptor.)
- USE desulfurization

**IONIZATION**

- UF *discharges (ionization)*
- NT1 autoionization
- NT1 coulomb ionization
- NT1 inner-shell ionization
- NT1 internal ionization
- NT1 photoionization
- NT1 surface ionization
- NT2 adiabatic surface ionization

- RT beam neutralization
- RT bragg curve
- RT buildup
- RT charge exchange
- RT charge states
- RT dissociation
- RT electron attachment
- RT electron detachment
- RT electron loss
- RT energy absorption
- RT energy losses
- RT fano factor
- RT ionization potential
- RT ionizing radiations
- RT jesse effect
- RT kerma
- RT let
- RT penning effect
- RT plasma production
- RT plasma seeding
- RT radiation quality
- RT wall effects

***ionization calorimeters***

- 2000-04-12
- USE shower counters

***ionization chamber smoke detectors***

- INIS: 1993-11-08; ETDE: 2002-06-13
- USE smoke detectors

**IONIZATION CHAMBERS**

- \*BT1 radiation detectors
- NT1 boron coated ion chambers
- NT1 bragg gray chambers
- NT1 condenser ionization chambers
- NT1 extrapolation chambers
- NT1 fission chambers
- NT1 liquid ionization chambers
- NT1 multiwire ionization chambers
- RT avalanche quenching
- RT campbelling circuits
- RT electron-capture detectors
- RT ion-mobility detectors
- RT multiwire proportional chambers
- RT wall effects
- RT wall-less counters

**IONIZATION FRONT ACCELERATORS**

- INIS: 1991-12-17; ETDE: 1979-05-25
- Collective effect accelerator that produces controlled motion of a potential well at the head of an intense relativistic electron beam.*
- \*BT1 collective accelerators

**IONIZATION GAGES**

- \*BT1 vacuum gages
- NT1 bayard-alpert gages
- NT1 philips gages
- NT1 radioactive ionization gages

***ionization loss***

- USE energy losses

**IONIZATION POTENTIAL**

- RT binding energy
- RT electric potential
- RT electronegativity
- RT ionization
- RT plasma seeding

**IONIZED GASES**

- \*BT1 gases
- NT1 fully ionized gases
- NT2 lorentz gas
- NT1 strongly ionized gases
- NT1 weakly ionized gases
- RT fokker-planck equation
- RT plasma

**IONIZING RADIATIONS**

- BT1 radiations
- NT1 alpha particles
  - NT2 cosmic alpha particles
  - NT2 delayed alpha particles
  - NT2 solar alpha particles
- NT1 beta particles
- NT1 cosmic radiation
  - NT2 cosmic neutrinos
  - NT2 cosmic photons
  - NT2 cosmic protons
  - NT2 hard component
  - NT2 primary cosmic radiation
    - NT3 cosmic alpha particles
    - NT3 cosmic gamma bursts
    - NT3 cosmic nuclei
    - NT3 cosmic x-ray bursts
  - NT2 secondary cosmic radiation
    - NT3 cosmic electrons
    - NT3 cosmic kaons
    - NT3 cosmic muons
    - NT3 cosmic neutrons
    - NT3 cosmic pions
    - NT3 cosmic positrons
    - NT3 cosmic showers
      - NT4 extensive air showers
  - NT2 soft component
- NT1 gamma radiation
  - NT2 delayed gamma radiation
  - NT2 prompt gamma radiation
- NT1 skyshine
- NT1 x radiation
  - NT2 hard x radiation
  - NT2 soft x radiation
- RT buildup
- RT delta rays
- RT dose equivalents
- RT energy losses
- RT environmental exposure
- RT ionization
- RT mutagens
- RT occupational exposure
- RT teratogens

**IONOGRAPHIC IMAGING**

*INIS: 1999-03-30; ETDE: 1976-08-24*  
*A process whereby a pattern of electrical charges is formed on a foil by the accumulation of ions from a gas of high atomic number ionized by the incident radiation.*

\*BT1 biomedical radiography

**ionophoresis**

USE electrophoresis

**IONOSONDES**

\*BT1 radio equipment  
 RT measuring instruments  
 RT space vehicles

**IONOSPHERE**

UF *ionospheric effects*  
 BT1 earth atmosphere  
 NT1 c region  
 NT1 d region  
 NT1 e region
 

- NT2 sporadic e

 NT1 f region
 

- NT2 f1 layer
- NT2 f2 layer
- NT2 spread f

 RT auroral hiss  
 RT auroral oval  
 RT auroral zones  
 RT critical frequency  
 RT harang discontinuity  
 RT ionic composition  
 RT midday aurorae  
 RT polar-cap aurorae

RT polar cusp  
 RT scale height  
 RT sudden ionospheric disturbance  
 RT travelling ionospheric disturbance  
 RT virtual height

**ionospheric effects**

*INIS: 2000-04-12; ETDE: 1982-05-12*  
 (Prior to March 1997 this was a valid ETDE descriptor.)

USE disturbances  
 USE ionosphere

**IONOSPHERIC STORMS**

*1975-11-07*

BT1 disturbances  
 NT1 sudden ionospheric disturbance  
 NT1 travelling ionospheric disturbance  
 RT f region  
 RT magnetic storms

**IONS**

*1996-07-18*

*Ions in liquid and solid solutions are indexed as compounds; ions in gases by the precoordinated descriptor consisting of the element name and the word IONS; ions in beams by assigning either the specific descriptor if available, e.g. ARGON 40 BEAMS or the isotope name together with ION BEAMS.*

UF *ionic reactions*  
 BT1 charged particles  
 NT1 actinium ions  
 NT1 aluminium ions  
 NT1 americium ions  
 NT1 anions
 

- NT2 heteropolyanions
- NT2 hydrogen ions 1 minus

 NT1 antimony ions  
 NT1 argon ions  
 NT1 arsenic ions  
 NT1 astatine ions  
 NT1 atomic ions  
 NT1 barium ions  
 NT1 berkelium ions  
 NT1 beryllium ions  
 NT1 bismuth ions  
 NT1 bohrium ions  
 NT1 boron ions  
 NT1 bromine ions  
 NT1 cadmium ions  
 NT1 calcium ions  
 NT1 californium ions  
 NT1 carbon ions  
 NT1 cations
 

- NT2 hydrogen ions 1 plus
- NT2 hydrogen ions 2 plus
- NT2 hydrogen ions 3 plus

 NT1 cerium ions  
 NT1 cesium ions  
 NT1 chlorine ions  
 NT1 chromium ions  
 NT1 cobalt ions  
 NT1 copernicium ions  
 NT1 copper ions  
 NT1 curium ions  
 NT1 darmstadtium ions  
 NT1 deuterium ions  
 NT1 dubnium ions  
 NT1 dysprosium ions  
 NT1 einsteinium ions  
 NT1 erbium ions  
 NT1 europium ions  
 NT1 fermium ions  
 NT1 flerovium ions  
 NT1 fluorine ions  
 NT1 francium ions  
 NT1 gadolinium ions  
 NT1 gallium ions

NT1 germanium ions  
 NT1 gold ions  
 NT1 hafnium ions  
 NT1 hassium ions  
 NT1 heavy ions  
 NT1 helium ions
 

- NT2 helium ash

 NT1 holmium ions  
 NT1 hydrogen ions
 

- NT2 hydrogen ions 1 minus
- NT2 hydrogen ions 1 plus
- NT2 hydrogen ions 2 plus
- NT2 hydrogen ions 3 plus

 NT1 indium ions  
 NT1 iodine ions  
 NT1 iridium ions  
 NT1 iron ions  
 NT1 krypton ions  
 NT1 lanthanum ions  
 NT1 lawrencium ions  
 NT1 lead ions  
 NT1 light ions  
 NT1 lithium ions  
 NT1 livermorium ions  
 NT1 lutetium ions  
 NT1 magnesium ions  
 NT1 manganese ions  
 NT1 meitnerium ions  
 NT1 mendeleevium ions  
 NT1 mercury ions  
 NT1 molecular ions
 

- NT2 hydrogen ions 2 plus
- NT2 hydrogen ions 3 plus
- NT2 oxonium ions

 NT1 molybdenum ions  
 NT1 moscovium ions  
 NT1 multicharged ions  
 NT1 muonic ions  
 NT1 neodymium ions  
 NT1 neon ions  
 NT1 neptunium ions  
 NT1 nickel ions  
 NT1 nihonium ions  
 NT1 niobium ions  
 NT1 nitrogen ions  
 NT1 nobelium ions  
 NT1 oganesson ions  
 NT1 osmium ions  
 NT1 oxygen ions  
 NT1 palladium ions  
 NT1 phosphorus ions  
 NT1 platinum ions  
 NT1 plutonium ions  
 NT1 polonium ions  
 NT1 potassium ions  
 NT1 praseodymium ions  
 NT1 promethium ions  
 NT1 protactinium ions  
 NT1 radium ions  
 NT1 radon ions  
 NT1 rhenium ions  
 NT1 rhodium ions  
 NT1 roentgenium ions  
 NT1 rubidium ions  
 NT1 ruthenium ions  
 NT1 rutherfordium ions  
 NT1 samarium ions  
 NT1 scandium ions  
 NT1 seaborgium ions  
 NT1 selenium ions  
 NT1 silicon ions  
 NT1 silver ions  
 NT1 sodium ions  
 NT1 strontium ions  
 NT1 sulfur ions  
 NT1 tail ions  
 NT1 tantalum ions  
 NT1 technetium ions  
 NT1 tellurium ions

**NT1** tennessine ions  
**NT1** terbium ions  
**NT1** thallium ions  
**NT1** thorium ions  
**NT1** thulium ions  
**NT1** tin ions  
**NT1** titanium ions  
**NT1** tritium ions  
**NT1** tungsten ions  
**NT1** uranium ions  
**NT1** vanadium ions  
**NT1** xenon ions  
**NT1** ytterbium ions  
**NT1** yttrium ions  
**NT1** zinc ions  
**NT1** zirconium ions  
**RT** battery charge state  
**RT** charge states  
**RT** charged-particle reactions  
**RT** ion beams  
**RT** ion channeling  
**RT** ion density  
**RT** ion detection  
**RT** ion drift  
**RT** ion implantation  
**RT** ion mobility  
**RT** ion pairs  
**RT** ion sources  
**RT** ion temperature  
**RT** ionic composition  
**RT** translocation

**ions (atomic)**

*INIS: 2000-04-12; ETDE: 1975-12-16*  
 USE atomic ions

**ions (molecular)**

*INIS: 2000-04-12; ETDE: 1975-12-16*  
 USE molecular ions

**IOPAMIDOL**

*INIS: 1984-02-22; ETDE: 1984-03-06*  
 BT1 contrast media

**iota-1440 resonances**

*INIS: 1987-12-21; ETDE: 1984-12-26*  
 (Prior to December 1987 this was a valid descriptor.)  
 USE eta-1440 mesons

**IOWA**

\*BT1 usa  
**RT** ames laboratory  
**RT** mississippi river  
**RT** missouri river

**IOWA UTR-10 REACTOR**

*University Test Reactor, Iowa State Univ., Ames, Iowa, USA.*  
*UF ames, iowa state university utr-10 reactor*  
*UF utr-10 iowa state university reactor*  
 \*BT1 graphite moderated reactors  
 \*BT1 training reactors  
 \*BT1 water cooled reactors

**IPCR CYCLOTRON**

*INIS: 1983-06-01; ETDE: 1983-03-24*  
*Separated-sector cyclotron of the Institute of Physical and Chemical Research, Saitama, Japan.*  
*UF institute of physical and chemical research cyclotron*  
*UF riken ssc*  
*UF saitama cyclotron*  
 \*BT1 heavy ion accelerators  
 \*BT1 isochronous cyclotrons

**ipcr linac**

*INIS: 1986-05-23; ETDE: 2002-06-13*  
 USE rilac

**IPEN-MB-1 REACTOR**

*INIS: 1991-08-15; ETDE: 1991-09-13*  
*Instituto de Pesquisas Energeticas e Nucleares, Sao Paulo, Brazil.*  
 \*BT1 zero power reactors

**IPNS-I SYNCHROTRON**

*2016-06-09*  
*Argonne National Laboratory, Argonne, Illinois, USA; stopped operation in 2008*  
 \*BT1 accelerator neutron source facilities

**IPP GARCHING**

*Max-Planck-Institut fuer Plasmaphysik.*  
*UF garching ipp*  
*UF max-planck-institut fuer plasmaphysik*  
 \*BT1 german fr organizations

**ipr-1 reactor**

*2005-02-09*  
*Instituto de Pesquisas Radioativas Nuclebras, Cidade Universitaria-Pampulma, Minas Gerais, Brazil.*  
 USE triga-brazil reactor

**iproniazid**

*1996-07-18*  
 (Until July 1996 this was a valid descriptor.)  
 USE antidepressants  
 USE isoniazid

**iqsy**

USE international quiet sun year

**IR-100 REACTOR**

*2005-06-02*  
*Sevastopol Inst. of Nuclear Energy And Industry, Sevastopol, Ukraine.*  
 \*BT1 experimental reactors  
 \*BT1 pool type reactors  
 \*BT1 training reactors

**IRAN**

BT1 asia  
 BT1 developing countries  
 BT1 middle east  
**RT** caspian sea  
**RT** opec

**IRAN-1 REACTOR**

*INIS: 1977-06-14; ETDE: 1977-10-20*  
*UF bushehr-1 reactor*  
 \*BT1 pwr type reactors

**IRAN-2 REACTOR**

*INIS: 1977-06-14; ETDE: 1977-10-20*  
*UF bushehr-2 reactor*  
 \*BT1 pwr type reactors

**IRANIAN ATOMIC ENERGY ORGANIZATION**

*INIS: 1976-10-07; ETDE: 1976-11-01*  
 \*BT1 iranian organizations

**IRANIAN ORGANIZATIONS**

*INIS: 1976-10-07; ETDE: 1976-11-01*  
 BT1 national organizations  
**NT1** iranian atomic energy organization  
**NT1** tehran nuclear research centre

**IRAQ**

BT1 arab countries  
 BT1 asia  
 BT1 developing countries  
 BT1 middle east  
**RT** euphrates river  
**RT** oapec  
**RT** opec  
**RT** tigris river

**IRAQI ATOMIC ENERGY COMMISSION**

*INIS: 1985-06-10; ETDE: 1985-07-19*  
 \*BT1 iraqi organizations  
**NT1** iraqi nuclear research centre

**IRAQI NUCLEAR RESEARCH CENTRE**

*INIS: 1985-06-10; ETDE: 1985-07-19*  
 \*BT1 iraqi atomic energy commission

**IRAQI ORGANIZATIONS**

*INIS: 1985-06-10; ETDE: 1985-07-18*  
 BT1 national organizations  
**NT1** iraqi atomic energy commission  
**NT2** iraqi nuclear research centre

**IRELAND**

*1995-04-03*  
 BT1 developed countries  
 \*BT1 western europe  
**RT** oecd

**IREN FACILITY**

*2018-04-13*  
*Intense Resonance Neutron Source (IREN); Under construction at the Frank Laboratory of Neutron Physics of the Joint Institute for Nuclear Research*  
 \*BT1 accelerator neutron source facilities  
**RT** jinr  
**RT** lue-200 accelerator

**IRI**

*Interuniversitair Reactor Instituut, Delft, the Netherlands.*  
*UF interuniversitair reactor instituut*  
 \*BT1 netherlands organizations

**IRIDIUM**

\*BT1 platinum metals  
 \*BT1 refractory metals

**IRIDIUM 164**

*2007-07-10*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

**IRIDIUM 165**

*2007-07-10*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes

**IRIDIUM 166**

*INIS: 1986-05-08; ETDE: 1986-07-03*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**IRIDIUM 167**

*INIS: 1986-05-08; ETDE: 1986-07-03*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**IRIDIUM 168**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes

\*BT1 odd-odd nuclei

### IRIDIUM 169

*INIS: 1978-11-24; ETDE: 1978-12-20*

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

### IRIDIUM 170

*INIS: 1978-02-23; ETDE: 1978-04-28*

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### IRIDIUM 171

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

### IRIDIUM 172

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### IRIDIUM 173

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

### IRIDIUM 174

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### IRIDIUM 175

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

### IRIDIUM 176

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### IRIDIUM 177

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

### IRIDIUM 178

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### IRIDIUM 179

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### IRIDIUM 180

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iridium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### IRIDIUM 181

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 iridium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### IRIDIUM 182

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 iridium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### IRIDIUM 183

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 iridium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### IRIDIUM 184

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 iridium isotopes  
 \*BT1 odd-odd nuclei

### IRIDIUM 185

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 iridium isotopes  
 \*BT1 odd-even nuclei

### IRIDIUM 186

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 iridium isotopes  
 \*BT1 odd-odd nuclei

### IRIDIUM 187

\*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 iridium isotopes  
 \*BT1 odd-even nuclei

### IRIDIUM 188

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 iridium isotopes  
 \*BT1 odd-odd nuclei

### IRIDIUM 189

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 iridium isotopes  
 \*BT1 odd-even nuclei

### IRIDIUM 189 TARGET

*INIS: 1978-01-16; ETDE: 1978-03-03*  
 BT1 targets

### IRIDIUM 190

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 iridium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-odd nuclei

### IRIDIUM 190 TARGET

*INIS: 2000-04-12; ETDE: 1978-11-14*  
 BT1 targets

### IRIDIUM 191

\*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 iridium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 stable isotopes

### IRIDIUM 191 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

### IRIDIUM 192

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 iridium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 years living radioisotopes

### IRIDIUM 193

\*BT1 days living radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 iridium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes

### IRIDIUM 193 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

### IRIDIUM 194

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 iridium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

### IRIDIUM 194 TARGET

*INIS: 1987-06-29; ETDE: 1987-07-09*  
 BT1 targets

### IRIDIUM 195

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 iridium isotopes  
 \*BT1 odd-even nuclei

### IRIDIUM 196

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 iridium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes



**IRIDIUM 197**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**IRIDIUM 198**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IRIDIUM 199**

2004-12-15

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IRIDIUM 202**

2010-03-02

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IRIDIUM ADDITIONS**

*Alloys containing not more than 1% Ir are listed here.*

- \*BT1 iridium alloys

**IRIDIUM ALLOYS**

*Alloys containing more than 1% Ir.*

- \*BT1 platinum metal alloys
- NT1 iridium additions
- NT1 iridium base alloys

**IRIDIUM BASE ALLOYS**

- \*BT1 iridium alloys

**IRIDIUM BORIDES**

- \*BT1 borides
- \*BT1 iridium compounds

**IRIDIUM CARBIDES**

1991-09-16

- \*BT1 carbides
- \*BT1 iridium compounds

**IRIDIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 iridium halides

**IRIDIUM COMPLEXES**

- \*BT1 transition element complexes

**IRIDIUM COMPOUNDS**

1997-06-17

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 iridium borides
- NT1 iridium carbides
- NT1 iridium halides
- NT2 iridium chlorides
- NT2 iridium fluorides
- NT1 iridium hydrides
- NT1 iridium nitrides
- NT1 iridium oxides
- NT1 iridium silicides
- NT1 iridium sulfates
- NT1 iridium tellurides

**IRIDIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 iridium halides

**IRIDIUM HALIDES**

2012-07-19

- \*BT1 halides

- \*BT1 iridium compounds

- NT1 iridium chlorides
- NT1 iridium fluorides

**IRIDIUM HYDRIDES**

1979-11-02

- \*BT1 hydrides
- \*BT1 iridium compounds

**IRIDIUM IONS**

- \*BT1 ions

**IRIDIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 iridium 164
- NT1 iridium 165
- NT1 iridium 166
- NT1 iridium 167
- NT1 iridium 168
- NT1 iridium 169
- NT1 iridium 170
- NT1 iridium 171
- NT1 iridium 172
- NT1 iridium 173
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- NT1 iridium 191
- NT1 iridium 192
- NT1 iridium 193
- NT1 iridium 194
- NT1 iridium 195
- NT1 iridium 196
- NT1 iridium 197
- NT1 iridium 198
- NT1 iridium 199
- NT1 iridium 202

**IRIDIUM NITRIDES**

2010-02-24

- \*BT1 iridium compounds
- \*BT1 nitrides

**IRIDIUM OXIDES**

- \*BT1 iridium compounds
- \*BT1 oxides

**IRIDIUM SILICIDES**

INIS: 1984-04-04; ETDE: 1984-05-09

- \*BT1 iridium compounds
- \*BT1 silicides

**IRIDIUM SULFATES**

INIS: 2000-04-12; ETDE: 1976-08-04

- \*BT1 iridium compounds
- \*BT1 sulfates

**IRIDIUM TELLURIDES**

INIS: 2000-04-12; ETDE: 1976-06-07

- \*BT1 iridium compounds
- \*BT1 tellurides

**iriginite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE oxide minerals
- USE uranium minerals

**IRISH SEA**

INIS: 1980-05-14; ETDE: 1977-05-07

- UF celtic sea
- \*BT1 atlantic ocean
- RT united kingdom

**IRL REACTOR**

*Industrial Reactor Laboratories, Inc., Plainsboro, New Jersey, USA. Shut down in 1975.*

- UF plainsboro irl pool type reactor
- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**IRON**

1996-07-18

(Prior to March 1997 IRON-BETA was a valid ETDE descriptor.)

- UF iron-beta
- \*BT1 transition elements
- NT1 iron-alpha
- NT1 iron-delta
- NT1 iron-gamma
- RT ferritin
- RT heme
- RT hemoglobin
- RT hemosiderin
- RT steam-iron process

**IRON 45**

INIS: 1997-02-07; ETDE: 1978-07-05

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 proton decay radioisotopes

**IRON 46**

1993-01-13

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 milliseconds living radioisotopes

**IRON 47**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes

**IRON 48**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes

**IRON 49**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 milliseconds living radioisotopes

**IRON 50**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes

**IRON 51**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 milliseconds living radioisotopes

**IRON 52**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes

- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 seconds living radioisotopes

**IRON 53**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes

**IRON 54**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 stable isotopes

**IRON 54 REACTIONS**

*INIS: 1984-08-23; ETDE: 1984-09-05*

- \*BT1 heavy ion reactions

**IRON 54 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**IRON 55**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 years living radioisotopes

**IRON 55 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**IRON 56**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 stable isotopes
- RT* iron 56 reactions

**IRON 56 BEAMS**

- \*BT1 ion beams

**IRON 56 REACTIONS**

- \*BT1 heavy ion reactions
- RT* iron 56

**IRON 56 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**IRON 57**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 stable isotopes

**IRON 57 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**IRON 58**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 stable isotopes

**IRON 58 BEAMS**

*INIS: 1976-08-17; ETDE: 1976-11-01*

- \*BT1 ion beams

**IRON 58 REACTIONS**

*INIS: 1976-08-17; ETDE: 1976-11-01*

- \*BT1 heavy ion reactions

**IRON 58 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**IRON 59**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes

**IRON 60**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 years living radioisotopes

**IRON 61**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 minutes living radioisotopes

**IRON 62**

*INIS: 1976-02-11; ETDE: 1975-10-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 minutes living radioisotopes

**IRON 63**

*1980-11-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 seconds living radioisotopes

**IRON 64**

*1980-11-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 seconds living radioisotopes

**IRON 65**

*INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes

**IRON 66**

*INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes

**IRON 67**

*INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes

**IRON 68**

*INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes

**IRON 69**

*2007-11-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 milliseconds living radioisotopes

**IRON 70**

*2007-11-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 milliseconds living radioisotopes

**IRON 71**

*2007-11-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes

**IRON 72**

*2007-11-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes

**IRON ADDITIONS**

*1996-11-13*

*Alloys containing not more than 1% Fe are listed here.*

- \*BT1 iron alloys
- NT1** alloy-al95cu4
- NT2** duralumin
- NT1** alloy-ni46cr23co19ti5al4
- NT2** alloy-in-939
- NT1** alloy-ni60co15cr10al6ti5mo3
- NT2** alloy-in-100
- NT1** alloy-ni73cr20mn3nb3
- NT2** inconel 82
- NT1** alloy-ni80cr20
- NT1** alloy-ti88mo8al3
- NT1** alloy-ti90al6mo3
- NT1** alloy-ti90al6v4
- NT1** alloy-ti91al4mo3
- NT1** alloy-ti91al5cr2
- NT1** alloy-zr98sn-2
- NT2** zircaloy 2
- NT1** alloy-zr98sn-4
- NT2** zircaloy 4
- NT1** aludur
- NT1** duranickel
- NT1** rene 95
- NT1** zamak

**IRON-AIR BATTERIES**

*INIS: 2000-04-12; ETDE: 1976-06-07*

- \*BT1 metal-gas batteries

**IRON ALLOYS**

*1996-11-13*

*Alloys containing more than 1% Fe.*

- UF* alloy-co52fe35v13
- UF* alloy-ehp-496
- UF* refractaloy
- UF* vikalloy 1
- UF* vikalloy 2
- \*BT1 transition element alloys
- NT1** alloy-co36cr22ni22w15fe3
- NT2** haynes 188 alloy
- NT1** alloy-co43cr20fe18ni13w3
- NT2** havar
- NT1** alloy-co52fe35v10
- NT1** alloy-co54cr20w15ni10
- NT2** alloy-hs-25
- NT2** haynes 25 alloy
- NT1** alloy-co60cr30w4
- NT2** stellite 6
- NT1** alloy-hs-31
- NT1** alloy-in-102
- NT1** alloy-khn50mbvyu
- NT1** alloy-mo-re-1
- NT1** alloy-ni41fe40cr16nb3
- NT2** inconel 706
- NT1** alloy-ni43fe30cr22mo3

- NT2** incoloy 825  
**NT1** alloy-ni43fe33cr16mo3  
**NT2** nimonic pel6  
**NT1** alloy-ni45fe34cr20  
**NT1** alloy-ni49cr22fe18mo9  
**NT2** hastelloy x  
**NT1** alloy-ni50co20cr15al5mo5  
**NT2** nimonic 105  
**NT1** alloy-ni50cr22fe18mo9  
**NT2** hastelloy xr  
**NT1** alloy-ni53cr19fe19nb5mo3  
**NT2** inconel 718  
**NT1** alloy-ni54mo17cr16fe6w4  
**NT2** hastelloy c  
**NT1** alloy-ni58cr20co14mo4ti3  
**NT2** waspaloy  
**NT1** alloy-ni59cr20co17ti2  
**NT1** alloy-ni59cr30fe9  
**NT2** inconel 690  
**NT1** alloy-ni60fe24cr16  
**NT2** nichrome  
**NT1** alloy-ni61cr22mo9nb4fe3  
**NT2** inconel 625  
**NT1** alloy-ni61cr23fe14  
**NT1** alloy-ni62cr16mo15fe3  
**NT2** hastelloy s  
**NT1** alloy-ni66cu32  
**NT2** monel 400  
**NT1** alloy-ni70mo17cr7fe5  
**NT2** hastelloy n  
**NT2** inor-8  
**NT1** alloy-ni73cr15fe7ti3  
**NT2** inconel x750  
**NT1** alloy-ni76cr15fe8  
**NT2** inconel 600  
**NT1** alloy-ni77cr20ti2  
**NT1** alloy-ni78cr21  
**NT1** alloy-ni79fe16mo4  
**NT1** alloy-ra-333  
**NT1** alloy-s-816  
**NT1** alloy-v-36  
**NT1** alloy-v87cr9fe3  
**NT1** alloy-yundk 25ba  
**NT1** austenite  
**NT1** colmonoy  
**NT1** ferrite  
**NT1** incoloy 901  
**NT1** iron additions  
**NT2** alloy-al95cu4  
**NT3** duralumin  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni80cr20  
**NT2** alloy-ti88mo8al3  
**NT2** alloy-ti90al6mo3  
**NT2** alloy-ti90al6v4  
**NT2** alloy-ti91al4mo3  
**NT2** alloy-ti91al5cr2  
**NT2** alloy-zr98sn-2  
**NT3** zircaloy 2  
**NT2** alloy-zr98sn-4  
**NT3** zircaloy 4  
**NT2** aludur  
**NT2** duranickel  
**NT2** rene 95  
**NT2** zamak  
**NT1** iron base alloys  
**NT2** alloy-co50fe50  
**NT3** permendur  
**NT2** alloy-fe40ni35cr22  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-fe53ni29co18  
**NT3** kovar  
**NT2** alnico alloys  
**NT2** ascology  
**NT2** cast iron  
**NT2** discaloy  
**NT2** duriron  
**NT2** ge 2541  
**NT2** hiperco  
**NT2** hoskins 875  
**NT2** invar  
**NT2** kanthal  
**NT2** sicromo 9m  
**NT2** steel-cd-4mcu  
**NT2** steels  
**NT3** austenitic steels  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-1  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-1  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT4** steel-cr19ni10  
**NT5** stainless steel-304  
**NT4** steel-cr19ni10-1  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-1  
**NT5** stainless steel-308l  
**NT4** steel-cr21mn9ni6  
**NT5** stainless steel-21-6-9  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni26cr15ti2moyalb  
**NT5** alloy-a-286  
**NT3** carbon steels  
**NT4** steel-astm-a105  
**NT4** steel-astm-a106  
**NT4** steel-astm-a212  
**NT4** steel-astm-a285  
**NT4** steel-astm-a516  
**NT4** steel-astm-a533-b  
**NT4** steel-in-787  
**NT4** steel-sae-1045  
**NT3** croloy  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr5mo  
**NT3** ferritic steels  
**NT4** steel-cr12moniv  
**NT4** steel-cr13al  
**NT5** stainless steel-405  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr25  
**NT5** stainless steel-446  
**NT4** steel-cr9mo  
**NT4** steel-cr9monbv  
**NT3** high alloy steels  
**NT4** stainless steels  
**NT5** chromium-nickel steels  
**NT6** alloy-d-9  
**NT6** carpenter  
**NT6** chromium-nickel-molybdenum steels  
**NT7** alloy-m-813  
**NT7** steel-cr11ni10mo2ti-1  
**NT7** steel-cr15ni15motib  
**NT7** steel-cr16ni13mo3bv  
**NT7** steel-cr16ni15mo3nb  
**NT7** steel-cr16ni16monb  
**NT7** steel-cr16ni8mo2  
**NT8** stainless steel-16-8-2  
**NT7** steel-cr16ni9mo2  
**NT7** steel-cr17ni12mo3  
**NT8** stainless steel-316  
**NT7** steel-cr17ni12mo3-1  
**NT8** stainless steel-316l  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr17ni12monb  
**NT7** steel-cr17ni13mo2ti  
**NT7** steel-cr17ni13mo3ti  
**NT7** steel-ni26cr15ti2moyalb  
**NT8** alloy-a-286  
**NT6** durco  
**NT6** enduro  
**NT6** stainless steel-17-7ph  
**NT6** stainless steel-303  
**NT6** stainless steel-329  
**NT6** stainless steel-ph-15-7-mo  
**NT6** steel-cr17ni13  
**NT6** steel-cr17ni7  
**NT7** stainless steel-301  
**NT6** steel-cr18ni10  
**NT7** stainless steel-18-10  
**NT6** steel-cr18ni10-1  
**NT6** steel-cr18ni10ti  
**NT7** stainless steel-321  
**NT6** steel-cr18ni11  
**NT7** steel-x6crni1811  
**NT6** steel-cr18ni11nb  
**NT7** stainless steel-347  
**NT6** steel-cr18ni11nbco  
**NT7** stainless steel-348  
**NT6** steel-cr18ni12  
**NT7** stainless steel-305  
**NT6** steel-cr18ni12ti  
**NT6** steel-cr18ni8  
**NT7** stainless steel-18-8  
**NT6** steel-cr18ni9  
**NT7** stainless steel-302  
**NT6** steel-cr18ni9ti  
**NT6** steel-cr19ni10  
**NT7** stainless steel-304

**NT6** steel-cr19ni10-l  
**NT7** stainless steel-3041  
**NT6** steel-cr20ni11  
**NT7** stainless steel-308  
**NT6** steel-cr20ni11-l  
**NT7** stainless steel-3081  
**NT6** steel-cr23ni14  
**NT7** stainless steel-309  
**NT7** stainless steel-309s  
**NT6** steel-cr23ni18  
**NT6** steel-cr25ni20  
**NT7** alloy-hk-40  
**NT7** stainless steel-310  
**NT6** steel-ni25cr20  
**NT7** stainless steel-20-25  
**NT6** steel-ni36cr12ti3al-l  
**NT6** timken alloys  
**NT5** chromium steels  
**NT6** chromium-molybdenum steels  
**NT7** chromium-nickel-molybdenum steels  
**NT8** alloy-m-813  
**NT8** steel-cr11ni10mo2ti-l  
**NT8** steel-cr15ni15motib  
**NT8** steel-cr16ni13monbv  
**NT8** steel-cr16ni15mo3nb  
**NT8** steel-cr16ni16monb  
**NT8** steel-cr16ni8mo2  
**NT9** stainless steel-16-8-2  
**NT8** steel-cr16ni9mo2  
**NT8** steel-cr17ni12mo3  
**NT9** stainless steel-316  
**NT8** steel-cr17ni12mo3-l  
**NT9** stainless steel-316l  
**NT9** stainless steel-zcnd17-13  
**NT8** steel-cr17ni12monb  
**NT8** steel-cr17ni13mo2ti  
**NT8** steel-cr17ni13mo3ti  
**NT8** steel-ni26cr15ti2movalb  
**NT9** alloy-a-286  
**NT6** magnet steel-ks  
**NT6** miduale  
**NT6** stainless steel-406  
**NT6** steel-cr10mo2  
**NT6** steel-cr12  
**NT7** stainless steel-403  
**NT6** steel-cr12moniv  
**NT6** steel-cr12mov  
**NT7** alloy-ht-9  
**NT6** steel-cr13  
**NT7** stainless steel-410  
**NT6** steel-cr13al  
**NT7** stainless steel-405  
**NT6** steel-cr16  
**NT7** stainless steel-430  
**NT6** steel-cr16ni  
**NT6** steel-cr17cu4ni4nb-l  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17mo  
**NT7** stainless steel-440  
**NT6** steel-cr17ni4mo3  
**NT6** steel-cr18  
**NT6** steel-cr25  
**NT7** stainless steel-446  
**NT6** steel-cr9mo  
**NT6** steel-cr9monbv  
**NT5** low carbon-high alloy steels  
**NT6** steel-cr11ni10mo2ti-l  
**NT6** steel-cr17cu4ni4nb-l  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17ni12mo3-l  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr18ni10-l  
**NT6** steel-cr19ni10-l  
**NT7** stainless steel-3041  
**NT6** steel-cr20ni11-l  
**NT7** stainless steel-3081

**NT6** steel-ni36cr12ti3al-l  
**NT5** stainless steel-317  
**NT5** stainless steel-318  
**NT5** stainless steel-422  
**NT5** stainless steel-fv-548  
**NT5** stainless steel-jbk-75  
**NT5** stainless steel m-50  
**NT5** steel-cr21mn9ni6  
**NT6** stainless steel-21-6-9  
**NT5** sweetalloy  
**NT3** low alloy steels  
**NT4** steel-astm-a350  
**NT4** steel-astm-a387  
**NT4** steel-astm-a508  
**NT4** steel-astm-a533  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-cr5mo  
**NT4** steel-cralnimo  
**NT4** steel-crmo  
**NT4** steel-crmov  
**NT4** steel-crni  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mnmo  
**NT5** steel-astm-a302  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-mnnimov  
**NT4** steel-ni3cr  
**NT4** steel-ni3crmo  
**NT5** steel-astm-a543  
**NT4** steel-ni3crmov  
**NT4** steel-ni4crw  
**NT4** steel-nicr  
**NT4** steel-nicrmo  
**NT4** steel-nimocr  
**NT3** manganese steels  
**NT3** martensitic steels  
**NT4** maraging steels  
**NT4** steel-cr10mo2  
**NT4** steel-cr12  
**NT5** stainless steel-403  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr16ni  
**NT4** steel-cr17cu4ni4nb-l  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr18  
**NT3** nickel steels  
**NT4** sweetalloy  
**NT3** steel-astm-a572  
**NT1** konel  
**NT1** lynite  
**NT1** martensite  
**NT1** misco metal  
**NT1** ni-hard  
**NT1** orthonol  
**NT1** permalloy  
**NT1** rene 41  
**NT1** supertherm  
**NT1** tribaloy 400  
**NT1** tribaloy 800

#### IRON-ALPHA

\*BT1 iron  
 RT ferrite  
 RT martensite

#### IRON ARSENIDES

INIS: 1992-09-17; ETDE: 1978-09-11

\*BT1 arsenides  
 \*BT1 iron compounds

#### IRON BASE ALLOYS

1996-11-13

(Most of the UF terms below have been valid ETDE descriptors.)

UF alloy-fe31cr21co20ni20mo3w2  
 UF alloy-fe36ni33cr26  
 UF alloy-fe48cr24ni24  
 UF alloy-hd-556  
 UF alloy-in-519  
 UF alloy-ma-956  
 UF alloy-n-155  
 UF hd-556  
 UF in 519  
 UF ma 956  
 UF manaurite 36x  
 UF manaurite 900  
 UF rezistal  
 UF sichromal alloys  
 UF tikonol  
 SF alloy-0kh12n13m  
 \*BT1 iron alloys  
**NT1** alloy-co50fe50  
**NT2** permendur  
**NT1** alloy-fe40ni35cr22  
**NT1** alloy-fe44ni33cr21  
**NT2** incoloy 800h  
**NT1** alloy-fe46ni33cr21  
**NT2** incoloy 800  
**NT2** incoloy 802  
**NT1** alloy-fe53ni29co18  
**NT2** kovar  
**NT1** alnico alloys  
**NT1** ascology  
**NT1** cast iron  
**NT1** discaloy  
**NT1** duriron  
**NT1** ge 2541  
**NT1** hiperco  
**NT1** hoskins 875  
**NT1** invar  
**NT1** kanthal  
**NT1** sicromo 9m  
**NT1** steel-cd-4mcu  
**NT1** steels  
**NT2** austenitic steels  
**NT3** steel-cr15ni15motib  
**NT3** steel-cr16ni13monbv  
**NT3** steel-cr16ni15mo3nb  
**NT3** steel-cr16ni16monb  
**NT3** steel-cr16ni8mo2  
**NT4** stainless steel-16-8-2  
**NT3** steel-cr17ni12mo3  
**NT4** stainless steel-316  
**NT3** steel-cr17ni12mo3-l  
**NT4** stainless steel-316l  
**NT4** stainless steel-zcnd17-13  
**NT3** steel-cr17ni12monb  
**NT3** steel-cr17ni13  
**NT3** steel-cr17ni13mo2ti  
**NT3** steel-cr17ni13mo3ti  
**NT3** steel-cr17ni7  
**NT4** stainless steel-301  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr18ni10-l  
**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni11  
**NT4** steel-x6crni1811  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT3** steel-cr18ni12  
**NT4** stainless steel-305  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni8  
**NT4** stainless steel-18-8  
**NT3** steel-cr18ni9

- NT4** stainless steel-302  
**NT3** steel-cr18ni9ti  
**NT3** steel-cr19ni10  
**NT4** stainless steel-304  
**NT3** steel-cr19ni10-1  
**NT4** stainless steel-304l  
**NT3** steel-cr20ni11  
**NT4** stainless steel-308  
**NT3** steel-cr20ni11-1  
**NT4** stainless steel-308l  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr23ni14  
**NT4** stainless steel-309  
**NT4** stainless steel-309s  
**NT3** steel-cr23ni18  
**NT3** steel-cr25ni20  
**NT4** alloy-hk-40  
**NT4** stainless steel-310  
**NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni26cr15ti2moyalb  
**NT4** alloy-a-286  
**NT2** carbon steels  
**NT3** steel-astm-a105  
**NT3** steel-astm-a106  
**NT3** steel-astm-a212  
**NT3** steel-astm-a285  
**NT3** steel-astm-a516  
**NT3** steel-astm-a533-b  
**NT3** steel-in-787  
**NT3** steel-sae-1045  
**NT2** croloy  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr5mo  
**NT2** ferritic steels  
**NT3** steel-cr12moniv  
**NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr25  
**NT4** stainless steel-446  
**NT3** steel-cr9mo  
**NT3** steel-cr9monbv  
**NT2** high alloy steels  
**NT3** stainless steels  
**NT4** chromium-nickel steels  
**NT5** alloy-d-9  
**NT5** carpenter  
**NT5** chromium-nickel-molybdenum steels  
**NT6** alloy-m-813  
**NT6** steel-cr11ni10mo2ti-1  
**NT6** steel-cr15ni15motib  
**NT6** steel-cr16ni13monbv  
**NT6** steel-cr16ni15mo3nb  
**NT6** steel-cr16ni16monb  
**NT6** steel-cr16ni8mo2  
**NT7** stainless steel-16-8-2  
**NT6** steel-cr16ni9mo2  
**NT6** steel-cr17ni12mo3  
**NT7** stainless steel-316  
**NT6** steel-cr17ni12mo3-1  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr17ni12monb  
**NT6** steel-cr17ni13mo2ti  
**NT6** steel-cr17ni13mo3ti  
**NT6** steel-ni26cr15ti2moyalb  
**NT7** alloy-a-286  
**NT5** durco  
**NT5** enduro  
**NT5** stainless steel-17-7ph  
**NT5** stainless steel-303  
**NT5** stainless steel-329  
**NT5** stainless steel-ph-15-7-mo  
**NT5** steel-cr17ni13  
**NT5** steel-cr17ni7  
**NT6** stainless steel-301  
**NT5** steel-cr18ni10  
**NT6** stainless steel-18-10  
**NT5** steel-cr18ni10-1  
**NT5** steel-cr18ni10ti  
**NT6** stainless steel-321  
**NT5** steel-cr18ni11  
**NT6** steel-x6crni1811  
**NT5** steel-cr18ni11nb  
**NT6** stainless steel-347  
**NT5** steel-cr18ni11nbco  
**NT6** stainless steel-348  
**NT5** steel-cr18ni12  
**NT6** stainless steel-305  
**NT5** steel-cr18ni12ti  
**NT5** steel-cr18ni8  
**NT6** stainless steel-18-8  
**NT5** steel-cr18ni9  
**NT6** stainless steel-302  
**NT5** steel-cr18ni9ti  
**NT5** steel-cr19ni10  
**NT6** stainless steel-304  
**NT5** steel-cr19ni10-1  
**NT6** stainless steel-304l  
**NT5** steel-cr20ni11  
**NT6** stainless steel-308  
**NT5** steel-cr20ni11-1  
**NT6** stainless steel-308l  
**NT5** steel-cr23ni14  
**NT6** stainless steel-309  
**NT6** stainless steel-309s  
**NT5** steel-cr23ni18  
**NT5** steel-cr25ni20  
**NT6** alloy-hk-40  
**NT6** stainless steel-310  
**NT5** steel-ni25cr20  
**NT6** stainless steel-20-25  
**NT5** steel-ni36cr12ti3al-1  
**NT5** timken alloys  
**NT4** chromium steels  
**NT5** chromium-molybdenum steels  
**NT6** chromium-nickel-molybdenum steels  
**NT7** alloy-m-813  
**NT7** steel-cr11ni10mo2ti-1  
**NT7** steel-cr15ni15motib  
**NT7** steel-cr16ni13monbv  
**NT7** steel-cr16ni15mo3nb  
**NT7** steel-cr16ni16monb  
**NT7** steel-cr16ni8mo2  
**NT8** stainless steel-16-8-2  
**NT7** steel-cr16ni9mo2  
**NT7** steel-cr17ni12mo3  
**NT8** stainless steel-316  
**NT7** steel-cr17ni12mo3-1  
**NT8** stainless steel-316l  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr17ni12monb  
**NT7** steel-cr17ni13mo2ti  
**NT7** steel-cr17ni13mo3ti  
**NT7** steel-ni26cr15ti2moyalb  
**NT8** alloy-a-286  
**NT5** magnet steel-ks  
**NT5** miduale  
**NT5** stainless steel-406  
**NT5** steel-cr10mo2  
**NT5** steel-cr12  
**NT6** stainless steel-403  
**NT5** steel-cr12moniv  
**NT5** steel-cr12mov  
**NT6** alloy-ht-9  
**NT5** steel-cr13  
**NT6** stainless steel-410  
**NT5** steel-cr13al  
**NT6** stainless steel-405  
**NT5** steel-cr16  
**NT6** stainless steel-430  
**NT5** steel-cr16ni  
**NT5** steel-cr17cu4ni4nb-1  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17mo  
**NT6** stainless steel-440  
**NT5** steel-cr17ni4mo3  
**NT5** steel-cr18  
**NT5** steel-cr25  
**NT6** stainless steel-446  
**NT5** steel-cr9mo  
**NT5** steel-cr9monbv  
**NT4** low carbon-high alloy steels  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr17cu4ni4nb-1  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr18ni10-1  
**NT5** steel-cr19ni10-1  
**NT6** stainless steel-304l  
**NT5** steel-cr20ni11-1  
**NT6** stainless steel-308l  
**NT5** steel-ni36cr12ti3al-1  
**NT4** stainless steel-317  
**NT4** stainless steel-318  
**NT4** stainless steel-422  
**NT4** stainless steel-fv-548  
**NT4** stainless steel-jbk-75  
**NT4** stainless steel m-50  
**NT4** steel-cr21mn9ni6  
**NT5** stainless steel-21-6-9  
**NT4** sweetalloy  
**NT2** low alloy steels  
**NT3** steel-astm-a350  
**NT3** steel-astm-a387  
**NT3** steel-astm-a508  
**NT3** steel-astm-a533  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr5mo  
**NT3** steel-cralnimo  
**NT3** steel-crmo  
**NT3** steel-crmov  
**NT3** steel-crni  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnmo  
**NT4** steel-astm-a302  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-mnnimov  
**NT3** steel-ni3cr  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT3** steel-nimocr  
**NT2** manganese steels  
**NT2** martensitic steels  
**NT3** maraging steels  
**NT3** steel-cr10mo2  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr16ni

NT3 steel-cr17cu4ni4nb-1  
 NT4 stainless steel-17-4ph  
 NT3 steel-cr17mo  
 NT4 stainless steel-440  
 NT3 steel-cr18  
 NT2 nickel steels  
 NT3 sweetalloy  
 NT2 steel-astm-a572

**iron-beta**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE iron

**IRON BORIDES**

\*BT1 borides  
 \*BT1 iron compounds

**IRON BROMIDES**

\*BT1 bromides  
 \*BT1 iron halides

**IRON CARBIDES**

\*BT1 carbides  
 \*BT1 iron compounds  
 NT1 cementite  
 NT1 ni-hard  
 RT cast iron

**IRON CARBONATES**

\*BT1 carbonates  
 \*BT1 iron compounds  
 RT ankerite  
 RT carbonate minerals  
 RT siderite

**IRON CHLORIDES**

\*BT1 chlorides  
 \*BT1 iron halides

**IRON COMPLEXES**

\*BT1 transition element complexes  
 NT1 ferricyanides  
 NT1 ferritin  
 NT1 ferrocene  
 NT1 ferrocyanides  
 RT ferroin  
 RT lactoferrin  
 RT rubredoxin

**IRON COMPOUNDS**

UF ferric compounds  
 UF ferrous compounds  
 SF gadolinite  
 BT1 transition element compounds  
 NT1 ferrates  
 NT1 ferrites  
 NT1 iron arsenides  
 NT1 iron borides  
 NT1 iron carbides  
 NT2 cementite  
 NT2 ni-hard  
 NT1 iron carbonates  
 NT1 iron halides  
 NT2 iron bromides  
 NT2 iron chlorides  
 NT2 iron fluorides  
 NT1 iron hydrides  
 NT1 iron hydroxides  
 NT1 iron nitrates  
 NT1 iron nitrides  
 NT1 iron oxides  
 NT1 iron perchlorates  
 NT1 iron phosphates  
 NT1 iron phosphides  
 NT1 iron selenides  
 NT1 iron silicates  
 NT1 iron silicides  
 NT1 iron sulfates  
 NT1 iron sulfides  
 NT1 iron tellurides  
 NT1 iron tungstates

**IRON-DELTA**

\*BT1 iron

**IRON FLUORIDES**

\*BT1 fluorides  
 \*BT1 iron halides

**iron-free spectrometers**

USE flat magnetic spectrometers

**IRON-GAMMA**

\*BT1 iron  
 RT austenite

**iron garnets**

INIS: 2000-04-12; ETDE: 1982-09-10

USE ferrite garnets

**IRON HALIDES**

2012-07-19

\*BT1 halides  
 \*BT1 iron compounds  
 \*BT1 iron iodides  
 NT1 iron bromides  
 NT1 iron chlorides  
 NT1 iron fluorides

**IRON HYDRIDES**

\*BT1 hydrides  
 \*BT1 iron compounds

**IRON HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 iron compounds

**IRON IODIDES**

\*BT1 iodides  
 NT1 iron halides  
 NT2 iron bromides  
 NT2 iron chlorides  
 NT2 iron fluorides

**IRON IONS**

\*BT1 ions

**IRON ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 iron 45  
 NT1 iron 46  
 NT1 iron 47  
 NT1 iron 48  
 NT1 iron 49  
 NT1 iron 50  
 NT1 iron 51  
 NT1 iron 52  
 NT1 iron 53  
 NT1 iron 54  
 NT1 iron 55  
 NT1 iron 56  
 NT1 iron 57  
 NT1 iron 58  
 NT1 iron 59  
 NT1 iron 60  
 NT1 iron 61  
 NT1 iron 62  
 NT1 iron 63  
 NT1 iron 64  
 NT1 iron 65  
 NT1 iron 66  
 NT1 iron 67  
 NT1 iron 68  
 NT1 iron 69  
 NT1 iron 70  
 NT1 iron 71  
 NT1 iron 72

**IRON METEORITES**

BT1 meteorites  
 RT troilite

**IRON-NICKEL BATTERIES**

2000-04-12

UF nickel-iron batteries

\*BT1 metal-metal oxide batteries

**IRON NITRATES**

\*BT1 iron compounds  
 \*BT1 nitrates

**IRON NITRIDES**

\*BT1 iron compounds  
 \*BT1 nitrides

**IRON ORES**

BT1 ores  
 NT1 hematite  
 NT1 limonite  
 NT1 magnetite  
 NT1 siderite  
 RT pyrite

**IRON OXIDES**

\*BT1 iron compounds  
 \*BT1 oxides  
 RT ferrates  
 RT ferrites  
 RT goethite  
 RT hematite  
 RT ilmenite  
 RT kahlerite  
 RT limonite  
 RT magnetite  
 RT oxide minerals  
 RT shales  
 RT tantalite  
 RT tapiolite  
 RT wolframite

**IRON PERCHLORATES**

INIS: 1983-10-14; ETDE: 1983-11-09

\*BT1 iron compounds  
 \*BT1 perchlorates

**IRON PHOSPHATES**

\*BT1 iron compounds  
 \*BT1 phosphates

**IRON PHOSPHIDES**

INIS: 1976-11-08; ETDE: 1975-10-01

\*BT1 iron compounds  
 \*BT1 phosphides

**IRON SELENIDES**

INIS: 1976-11-08; ETDE: 1976-12-16

\*BT1 iron compounds  
 \*BT1 selenides

**IRON SILICATES**

1996-11-13

\*BT1 iron compounds  
 \*BT1 silicates  
 RT epidotes  
 RT garnets  
 RT helvite  
 RT ilvaite  
 RT olivine  
 RT silicate minerals  
 RT vermiculite

**IRON SILICIDES**

INIS: 1977-01-26; ETDE: 1976-08-24

\*BT1 iron compounds  
 \*BT1 silicides

**IRON SULFATES**

\*BT1 iron compounds  
 \*BT1 sulfates

**IRON SULFIDES**

\*BT1 iron compounds  
 \*BT1 sulfides  
 RT chalcopyrite  
 RT marcasite

RT pyrite  
 RT pyrrhotite  
 RT sulfide minerals

**IRON TELLURIDES**

INIS: 1984-07-23; ETDE: 1978-09-11

\*BT1 iron compounds  
 \*BT1 tellurides

**IRON TUNGSTATES**

INIS: 1977-09-15; ETDE: 1977-06-02

\*BT1 iron compounds  
 \*BT1 tungstates

**IRPA**

International Radiation Protection Association.

UF international radiation protection association

BT1 international organizations

**IRR-1 REACTOR**

Soreq Nuclear Research Centre, Nahal Soreq, Israel.

UF israeli research reactor-1

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**IRR-2 REACTOR**

Dimona, Israel.

UF israeli research reactor-2

\*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors

**irradiance**

INIS: 2006-03-03; ETDE: 2006-02-24

USE radiant flux density

**irradiated fuel elements**

INIS: 1976-07-30; ETDE: 2002-06-13

USE spent fuel elements

**irradiated fuels**

INIS: 1976-07-30; ETDE: 2002-06-13

USE spent fuels

**IRRADIATION**

UF accidental irradiation

UF food irradiation

NT1 acute irradiation

NT1 chronic irradiation

NT1 external irradiation

NT2 extracorporeal irradiation

NT2 partial body irradiation

NT2 whole-body irradiation

NT1 fractionated irradiation

NT1 internal irradiation

NT1 lethal irradiation

NT1 local irradiation

NT1 low dose irradiation

NT1 nonuniform irradiation

NT1 perinatal irradiation

NT1 prenatal irradiation

NT1 pulsed irradiation

NT1 radcidation

NT1 radiodisinfestation

NT1 radiopreservation

NT2 radurization

NT1 radiosterilization

NT2 radappertization

NT1 self-irradiation

NT1 sublethal irradiation

NT1 supralethal irradiation

RT damaging neutron fluence

RT equivalent fission fluence

RT irradiation devices

RT irradiation procedures

RT neutronic damage functions

RT plant breeding

RT radiation dose distributions

RT radiation doses

RT radiation effects

RT radiation hardness

RT radiation hazards

RT radiation sources

RT radiations

RT radioimmunology

RT radiotherapy

**IRRADIATION CAPSULES**

UF capsules (irradiation)

RT experimental channels

RT in pile loops

RT radiation source implants

**irradiation channels**

USE experimental channels

**IRRADIATION DEVICES**

UF irradiation rigs

RT external irradiation

RT irradiation

RT irradiation plants

RT irradiation procedures

RT pigmi facilities

RT radiation sources

**IRRADIATION PLANTS**

BT1 nuclear facilities

NT1 isomed

RT external irradiation

RT irradiation devices

RT irradiation procedures

RT radiation sources

**IRRADIATION PROCEDURES**

RT afterloading

RT external irradiation

RT ifip

RT irradiation

RT irradiation devices

RT irradiation plants

RT spatial dose distributions

RT temporal dose distributions

**IRRADIATION REACTORS**

For isotope production and irradiation purposes; for producing fissile materials see PRODUCTION REACTORS.

BT1 reactors

NT1 chemonuclear reactors

NT1 isotope production reactors

NT2 ill high flux reactor

NT2 afri reactor

NT2 ai-1-77 reactor

NT2 alrr reactor

NT2 apsara reactor

NT2 astra reactor

NT2 atrp reactor

NT2 bepo reactor

NT2 ber-2 reactor

NT2 bgrr reactor

NT2 brr reactor

NT2 byu 1-77 reactor

NT2 celestin reactor

NT2 cesnef reactor

NT2 cirus reactor

NT2 consort-2 reactor

NT2 cp-5 reactor

NT2 dhruva reactor

NT2 dido reactor

NT2 dmtr reactor

NT2 dow triga-mk-1 reactor

NT2 dr-2 reactor

NT2 dr-3 reactor

NT2 el-1 reactor

NT2 el-2 reactor

NT2 el-3 reactor

NT2 etr reactor

NT2 ewa reactor

NT2 fir-1 reactor

NT2 fnr reactor

NT2 fr-2 reactor

NT2 frf reactor

NT2 frg-2 reactor

NT2 frj-2 reactor

NT2 getr reactor

NT2 gtrr reactor

NT2 gulf triga-mk-3 reactor

NT2 hanaro reactor

NT2 hfir reactor

NT2 hifar reactor

NT2 htr reactor

NT2 hwrr reactor

NT2 ian-r1 reactor

NT2 irt-c reactor

NT2 irt-f reactor

NT2 irt reactor

NT2 irt-sofia reactor

NT2 ispra-1 reactor

NT2 jeep-2 reactor

NT2 jrr-1 reactor

NT2 jrr-3 reactor

NT2 jrr-3m reactor

NT2 kuhfr reactor

NT2 lptr reactor

NT2 maria reactor

NT2 melusine-1 reactor

NT2 mnr reactor

NT2 mrr reactor

NT2 nru reactor

NT2 nrx reactor

NT2 opal reactor

NT2 ostr reactor

NT2 pulstar-buffalo reactor

NT2 r-1 reactor

NT2 r-a reactor

NT2 r2-0 reactor

NT2 rmb reactor

NT2 rtp reactor

NT2 rts-1 reactor

NT2 siloe reactor

NT2 slowpoke type reactors

NT3 slowpoke-alberta reactor

NT3 slowpoke-dalhousie reactor

NT3 slowpoke-mona reactor

NT3 slowpoke-montreal reactor

NT3 slowpoke-ottawa reactor

NT3 slowpoke-rmc reactor

NT3 slowpoke-src reactor

NT3 slowpoke-toronto reactor

NT3 slowpoke-wrne reactor

NT2 taiwan research reactor

NT2 thetis reactor

NT2 thor reactor

NT2 tr-1 reactor

NT2 trico ii reactor

NT2 trico reactor

NT2 triga-1-california reactor

NT2 triga-1-hanover reactor

NT2 triga-1-michigan reactor

NT2 triga-2-bandung reactor

NT2 triga-2-bangladesh reactor

NT2 triga-2-dalat reactor

NT2 triga-2-illinois reactor

NT2 triga-2-kansas reactor

NT2 triga-2-ljubljana reactor

NT2 triga-2-mainz reactor

NT2 triga-2-musashi reactor

NT2 triga-2-pavia reactor

NT2 triga-2-pitesti reactor

NT2 triga-2 reactor

NT2 triga-2-rikkyo reactor

NT2 triga-2-rome reactor

NT2 triga-2-seoul reactor

NT2 triga-2-vienna reactor

NT2 triga-3-munich reactor

**NT2** triga-3-salazar reactor  
**NT2** triga-3-seoul reactor  
**NT2** triga-brazil reactor  
**NT2** triga-texas reactor  
**NT2** triga-veterans reactor  
**NT2** tz1 reactor  
**NT2** ucbr reactor  
**NT2** ufr reactor  
**NT2** uknr reactor  
**NT2** uvar reactor  
**NT2** uwnr reactor  
**NT2** wtr reactor  
**NT2** wwr-2 reactor  
**NT2** wwr-m-kiev reactor  
**NT2** wwr-m-leningrad reactor  
**NT2** wwr-s-budapest reactor  
**NT2** wwr-s-moscow reactor  
**NT2** wwr-sm rossendorf reactor  
**NT2** x-10 reactor  
**NT1** materials processing reactors  
**NT1** materials testing reactors  
**NT2** atr reactor  
**NT2** br-2 reactor  
**NT2** cp-2 reactor  
**NT2** dido reactor  
**NT2** dmtr reactor  
**NT2** dr-3 reactor  
**NT2** el-3 reactor  
**NT2** ewg-1 reactor  
**NT2** frg-2 reactor  
**NT2** frj-2 reactor  
**NT2** ga siwabessy reactor  
**NT2** gleep reactor  
**NT2** hanaro reactor  
**NT2** hector reactor  
**NT2** hfetr reactor  
**NT2** hfr reactor  
**NT2** hifar reactor  
**NT2** hwctr reactor  
**NT2** hwrr reactor  
**NT2** igr reactor  
**NT2** ivv-2m reactor  
**NT2** jmtr reactor  
**NT2** jrr-3 reactor  
**NT2** jrr-3m reactor  
**NT2** jules horowitz reactor  
**NT2** kstr reactor  
**NT2** lpr reactor  
**NT2** merlin reactor  
**NT2** mtr reactor  
**NT2** nbsr reactor  
**NT2** nrx reactor  
**NT2** osiris reactor  
**NT2** pbr reactor  
**NT2** pluto reactor  
**NT2** r-2 reactor  
**NT2** rv-1 reactor  
**NT2** sm-2 reactor  
**NT2** taiwan research reactor  
**NT2** triga-1-hanford reactor  
**NT2** wr-1 reactor  
**NT2** wwr-m-kiev reactor  
**NT2** wwr-m-leningrad reactor  
**NT2** zephyr reactor  
**NT1** tritium production reactors  
**NT2** celestin reactor

### irradiation rigs

USE irradiation devices

### IRREDUCIBLE REPRESENTATIONS

UF representations (irreducible)  
 RT group theory  
 RT nonunitary representations  
 RT symmetry groups

### IRREVERSIBLE PROCESSES

RT onsager relations  
 RT prigogine theorem  
 RT thermodynamics

### IRRIGATION

RT agriculture  
 RT cultivation techniques  
 RT drought resistance  
 RT fresh water  
 RT radionuclide migration  
 RT soil conservation  
 RT soils  
 RT surface waters  
 RT water use

### IRT-1 LIBYA REACTOR

2005-01-24

Tajoura Nuclear Research Center, Tajoura, Libya.

UF libyan irt-1 reactor  
 UF wwr-libyan reactor  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

### IRT-2000 DJAKARTA REACTOR

UF djakarta irt-2000 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

### IRT-2000 MOSCOW REACTOR

UF mifi irt-2000 reactor  
 UF moscow irt-2000 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

### irt-2000 sofia reactor

INIS: 1977-03-01; ETDE: 2002-06-13  
 USE irt-sofia reactor

### irt-5000 baghdad reactor

INIS: 1986-07-09; ETDE: 1994-08-10  
 IRT-Baghdad reactor after upgrading from 2 MW(th) to 5 MW(th).  
 USE irt-baghdad reactor

### IRT-BAGHDAD REACTOR

INIS: 1985-06-10; ETDE: 1994-08-10  
 Shutdown since 1991. Under decommissioning.  
 (Prior to June 1985 WWR-S-BAGHDAD REACTOR was used.)

UF baghdad wwr-s reactor  
 UF irt-5000 baghdad reactor  
 UF wwr-c-baghdad reactor  
 UF wwr-s-baghdad reactor  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

### IRT-C REACTOR

2000-04-12

UF soviet research reactor irt-c  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

### IRT-DPRK REACTOR

2018-06-04

Nyongbyon, Republic of Korea  
 \*BT1 pool type reactors  
 \*BT1 research reactors

### IRT-F REACTOR

2000-04-12

UF soviet research reactor irt-f

\*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

### IRT-M REACTOR

2000-04-12

\*BT1 research reactors

### IRT REACTOR

Moscow, Russian Federation.

UF soviet research reactor irt  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

### IRT-SOFIA REACTOR

Institute for Nuclear Research and Nuclear Power, Sofia, Bulgaria. Permanent shutdown since 2008.

UF bulgarian research reactor irt-2000  
 UF irt-2000 sofia reactor  
 UF sofia irt-2000 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

### irvine triga-mk-1 reactor

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE triga-1-california reactor

### irvine triga reactor

2000-04-12

USE triga-1-california reactor

### isabelle

USE isabelle storage rings

### ISABELLE STORAGE RINGS

UF brookhaven intersecting storage accelerators  
 UF cba (brookhaven colliding beam accelerator)  
 UF intersecting storage accelerator  
 UF isabelle  
 BT1 storage rings  
 RT brookhaven rhic

### ISAR-2 REACTOR

1982-10-28

UF kernkraftwerk isar-2  
 UF kki isar-2  
 \*BT1 pwr type reactors

### ISAR DEVICES

\*BT1 linear theta pinch devices

### ISAR REACTOR

Landshut, Federal Republic of Germany.  
 Permanent shutdown since August 2011.

UF kernkraftwerk isar  
 UF kki isar  
 \*BT1 bwr type reactors

### ISCHEMIA

\*BT1 anemias  
 \*BT1 vascular diseases  
 RT anoxia  
 RT blood circulation  
 RT blood vessels  
 RT myocardial infarction  
 RT necrosis

### ISENTROPIC PROCESSES

Accomplished at constant value of the entropy.

UF processes (isentropic)  
 RT adiabatic processes  
 RT entropy



RT isothermal processes  
RT thermodynamics

**ISING MODEL**

\*BT1 crystal models  
RT order-disorder transformations  
RT phi4-field theory  
RT two-dimensional calculations

**ISIS REACTOR**

*CEA/CEN de Saclay, Gif-sur-Yvette, France.*

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**ISIS SPALLATION NEUTRON****SOURCE**

2016-06-09

*Rutherford Appleton Laboratory, Chilton, Oxfordshire, United Kingdom*

\*BT1 spallation neutron source facilities

**islamabad reactor pakistan**

USE parr-1 reactor

**ISLANDS**

1995-11-22

NT1 aleutian islands  
NT2 amchitka island area  
NT1 american samoa  
NT1 azores islands  
NT1 bahrain  
NT1 bermuda  
NT1 canary islands  
NT1 cape verde islands  
NT1 cyprus  
NT1 faeroe islands  
NT1 fiji  
NT1 greenland  
NT1 hawaii  
NT1 iceland  
NT1 indonesia  
NT1 kurile islands  
NT1 madagascar  
NT2 malagasy republic  
NT1 maldives  
NT1 malta  
NT1 mauritius  
NT1 micronesia  
NT2 kiribati  
NT2 marshall islands  
NT3 bikini  
NT3 eniwetok  
NT2 nauru  
NT2 tuvalu  
NT1 new guinea  
NT2 papua new guinea  
NT1 new hebrides islands  
NT1 new zealand  
NT1 newfoundland  
NT1 novaya zemlya  
NT1 okinawa  
NT1 philippines  
NT1 prince edward island  
NT1 reunion island  
NT1 samoa  
NT1 singapore  
NT1 solomon islands  
NT1 sri lanka  
NT1 taiwan  
NT1 tasmania  
NT1 tonga  
NT1 trust territory of the pacific islands  
NT2 mariana islands  
NT3 guam  
NT1 vanuatu  
NT1 west indies  
NT2 bahama islands  
NT2 greater antilles

NT3 cuba  
NT3 hispaniola  
NT4 dominican republic  
NT4 haiti  
NT3 jamaica  
NT3 puerto rico  
NT2 lesser antilles  
NT3 antigua and barbuda  
NT3 barbados  
NT3 grenada  
NT3 martinique  
NT3 netherlands antilles  
NT3 saint kitts and nevis  
NT3 trinidad and tobago  
NT3 virgin islands  
NT2 saint lucia  
NT2 saint vincent and the grenadines  
RT oceania  
RT seas  
RT terrestrial ecosystems

**ISO**

UF *international standard organization*  
BT1 international organizations  
RT international electrotechnical commission  
RT recommendations  
RT regulations  
RT standardized terminology  
RT standards document

**ISOALLOXAZINES**

2000-04-03

UF *flavins*  
\*BT1 heterocyclic compounds  
\*BT1 organic nitrogen compounds  
\*BT1 organic oxygen compounds  
NT1 diaphorase  
RT coenzymes

**isoamyl acetate**

1996-10-23

(Prior to March 1997 ISOPENTYL ACETATE was used for this concept in ETDE.)  
USE acetic acid esters

**isoamylase**

USE amylase  
USE isoenzymes

**ISOBAR MODEL**

UF *isobaric model*  
\*BT1 particle models

**ISOBARIC ANALOGS**

UF *analog resonances (isobaric)*  
UF *analog states*  
BT1 energy levels  
RT isobaric nuclei  
RT nolen-schiffer anomaly

**isobaric model**

USE isobar model

**ISOBARIC NUCLEI**

*Nuclei having identical mass numbers.*  
BT1 nuclei  
RT isobaric analogs  
RT mirror nuclei

**isobaric spin**

USE isospin

**isobars (nucleon)**

USE n\*baryons

**isobutane**

USE 2-methylpropane

**isobutyl alcohol**

USE 2-methylpropanol

**ISOBUTYL RADICALS**

\*BT1 alkyl radicals

**isobutylene**

USE 2-methylpropene

**ISOBUTYRIC ACID**

\*BT1 monocarboxylic acids

**ISOCHRONOUS CYCLOTRONS**

1996-07-18

(APACHE, CHICAGO CYCLOTRON, and CRACOW C-48 CYCLOTRON have been valid ETDE descriptors.)

UF *apache*  
UF *chicago cyclotron*  
UF *cracow c-48 cyclotron*  
UF *sector cyclotron*

\*BT1 cyclotrons

NT1 aabo cyclotron

NT1 alice cyclotron

NT1 brookhaven cyclotron

NT1 cracow aic-144 cyclotron

NT1 crml superconducting cyclotron

NT1 cyclone cyclotron

NT1 debrecen cyclotron

NT1 eindhoven cyclotron

NT1 ganil cyclotron

NT1 grenoble cyclotron

NT1 haizy cyclotron

NT1 hirfl cyclotron

NT1 inr cyclotron

NT1 iper cyclotron

NT1 iu cyclotron

NT1 jinr cyclotrons

NT2 jinr dc-110 cyclotron

NT2 jinr u-400 cyclotron

NT2 jinr u-400m cyclotron

NT1 julic cyclotron

NT1 karlsruhe cyclotron

NT1 kazakhstan cyclotron

NT1 kiev cyclotron

NT1 kvi cyclotron

NT1 milan superconducting cyclotron

NT1 msu cyclotrons

NT1 munich compact cyclotron

NT1 munich suse cyclotron

NT1 nac cyclotron

NT1 nirs cyclotron

NT1 nrl cyclotron

NT1 ornl isochronous cyclotron

NT1 orsay cyclotron

NT1 oslo cyclotron

NT1 princeton cyclotron

NT1 rcnp cyclotron

NT1 sara cyclotron

NT1 sin cyclotron

NT1 texas a and m cyclotron

NT1 texas superconducting cyclotron

NT1 tohoku cyclotron

NT1 tokyo ins cyclotron

NT1 triumf cyclotron

NT1 uclrl cyclotrons

NT2 lbl 88-inch cyclotron

NT1 warsaw cyclotron

RT vicksi accelerator

**ISOCYANATES**

1995-01-11

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

(Until January 1995 this concept was indexed to CYANATES.)

UF *isocyanic acid*  
\*BT1 carbonic acid derivatives  
BT1 nitrogen compounds  
RT cyanates  
RT oxygen compounds

**isocyanic acid**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE isocyanates

**ISOCYANIC ACID ESTERS**

2000-04-12

\*BT1 esters

**ISODOSE CURVES**

RT depth dose distributions

RT nonuniform irradiation

RT phantoms

RT radiation dose distributions

RT radiotherapy

RT spatial dose distributions

**ISOELECTRONIC ATOMS**

BT1 atoms

RT electronic structure

**ISOENZYMES**

UF isoamylase

BT1 organic compounds

RT enzymes

**isolated locations**

INIS: 1994-10-13; ETDE: 1978-06-14

USE remote areas

**ISOLATION CONDENSERS**

1994-08-26

\*BT1 steam condensers

RT heat exchangers

RT reactor cooling systems

**ISOMED**

INIS: 1975-11-07; ETDE: 1975-12-16

*Radiation Plant for Sterilization of Medical Products.*

\*BT1 irradiation plants

RT medical supplies

RT radiosterilization

RT surgical materials

**ISOMER RATIO**

INIS: 1986-05-23; ETDE: 1985-11-19

*Ratio of cross sections for populating excited and ground states of the same nuclide in a nuclear reaction.*

BT1 dimensionless numbers

RT isomeric nuclei

**ISOMER SHIFT***Property shift between the isomeric and the ground states of a nucleus.*

RT isomeric nuclei

**ISOMERASES**

Code number 5.

\*BT1 enzymes

RT isomerization

RT isomers

RT racemization

**ISOMERIC NUCLEI**

BT1 nuclei

RT fission isomers

RT isomer ratio

RT isomer shift

RT isomeric transition isotopes

RT isomeric transitions

**ISOMERIC TRANSITION ISOTOPES**

1997-02-07

\*BT1 radioisotopes

NT1 actinium 222

NT1 aluminium 24

NT1 americium 242

NT1 antimony 113

NT1 antimony 117

NT1 antimony 122

NT1 antimony 124

NT1 antimony 126

NT1 antimony 131

NT1 arsenic 75

NT1 astatine 202

NT1 barium 127

NT1 barium 131

NT1 barium 133

NT1 barium 135

NT1 barium 136

NT1 barium 137

NT1 barium 138

NT1 bismuth 184

NT1 bismuth 187

NT1 bismuth 198

NT1 bismuth 201

NT1 bismuth 208

NT1 bismuth 211

NT1 bohrium 266

NT1 bohrium 267

NT1 bohrium 272

NT1 bromine 76

NT1 bromine 77

NT1 bromine 79

NT1 bromine 80

NT1 bromine 82

NT1 bromine 83

NT1 cadmium 100

NT1 cadmium 111

NT1 cadmium 113

NT1 cerium 135

NT1 cerium 137

NT1 cerium 138

NT1 cerium 139

NT1 cesium 121

NT1 cesium 123

NT1 cesium 134

NT1 cesium 135

NT1 cesium 136

NT1 cesium 138

NT1 chlorine 34

NT1 chlorine 38

NT1 cobalt 58

NT1 cobalt 60

NT1 copper 68

NT1 darmstadtium 271

NT1 dubnium 267

NT1 dysprosium 140

NT1 dysprosium 147

NT1 dysprosium 149

NT1 dysprosium 165

NT1 erbium 151

NT1 erbium 167

NT1 europium 141

NT1 europium 152

NT1 europium 154

NT1 fermium 250

NT1 fermium 256

NT1 fluorine 18

NT1 francium 206

NT1 francium 211

NT1 francium 212

NT1 francium 213

NT1 francium 218

NT1 gadolinium 141

NT1 gadolinium 145

NT1 gadolinium 147

NT1 gadolinium 148

NT1 gallium 72

NT1 gallium 74

NT1 germanium 71

NT1 germanium 73

NT1 germanium 75

NT1 germanium 77

NT1 gold 191

NT1 gold 193

NT1 gold 195

NT1 gold 196

NT1 gold 197

NT1 gold 198

NT1 gold 200

NT1 hafnium 156

NT1 hafnium 177

NT1 hafnium 178

NT1 hafnium 179

NT1 hafnium 180

NT1 hafnium 182

NT1 holmium 148

NT1 holmium 156

NT1 holmium 158

NT1 holmium 159

NT1 holmium 160

NT1 holmium 161

NT1 holmium 162

NT1 holmium 163

NT1 holmium 164

NT1 holmium 168

NT1 indium 104

NT1 indium 107

NT1 indium 109

NT1 indium 111

NT1 indium 112

NT1 indium 113

NT1 indium 114

NT1 indium 115

NT1 indium 116

NT1 indium 117

NT1 indium 118

NT1 indium 119

NT1 indium 121

NT1 iodine 116

NT1 iodine 121

NT1 iodine 122

NT1 iodine 130

NT1 iodine 132

NT1 iodine 133

NT1 iodine 134

NT1 iridium 190

NT1 iridium 191

NT1 iridium 192

NT1 iridium 193

NT1 iridium 194

NT1 iron 53

NT1 krypton 79

NT1 krypton 81

NT1 krypton 83

NT1 krypton 84

NT1 krypton 85

NT1 krypton 86

NT1 lanthanum 132

NT1 lead 194

NT1 lead 197

NT1 lead 199

NT1 lead 200

NT1 lead 201

NT1 lead 202

NT1 lead 203

NT1 lead 204

NT1 lead 205

NT1 lead 207

NT1 lutetium 153

NT1 lutetium 154

NT1 lutetium 161

NT1 lutetium 169

NT1 lutetium 170

NT1 lutetium 171

NT1 lutetium 172

NT1 lutetium 174

NT1 lutetium 177

NT1 manganese 60

NT1 mercury 193

NT1 mercury 195

NT1 mercury 197

NT1 mercury 199

NT1 mercury 201

NT1 molybdenum 89

NT1 molybdenum 91

**NT1** molybdenum 92  
**NT1** molybdenum 93  
**NT1** molybdenum 94  
**NT1** neodymium 137  
**NT1** neodymium 139  
**NT1** neodymium 141  
**NT1** neptunium 237  
**NT1** niobium 86  
**NT1** niobium 90  
**NT1** niobium 91  
**NT1** niobium 93  
**NT1** niobium 94  
**NT1** niobium 95  
**NT1** niobium 97  
**NT1** nobelium 254  
**NT1** osmium 182  
**NT1** osmium 183  
**NT1** osmium 189  
**NT1** osmium 190  
**NT1** osmium 191  
**NT1** osmium 192  
**NT1** palladium 107  
**NT1** palladium 109  
**NT1** palladium 111  
**NT1** palladium 117  
**NT1** platinum 184  
**NT1** platinum 193  
**NT1** platinum 195  
**NT1** platinum 197  
**NT1** platinum 199  
**NT1** plutonium 237  
**NT1** polonium 201  
**NT1** polonium 203  
**NT1** polonium 207  
**NT1** polonium 210  
**NT1** potassium 40  
**NT1** praseodymium 142  
**NT1** praseodymium 144  
**NT1** promethium 148  
**NT1** protactinium 234  
**NT1** radium 213  
**NT1** radon 197  
**NT1** radon 210  
**NT1** radon 211  
**NT1** rhenium 160  
**NT1** rhenium 167  
**NT1** rhenium 169  
**NT1** rhenium 184  
**NT1** rhenium 186  
**NT1** rhenium 188  
**NT1** rhenium 190  
**NT1** rhenium 194  
**NT1** rhenium 196  
**NT1** rhodium 100  
**NT1** rhodium 101  
**NT1** rhodium 103  
**NT1** rhodium 104  
**NT1** rhodium 105  
**NT1** rhodium 95  
**NT1** rhodium 96  
**NT1** rhodium 97  
**NT1** rubidium 76  
**NT1** rubidium 78  
**NT1** rubidium 81  
**NT1** rubidium 84  
**NT1** rubidium 85  
**NT1** rubidium 86  
**NT1** rubidium 90  
**NT1** ruthenium 93  
**NT1** samarium 139  
**NT1** samarium 141  
**NT1** samarium 143  
**NT1** scandium 44  
**NT1** scandium 46  
**NT1** scandium 50  
**NT1** selenium 73  
**NT1** selenium 77  
**NT1** selenium 79  
**NT1** selenium 81

**NT1** silver 101  
**NT1** silver 102  
**NT1** silver 103  
**NT1** silver 105  
**NT1** silver 107  
**NT1** silver 108  
**NT1** silver 109  
**NT1** silver 110  
**NT1** silver 111  
**NT1** silver 113  
**NT1** silver 116  
**NT1** silver 118  
**NT1** silver 120  
**NT1** silver 99  
**NT1** sodium 22  
**NT1** sodium 24  
**NT1** strontium 83  
**NT1** strontium 85  
**NT1** strontium 87  
**NT1** tantalum 182  
**NT1** technetium 102  
**NT1** technetium 86  
**NT1** technetium 93  
**NT1** technetium 95  
**NT1** technetium 96  
**NT1** technetium 97  
**NT1** technetium 99  
**NT1** tellurium 121  
**NT1** tellurium 123  
**NT1** tellurium 125  
**NT1** tellurium 127  
**NT1** tellurium 129  
**NT1** tellurium 131  
**NT1** tellurium 133  
**NT1** terbium 142  
**NT1** terbium 144  
**NT1** terbium 146  
**NT1** terbium 151  
**NT1** terbium 152  
**NT1** terbium 154  
**NT1** terbium 156  
**NT1** terbium 158  
**NT1** thallium 179  
**NT1** thallium 185  
**NT1** thallium 186  
**NT1** thallium 187  
**NT1** thallium 193  
**NT1** thallium 195  
**NT1** thallium 196  
**NT1** thallium 197  
**NT1** thallium 198  
**NT1** thallium 201  
**NT1** thallium 206  
**NT1** thallium 207  
**NT1** thulium 150  
**NT1** thulium 162  
**NT1** thulium 164  
**NT1** tin 102  
**NT1** tin 113  
**NT1** tin 117  
**NT1** tin 119  
**NT1** tin 121  
**NT1** tin 129  
**NT1** tin 131  
**NT1** tungsten 179  
**NT1** tungsten 180  
**NT1** tungsten 183  
**NT1** tungsten 185  
**NT1** uranium 235  
**NT1** xenon 125  
**NT1** xenon 127  
**NT1** xenon 129  
**NT1** xenon 131  
**NT1** xenon 133  
**NT1** xenon 135  
**NT1** ytterbium 153  
**NT1** ytterbium 169  
**NT1** ytterbium 175  
**NT1** ytterbium 176

**NT1** ytterbium 177  
**NT1** yttrium 86  
**NT1** yttrium 87  
**NT1** yttrium 88  
**NT1** yttrium 89  
**NT1** yttrium 90  
**NT1** yttrium 91  
**NT1** yttrium 93  
**NT1** yttrium 97  
**NT1** zinc 69  
**NT1** zirconium 85  
**NT1** zirconium 87  
**NT1** zirconium 89  
**NT1** zirconium 90  
*RT* isomeric nuclei  
*RT* isomeric transitions

## ISOMERIC TRANSITIONS

*BT1* energy-level transitions  
*RT* decay  
*RT* isomeric nuclei  
*RT* isomeric transition isotopes

## ISOMERIZATION

*INIS: 1976-07-06; ETDE: 1976-09-14*  
*Process for converting hydrocarbon or other organic compound to an isomer.*  
*UF* tautomerism  
*BT1* chemical reactions  
*RT* isomerases

## ISOMERS

*Only for geometrical isomers and stereoisomers in chemistry; see also ISOMERIC NUCLEI.*  
**NT1** enantiomorphs  
*RT* isomerases  
*RT* stereochemistry

## ISONIAZID

*1996-07-18*  
*UF* iproniazid  
*\*BT1* antimicrobial agents  
*\*BT1* hydrazides  
*RT* pyridines

## ISONITRILES

*\*BT1* carbonic acid derivatives  
*RT* nitriles

## isopentane

*INIS: 1983-09-06; ETDE: 1979-09-26*  
*USE* 2-methylbutane

## isopentyl acetate

*1996-10-23*  
 (Until October 1996 this was a valid descriptor.)  
*USE* acetic acid esters

## ISOPRENE

*UF* 2-methylbutadiene  
*\*BT1* dienes  
*RT* polyisoprene

## isopropyl cresol

*USE* thymol

## ISOPROPYL ETHER

*UF* di-(2-propyl) ether  
*UF* diisopropyl ether  
*\*BT1* ethers  
*RT* organic solvents

## ISOPROPYL RADICALS

*\*BT1* alkyl radicals

## isopropylbenzene

*USE* cumene

## isopropyltoluene-para

*USE* cymene

**ISOSPIN**

1996-01-24

- UF isobaric spin
- UF isotopic spin
- BT1 particle properties
- RT charm particles
- RT yang-mills theory

**ISOTACHOPHORESIS**

INIS: 1993-08-03; ETDE: 1983-04-07

Migration of ion species of the same sign, all with a common counter-ion, under the influence of an electric field.

- BT1 electrophoresis

**isotherm**

INIS: 2000-04-12; ETDE: 1976-08-24

(Prior to July 1985, this was a valid ETDE descriptor.)

- USE isotherms

**ISOTHERMAL PROCESSES**

- UF processes (isothermal)
- RT adiabatic processes
- RT isentropic processes
- RT thermodynamics

**ISOTHERMS**

INIS: 1983-02-03; ETDE: 1983-03-07

Lines connecting points of equal temperature.

- UF geoisotherms
- UF isotherm
- NT1 adsorption isotherms
- RT temperature distribution
- RT temperature measurement

**ISOTHIOCYANATES**

1995-01-11

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

(Until January 1995 this concept was indexed to THIOCYANATES.)

- \*BT1 carbonic acid derivatives
- BT1 nitrogen compounds
- \*BT1 organic sulfur compounds
- RT thiocyanates

**isotones**

- USE isotonic nuclei

**ISOTONIC NUCLEI**

Nuclei having identical number of neutrons.

- UF isotones
- BT1 nuclei

**ISOTONIC SOLUTIONS**

INIS: 1981-02-27; ETDE: 1981-03-13

Solutions having the same osmotic pressure.

- \*BT1 solutions
- RT hypertonic solutions
- RT osmosis

**isotope analysis (quantitative)**

1995-11-10

- USE isotope ratio

**ISOTOPE APPLICATIONS**

- NT1 tracer techniques
- NT2 dual-isotope subtraction technique
- NT2 isotope dilution
- NT2 labelled pool techniques
- NT2 radioactive tracer logging
- NT2 radioimmunoassay
- NT3 radioimmunoassay
- NT3 radioimmunoassay
- NT2 radioreceptor assay
- RT labelling
- RT radiocolloids

**isotope composition**

- USE isotope ratio

**isotope composition (quantitative)**

- USE isotope ratio

**ISOTOPE DATING**

- UF argon method
- UF helium method
- UF lead method
- UF radiocarbon dating
- BT1 age estimation
- RT carbon 14

**ISOTOPE DILUTION**

- \*BT1 tracer techniques
- RT dilution
- RT quantitative chemical analysis
- RT stoichiometry

**ISOTOPE EFFECTS**

- UF isotopic effects
- RT isotopes
- RT isotopic exchange

**ISOTOPE ENRICHED MATERIALS**

- UF enriched materials (isotopes)
- BT1 materials
- NT1 enriched uranium
- NT2 highly enriched uranium
- NT2 moderately enriched uranium
- NT2 slightly enriched uranium
- RT gas centrifugation
- RT isotope separation
- RT isotopic exchange

**isotope enrichment**

- USE isotope separation

**isotope exchange**

- USE isotopic exchange

**ISOTOPE PRODUCTION**

- UF production (isotope)
- RT accelerators
- RT isotope production reactors
- RT isotopes
- RT production
- RT radioisotope generators
- RT transmutation

**ISOTOPE PRODUCTION REACTORS**

1995-01-10

For the production of radioisotopes to be used in medicine, agriculture, industry, etc.; for the production of fissile materials, see also PRODUCTION REACTORS, and for the production of tritium, see also TRITIUM PRODUCTION REACTORS.

- \*BT1 irradiation reactors
- NT1 ill high flux reactor
- NT1 afrr reactor
- NT1 ai-l-77 reactor
- NT1 alrr reactor
- NT1 apsara reactor
- NT1 astra reactor
- NT1 atpr reactor
- NT1 bepo reactor
- NT1 ber-2 reactor
- NT1 bgrr reactor
- NT1 brr reactor
- NT1 byu 1-77 reactor
- NT1 celestin reactor
- NT1 cesnef reactor
- NT1 cirus reactor
- NT1 consort-2 reactor
- NT1 cp-5 reactor
- NT1 dhruva reactor
- NT1 dido reactor
- NT1 dmtr reactor
- NT1 dow triga-mk-1 reactor

- NT1 dr-2 reactor
- NT1 dr-3 reactor
- NT1 el-1 reactor
- NT1 el-2 reactor
- NT1 el-3 reactor
- NT1 etr reactor
- NT1 ewa reactor
- NT1 fir-1 reactor
- NT1 fnr reactor
- NT1 fr-2 reactor
- NT1 frf reactor
- NT1 frg-2 reactor
- NT1 frj-2 reactor
- NT1 getr reactor
- NT1 gtr reactor
- NT1 gulf triga-mk-3 reactor
- NT1 hanaro reactor
- NT1 hfir reactor
- NT1 hifar reactor
- NT1 htr reactor
- NT1 hwrr reactor
- NT1 ian-r1 reactor
- NT1 irt-c reactor
- NT1 irt-f reactor
- NT1 irt reactor
- NT1 irt-sofia reactor
- NT1 ispra-1 reactor
- NT1 jeep-2 reactor
- NT1 jrr-1 reactor
- NT1 jrr-3 reactor
- NT1 jrr-3m reactor
- NT1 kuhfr reactor
- NT1 lpr reactor
- NT1 maria reactor
- NT1 melusine-1 reactor
- NT1 mnr reactor
- NT1 mrr reactor
- NT1 nru reactor
- NT1 nrx reactor
- NT1 opal reactor
- NT1 ostr reactor
- NT1 pulstar-buffalo reactor
- NT1 r-1 reactor
- NT1 r-a reactor
- NT1 r2-0 reactor
- NT1 rmb reactor
- NT1 rtp reactor
- NT1 rts-1 reactor
- NT1 siloe reactor
- NT1 slowpoke type reactors
- NT2 slowpoke-alberta reactor
- NT2 slowpoke-dalhousie reactor
- NT2 slowpoke-mona reactor
- NT2 slowpoke-montreal reactor
- NT2 slowpoke-ottawa reactor
- NT2 slowpoke rmc reactor
- NT2 slowpoke src reactor
- NT2 slowpoke-toronto reactor
- NT2 slowpoke-wmre reactor
- NT1 taiwan research reactor
- NT1 thetis reactor
- NT1 thor reactor
- NT1 tr-1 reactor
- NT1 trico ii reactor
- NT1 trico reactor
- NT1 triga-1-california reactor
- NT1 triga-1-hanover reactor
- NT1 triga-1-michigan reactor
- NT1 triga-2-bandung reactor
- NT1 triga-2-bangladesh reactor
- NT1 triga-2-dalat reactor
- NT1 triga-2-illinois reactor
- NT1 triga-2-kansas reactor
- NT1 triga-2-ljubljana reactor
- NT1 triga-2-mainz reactor
- NT1 triga-2-musashi reactor
- NT1 triga-2-pavia reactor
- NT1 triga-2-pitesti reactor
- NT1 triga-2 reactor

**NT1** triga-2-rikkyo reactor  
**NT1** triga-2-rome reactor  
**NT1** triga-2-seoul reactor  
**NT1** triga-2-vienna reactor  
**NT1** triga-3-munich reactor  
**NT1** triga-3-salazar reactor  
**NT1** triga-3-seoul reactor  
**NT1** triga-brazil reactor  
**NT1** triga-texas reactor  
**NT1** triga-veterans reactor  
**NT1** tz1 reactor  
**NT1** ucbr reactor  
**NT1** ufr reactor  
**NT1** uknr reactor  
**NT1** uvar reactor  
**NT1** uwnr reactor  
**NT1** wtr reactor  
**NT1** wwr-2 reactor  
**NT1** wwr-m-kiev reactor  
**NT1** wwr-m-leningrad reactor  
**NT1** wwr-s-budapest reactor  
**NT1** wwr-s-moscow reactor  
**NT1** wwr-sm rossendorf reactor  
**NT1** x-10 reactor  
**RT** isotope production

### ISOTOPE RATIO

**UF** abundance (isotopic)  
**UF** isotope analysis (quantitative)  
**UF** isotope composition  
**UF** isotope composition (quantitative)  
**UF** isotopic analysis (quantitative)  
**UF** isotopic composition (quantitative)  
**BT1** dimensionless numbers  
**RT** abundance  
**RT** element abundance  
**RT** isotopes  
**RT** natural occurrence

### ISOTOPE SEPARATION

For separation of isotopes of the same element only.

**UF** column separation (isotopes)  
**UF** depletion (isotopic)  
**UF** enrichment (isotopic)  
**UF** enrichment (uranium)  
**UF** isotope enrichment  
**UF** isotopic separation  
**UF** uranium enrichment  
**BT1** separation processes  
**NT1** dual temperature process  
**NT1** electromagnetic isotope separation  
**NT1** gas centrifugation  
**NT1** gaseous diffusion process  
**NT1** laser isotope separation  
**NT1** separation nozzle method  
**RT** centrifugation  
**RT** electromagnetic isotope separators  
**RT** enrichment  
**RT** gas centrifuges  
**RT** heavy water plants  
**RT** isotope enriched materials  
**RT** isotope separators  
**RT** isotopes  
**RT** plasma centrifuges  
**RT** radioisotope generators  
**RT** thermal diffusion  
**RT** ultracentrifuges

### ISOTOPE SEPARATION PLANTS

*INIS: 1976-04-03; ETDE: 1976-05-17*

**UF** uranium enrichment plants  
**BT1** industrial plants  
**BT1** nuclear facilities  
**NT1** areva nc miramas  
**NT1** areva nc pierrelatte  
**NT1** centrifuge enrichment plants  
**NT2** portsmouth centrifuge enrichment plant  
**NT2** rokkasho uranium enrichment plant

**NT1** gaseous diffusion plants  
**NT2** orgdp  
**NT2** paducah plant  
**NT2** portsmouth gaseous diffusion plant  
**NT1** heavy water plants  
**NT1** tritium extraction plants  
**RT** isotope separators

### ISOTOPE SEPARATORS

1994-04-12

**UF** cern isolate  
**\*BT1** separation equipment  
**RT** isotope separation  
**RT** isotope separation plants

### isotope shift

**USE** spectral shift

### ISOTOPES

(From October 1976 till February 1997

ALKALI METAL ISOTOPES was a valid

ETDE descriptor.)

**UF** alkali metal isotopes

**UF** nuclides

**NT1** actinium isotopes

**NT2** actinium 206  
**NT2** actinium 207  
**NT2** actinium 208  
**NT2** actinium 209  
**NT2** actinium 210  
**NT2** actinium 211  
**NT2** actinium 212  
**NT2** actinium 213  
**NT2** actinium 214  
**NT2** actinium 215  
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**NT2** actinium 228  
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**NT2** actinium 231  
**NT2** actinium 232  
**NT2** actinium 233  
**NT2** actinium 234  
**NT2** actinium 235  
**NT2** actinium 236

**NT1** alkaline earth isotopes

**NT2** barium isotopes  
**NT3** barium 114  
**NT3** barium 115  
**NT3** barium 116  
**NT3** barium 117  
**NT3** barium 118  
**NT3** barium 119  
**NT3** barium 120  
**NT3** barium 121  
**NT3** barium 122  
**NT3** barium 123  
**NT3** barium 124  
**NT3** barium 125  
**NT3** barium 126  
**NT3** barium 127  
**NT3** barium 128  
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**NT3** barium 135

**NT3** barium 136  
**NT3** barium 137  
**NT3** barium 138  
**NT3** barium 139  
**NT3** barium 140  
**NT3** barium 141  
**NT3** barium 142  
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**NT3** barium 144  
**NT3** barium 145  
**NT3** barium 146  
**NT3** barium 147  
**NT3** barium 148  
**NT3** barium 149  
**NT3** barium 150  
**NT3** barium 151  
**NT3** barium 152  
**NT3** barium 153  
**NT2** beryllium isotopes  
**NT3** beryllium 10  
**NT3** beryllium 11  
**NT3** beryllium 12  
**NT3** beryllium 13  
**NT3** beryllium 14  
**NT3** beryllium 15  
**NT3** beryllium 16  
**NT3** beryllium 5  
**NT3** beryllium 6  
**NT3** beryllium 7  
**NT3** beryllium 8  
**NT3** beryllium 9  
**NT2** calcium isotopes  
**NT3** calcium 34  
**NT3** calcium 35  
**NT3** calcium 36  
**NT3** calcium 37  
**NT3** calcium 38  
**NT3** calcium 39  
**NT3** calcium 40  
**NT3** calcium 41  
**NT3** calcium 42  
**NT3** calcium 43  
**NT3** calcium 44  
**NT3** calcium 45  
**NT3** calcium 46  
**NT3** calcium 47  
**NT3** calcium 48  
**NT3** calcium 49  
**NT3** calcium 50  
**NT3** calcium 51  
**NT3** calcium 52  
**NT3** calcium 53  
**NT3** calcium 54  
**NT3** calcium 55  
**NT3** calcium 56  
**NT3** calcium 57  
**NT3** calcium 58  
**NT3** calcium 60  
**NT2** magnesium isotopes  
**NT3** magnesium 19  
**NT3** magnesium 20  
**NT3** magnesium 21  
**NT3** magnesium 22  
**NT3** magnesium 23  
**NT3** magnesium 24  
**NT3** magnesium 25  
**NT3** magnesium 26  
**NT3** magnesium 27  
**NT3** magnesium 28  
**NT3** magnesium 29  
**NT3** magnesium 30  
**NT3** magnesium 31  
**NT3** magnesium 32  
**NT3** magnesium 33  
**NT3** magnesium 34  
**NT3** magnesium 35  
**NT3** magnesium 36  
**NT3** magnesium 37  
**NT3** magnesium 38

<b>NT3</b> magnesium 39	<b>NT2</b> aluminium 28	<b>NT2</b> argon 35
<b>NT3</b> magnesium 40	<b>NT2</b> aluminium 29	<b>NT2</b> argon 36
<b>NT2</b> radium isotopes	<b>NT2</b> aluminium 30	<b>NT2</b> argon 37
<b>NT3</b> radium 201	<b>NT2</b> aluminium 31	<b>NT2</b> argon 38
<b>NT3</b> radium 202	<b>NT2</b> aluminium 32	<b>NT2</b> argon 39
<b>NT3</b> radium 203	<b>NT2</b> aluminium 33	<b>NT2</b> argon 40
<b>NT3</b> radium 204	<b>NT2</b> aluminium 34	<b>NT2</b> argon 41
<b>NT3</b> radium 205	<b>NT2</b> aluminium 35	<b>NT2</b> argon 42
<b>NT3</b> radium 206	<b>NT2</b> aluminium 36	<b>NT2</b> argon 43
<b>NT3</b> radium 207	<b>NT2</b> aluminium 37	<b>NT2</b> argon 44
<b>NT3</b> radium 208	<b>NT2</b> aluminium 38	<b>NT2</b> argon 45
<b>NT3</b> radium 209	<b>NT2</b> aluminium 39	<b>NT2</b> argon 46
<b>NT3</b> radium 210	<b>NT2</b> aluminium 40	<b>NT2</b> argon 47
<b>NT3</b> radium 211	<b>NT2</b> aluminium 41	<b>NT2</b> argon 48
<b>NT3</b> radium 212	<b>NT2</b> aluminium 42	<b>NT2</b> argon 49
<b>NT3</b> radium 213	<b>NT1</b> americium isotopes	<b>NT2</b> argon 50
<b>NT3</b> radium 214	<b>NT2</b> americium 231	<b>NT2</b> argon 51
<b>NT3</b> radium 215	<b>NT2</b> americium 232	<b>NT2</b> argon 52
<b>NT3</b> radium 216	<b>NT2</b> americium 233	<b>NT2</b> argon 53
<b>NT3</b> radium 217	<b>NT2</b> americium 234	<b>NT1</b> arsenic isotopes
<b>NT3</b> radium 218	<b>NT2</b> americium 235	<b>NT2</b> arsenic 60
<b>NT3</b> radium 219	<b>NT2</b> americium 236	<b>NT2</b> arsenic 61
<b>NT3</b> radium 220	<b>NT2</b> americium 237	<b>NT2</b> arsenic 62
<b>NT3</b> radium 221	<b>NT2</b> americium 238	<b>NT2</b> arsenic 63
<b>NT3</b> radium 222	<b>NT2</b> americium 239	<b>NT2</b> arsenic 64
<b>NT3</b> radium 223	<b>NT2</b> americium 240	<b>NT2</b> arsenic 65
<b>NT3</b> radium 224	<b>NT2</b> americium 241	<b>NT2</b> arsenic 66
<b>NT3</b> radium 225	<b>NT2</b> americium 242	<b>NT2</b> arsenic 67
<b>NT3</b> radium 226	<b>NT2</b> americium 243	<b>NT2</b> arsenic 68
<b>NT3</b> radium 227	<b>NT2</b> americium 244	<b>NT2</b> arsenic 69
<b>NT3</b> radium 228	<b>NT2</b> americium 245	<b>NT2</b> arsenic 70
<b>NT3</b> radium 229	<b>NT2</b> americium 246	<b>NT2</b> arsenic 71
<b>NT3</b> radium 230	<b>NT2</b> americium 247	<b>NT2</b> arsenic 72
<b>NT3</b> radium 231	<b>NT2</b> americium 248	<b>NT2</b> arsenic 73
<b>NT3</b> radium 232	<b>NT2</b> americium 249	<b>NT2</b> arsenic 74
<b>NT3</b> radium 233	<b>NT1</b> antimony isotopes	<b>NT2</b> arsenic 75
<b>NT3</b> radium 234	<b>NT2</b> antimony 103	<b>NT2</b> arsenic 76
<b>NT2</b> strontium isotopes	<b>NT2</b> antimony 104	<b>NT2</b> arsenic 77
<b>NT3</b> strontium 100	<b>NT2</b> antimony 105	<b>NT2</b> arsenic 78
<b>NT3</b> strontium 101	<b>NT2</b> antimony 106	<b>NT2</b> arsenic 79
<b>NT3</b> strontium 102	<b>NT2</b> antimony 107	<b>NT2</b> arsenic 80
<b>NT3</b> strontium 103	<b>NT2</b> antimony 108	<b>NT2</b> arsenic 81
<b>NT3</b> strontium 104	<b>NT2</b> antimony 109	<b>NT2</b> arsenic 82
<b>NT3</b> strontium 105	<b>NT2</b> antimony 110	<b>NT2</b> arsenic 83
<b>NT3</b> strontium 73	<b>NT2</b> antimony 111	<b>NT2</b> arsenic 84
<b>NT3</b> strontium 74	<b>NT2</b> antimony 112	<b>NT2</b> arsenic 85
<b>NT3</b> strontium 75	<b>NT2</b> antimony 113	<b>NT2</b> arsenic 86
<b>NT3</b> strontium 76	<b>NT2</b> antimony 114	<b>NT2</b> arsenic 87
<b>NT3</b> strontium 77	<b>NT2</b> antimony 115	<b>NT2</b> arsenic 88
<b>NT3</b> strontium 78	<b>NT2</b> antimony 116	<b>NT2</b> arsenic 89
<b>NT3</b> strontium 79	<b>NT2</b> antimony 117	<b>NT2</b> arsenic 90
<b>NT3</b> strontium 80	<b>NT2</b> antimony 118	<b>NT2</b> arsenic 91
<b>NT3</b> strontium 81	<b>NT2</b> antimony 119	<b>NT2</b> arsenic 92
<b>NT3</b> strontium 82	<b>NT2</b> antimony 120	<b>NT1</b> astatine isotopes
<b>NT3</b> strontium 83	<b>NT2</b> antimony 121	<b>NT2</b> astatine 191
<b>NT3</b> strontium 84	<b>NT2</b> antimony 122	<b>NT2</b> astatine 192
<b>NT3</b> strontium 85	<b>NT2</b> antimony 123	<b>NT2</b> astatine 193
<b>NT3</b> strontium 86	<b>NT2</b> antimony 124	<b>NT2</b> astatine 194
<b>NT3</b> strontium 87	<b>NT2</b> antimony 125	<b>NT2</b> astatine 195
<b>NT3</b> strontium 88	<b>NT2</b> antimony 126	<b>NT2</b> astatine 196
<b>NT3</b> strontium 89	<b>NT2</b> antimony 127	<b>NT2</b> astatine 197
<b>NT3</b> strontium 90	<b>NT2</b> antimony 128	<b>NT2</b> astatine 198
<b>NT3</b> strontium 91	<b>NT2</b> antimony 129	<b>NT2</b> astatine 199
<b>NT3</b> strontium 92	<b>NT2</b> antimony 130	<b>NT2</b> astatine 200
<b>NT3</b> strontium 93	<b>NT2</b> antimony 131	<b>NT2</b> astatine 201
<b>NT3</b> strontium 94	<b>NT2</b> antimony 132	<b>NT2</b> astatine 202
<b>NT3</b> strontium 95	<b>NT2</b> antimony 133	<b>NT2</b> astatine 203
<b>NT3</b> strontium 96	<b>NT2</b> antimony 134	<b>NT2</b> astatine 204
<b>NT3</b> strontium 97	<b>NT2</b> antimony 135	<b>NT2</b> astatine 205
<b>NT3</b> strontium 98	<b>NT2</b> antimony 136	<b>NT2</b> astatine 206
<b>NT3</b> strontium 99	<b>NT2</b> antimony 137	<b>NT2</b> astatine 207
<b>NT1</b> aluminium isotopes	<b>NT2</b> antimony 138	<b>NT2</b> astatine 208
<b>NT2</b> aluminium 21	<b>NT2</b> antimony 139	<b>NT2</b> astatine 209
<b>NT2</b> aluminium 22	<b>NT1</b> argon isotopes	<b>NT2</b> astatine 210
<b>NT2</b> aluminium 23	<b>NT2</b> argon 30	<b>NT2</b> astatine 211
<b>NT2</b> aluminium 24	<b>NT2</b> argon 31	<b>NT2</b> astatine 212
<b>NT2</b> aluminium 25	<b>NT2</b> argon 32	<b>NT2</b> astatine 213
<b>NT2</b> aluminium 26	<b>NT2</b> argon 33	<b>NT2</b> astatine 214
<b>NT2</b> aluminium 27	<b>NT2</b> argon 34	<b>NT2</b> astatine 215

NT2	astatine 216	NT1	boron isotopes	NT2	cadmium 131
NT2	astatine 217	NT2	boron 10	NT2	cadmium 132
NT2	astatine 218	NT2	boron 11	NT2	cadmium 95
NT2	astatine 219	NT2	boron 12	NT2	cadmium 96
NT2	astatine 220	NT2	boron 13	NT2	cadmium 97
NT2	astatine 221	NT2	boron 14	NT2	cadmium 98
NT2	astatine 222	NT2	boron 15	NT2	cadmium 99
NT2	astatine 223	NT2	boron 16	NT1	californium isotopes
NT1	berkelium isotopes	NT2	boron 17	NT2	californium 236
NT2	berkelium 235	NT2	boron 18	NT2	californium 237
NT2	berkelium 236	NT2	boron 19	NT2	californium 238
NT2	berkelium 237	NT2	boron 6	NT2	californium 239
NT2	berkelium 238	NT2	boron 7	NT2	californium 240
NT2	berkelium 239	NT2	boron 8	NT2	californium 241
NT2	berkelium 240	NT2	boron 9	NT2	californium 242
NT2	berkelium 241	NT1	bromine isotopes	NT2	californium 243
NT2	berkelium 242	NT2	bromine 67	NT2	californium 244
NT2	berkelium 243	NT2	bromine 68	NT2	californium 245
NT2	berkelium 244	NT2	bromine 69	NT2	californium 246
NT2	berkelium 245	NT2	bromine 70	NT2	californium 247
NT2	berkelium 246	NT2	bromine 71	NT2	californium 248
NT2	berkelium 247	NT2	bromine 72	NT2	californium 249
NT2	berkelium 248	NT2	bromine 73	NT2	californium 250
NT2	berkelium 249	NT2	bromine 74	NT2	californium 251
NT2	berkelium 250	NT2	bromine 75	NT2	californium 252
NT2	berkelium 251	NT2	bromine 76	NT2	californium 253
NT2	berkelium 252	NT2	bromine 77	NT2	californium 254
NT2	berkelium 253	NT2	bromine 78	NT2	californium 255
NT2	berkelium 254	NT2	bromine 79	NT2	californium 256
NT1	bismuth isotopes	NT2	bromine 80	NT1	carbon isotopes
NT2	bismuth 184	NT2	bromine 81	NT2	carbon 10
NT2	bismuth 185	NT2	bromine 82	NT2	carbon 11
NT2	bismuth 186	NT2	bromine 83	NT2	carbon 12
NT2	bismuth 187	NT2	bromine 84	NT2	carbon 13
NT2	bismuth 188	NT2	bromine 85	NT2	carbon 14
NT2	bismuth 189	NT2	bromine 86	NT2	carbon 15
NT2	bismuth 190	NT2	bromine 87	NT2	carbon 16
NT2	bismuth 191	NT2	bromine 88	NT2	carbon 17
NT2	bismuth 192	NT2	bromine 89	NT2	carbon 18
NT2	bismuth 193	NT2	bromine 90	NT2	carbon 19
NT2	bismuth 194	NT2	bromine 91	NT2	carbon 20
NT2	bismuth 195	NT2	bromine 92	NT2	carbon 21
NT2	bismuth 196	NT2	bromine 93	NT2	carbon 22
NT2	bismuth 197	NT2	bromine 94	NT2	carbon 8
NT2	bismuth 198	NT2	bromine 95	NT2	carbon 9
NT2	bismuth 199	NT2	bromine 96	NT1	carrier-free isotopes
NT2	bismuth 200	NT2	bromine 97	NT1	cerium isotopes
NT2	bismuth 201	NT1	cadmium isotopes	NT2	cerium 119
NT2	bismuth 202	NT2	cadmium 100	NT2	cerium 120
NT2	bismuth 203	NT2	cadmium 101	NT2	cerium 121
NT2	bismuth 204	NT2	cadmium 102	NT2	cerium 122
NT2	bismuth 205	NT2	cadmium 103	NT2	cerium 123
NT2	bismuth 206	NT2	cadmium 104	NT2	cerium 124
NT2	bismuth 207	NT2	cadmium 105	NT2	cerium 125
NT2	bismuth 208	NT2	cadmium 106	NT2	cerium 126
NT2	bismuth 209	NT2	cadmium 107	NT2	cerium 127
NT2	bismuth 210	NT2	cadmium 108	NT2	cerium 128
NT2	bismuth 211	NT2	cadmium 109	NT2	cerium 129
NT2	bismuth 212	NT2	cadmium 110	NT2	cerium 130
NT2	bismuth 213	NT2	cadmium 111	NT2	cerium 131
NT2	bismuth 214	NT2	cadmium 112	NT2	cerium 132
NT2	bismuth 215	NT2	cadmium 113	NT2	cerium 133
NT2	bismuth 216	NT2	cadmium 114	NT2	cerium 134
NT2	bismuth 217	NT2	cadmium 115	NT2	cerium 135
NT2	bismuth 218	NT2	cadmium 116	NT2	cerium 136
NT1	bohrium isotopes	NT2	cadmium 117	NT2	cerium 137
NT2	bohrium 260	NT2	cadmium 118	NT2	cerium 138
NT2	bohrium 261	NT2	cadmium 119	NT2	cerium 139
NT2	bohrium 262	NT2	cadmium 120	NT2	cerium 140
NT2	bohrium 263	NT2	cadmium 121	NT2	cerium 141
NT2	bohrium 264	NT2	cadmium 122	NT2	cerium 142
NT2	bohrium 265	NT2	cadmium 123	NT2	cerium 143
NT2	bohrium 266	NT2	cadmium 124	NT2	cerium 144
NT2	bohrium 267	NT2	cadmium 125	NT2	cerium 145
NT2	bohrium 271	NT2	cadmium 126	NT2	cerium 146
NT2	bohrium 272	NT2	cadmium 127	NT2	cerium 147
NT2	bohrium 273	NT2	cadmium 128	NT2	cerium 148
NT2	bohrium 274	NT2	cadmium 129	NT2	cerium 149
NT2	bohrium 275	NT2	cadmium 130	NT2	cerium 150

NT2	cerium 151	NT2	chromium 47	NT2	copper 73
NT2	cerium 152	NT2	chromium 48	NT2	copper 74
NT2	cerium 153	NT2	chromium 49	NT2	copper 75
NT2	cerium 154	NT2	chromium 50	NT2	copper 76
NT2	cerium 155	NT2	chromium 51	NT2	copper 77
NT2	cerium 156	NT2	chromium 52	NT2	copper 78
NT2	cerium 157	NT2	chromium 53	NT2	copper 79
NT1	cesium isotopes	NT2	chromium 54	NT2	copper 80
NT2	cesium 112	NT2	chromium 55	NT1	curium isotopes
NT2	cesium 113	NT2	chromium 56	NT2	curium 232
NT2	cesium 114	NT2	chromium 57	NT2	curium 233
NT2	cesium 115	NT2	chromium 58	NT2	curium 234
NT2	cesium 116	NT2	chromium 59	NT2	curium 235
NT2	cesium 117	NT2	chromium 60	NT2	curium 236
NT2	cesium 118	NT2	chromium 61	NT2	curium 237
NT2	cesium 119	NT2	chromium 62	NT2	curium 238
NT2	cesium 120	NT2	chromium 63	NT2	curium 239
NT2	cesium 121	NT2	chromium 64	NT2	curium 240
NT2	cesium 122	NT2	chromium 65	NT2	curium 241
NT2	cesium 123	NT2	chromium 66	NT2	curium 242
NT2	cesium 124	NT2	chromium 67	NT2	curium 243
NT2	cesium 125	NT2	chromium 68	NT2	curium 244
NT2	cesium 126	NT1	cobalt isotopes	NT2	curium 245
NT2	cesium 127	NT2	cobalt 49	NT2	curium 246
NT2	cesium 128	NT2	cobalt 50	NT2	curium 247
NT2	cesium 129	NT2	cobalt 51	NT2	curium 248
NT2	cesium 130	NT2	cobalt 52	NT2	curium 249
NT2	cesium 131	NT2	cobalt 53	NT2	curium 250
NT2	cesium 132	NT2	cobalt 54	NT2	curium 251
NT2	cesium 133	NT2	cobalt 55	NT2	curium 252
NT2	cesium 134	NT2	cobalt 56	NT1	darmstadtium isotopes
NT2	cesium 135	NT2	cobalt 57	NT2	darmstadtium 267
NT2	cesium 136	NT2	cobalt 58	NT2	darmstadtium 269
NT2	cesium 137	NT2	cobalt 59	NT2	darmstadtium 270
NT2	cesium 138	NT2	cobalt 60	NT2	darmstadtium 271
NT2	cesium 139	NT2	cobalt 61	NT2	darmstadtium 272
NT2	cesium 140	NT2	cobalt 62	NT2	darmstadtium 273
NT2	cesium 141	NT2	cobalt 63	NT2	darmstadtium 279
NT2	cesium 142	NT2	cobalt 64	NT2	darmstadtium 281
NT2	cesium 143	NT2	cobalt 65	NT1	daughter products
NT2	cesium 144	NT2	cobalt 66	NT1	dubnium isotopes
NT2	cesium 145	NT2	cobalt 67	NT2	dubnium 255
NT2	cesium 146	NT2	cobalt 68	NT2	dubnium 256
NT2	cesium 147	NT2	cobalt 69	NT2	dubnium 257
NT2	cesium 148	NT2	cobalt 70	NT2	dubnium 258
NT2	cesium 149	NT2	cobalt 71	NT2	dubnium 259
NT2	cesium 150	NT2	cobalt 72	NT2	dubnium 260
NT2	cesium 151	NT2	cobalt 73	NT2	dubnium 261
NT1	chlorine isotopes	NT2	cobalt 74	NT2	dubnium 262
NT2	chlorine 28	NT2	cobalt 75	NT2	dubnium 263
NT2	chlorine 29	NT1	copernicium isotopes	NT2	dubnium 264
NT2	chlorine 30	NT2	copernicium 277	NT2	dubnium 265
NT2	chlorine 31	NT2	copernicium 278	NT2	dubnium 266
NT2	chlorine 32	NT2	copernicium 282	NT2	dubnium 267
NT2	chlorine 33	NT2	copernicium 283	NT2	dubnium 268
NT2	chlorine 34	NT2	copernicium 284	NT2	dubnium 269
NT2	chlorine 35	NT2	copernicium 285	NT1	dysprosium isotopes
NT2	chlorine 36	NT1	copper isotopes	NT2	dysprosium 138
NT2	chlorine 37	NT2	copper 52	NT2	dysprosium 139
NT2	chlorine 38	NT2	copper 53	NT2	dysprosium 140
NT2	chlorine 39	NT2	copper 54	NT2	dysprosium 141
NT2	chlorine 40	NT2	copper 55	NT2	dysprosium 142
NT2	chlorine 41	NT2	copper 56	NT2	dysprosium 143
NT2	chlorine 42	NT2	copper 57	NT2	dysprosium 144
NT2	chlorine 43	NT2	copper 58	NT2	dysprosium 145
NT2	chlorine 44	NT2	copper 59	NT2	dysprosium 146
NT2	chlorine 45	NT2	copper 60	NT2	dysprosium 147
NT2	chlorine 46	NT2	copper 61	NT2	dysprosium 148
NT2	chlorine 47	NT2	copper 62	NT2	dysprosium 149
NT2	chlorine 48	NT2	copper 63	NT2	dysprosium 150
NT2	chlorine 49	NT2	copper 64	NT2	dysprosium 151
NT2	chlorine 50	NT2	copper 65	NT2	dysprosium 152
NT2	chlorine 51	NT2	copper 66	NT2	dysprosium 153
NT1	chromium isotopes	NT2	copper 67	NT2	dysprosium 154
NT2	chromium 42	NT2	copper 68	NT2	dysprosium 155
NT2	chromium 43	NT2	copper 69	NT2	dysprosium 156
NT2	chromium 44	NT2	copper 70	NT2	dysprosium 157
NT2	chromium 45	NT2	copper 71	NT2	dysprosium 158
NT2	chromium 46	NT2	copper 72	NT2	dysprosium 159



NT2	dysprosium 160	NT2	europium 135	NT2	fluorine 29
NT2	dysprosium 161	NT2	europium 136	NT2	fluorine 30
NT2	dysprosium 162	NT2	europium 137	NT2	fluorine 31
NT2	dysprosium 163	NT2	europium 138	NT1	francium isotopes
NT2	dysprosium 164	NT2	europium 139	NT2	francium 199
NT2	dysprosium 165	NT2	europium 140	NT2	francium 200
NT2	dysprosium 166	NT2	europium 141	NT2	francium 201
NT2	dysprosium 167	NT2	europium 142	NT2	francium 202
NT2	dysprosium 168	NT2	europium 143	NT2	francium 203
NT2	dysprosium 169	NT2	europium 144	NT2	francium 204
NT2	dysprosium 170	NT2	europium 145	NT2	francium 205
NT2	dysprosium 171	NT2	europium 146	NT2	francium 206
NT2	dysprosium 172	NT2	europium 147	NT2	francium 207
NT2	dysprosium 173	NT2	europium 148	NT2	francium 208
NT1	einsteinium isotopes	NT2	europium 149	NT2	francium 209
NT2	einsteinium 240	NT2	europium 150	NT2	francium 210
NT2	einsteinium 241	NT2	europium 151	NT2	francium 211
NT2	einsteinium 242	NT2	europium 152	NT2	francium 212
NT2	einsteinium 243	NT2	europium 153	NT2	francium 213
NT2	einsteinium 244	NT2	europium 154	NT2	francium 214
NT2	einsteinium 245	NT2	europium 155	NT2	francium 215
NT2	einsteinium 246	NT2	europium 156	NT2	francium 216
NT2	einsteinium 247	NT2	europium 157	NT2	francium 217
NT2	einsteinium 248	NT2	europium 158	NT2	francium 218
NT2	einsteinium 249	NT2	europium 159	NT2	francium 219
NT2	einsteinium 250	NT2	europium 160	NT2	francium 220
NT2	einsteinium 251	NT2	europium 161	NT2	francium 221
NT2	einsteinium 252	NT2	europium 162	NT2	francium 222
NT2	einsteinium 253	NT2	europium 163	NT2	francium 223
NT2	einsteinium 254	NT2	europium 164	NT2	francium 224
NT2	einsteinium 255	NT2	europium 165	NT2	francium 225
NT2	einsteinium 256	NT2	europium 166	NT2	francium 226
NT2	einsteinium 257	NT2	europium 167	NT2	francium 227
NT2	einsteinium 258	NT1	fermium isotopes	NT2	francium 228
NT1	element 119 isotopes	NT2	fermium 241	NT2	francium 229
NT1	element 124 isotopes	NT2	fermium 242	NT2	francium 230
NT2	element 124 312	NT2	fermium 243	NT2	francium 231
NT1	erbium isotopes	NT2	fermium 244	NT2	francium 232
NT2	erbium 143	NT2	fermium 245	NT1	gadolinium isotopes
NT2	erbium 144	NT2	fermium 246	NT2	gadolinium 134
NT2	erbium 145	NT2	fermium 247	NT2	gadolinium 135
NT2	erbium 146	NT2	fermium 248	NT2	gadolinium 136
NT2	erbium 147	NT2	fermium 249	NT2	gadolinium 137
NT2	erbium 148	NT2	fermium 250	NT2	gadolinium 138
NT2	erbium 149	NT2	fermium 251	NT2	gadolinium 139
NT2	erbium 150	NT2	fermium 252	NT2	gadolinium 140
NT2	erbium 151	NT2	fermium 253	NT2	gadolinium 141
NT2	erbium 152	NT2	fermium 254	NT2	gadolinium 142
NT2	erbium 153	NT2	fermium 255	NT2	gadolinium 143
NT2	erbium 154	NT2	fermium 256	NT2	gadolinium 144
NT2	erbium 155	NT2	fermium 257	NT2	gadolinium 145
NT2	erbium 156	NT2	fermium 258	NT2	gadolinium 146
NT2	erbium 157	NT2	fermium 259	NT2	gadolinium 147
NT2	erbium 158	NT2	fermium 260	NT2	gadolinium 148
NT2	erbium 159	NT2	fermium 264	NT2	gadolinium 149
NT2	erbium 160	NT1	fission products	NT2	gadolinium 150
NT2	erbium 161	NT1	flerovium isotopes	NT2	gadolinium 151
NT2	erbium 162	NT2	flerovium 285	NT2	gadolinium 152
NT2	erbium 163	NT2	flerovium 286	NT2	gadolinium 153
NT2	erbium 164	NT2	flerovium 287	NT2	gadolinium 154
NT2	erbium 165	NT2	flerovium 288	NT2	gadolinium 155
NT2	erbium 166	NT2	flerovium 289	NT2	gadolinium 156
NT2	erbium 167	NT2	flerovium 292	NT2	gadolinium 157
NT2	erbium 168	NT1	fluorine isotopes	NT2	gadolinium 158
NT2	erbium 169	NT2	fluorine 14	NT2	gadolinium 159
NT2	erbium 170	NT2	fluorine 15	NT2	gadolinium 160
NT2	erbium 171	NT2	fluorine 16	NT2	gadolinium 161
NT2	erbium 172	NT2	fluorine 17	NT2	gadolinium 162
NT2	erbium 173	NT2	fluorine 18	NT2	gadolinium 163
NT2	erbium 174	NT2	fluorine 19	NT2	gadolinium 164
NT2	erbium 175	NT2	fluorine 20	NT2	gadolinium 165
NT2	erbium 176	NT2	fluorine 21	NT2	gadolinium 166
NT2	erbium 177	NT2	fluorine 22	NT2	gadolinium 167
NT1	europium isotopes	NT2	fluorine 23	NT2	gadolinium 168
NT2	europium 130	NT2	fluorine 24	NT2	gadolinium 169
NT2	europium 131	NT2	fluorine 25	NT1	gallium isotopes
NT2	europium 132	NT2	fluorine 26	NT2	gallium 56
NT2	europium 133	NT2	fluorine 27	NT2	gallium 57
NT2	europium 134	NT2	fluorine 28	NT2	gallium 58

NT2	gallium 59	NT2	gold 186	NT3	helium ii
NT2	gallium 60	NT2	gold 187	NT2	helium 5
NT2	gallium 61	NT2	gold 188	NT2	helium 6
NT2	gallium 62	NT2	gold 189	NT2	helium 7
NT2	gallium 63	NT2	gold 190	NT2	helium 8
NT2	gallium 64	NT2	gold 191	NT2	helium 9
NT2	gallium 65	NT2	gold 192	NT1	holmium isotopes
NT2	gallium 66	NT2	gold 193	NT2	holmium 140
NT2	gallium 67	NT2	gold 194	NT2	holmium 141
NT2	gallium 68	NT2	gold 195	NT2	holmium 142
NT2	gallium 69	NT2	gold 196	NT2	holmium 143
NT2	gallium 70	NT2	gold 197	NT2	holmium 144
NT2	gallium 71	NT2	gold 198	NT2	holmium 145
NT2	gallium 72	NT2	gold 199	NT2	holmium 146
NT2	gallium 73	NT2	gold 200	NT2	holmium 147
NT2	gallium 74	NT2	gold 201	NT2	holmium 148
NT2	gallium 75	NT2	gold 202	NT2	holmium 149
NT2	gallium 76	NT2	gold 203	NT2	holmium 150
NT2	gallium 77	NT2	gold 204	NT2	holmium 151
NT2	gallium 78	NT2	gold 205	NT2	holmium 152
NT2	gallium 79	NT1	hafnium isotopes	NT2	holmium 153
NT2	gallium 80	NT2	hafnium 153	NT2	holmium 154
NT2	gallium 81	NT2	hafnium 154	NT2	holmium 155
NT2	gallium 82	NT2	hafnium 155	NT2	holmium 156
NT2	gallium 83	NT2	hafnium 156	NT2	holmium 157
NT2	gallium 84	NT2	hafnium 157	NT2	holmium 158
NT2	gallium 85	NT2	hafnium 158	NT2	holmium 159
NT2	gallium 86	NT2	hafnium 159	NT2	holmium 160
NT1	germanium isotopes	NT2	hafnium 160	NT2	holmium 161
NT2	germanium 58	NT2	hafnium 161	NT2	holmium 162
NT2	germanium 59	NT2	hafnium 162	NT2	holmium 163
NT2	germanium 60	NT2	hafnium 163	NT2	holmium 164
NT2	germanium 61	NT2	hafnium 164	NT2	holmium 165
NT2	germanium 62	NT2	hafnium 165	NT2	holmium 166
NT2	germanium 63	NT2	hafnium 166	NT2	holmium 167
NT2	germanium 64	NT2	hafnium 167	NT2	holmium 168
NT2	germanium 65	NT2	hafnium 168	NT2	holmium 169
NT2	germanium 66	NT2	hafnium 169	NT2	holmium 170
NT2	germanium 67	NT2	hafnium 170	NT2	holmium 171
NT2	germanium 68	NT2	hafnium 171	NT2	holmium 172
NT2	germanium 69	NT2	hafnium 172	NT2	holmium 173
NT2	germanium 70	NT2	hafnium 173	NT2	holmium 174
NT2	germanium 71	NT2	hafnium 174	NT2	holmium 175
NT2	germanium 72	NT2	hafnium 175	NT1	hydrogen isotopes
NT2	germanium 73	NT2	hafnium 176	NT2	deuterium
NT2	germanium 74	NT2	hafnium 177	NT2	hydrogen 1
NT2	germanium 75	NT2	hafnium 178	NT2	hydrogen 4
NT2	germanium 76	NT2	hafnium 179	NT2	hydrogen 5
NT2	germanium 77	NT2	hafnium 180	NT2	hydrogen 6
NT2	germanium 78	NT2	hafnium 181	NT2	hydrogen 7
NT2	germanium 79	NT2	hafnium 182	NT2	tritium
NT2	germanium 80	NT2	hafnium 183	NT1	indium isotopes
NT2	germanium 81	NT2	hafnium 184	NT2	indium 100
NT2	germanium 82	NT2	hafnium 185	NT2	indium 101
NT2	germanium 83	NT2	hafnium 186	NT2	indium 102
NT2	germanium 84	NT2	hafnium 187	NT2	indium 103
NT2	germanium 85	NT2	hafnium 188	NT2	indium 104
NT2	germanium 86	NT1	hassium isotopes	NT2	indium 105
NT2	germanium 87	NT2	hassium 263	NT2	indium 106
NT2	germanium 88	NT2	hassium 264	NT2	indium 107
NT2	germanium 89	NT2	hassium 265	NT2	indium 108
NT1	gold isotopes	NT2	hassium 266	NT2	indium 109
NT2	gold 169	NT2	hassium 267	NT2	indium 110
NT2	gold 170	NT2	hassium 269	NT2	indium 111
NT2	gold 171	NT2	hassium 270	NT2	indium 112
NT2	gold 172	NT2	hassium 271	NT2	indium 113
NT2	gold 173	NT2	hassium 272	NT2	indium 114
NT2	gold 174	NT2	hassium 274	NT2	indium 115
NT2	gold 175	NT2	hassium 275	NT2	indium 116
NT2	gold 176	NT2	hassium 276	NT2	indium 117
NT2	gold 177	NT1	helium isotopes	NT2	indium 118
NT2	gold 178	NT2	helium 10	NT2	indium 119
NT2	gold 179	NT2	helium 2	NT2	indium 120
NT2	gold 180	NT2	helium 3	NT2	indium 121
NT2	gold 181	NT3	helium 3 a	NT2	indium 122
NT2	gold 182	NT3	helium 3 a1	NT2	indium 123
NT2	gold 183	NT3	helium 3 b	NT2	indium 124
NT2	gold 184	NT2	helium 4	NT2	indium 125
NT2	gold 185	NT3	helium i	NT2	indium 126

NT2	indium 127	NT2	iridium 192	NT2	lanthanum 124
NT2	indium 128	NT2	iridium 193	NT2	lanthanum 125
NT2	indium 129	NT2	iridium 194	NT2	lanthanum 126
NT2	indium 130	NT2	iridium 195	NT2	lanthanum 127
NT2	indium 131	NT2	iridium 196	NT2	lanthanum 128
NT2	indium 132	NT2	iridium 197	NT2	lanthanum 129
NT2	indium 133	NT2	iridium 198	NT2	lanthanum 130
NT2	indium 134	NT2	iridium 199	NT2	lanthanum 131
NT2	indium 135	NT2	iridium 202	NT2	lanthanum 132
NT2	indium 97	NT1	iron isotopes	NT2	lanthanum 133
NT2	indium 98	NT2	iron 45	NT2	lanthanum 134
NT2	indium 99	NT2	iron 46	NT2	lanthanum 135
NT1	iodine isotopes	NT2	iron 47	NT2	lanthanum 136
NT2	iodine 108	NT2	iron 48	NT2	lanthanum 137
NT2	iodine 109	NT2	iron 49	NT2	lanthanum 138
NT2	iodine 110	NT2	iron 50	NT2	lanthanum 139
NT2	iodine 111	NT2	iron 51	NT2	lanthanum 140
NT2	iodine 112	NT2	iron 52	NT2	lanthanum 141
NT2	iodine 113	NT2	iron 53	NT2	lanthanum 142
NT2	iodine 114	NT2	iron 54	NT2	lanthanum 143
NT2	iodine 115	NT2	iron 55	NT2	lanthanum 144
NT2	iodine 116	NT2	iron 56	NT2	lanthanum 145
NT2	iodine 117	NT2	iron 57	NT2	lanthanum 146
NT2	iodine 118	NT2	iron 58	NT2	lanthanum 147
NT2	iodine 119	NT2	iron 59	NT2	lanthanum 148
NT2	iodine 120	NT2	iron 60	NT2	lanthanum 149
NT2	iodine 121	NT2	iron 61	NT2	lanthanum 150
NT2	iodine 122	NT2	iron 62	NT2	lanthanum 151
NT2	iodine 123	NT2	iron 63	NT2	lanthanum 152
NT2	iodine 124	NT2	iron 64	NT2	lanthanum 153
NT2	iodine 125	NT2	iron 65	NT2	lanthanum 154
NT2	iodine 126	NT2	iron 66	NT2	lanthanum 155
NT2	iodine 127	NT2	iron 67	NT1	lawrencium isotopes
NT2	iodine 128	NT2	iron 68	NT2	lawrencium 251
NT2	iodine 129	NT2	iron 69	NT2	lawrencium 252
NT2	iodine 130	NT2	iron 70	NT2	lawrencium 253
NT2	iodine 131	NT2	iron 71	NT2	lawrencium 254
NT2	iodine 132	NT2	iron 72	NT2	lawrencium 255
NT2	iodine 133	NT1	krypton isotopes	NT2	lawrencium 256
NT2	iodine 134	NT2	krypton 100	NT2	lawrencium 257
NT2	iodine 135	NT2	krypton 69	NT2	lawrencium 258
NT2	iodine 136	NT2	krypton 70	NT2	lawrencium 259
NT2	iodine 137	NT2	krypton 71	NT2	lawrencium 260
NT2	iodine 138	NT2	krypton 72	NT2	lawrencium 261
NT2	iodine 139	NT2	krypton 73	NT2	lawrencium 262
NT2	iodine 140	NT2	krypton 74	NT2	lawrencium 263
NT2	iodine 141	NT2	krypton 75	NT2	lawrencium 264
NT2	iodine 142	NT2	krypton 76	NT2	lawrencium 265
NT2	iodine 143	NT2	krypton 77	NT2	lawrencium 266
NT2	iodine 144	NT2	krypton 78	NT1	lead isotopes
NT1	iridium isotopes	NT2	krypton 79	NT2	lead 178
NT2	iridium 164	NT2	krypton 80	NT2	lead 179
NT2	iridium 165	NT2	krypton 81	NT2	lead 180
NT2	iridium 166	NT2	krypton 82	NT2	lead 181
NT2	iridium 167	NT2	krypton 83	NT2	lead 182
NT2	iridium 168	NT2	krypton 84	NT2	lead 183
NT2	iridium 169	NT2	krypton 85	NT2	lead 184
NT2	iridium 170	NT2	krypton 86	NT2	lead 185
NT2	iridium 171	NT2	krypton 87	NT2	lead 186
NT2	iridium 172	NT2	krypton 88	NT2	lead 187
NT2	iridium 173	NT2	krypton 89	NT2	lead 188
NT2	iridium 174	NT2	krypton 90	NT2	lead 189
NT2	iridium 175	NT2	krypton 91	NT2	lead 190
NT2	iridium 176	NT2	krypton 92	NT2	lead 191
NT2	iridium 177	NT2	krypton 93	NT2	lead 192
NT2	iridium 178	NT2	krypton 94	NT2	lead 193
NT2	iridium 179	NT2	krypton 95	NT2	lead 194
NT2	iridium 180	NT2	krypton 96	NT2	lead 195
NT2	iridium 181	NT2	krypton 97	NT2	lead 196
NT2	iridium 182	NT2	krypton 98	NT2	lead 197
NT2	iridium 183	NT2	krypton 99	NT2	lead 198
NT2	iridium 184	NT1	lanthanum isotopes	NT2	lead 199
NT2	iridium 185	NT2	lanthanum 117	NT2	lead 200
NT2	iridium 186	NT2	lanthanum 118	NT2	lead 201
NT2	iridium 187	NT2	lanthanum 119	NT2	lead 202
NT2	iridium 188	NT2	lanthanum 120	NT2	lead 203
NT2	iridium 189	NT2	lanthanum 121	NT2	lead 204
NT2	iridium 190	NT2	lanthanum 122	NT2	lead 205
NT2	iridium 191	NT2	lanthanum 123	NT2	lead 206

NT2	lead 207	NT2	manganese 58	NT2	mercury 204
NT2	lead 208	NT2	manganese 59	NT2	mercury 205
NT2	lead 209	NT2	manganese 60	NT2	mercury 206
NT2	lead 210	NT2	manganese 61	NT2	mercury 207
NT2	lead 211	NT2	manganese 62	NT2	mercury 208
NT2	lead 212	NT2	manganese 63	NT2	mercury 209
NT2	lead 213	NT2	manganese 64	NT2	mercury 210
NT2	lead 214	NT2	manganese 65	NT2	mercury 211
NT2	lead 215	NT2	manganese 66	NT2	mercury 212
NT2	lead 216	NT2	manganese 67	NT1	molybdenum isotopes
NT1	lithium isotopes	NT2	manganese 68	NT2	molybdenum 100
NT2	lithium 10	NT2	manganese 69	NT2	molybdenum 101
NT2	lithium 11	NT2	manganese 70	NT2	molybdenum 102
NT2	lithium 12	NT1	meitnerium isotopes	NT2	molybdenum 103
NT2	lithium 13	NT2	meitnerium 265	NT2	molybdenum 104
NT2	lithium 3	NT2	meitnerium 266	NT2	molybdenum 105
NT2	lithium 4	NT2	meitnerium 267	NT2	molybdenum 106
NT2	lithium 5	NT2	meitnerium 268	NT2	molybdenum 107
NT2	lithium 6	NT2	meitnerium 270	NT2	molybdenum 108
NT2	lithium 7	NT2	meitnerium 271	NT2	molybdenum 109
NT2	lithium 8	NT2	meitnerium 272	NT2	molybdenum 110
NT2	lithium 9	NT2	meitnerium 273	NT2	molybdenum 111
NT1	livermorium isotopes	NT2	meitnerium 274	NT2	molybdenum 112
NT2	livermorium 290	NT2	meitnerium 275	NT2	molybdenum 113
NT2	livermorium 291	NT2	meitnerium 276	NT2	molybdenum 114
NT2	livermorium 292	NT2	meitnerium 279	NT2	molybdenum 115
NT2	livermorium 293	NT1	mendelevium isotopes	NT2	molybdenum 83
NT1	lutetium isotopes	NT2	mendelevium 245	NT2	molybdenum 84
NT2	lutetium 150	NT2	mendelevium 246	NT2	molybdenum 85
NT2	lutetium 151	NT2	mendelevium 247	NT2	molybdenum 86
NT2	lutetium 152	NT2	mendelevium 248	NT2	molybdenum 87
NT2	lutetium 153	NT2	mendelevium 249	NT2	molybdenum 88
NT2	lutetium 154	NT2	mendelevium 250	NT2	molybdenum 89
NT2	lutetium 155	NT2	mendelevium 251	NT2	molybdenum 90
NT2	lutetium 156	NT2	mendelevium 252	NT2	molybdenum 91
NT2	lutetium 157	NT2	mendelevium 253	NT2	molybdenum 92
NT2	lutetium 158	NT2	mendelevium 254	NT2	molybdenum 93
NT2	lutetium 159	NT2	mendelevium 255	NT2	molybdenum 94
NT2	lutetium 160	NT2	mendelevium 256	NT2	molybdenum 95
NT2	lutetium 161	NT2	mendelevium 257	NT2	molybdenum 96
NT2	lutetium 162	NT2	mendelevium 258	NT2	molybdenum 97
NT2	lutetium 163	NT2	mendelevium 259	NT2	molybdenum 98
NT2	lutetium 164	NT2	mendelevium 260	NT2	molybdenum 99
NT2	lutetium 165	NT2	mendelevium 261	NT1	moscovium isotopes
NT2	lutetium 166	NT2	mendelevium 262	NT2	moscovium 287
NT2	lutetium 167	NT1	mercury isotopes	NT2	moscovium 288
NT2	lutetium 168	NT2	mercury 171	NT1	neodymium isotopes
NT2	lutetium 169	NT2	mercury 172	NT2	neodymium 124
NT2	lutetium 170	NT2	mercury 173	NT2	neodymium 125
NT2	lutetium 171	NT2	mercury 174	NT2	neodymium 126
NT2	lutetium 172	NT2	mercury 175	NT2	neodymium 127
NT2	lutetium 173	NT2	mercury 176	NT2	neodymium 128
NT2	lutetium 174	NT2	mercury 177	NT2	neodymium 129
NT2	lutetium 175	NT2	mercury 178	NT2	neodymium 130
NT2	lutetium 176	NT2	mercury 179	NT2	neodymium 131
NT2	lutetium 177	NT2	mercury 180	NT2	neodymium 132
NT2	lutetium 178	NT2	mercury 181	NT2	neodymium 133
NT2	lutetium 179	NT2	mercury 182	NT2	neodymium 134
NT2	lutetium 180	NT2	mercury 183	NT2	neodymium 135
NT2	lutetium 181	NT2	mercury 184	NT2	neodymium 136
NT2	lutetium 182	NT2	mercury 185	NT2	neodymium 137
NT2	lutetium 183	NT2	mercury 186	NT2	neodymium 138
NT2	lutetium 184	NT2	mercury 187	NT2	neodymium 139
NT2	lutetium 187	NT2	mercury 188	NT2	neodymium 140
NT1	manganese isotopes	NT2	mercury 189	NT2	neodymium 141
NT2	manganese 44	NT2	mercury 190	NT2	neodymium 142
NT2	manganese 45	NT2	mercury 191	NT2	neodymium 143
NT2	manganese 46	NT2	mercury 192	NT2	neodymium 144
NT2	manganese 47	NT2	mercury 193	NT2	neodymium 145
NT2	manganese 48	NT2	mercury 194	NT2	neodymium 146
NT2	manganese 49	NT2	mercury 195	NT2	neodymium 147
NT2	manganese 50	NT2	mercury 196	NT2	neodymium 148
NT2	manganese 51	NT2	mercury 197	NT2	neodymium 149
NT2	manganese 52	NT2	mercury 198	NT2	neodymium 150
NT2	manganese 53	NT2	mercury 199	NT2	neodymium 151
NT2	manganese 54	NT2	mercury 200	NT2	neodymium 152
NT2	manganese 55	NT2	mercury 201	NT2	neodymium 153
NT2	manganese 56	NT2	mercury 202	NT2	neodymium 154
NT2	manganese 57	NT2	mercury 203	NT2	neodymium 155

NT2	neodymium 156	NT1	nihonium isotopes	NT2	osmium 166
NT2	neodymium 157	NT2	nihonium 278	NT2	osmium 167
NT2	neodymium 158	NT2	nihonium 283	NT2	osmium 168
NT2	neodymium 159	NT2	nihonium 284	NT2	osmium 169
NT2	neodymium 160	NT1	niobium isotopes	NT2	osmium 170
NT2	neodymium 161	NT2	niobium 100	NT2	osmium 171
NT1	neon isotopes	NT2	niobium 101	NT2	osmium 172
NT2	neon 16	NT2	niobium 102	NT2	osmium 173
NT2	neon 17	NT2	niobium 103	NT2	osmium 174
NT2	neon 18	NT2	niobium 104	NT2	osmium 175
NT2	neon 19	NT2	niobium 105	NT2	osmium 176
NT2	neon 20	NT2	niobium 106	NT2	osmium 177
NT2	neon 21	NT2	niobium 107	NT2	osmium 178
NT2	neon 22	NT2	niobium 108	NT2	osmium 179
NT2	neon 23	NT2	niobium 109	NT2	osmium 180
NT2	neon 24	NT2	niobium 110	NT2	osmium 181
NT2	neon 25	NT2	niobium 111	NT2	osmium 182
NT2	neon 26	NT2	niobium 112	NT2	osmium 183
NT2	neon 27	NT2	niobium 113	NT2	osmium 184
NT2	neon 28	NT2	niobium 81	NT2	osmium 185
NT2	neon 29	NT2	niobium 82	NT2	osmium 186
NT2	neon 30	NT2	niobium 83	NT2	osmium 187
NT2	neon 31	NT2	niobium 84	NT2	osmium 188
NT2	neon 32	NT2	niobium 85	NT2	osmium 189
NT2	neon 33	NT2	niobium 86	NT2	osmium 190
NT2	neon 34	NT2	niobium 87	NT2	osmium 191
NT1	neptunium isotopes	NT2	niobium 88	NT2	osmium 192
NT2	neptunium 225	NT2	niobium 89	NT2	osmium 193
NT2	neptunium 226	NT2	niobium 90	NT2	osmium 194
NT2	neptunium 227	NT2	niobium 91	NT2	osmium 195
NT2	neptunium 228	NT2	niobium 92	NT2	osmium 196
NT2	neptunium 229	NT2	niobium 93	NT2	osmium 197
NT2	neptunium 230	NT2	niobium 94	NT2	osmium 199
NT2	neptunium 231	NT2	niobium 95	NT2	osmium 200
NT2	neptunium 232	NT2	niobium 96	NT1	oxygen isotopes
NT2	neptunium 233	NT2	niobium 97	NT2	oxygen 12
NT2	neptunium 234	NT2	niobium 98	NT2	oxygen 13
NT2	neptunium 235	NT2	niobium 99	NT2	oxygen 14
NT2	neptunium 236	NT1	nitrogen isotopes	NT2	oxygen 15
NT2	neptunium 237	NT2	nitrogen 10	NT2	oxygen 16
NT2	neptunium 238	NT2	nitrogen 11	NT2	oxygen 17
NT2	neptunium 239	NT2	nitrogen 12	NT2	oxygen 18
NT2	neptunium 240	NT2	nitrogen 13	NT2	oxygen 19
NT2	neptunium 241	NT2	nitrogen 14	NT2	oxygen 20
NT2	neptunium 242	NT2	nitrogen 15	NT2	oxygen 21
NT2	neptunium 243	NT2	nitrogen 16	NT2	oxygen 22
NT2	neptunium 244	NT2	nitrogen 17	NT2	oxygen 23
NT1	nickel isotopes	NT2	nitrogen 18	NT2	oxygen 24
NT2	nickel 48	NT2	nitrogen 19	NT2	oxygen 25
NT2	nickel 49	NT2	nitrogen 20	NT2	oxygen 26
NT2	nickel 50	NT2	nitrogen 21	NT2	oxygen 27
NT2	nickel 51	NT2	nitrogen 22	NT2	oxygen 28
NT2	nickel 52	NT2	nitrogen 23	NT1	palladium isotopes
NT2	nickel 53	NT2	nitrogen 24	NT2	palladium 100
NT2	nickel 54	NT2	nitrogen 25	NT2	palladium 101
NT2	nickel 55	NT1	nobelium isotopes	NT2	palladium 102
NT2	nickel 56	NT2	nobelium 248	NT2	palladium 103
NT2	nickel 57	NT2	nobelium 250	NT2	palladium 104
NT2	nickel 58	NT2	nobelium 251	NT2	palladium 105
NT2	nickel 59	NT2	nobelium 252	NT2	palladium 106
NT2	nickel 60	NT2	nobelium 253	NT2	palladium 107
NT2	nickel 61	NT2	nobelium 254	NT2	palladium 108
NT2	nickel 62	NT2	nobelium 255	NT2	palladium 109
NT2	nickel 63	NT2	nobelium 256	NT2	palladium 110
NT2	nickel 64	NT2	nobelium 257	NT2	palladium 111
NT2	nickel 65	NT2	nobelium 258	NT2	palladium 112
NT2	nickel 66	NT2	nobelium 259	NT2	palladium 113
NT2	nickel 67	NT2	nobelium 260	NT2	palladium 114
NT2	nickel 68	NT2	nobelium 261	NT2	palladium 115
NT2	nickel 69	NT2	nobelium 262	NT2	palladium 116
NT2	nickel 70	NT2	nobelium 263	NT2	palladium 117
NT2	nickel 71	NT2	nobelium 264	NT2	palladium 118
NT2	nickel 72	NT1	oganesson isotopes	NT2	palladium 119
NT2	nickel 73	NT1	osmium isotopes	NT2	palladium 120
NT2	nickel 75	NT2	osmium 161	NT2	palladium 121
NT2	nickel 76	NT2	osmium 162	NT2	palladium 122
NT2	nickel 77	NT2	osmium 163	NT2	palladium 123
NT2	nickel 78	NT2	osmium 164	NT2	palladium 124
NT2	nickel 80	NT2	osmium 165	NT2	palladium 91

NT2	palladium 92	NT2	plutonium 229	NT2	potassium 53
NT2	palladium 93	NT2	plutonium 230	NT2	potassium 54
NT2	palladium 94	NT2	plutonium 231	NT2	potassium 55
NT2	palladium 95	NT2	plutonium 232	NT2	potassium 56
NT2	palladium 96	NT2	plutonium 233	NT1	praseodymium isotopes
NT2	palladium 97	NT2	plutonium 234	NT2	praseodymium 121
NT2	palladium 98	NT2	plutonium 235	NT2	praseodymium 122
NT2	palladium 99	NT2	plutonium 236	NT2	praseodymium 123
NT1	phosphorus isotopes	NT2	plutonium 237	NT2	praseodymium 124
NT2	phosphorus 21	NT2	plutonium 238	NT2	praseodymium 125
NT2	phosphorus 24	NT2	plutonium 239	NT2	praseodymium 126
NT2	phosphorus 25	NT2	plutonium 240	NT2	praseodymium 127
NT2	phosphorus 26	NT2	plutonium 241	NT2	praseodymium 128
NT2	phosphorus 27	NT2	plutonium 242	NT2	praseodymium 129
NT2	phosphorus 28	NT2	plutonium 243	NT2	praseodymium 130
NT2	phosphorus 29	NT2	plutonium 244	NT2	praseodymium 131
NT2	phosphorus 30	NT2	plutonium 245	NT2	praseodymium 132
NT2	phosphorus 31	NT2	plutonium 246	NT2	praseodymium 133
NT2	phosphorus 32	NT2	plutonium 247	NT2	praseodymium 134
NT2	phosphorus 33	NT2	plutonium 248	NT2	praseodymium 135
NT2	phosphorus 34	NT2	plutonium 250	NT2	praseodymium 136
NT2	phosphorus 35	NT1	polonium isotopes	NT2	praseodymium 137
NT2	phosphorus 36	NT2	polonium 186	NT2	praseodymium 138
NT2	phosphorus 37	NT2	polonium 187	NT2	praseodymium 139
NT2	phosphorus 38	NT2	polonium 188	NT2	praseodymium 140
NT2	phosphorus 39	NT2	polonium 189	NT2	praseodymium 141
NT2	phosphorus 40	NT2	polonium 190	NT2	praseodymium 142
NT2	phosphorus 41	NT2	polonium 191	NT2	praseodymium 143
NT2	phosphorus 42	NT2	polonium 192	NT2	praseodymium 144
NT2	phosphorus 43	NT2	polonium 193	NT2	praseodymium 145
NT2	phosphorus 44	NT2	polonium 194	NT2	praseodymium 146
NT2	phosphorus 45	NT2	polonium 195	NT2	praseodymium 147
NT2	phosphorus 46	NT2	polonium 196	NT2	praseodymium 148
NT1	platinum isotopes	NT2	polonium 197	NT2	praseodymium 149
NT2	platinum 166	NT2	polonium 198	NT2	praseodymium 150
NT2	platinum 167	NT2	polonium 199	NT2	praseodymium 151
NT2	platinum 168	NT2	polonium 200	NT2	praseodymium 152
NT2	platinum 169	NT2	polonium 201	NT2	praseodymium 153
NT2	platinum 170	NT2	polonium 202	NT2	praseodymium 154
NT2	platinum 171	NT2	polonium 203	NT2	praseodymium 155
NT2	platinum 172	NT2	polonium 204	NT2	praseodymium 156
NT2	platinum 173	NT2	polonium 205	NT2	praseodymium 157
NT2	platinum 174	NT2	polonium 206	NT2	praseodymium 158
NT2	platinum 175	NT2	polonium 207	NT2	praseodymium 159
NT2	platinum 176	NT2	polonium 208	NT1	promethium isotopes
NT2	platinum 177	NT2	polonium 209	NT2	promethium 126
NT2	platinum 178	NT2	polonium 210	NT2	promethium 127
NT2	platinum 179	NT2	polonium 211	NT2	promethium 128
NT2	platinum 180	NT2	polonium 212	NT2	promethium 129
NT2	platinum 181	NT2	polonium 213	NT2	promethium 130
NT2	platinum 182	NT2	polonium 214	NT2	promethium 131
NT2	platinum 183	NT2	polonium 215	NT2	promethium 132
NT2	platinum 184	NT2	polonium 216	NT2	promethium 133
NT2	platinum 185	NT2	polonium 217	NT2	promethium 134
NT2	platinum 186	NT2	polonium 218	NT2	promethium 135
NT2	platinum 187	NT2	polonium 219	NT2	promethium 136
NT2	platinum 188	NT2	polonium 220	NT2	promethium 137
NT2	platinum 189	NT1	potassium isotopes	NT2	promethium 138
NT2	platinum 190	NT2	potassium 32	NT2	promethium 139
NT2	platinum 191	NT2	potassium 33	NT2	promethium 140
NT2	platinum 192	NT2	potassium 34	NT2	promethium 141
NT2	platinum 193	NT2	potassium 35	NT2	promethium 142
NT2	platinum 194	NT2	potassium 36	NT2	promethium 143
NT2	platinum 195	NT2	potassium 37	NT2	promethium 144
NT2	platinum 196	NT2	potassium 38	NT2	promethium 145
NT2	platinum 197	NT2	potassium 39	NT2	promethium 146
NT2	platinum 198	NT2	potassium 40	NT2	promethium 147
NT2	platinum 199	NT2	potassium 41	NT2	promethium 148
NT2	platinum 200	NT2	potassium 42	NT2	promethium 149
NT2	platinum 201	NT2	potassium 43	NT2	promethium 150
NT2	platinum 202	NT2	potassium 44	NT2	promethium 151
NT2	platinum 203	NT2	potassium 45	NT2	promethium 152
NT2	platinum 204	NT2	potassium 46	NT2	promethium 153
NT2	platinum 205	NT2	potassium 47	NT2	promethium 154
NT2	platinum 206	NT2	potassium 48	NT2	promethium 155
NT2	platinum 207	NT2	potassium 49	NT2	promethium 156
NT2	platinum 208	NT2	potassium 50	NT2	promethium 157
NT1	plutonium isotopes	NT2	potassium 51	NT2	promethium 158
NT2	plutonium 228	NT2	potassium 52	NT2	promethium 159

NT2	promethium 160	NT3	astatine 204	NT3	curium 237
NT2	promethium 161	NT3	astatine 205	NT3	curium 238
NT2	promethium 162	NT3	astatine 206	NT3	curium 240
NT2	promethium 163	NT3	astatine 207	NT3	curium 241
NT1	protactinium isotopes	NT3	astatine 208	NT3	curium 242
NT2	protactinium 212	NT3	astatine 209	NT3	curium 243
NT2	protactinium 213	NT3	astatine 210	NT3	curium 244
NT2	protactinium 214	NT3	astatine 211	NT3	curium 245
NT2	protactinium 215	NT3	astatine 212	NT3	curium 246
NT2	protactinium 216	NT3	astatine 213	NT3	curium 247
NT2	protactinium 217	NT3	astatine 214	NT3	curium 248
NT2	protactinium 218	NT3	astatine 215	NT3	curium 250
NT2	protactinium 219	NT3	astatine 216	NT3	darmstadtium 267
NT2	protactinium 220	NT3	astatine 217	NT3	darmstadtium 269
NT2	protactinium 221	NT3	astatine 218	NT3	darmstadtium 270
NT2	protactinium 222	NT3	astatine 219	NT3	darmstadtium 271
NT2	protactinium 223	NT3	astatine 220	NT3	darmstadtium 273
NT2	protactinium 224	NT3	berkelium 235	NT3	darmstadtium 279
NT2	protactinium 225	NT3	berkelium 243	NT3	dubnium 255
NT2	protactinium 226	NT3	berkelium 244	NT3	dubnium 256
NT2	protactinium 227	NT3	berkelium 245	NT3	dubnium 257
NT2	protactinium 228	NT3	berkelium 247	NT3	dubnium 258
NT2	protactinium 229	NT3	berkelium 249	NT3	dubnium 260
NT2	protactinium 230	NT3	beryllium 8	NT3	dubnium 261
NT2	protactinium 231	NT3	bismuth 184	NT3	dubnium 262
NT2	protactinium 232	NT3	bismuth 185	NT3	dubnium 263
NT2	protactinium 233	NT3	bismuth 186	NT3	dysprosium 150
NT2	protactinium 234	NT3	bismuth 187	NT3	dysprosium 151
NT2	protactinium 235	NT3	bismuth 188	NT3	dysprosium 152
NT2	protactinium 236	NT3	bismuth 189	NT3	dysprosium 153
NT2	protactinium 237	NT3	bismuth 190	NT3	dysprosium 154
NT2	protactinium 238	NT3	bismuth 191	NT3	einsteinium 241
NT2	protactinium 239	NT3	bismuth 192	NT3	einsteinium 242
NT2	protactinium 240	NT3	bismuth 193	NT3	einsteinium 243
NT1	radioisotopes	NT3	bismuth 194	NT3	einsteinium 244
NT2	alpha decay radioisotopes	NT3	bismuth 195	NT3	einsteinium 245
NT3	actinium 206	NT3	bismuth 196	NT3	einsteinium 246
NT3	actinium 207	NT3	bismuth 197	NT3	einsteinium 247
NT3	actinium 208	NT3	bismuth 199	NT3	einsteinium 248
NT3	actinium 209	NT3	bismuth 201	NT3	einsteinium 249
NT3	actinium 210	NT3	bismuth 203	NT3	einsteinium 251
NT3	actinium 211	NT3	bismuth 210	NT3	einsteinium 252
NT3	actinium 212	NT3	bismuth 211	NT3	einsteinium 253
NT3	actinium 213	NT3	bismuth 212	NT3	einsteinium 254
NT3	actinium 214	NT3	bismuth 213	NT3	einsteinium 255
NT3	actinium 215	NT3	bismuth 214	NT3	erbium 152
NT3	actinium 216	NT3	bohrium 260	NT3	erbium 153
NT3	actinium 217	NT3	bohrium 261	NT3	erbium 154
NT3	actinium 218	NT3	bohrium 262	NT3	erbium 155
NT3	actinium 219	NT3	bohrium 264	NT3	europium 147
NT3	actinium 220	NT3	bohrium 265	NT3	europium 148
NT3	actinium 221	NT3	bohrium 266	NT3	fermium 243
NT3	actinium 222	NT3	bohrium 267	NT3	fermium 245
NT3	actinium 223	NT3	bohrium 271	NT3	fermium 246
NT3	actinium 224	NT3	bohrium 272	NT3	fermium 247
NT3	actinium 225	NT3	boron 9	NT3	fermium 248
NT3	actinium 226	NT3	californium 237	NT3	fermium 249
NT3	actinium 227	NT3	californium 239	NT3	fermium 250
NT3	americium 231	NT3	californium 240	NT3	fermium 251
NT3	americium 232	NT3	californium 241	NT3	fermium 252
NT3	americium 237	NT3	californium 242	NT3	fermium 253
NT3	americium 238	NT3	californium 243	NT3	fermium 254
NT3	americium 239	NT3	californium 244	NT3	fermium 255
NT3	americium 240	NT3	californium 245	NT3	fermium 256
NT3	americium 241	NT3	californium 246	NT3	fermium 257
NT3	americium 242	NT3	californium 247	NT3	flerovium 285
NT3	americium 243	NT3	californium 248	NT3	flerovium 286
NT3	astatine 191	NT3	californium 249	NT3	flerovium 287
NT3	astatine 192	NT3	californium 250	NT3	flerovium 288
NT3	astatine 193	NT3	californium 251	NT3	flerovium 289
NT3	astatine 194	NT3	californium 252	NT3	francium 199
NT3	astatine 196	NT3	californium 253	NT3	francium 200
NT3	astatine 197	NT3	californium 254	NT3	francium 201
NT3	astatine 198	NT3	copernicium 277	NT3	francium 202
NT3	astatine 199	NT3	copernicium 285	NT3	francium 203
NT3	astatine 200	NT3	curium 233	NT3	francium 204
NT3	astatine 201	NT3	curium 234	NT3	francium 205
NT3	astatine 202	NT3	curium 235	NT3	francium 206
NT3	astatine 203	NT3	curium 236	NT3	francium 207

NT3	francium 208	NT3	lawrencium 257	NT3	nihonium 278
NT3	francium 209	NT3	lawrencium 258	NT3	nihonium 283
NT3	francium 210	NT3	lawrencium 259	NT3	nihonium 284
NT3	francium 211	NT3	lawrencium 260	NT3	nobelium 251
NT3	francium 212	NT3	lawrencium 264	NT3	nobelium 252
NT3	francium 213	NT3	lawrencium 265	NT3	nobelium 253
NT3	francium 214	NT3	lawrencium 266	NT3	nobelium 254
NT3	francium 215	NT3	lead 178	NT3	nobelium 255
NT3	francium 216	NT3	lead 180	NT3	nobelium 256
NT3	francium 217	NT3	lead 181	NT3	nobelium 257
NT3	francium 218	NT3	lead 182	NT3	nobelium 259
NT3	francium 219	NT3	lead 183	NT3	nobelium 260
NT3	francium 220	NT3	lead 184	NT3	oganesson 294
NT3	francium 221	NT3	lead 185	NT3	osmium 161
NT3	francium 222	NT3	lead 186	NT3	osmium 162
NT3	francium 223	NT3	lead 187	NT3	osmium 163
NT3	gadolinium 148	NT3	lead 188	NT3	osmium 164
NT3	gadolinium 149	NT3	lead 189	NT3	osmium 165
NT3	gadolinium 150	NT3	lead 190	NT3	osmium 166
NT3	gadolinium 151	NT3	lead 191	NT3	osmium 167
NT3	gadolinium 152	NT3	lead 192	NT3	osmium 168
NT3	gold 171	NT3	lead 210	NT3	osmium 169
NT3	gold 172	NT3	lithium 5	NT3	osmium 170
NT3	gold 173	NT3	livermorium 290	NT3	osmium 171
NT3	gold 174	NT3	livermorium 291	NT3	osmium 172
NT3	gold 175	NT3	livermorium 292	NT3	osmium 173
NT3	gold 176	NT3	livermorium 293	NT3	osmium 174
NT3	gold 177	NT3	lutetium 155	NT3	osmium 186
NT3	gold 178	NT3	lutetium 156	NT3	platinum 166
NT3	gold 179	NT3	lutetium 157	NT3	platinum 167
NT3	gold 181	NT3	lutetium 158	NT3	platinum 168
NT3	gold 183	NT3	lutetium 159	NT3	platinum 169
NT3	gold 184	NT3	meitnerium 266	NT3	platinum 170
NT3	gold 185	NT3	meitnerium 268	NT3	platinum 171
NT3	hafnium 156	NT3	meitnerium 270	NT3	platinum 172
NT3	hafnium 157	NT3	meitnerium 275	NT3	platinum 173
NT3	hafnium 158	NT3	meitnerium 276	NT3	platinum 174
NT3	hafnium 159	NT3	mendelevium 245	NT3	platinum 175
NT3	hafnium 160	NT3	mendelevium 246	NT3	platinum 176
NT3	hafnium 161	NT3	mendelevium 247	NT3	platinum 177
NT3	hafnium 162	NT3	mendelevium 248	NT3	platinum 178
NT3	hafnium 174	NT3	mendelevium 249	NT3	platinum 179
NT3	hassium 263	NT3	mendelevium 250	NT3	platinum 180
NT3	hassium 264	NT3	mendelevium 251	NT3	platinum 181
NT3	hassium 265	NT3	mendelevium 255	NT3	platinum 182
NT3	hassium 266	NT3	mendelevium 256	NT3	platinum 183
NT3	hassium 267	NT3	mendelevium 257	NT3	platinum 184
NT3	hassium 269	NT3	mendelevium 258	NT3	platinum 185
NT3	hassium 270	NT3	mendelevium 259	NT3	platinum 186
NT3	hassium 271	NT3	mercury 171	NT3	platinum 188
NT3	hassium 275	NT3	mercury 172	NT3	platinum 190
NT3	helium 5	NT3	mercury 173	NT3	plutonium 228
NT3	holmium 151	NT3	mercury 174	NT3	plutonium 229
NT3	holmium 152	NT3	mercury 175	NT3	plutonium 230
NT3	holmium 153	NT3	mercury 176	NT3	plutonium 232
NT3	holmium 154	NT3	mercury 177	NT3	plutonium 233
NT3	holmium 155	NT3	mercury 178	NT3	plutonium 234
NT3	iodine 108	NT3	mercury 179	NT3	plutonium 235
NT3	iodine 111	NT3	mercury 180	NT3	plutonium 236
NT3	iridium 164	NT3	mercury 181	NT3	plutonium 237
NT3	iridium 165	NT3	mercury 182	NT3	plutonium 238
NT3	iridium 166	NT3	mercury 183	NT3	plutonium 239
NT3	iridium 167	NT3	mercury 184	NT3	plutonium 240
NT3	iridium 168	NT3	mercury 185	NT3	plutonium 241
NT3	iridium 169	NT3	mercury 186	NT3	plutonium 242
NT3	iridium 170	NT3	mercury 187	NT3	plutonium 244
NT3	iridium 171	NT3	mercury 188	NT3	polonium 186
NT3	iridium 172	NT3	moscovium 287	NT3	polonium 187
NT3	iridium 173	NT3	moscovium 288	NT3	polonium 188
NT3	iridium 174	NT3	neodymium 144	NT3	polonium 189
NT3	iridium 175	NT3	neptunium 225	NT3	polonium 190
NT3	iridium 176	NT3	neptunium 226	NT3	polonium 191
NT3	iridium 177	NT3	neptunium 227	NT3	polonium 192
NT3	lawrencium 251	NT3	neptunium 229	NT3	polonium 193
NT3	lawrencium 252	NT3	neptunium 230	NT3	polonium 194
NT3	lawrencium 253	NT3	neptunium 231	NT3	polonium 195
NT3	lawrencium 254	NT3	neptunium 233	NT3	polonium 196
NT3	lawrencium 255	NT3	neptunium 235	NT3	polonium 197
NT3	lawrencium 256	NT3	neptunium 237	NT3	polonium 198



<b>NT3</b>	polonium 199	<b>NT3</b>	radon 207	<b>NT3</b>	thallium 186
<b>NT3</b>	polonium 200	<b>NT3</b>	radon 208	<b>NT3</b>	thallium 187
<b>NT3</b>	polonium 201	<b>NT3</b>	radon 209	<b>NT3</b>	thorium 209
<b>NT3</b>	polonium 202	<b>NT3</b>	radon 210	<b>NT3</b>	thorium 210
<b>NT3</b>	polonium 203	<b>NT3</b>	radon 211	<b>NT3</b>	thorium 211
<b>NT3</b>	polonium 204	<b>NT3</b>	radon 212	<b>NT3</b>	thorium 212
<b>NT3</b>	polonium 205	<b>NT3</b>	radon 213	<b>NT3</b>	thorium 213
<b>NT3</b>	polonium 206	<b>NT3</b>	radon 214	<b>NT3</b>	thorium 214
<b>NT3</b>	polonium 207	<b>NT3</b>	radon 215	<b>NT3</b>	thorium 215
<b>NT3</b>	polonium 208	<b>NT3</b>	radon 216	<b>NT3</b>	thorium 216
<b>NT3</b>	polonium 209	<b>NT3</b>	radon 217	<b>NT3</b>	thorium 217
<b>NT3</b>	polonium 210	<b>NT3</b>	radon 218	<b>NT3</b>	thorium 218
<b>NT3</b>	polonium 211	<b>NT3</b>	radon 219	<b>NT3</b>	thorium 219
<b>NT3</b>	polonium 212	<b>NT3</b>	radon 220	<b>NT3</b>	thorium 220
<b>NT3</b>	polonium 213	<b>NT3</b>	radon 221	<b>NT3</b>	thorium 221
<b>NT3</b>	polonium 214	<b>NT3</b>	radon 222	<b>NT3</b>	thorium 222
<b>NT3</b>	polonium 215	<b>NT3</b>	rhenium 160	<b>NT3</b>	thorium 223
<b>NT3</b>	polonium 216	<b>NT3</b>	rhenium 161	<b>NT3</b>	thorium 224
<b>NT3</b>	polonium 217	<b>NT3</b>	rhenium 162	<b>NT3</b>	thorium 225
<b>NT3</b>	polonium 218	<b>NT3</b>	rhenium 163	<b>NT3</b>	thorium 226
<b>NT3</b>	promethium 145	<b>NT3</b>	rhenium 164	<b>NT3</b>	thorium 227
<b>NT3</b>	protactinium 212	<b>NT3</b>	rhenium 165	<b>NT3</b>	thorium 228
<b>NT3</b>	protactinium 213	<b>NT3</b>	rhenium 166	<b>NT3</b>	thorium 229
<b>NT3</b>	protactinium 214	<b>NT3</b>	rhenium 167	<b>NT3</b>	thorium 230
<b>NT3</b>	protactinium 215	<b>NT3</b>	rhenium 168	<b>NT3</b>	thorium 232
<b>NT3</b>	protactinium 216	<b>NT3</b>	rhenium 169	<b>NT3</b>	thulium 153
<b>NT3</b>	protactinium 217	<b>NT3</b>	roentgenium 272	<b>NT3</b>	thulium 154
<b>NT3</b>	protactinium 218	<b>NT3</b>	roentgenium 273	<b>NT3</b>	thulium 155
<b>NT3</b>	protactinium 219	<b>NT3</b>	roentgenium 274	<b>NT3</b>	thulium 156
<b>NT3</b>	protactinium 220	<b>NT3</b>	roentgenium 279	<b>NT3</b>	thulium 157
<b>NT3</b>	protactinium 221	<b>NT3</b>	roentgenium 280	<b>NT3</b>	tungsten 158
<b>NT3</b>	protactinium 222	<b>NT3</b>	rutherfordium 253	<b>NT3</b>	tungsten 159
<b>NT3</b>	protactinium 223	<b>NT3</b>	rutherfordium 254	<b>NT3</b>	tungsten 160
<b>NT3</b>	protactinium 224	<b>NT3</b>	rutherfordium 255	<b>NT3</b>	tungsten 161
<b>NT3</b>	protactinium 225	<b>NT3</b>	rutherfordium 256	<b>NT3</b>	tungsten 162
<b>NT3</b>	protactinium 226	<b>NT3</b>	rutherfordium 257	<b>NT3</b>	tungsten 163
<b>NT3</b>	protactinium 227	<b>NT3</b>	rutherfordium 258	<b>NT3</b>	tungsten 164
<b>NT3</b>	protactinium 228	<b>NT3</b>	rutherfordium 259	<b>NT3</b>	tungsten 165
<b>NT3</b>	protactinium 229	<b>NT3</b>	rutherfordium 261	<b>NT3</b>	tungsten 166
<b>NT3</b>	protactinium 230	<b>NT3</b>	samarium 146	<b>NT3</b>	uranium 217
<b>NT3</b>	protactinium 231	<b>NT3</b>	samarium 147	<b>NT3</b>	uranium 218
<b>NT3</b>	radium 201	<b>NT3</b>	samarium 148	<b>NT3</b>	uranium 219
<b>NT3</b>	radium 202	<b>NT3</b>	seaborgium 258	<b>NT3</b>	uranium 220
<b>NT3</b>	radium 203	<b>NT3</b>	seaborgium 259	<b>NT3</b>	uranium 221
<b>NT3</b>	radium 204	<b>NT3</b>	seaborgium 260	<b>NT3</b>	uranium 222
<b>NT3</b>	radium 205	<b>NT3</b>	seaborgium 261	<b>NT3</b>	uranium 223
<b>NT3</b>	radium 206	<b>NT3</b>	seaborgium 262	<b>NT3</b>	uranium 224
<b>NT3</b>	radium 207	<b>NT3</b>	seaborgium 263	<b>NT3</b>	uranium 225
<b>NT3</b>	radium 208	<b>NT3</b>	seaborgium 264	<b>NT3</b>	uranium 226
<b>NT3</b>	radium 209	<b>NT3</b>	seaborgium 265	<b>NT3</b>	uranium 227
<b>NT3</b>	radium 210	<b>NT3</b>	seaborgium 266	<b>NT3</b>	uranium 228
<b>NT3</b>	radium 211	<b>NT3</b>	seaborgium 268	<b>NT3</b>	uranium 229
<b>NT3</b>	radium 212	<b>NT3</b>	seaborgium 270	<b>NT3</b>	uranium 230
<b>NT3</b>	radium 213	<b>NT3</b>	seaborgium 271	<b>NT3</b>	uranium 231
<b>NT3</b>	radium 214	<b>NT3</b>	seaborgium 272	<b>NT3</b>	uranium 232
<b>NT3</b>	radium 215	<b>NT3</b>	tantalum 157	<b>NT3</b>	uranium 233
<b>NT3</b>	radium 216	<b>NT3</b>	tantalum 158	<b>NT3</b>	uranium 234
<b>NT3</b>	radium 217	<b>NT3</b>	tantalum 159	<b>NT3</b>	uranium 235
<b>NT3</b>	radium 218	<b>NT3</b>	tantalum 160	<b>NT3</b>	uranium 236
<b>NT3</b>	radium 219	<b>NT3</b>	tantalum 161	<b>NT3</b>	uranium 238
<b>NT3</b>	radium 220	<b>NT3</b>	tantalum 163	<b>NT3</b>	xenon 109
<b>NT3</b>	radium 221	<b>NT3</b>	tantalum 164	<b>NT3</b>	xenon 110
<b>NT3</b>	radium 222	<b>NT3</b>	tellurium 105	<b>NT3</b>	xenon 111
<b>NT3</b>	radium 223	<b>NT3</b>	tellurium 106	<b>NT3</b>	xenon 112
<b>NT3</b>	radium 224	<b>NT3</b>	tellurium 107	<b>NT3</b>	ytterbium 154
<b>NT3</b>	radium 226	<b>NT3</b>	tellurium 108	<b>NT3</b>	ytterbium 155
<b>NT3</b>	radon 193	<b>NT3</b>	tellurium 109	<b>NT3</b>	ytterbium 156
<b>NT3</b>	radon 194	<b>NT3</b>	tellurium 110	<b>NT3</b>	ytterbium 157
<b>NT3</b>	radon 195	<b>NT3</b>	terbium 149	<b>NT3</b>	ytterbium 158
<b>NT3</b>	radon 197	<b>NT3</b>	terbium 151	<b>NT2</b>	beta decay radioisotopes
<b>NT3</b>	radon 198	<b>NT3</b>	thallium 177	<b>NT3</b>	beta-minus decay radioisotopes
<b>NT3</b>	radon 199	<b>NT3</b>	thallium 178	<b>NT4</b>	actinium 226
<b>NT3</b>	radon 200	<b>NT3</b>	thallium 179	<b>NT4</b>	actinium 227
<b>NT3</b>	radon 201	<b>NT3</b>	thallium 180	<b>NT4</b>	actinium 228
<b>NT3</b>	radon 202	<b>NT3</b>	thallium 181	<b>NT4</b>	actinium 229
<b>NT3</b>	radon 203	<b>NT3</b>	thallium 182	<b>NT4</b>	actinium 230
<b>NT3</b>	radon 204	<b>NT3</b>	thallium 183	<b>NT4</b>	actinium 231
<b>NT3</b>	radon 205	<b>NT3</b>	thallium 184	<b>NT4</b>	actinium 232
<b>NT3</b>	radon 206	<b>NT3</b>	thallium 185	<b>NT4</b>	actinium 233

NT4	actinium 234	NT4	barium 145	NT4	calcium 55
NT4	actinium 235	NT4	barium 146	NT4	calcium 56
NT4	actinium 236	NT4	barium 147	NT4	calcium 57
NT4	aluminium 28	NT4	barium 148	NT4	calcium 58
NT4	aluminium 29	NT4	barium 149	NT4	calcium 60
NT4	aluminium 30	NT4	barium 150	NT4	californium 253
NT4	aluminium 31	NT4	barium 151	NT4	californium 255
NT4	aluminium 32	NT4	barium 152	NT4	carbon 14
NT4	aluminium 34	NT4	barium 153	NT4	carbon 15
NT4	aluminium 36	NT4	berkelium 248	NT4	carbon 16
NT4	aluminium 37	NT4	berkelium 249	NT4	carbon 17
NT4	aluminium 40	NT4	berkelium 250	NT4	carbon 18
NT4	aluminium 41	NT4	berkelium 251	NT4	cerium 141
NT4	aluminium 42	NT4	berkelium 252	NT4	cerium 143
NT4	americium 242	NT4	berkelium 253	NT4	cerium 144
NT4	americium 244	NT4	berkelium 254	NT4	cerium 145
NT4	americium 245	NT4	beryllium 10	NT4	cerium 146
NT4	americium 246	NT4	beryllium 11	NT4	cerium 147
NT4	americium 247	NT4	beryllium 12	NT4	cerium 148
NT4	americium 248	NT4	beryllium 14	NT4	cerium 149
NT4	americium 249	NT4	bismuth 210	NT4	cerium 150
NT4	antimony 122	NT4	bismuth 211	NT4	cerium 151
NT4	antimony 124	NT4	bismuth 212	NT4	cerium 152
NT4	antimony 125	NT4	bismuth 213	NT4	cerium 153
NT4	antimony 126	NT4	bismuth 214	NT4	cerium 154
NT4	antimony 127	NT4	bismuth 215	NT4	cerium 155
NT4	antimony 128	NT4	bismuth 216	NT4	cerium 156
NT4	antimony 129	NT4	bismuth 217	NT4	cerium 157
NT4	antimony 130	NT4	bismuth 218	NT4	cesium 130
NT4	antimony 131	NT4	boron 12	NT4	cesium 132
NT4	antimony 132	NT4	boron 13	NT4	cesium 134
NT4	antimony 133	NT4	boron 14	NT4	cesium 135
NT4	antimony 134	NT4	boron 15	NT4	cesium 136
NT4	antimony 135	NT4	boron 16	NT4	cesium 137
NT4	antimony 136	NT4	boron 17	NT4	cesium 138
NT4	antimony 137	NT4	boron 19	NT4	cesium 139
NT4	antimony 138	NT4	bromine 80	NT4	cesium 140
NT4	antimony 139	NT4	bromine 82	NT4	cesium 141
NT4	argon 39	NT4	bromine 83	NT4	cesium 142
NT4	argon 41	NT4	bromine 84	NT4	cesium 143
NT4	argon 42	NT4	bromine 85	NT4	cesium 144
NT4	argon 43	NT4	bromine 86	NT4	cesium 145
NT4	argon 44	NT4	bromine 87	NT4	cesium 146
NT4	argon 45	NT4	bromine 88	NT4	cesium 147
NT4	argon 46	NT4	bromine 89	NT4	cesium 148
NT4	argon 48	NT4	bromine 90	NT4	cesium 149
NT4	argon 52	NT4	bromine 91	NT4	cesium 150
NT4	argon 53	NT4	bromine 92	NT4	cesium 151
NT4	arsenic 74	NT4	bromine 93	NT4	chlorine 36
NT4	arsenic 76	NT4	bromine 94	NT4	chlorine 38
NT4	arsenic 77	NT4	bromine 95	NT4	chlorine 39
NT4	arsenic 78	NT4	bromine 96	NT4	chlorine 40
NT4	arsenic 79	NT4	bromine 97	NT4	chlorine 41
NT4	arsenic 80	NT4	cadmium 113	NT4	chlorine 50
NT4	arsenic 81	NT4	cadmium 115	NT4	chromium 55
NT4	arsenic 82	NT4	cadmium 117	NT4	chromium 56
NT4	arsenic 83	NT4	cadmium 118	NT4	chromium 57
NT4	arsenic 84	NT4	cadmium 119	NT4	chromium 58
NT4	arsenic 85	NT4	cadmium 120	NT4	chromium 59
NT4	arsenic 86	NT4	cadmium 121	NT4	chromium 60
NT4	arsenic 87	NT4	cadmium 122	NT4	chromium 62
NT4	arsenic 88	NT4	cadmium 123	NT4	chromium 63
NT4	arsenic 89	NT4	cadmium 124	NT4	chromium 64
NT4	arsenic 90	NT4	cadmium 125	NT4	chromium 65
NT4	arsenic 91	NT4	cadmium 126	NT4	chromium 66
NT4	arsenic 92	NT4	cadmium 127	NT4	chromium 67
NT4	astatine 217	NT4	cadmium 128	NT4	chromium 68
NT4	astatine 218	NT4	cadmium 129	NT4	cobalt 60
NT4	astatine 219	NT4	cadmium 130	NT4	cobalt 61
NT4	astatine 220	NT4	cadmium 131	NT4	cobalt 62
NT4	astatine 221	NT4	cadmium 132	NT4	cobalt 63
NT4	astatine 222	NT4	calcium 45	NT4	cobalt 64
NT4	astatine 223	NT4	calcium 47	NT4	cobalt 65
NT4	barium 139	NT4	calcium 49	NT4	cobalt 66
NT4	barium 140	NT4	calcium 50	NT4	cobalt 67
NT4	barium 141	NT4	calcium 51	NT4	cobalt 71
NT4	barium 142	NT4	calcium 52	NT4	cobalt 72
NT4	barium 143	NT4	calcium 53	NT4	cobalt 73
NT4	barium 144	NT4	calcium 54	NT4	cobalt 74

<b>NT4</b> cobalt 75	<b>NT4</b> gadolinium 163	<b>NT4</b> indium 128
<b>NT4</b> copper 64	<b>NT4</b> gadolinium 164	<b>NT4</b> indium 129
<b>NT4</b> copper 66	<b>NT4</b> gadolinium 165	<b>NT4</b> indium 130
<b>NT4</b> copper 67	<b>NT4</b> gadolinium 166	<b>NT4</b> indium 131
<b>NT4</b> copper 68	<b>NT4</b> gadolinium 168	<b>NT4</b> indium 132
<b>NT4</b> copper 69	<b>NT4</b> gallium 70	<b>NT4</b> indium 133
<b>NT4</b> copper 70	<b>NT4</b> gallium 72	<b>NT4</b> indium 134
<b>NT4</b> copper 71	<b>NT4</b> gallium 73	<b>NT4</b> indium 135
<b>NT4</b> copper 72	<b>NT4</b> gallium 74	<b>NT4</b> iodine 126
<b>NT4</b> copper 73	<b>NT4</b> gallium 75	<b>NT4</b> iodine 128
<b>NT4</b> copper 74	<b>NT4</b> gallium 76	<b>NT4</b> iodine 129
<b>NT4</b> copper 75	<b>NT4</b> gallium 77	<b>NT4</b> iodine 130
<b>NT4</b> copper 76	<b>NT4</b> gallium 78	<b>NT4</b> iodine 131
<b>NT4</b> copper 77	<b>NT4</b> gallium 79	<b>NT4</b> iodine 132
<b>NT4</b> copper 78	<b>NT4</b> gallium 80	<b>NT4</b> iodine 133
<b>NT4</b> copper 79	<b>NT4</b> gallium 81	<b>NT4</b> iodine 134
<b>NT4</b> copper 80	<b>NT4</b> gallium 82	<b>NT4</b> iodine 135
<b>NT4</b> curium 249	<b>NT4</b> gallium 83	<b>NT4</b> iodine 136
<b>NT4</b> curium 250	<b>NT4</b> gallium 84	<b>NT4</b> iodine 137
<b>NT4</b> curium 251	<b>NT4</b> gallium 85	<b>NT4</b> iodine 138
<b>NT4</b> dysprosium 165	<b>NT4</b> gallium 86	<b>NT4</b> iodine 139
<b>NT4</b> dysprosium 166	<b>NT4</b> germanium 75	<b>NT4</b> iodine 140
<b>NT4</b> dysprosium 167	<b>NT4</b> germanium 77	<b>NT4</b> iodine 141
<b>NT4</b> dysprosium 168	<b>NT4</b> germanium 78	<b>NT4</b> iodine 142
<b>NT4</b> dysprosium 169	<b>NT4</b> germanium 79	<b>NT4</b> iodine 143
<b>NT4</b> dysprosium 170	<b>NT4</b> germanium 80	<b>NT4</b> iodine 144
<b>NT4</b> dysprosium 171	<b>NT4</b> germanium 81	<b>NT4</b> iridium 192
<b>NT4</b> dysprosium 172	<b>NT4</b> germanium 82	<b>NT4</b> iridium 194
<b>NT4</b> dysprosium 173	<b>NT4</b> germanium 83	<b>NT4</b> iridium 195
<b>NT4</b> einsteinium 254	<b>NT4</b> germanium 84	<b>NT4</b> iridium 196
<b>NT4</b> einsteinium 255	<b>NT4</b> germanium 85	<b>NT4</b> iridium 197
<b>NT4</b> einsteinium 256	<b>NT4</b> germanium 86	<b>NT4</b> iridium 198
<b>NT4</b> einsteinium 257	<b>NT4</b> germanium 87	<b>NT4</b> iridium 199
<b>NT4</b> erbium 169	<b>NT4</b> germanium 88	<b>NT4</b> iridium 202
<b>NT4</b> erbium 171	<b>NT4</b> germanium 89	<b>NT4</b> iron 59
<b>NT4</b> erbium 172	<b>NT4</b> gold 196	<b>NT4</b> iron 60
<b>NT4</b> erbium 173	<b>NT4</b> gold 198	<b>NT4</b> iron 61
<b>NT4</b> erbium 174	<b>NT4</b> gold 199	<b>NT4</b> iron 62
<b>NT4</b> erbium 175	<b>NT4</b> gold 200	<b>NT4</b> iron 63
<b>NT4</b> erbium 176	<b>NT4</b> gold 201	<b>NT4</b> iron 64
<b>NT4</b> erbium 177	<b>NT4</b> gold 202	<b>NT4</b> iron 69
<b>NT4</b> europium 150	<b>NT4</b> gold 203	<b>NT4</b> iron 70
<b>NT4</b> europium 152	<b>NT4</b> gold 204	<b>NT4</b> iron 71
<b>NT4</b> europium 154	<b>NT4</b> gold 205	<b>NT4</b> iron 72
<b>NT4</b> europium 155	<b>NT4</b> hafnium 181	<b>NT4</b> krypton 100
<b>NT4</b> europium 156	<b>NT4</b> hafnium 182	<b>NT4</b> krypton 85
<b>NT4</b> europium 157	<b>NT4</b> hafnium 183	<b>NT4</b> krypton 87
<b>NT4</b> europium 158	<b>NT4</b> hafnium 184	<b>NT4</b> krypton 88
<b>NT4</b> europium 159	<b>NT4</b> hafnium 187	<b>NT4</b> krypton 89
<b>NT4</b> europium 160	<b>NT4</b> hafnium 188	<b>NT4</b> krypton 90
<b>NT4</b> europium 161	<b>NT4</b> helium 6	<b>NT4</b> krypton 91
<b>NT4</b> europium 162	<b>NT4</b> helium 7	<b>NT4</b> krypton 92
<b>NT4</b> europium 163	<b>NT4</b> helium 8	<b>NT4</b> krypton 93
<b>NT4</b> europium 164	<b>NT4</b> holmium 164	<b>NT4</b> krypton 94
<b>NT4</b> europium 165	<b>NT4</b> holmium 166	<b>NT4</b> krypton 95
<b>NT4</b> europium 166	<b>NT4</b> holmium 167	<b>NT4</b> krypton 97
<b>NT4</b> europium 167	<b>NT4</b> holmium 168	<b>NT4</b> krypton 99
<b>NT4</b> fluorine 20	<b>NT4</b> holmium 169	<b>NT4</b> lanthanum 138
<b>NT4</b> fluorine 21	<b>NT4</b> holmium 170	<b>NT4</b> lanthanum 140
<b>NT4</b> fluorine 22	<b>NT4</b> holmium 171	<b>NT4</b> lanthanum 141
<b>NT4</b> fluorine 23	<b>NT4</b> holmium 172	<b>NT4</b> lanthanum 142
<b>NT4</b> fluorine 24	<b>NT4</b> holmium 173	<b>NT4</b> lanthanum 143
<b>NT4</b> fluorine 25	<b>NT4</b> holmium 174	<b>NT4</b> lanthanum 144
<b>NT4</b> fluorine 26	<b>NT4</b> holmium 175	<b>NT4</b> lanthanum 145
<b>NT4</b> fluorine 27	<b>NT4</b> indium 112	<b>NT4</b> lanthanum 146
<b>NT4</b> francium 220	<b>NT4</b> indium 114	<b>NT4</b> lanthanum 147
<b>NT4</b> francium 222	<b>NT4</b> indium 115	<b>NT4</b> lanthanum 148
<b>NT4</b> francium 223	<b>NT4</b> indium 116	<b>NT4</b> lanthanum 149
<b>NT4</b> francium 224	<b>NT4</b> indium 117	<b>NT4</b> lanthanum 150
<b>NT4</b> francium 225	<b>NT4</b> indium 118	<b>NT4</b> lanthanum 151
<b>NT4</b> francium 226	<b>NT4</b> indium 119	<b>NT4</b> lanthanum 152
<b>NT4</b> francium 227	<b>NT4</b> indium 120	<b>NT4</b> lanthanum 153
<b>NT4</b> francium 228	<b>NT4</b> indium 121	<b>NT4</b> lanthanum 154
<b>NT4</b> francium 229	<b>NT4</b> indium 122	<b>NT4</b> lanthanum 155
<b>NT4</b> francium 230	<b>NT4</b> indium 123	<b>NT4</b> lead 209
<b>NT4</b> francium 231	<b>NT4</b> indium 124	<b>NT4</b> lead 210
<b>NT4</b> gadolinium 159	<b>NT4</b> indium 125	<b>NT4</b> lead 211
<b>NT4</b> gadolinium 161	<b>NT4</b> indium 126	<b>NT4</b> lead 212
<b>NT4</b> gadolinium 162	<b>NT4</b> indium 127	<b>NT4</b> lead 213

NT4	lead 214	NT4	neon 31	NT4	palladium 121
NT4	lithium 11	NT4	neon 33	NT4	palladium 122
NT4	lithium 13	NT4	neon 34	NT4	palladium 123
NT4	lithium 8	NT4	neptunium 236	NT4	palladium 124
NT4	lithium 9	NT4	neptunium 238	NT4	phosphorus 32
NT4	lutetium 176	NT4	neptunium 239	NT4	phosphorus 33
NT4	lutetium 177	NT4	neptunium 240	NT4	phosphorus 34
NT4	lutetium 178	NT4	neptunium 241	NT4	phosphorus 35
NT4	lutetium 179	NT4	neptunium 242	NT4	phosphorus 36
NT4	lutetium 180	NT4	neptunium 243	NT4	phosphorus 37
NT4	lutetium 181	NT4	neptunium 244	NT4	phosphorus 38
NT4	lutetium 182	NT4	neutron-rich isotopes	NT4	phosphorus 40
NT4	lutetium 183	NT4	nickel 63	NT4	phosphorus 41
NT4	lutetium 184	NT4	nickel 65	NT4	phosphorus 42
NT4	lutetium 187	NT4	nickel 66	NT4	platinum 197
NT4	magnesium 27	NT4	nickel 67	NT4	platinum 199
NT4	magnesium 28	NT4	nickel 69	NT4	platinum 200
NT4	magnesium 29	NT4	nickel 70	NT4	platinum 201
NT4	magnesium 30	NT4	nickel 71	NT4	plutonium 241
NT4	magnesium 31	NT4	nickel 72	NT4	plutonium 243
NT4	magnesium 32	NT4	nickel 73	NT4	plutonium 245
NT4	magnesium 33	NT4	nickel 74	NT4	plutonium 246
NT4	magnesium 34	NT4	nickel 75	NT4	polonium 215
NT4	magnesium 37	NT4	nickel 76	NT4	polonium 218
NT4	magnesium 38	NT4	nickel 77	NT4	polonium 219
NT4	magnesium 39	NT4	nickel 80	NT4	polonium 220
NT4	magnesium 40	NT4	niobium 100	NT4	potassium 40
NT4	manganese 56	NT4	niobium 101	NT4	potassium 42
NT4	manganese 57	NT4	niobium 102	NT4	potassium 43
NT4	manganese 58	NT4	niobium 103	NT4	potassium 44
NT4	manganese 59	NT4	niobium 104	NT4	potassium 45
NT4	manganese 60	NT4	niobium 105	NT4	potassium 46
NT4	manganese 61	NT4	niobium 106	NT4	potassium 47
NT4	manganese 62	NT4	niobium 107	NT4	potassium 48
NT4	manganese 63	NT4	niobium 108	NT4	potassium 49
NT4	manganese 66	NT4	niobium 109	NT4	potassium 50
NT4	manganese 67	NT4	niobium 110	NT4	potassium 51
NT4	manganese 68	NT4	niobium 111	NT4	potassium 52
NT4	manganese 69	NT4	niobium 112	NT4	potassium 53
NT4	manganese 70	NT4	niobium 113	NT4	potassium 54
NT4	mercury 203	NT4	niobium 94	NT4	potassium 55
NT4	mercury 205	NT4	niobium 95	NT4	potassium 56
NT4	mercury 206	NT4	niobium 96	NT4	praseodymium 142
NT4	molybdenum 101	NT4	niobium 97	NT4	praseodymium 143
NT4	molybdenum 102	NT4	niobium 98	NT4	praseodymium 144
NT4	molybdenum 103	NT4	niobium 99	NT4	praseodymium 145
NT4	molybdenum 104	NT4	nitrogen 16	NT4	praseodymium 146
NT4	molybdenum 105	NT4	nitrogen 17	NT4	praseodymium 147
NT4	molybdenum 106	NT4	nitrogen 18	NT4	praseodymium 148
NT4	molybdenum 107	NT4	nitrogen 19	NT4	praseodymium 149
NT4	molybdenum 108	NT4	nitrogen 20	NT4	praseodymium 150
NT4	molybdenum 109	NT4	nitrogen 22	NT4	praseodymium 151
NT4	molybdenum 110	NT4	nitrogen 23	NT4	praseodymium 152
NT4	molybdenum 111	NT4	osmium 191	NT4	praseodymium 153
NT4	molybdenum 112	NT4	osmium 193	NT4	praseodymium 154
NT4	molybdenum 113	NT4	osmium 194	NT4	praseodymium 155
NT4	molybdenum 114	NT4	osmium 195	NT4	praseodymium 156
NT4	molybdenum 115	NT4	osmium 196	NT4	praseodymium 157
NT4	molybdenum 99	NT4	osmium 197	NT4	praseodymium 158
NT4	neodymium 147	NT4	osmium 199	NT4	praseodymium 159
NT4	neodymium 149	NT4	osmium 200	NT4	promethium 146
NT4	neodymium 151	NT4	oxygen 19	NT4	promethium 147
NT4	neodymium 152	NT4	oxygen 20	NT4	promethium 148
NT4	neodymium 153	NT4	oxygen 21	NT4	promethium 149
NT4	neodymium 154	NT4	oxygen 22	NT4	promethium 150
NT4	neodymium 155	NT4	oxygen 23	NT4	promethium 151
NT4	neodymium 156	NT4	oxygen 24	NT4	promethium 152
NT4	neodymium 157	NT4	palladium 107	NT4	promethium 153
NT4	neodymium 158	NT4	palladium 109	NT4	promethium 154
NT4	neodymium 159	NT4	palladium 111	NT4	promethium 155
NT4	neodymium 160	NT4	palladium 112	NT4	promethium 156
NT4	neodymium 161	NT4	palladium 113	NT4	promethium 157
NT4	neon 23	NT4	palladium 114	NT4	promethium 158
NT4	neon 24	NT4	palladium 115	NT4	promethium 159
NT4	neon 25	NT4	palladium 116	NT4	promethium 160
NT4	neon 26	NT4	palladium 117	NT4	promethium 161
NT4	neon 27	NT4	palladium 118	NT4	promethium 162
NT4	neon 29	NT4	palladium 119	NT4	promethium 163
NT4	neon 30	NT4	palladium 120	NT4	protactinium 230

NT4	protactinium 232	NT4	ruthenium 112	NT4	sodium 24
NT4	protactinium 233	NT4	ruthenium 113	NT4	sodium 25
NT4	protactinium 234	NT4	ruthenium 114	NT4	sodium 26
NT4	protactinium 235	NT4	ruthenium 115	NT4	sodium 27
NT4	protactinium 236	NT4	ruthenium 116	NT4	sodium 28
NT4	protactinium 237	NT4	ruthenium 117	NT4	sodium 29
NT4	protactinium 238	NT4	ruthenium 118	NT4	sodium 30
NT4	protactinium 239	NT4	ruthenium 119	NT4	sodium 31
NT4	protactinium 240	NT4	ruthenium 120	NT4	sodium 32
NT4	radium 225	NT4	samarium 151	NT4	sodium 33
NT4	radium 227	NT4	samarium 153	NT4	sodium 34
NT4	radium 228	NT4	samarium 155	NT4	sodium 35
NT4	radium 229	NT4	samarium 156	NT4	sodium 37
NT4	radium 230	NT4	samarium 157	NT4	strontium 100
NT4	radium 231	NT4	samarium 158	NT4	strontium 101
NT4	radium 232	NT4	samarium 159	NT4	strontium 102
NT4	radon 221	NT4	samarium 160	NT4	strontium 103
NT4	radon 223	NT4	samarium 161	NT4	strontium 104
NT4	radon 224	NT4	samarium 162	NT4	strontium 105
NT4	radon 225	NT4	samarium 163	NT4	strontium 89
NT4	radon 226	NT4	samarium 164	NT4	strontium 90
NT4	radon 227	NT4	samarium 165	NT4	strontium 91
NT4	radon 228	NT4	scandium 46	NT4	strontium 92
NT4	radon 229	NT4	scandium 47	NT4	strontium 93
NT4	rhenium 186	NT4	scandium 48	NT4	strontium 94
NT4	rhenium 187	NT4	scandium 49	NT4	strontium 95
NT4	rhenium 188	NT4	scandium 50	NT4	strontium 96
NT4	rhenium 189	NT4	scandium 51	NT4	strontium 97
NT4	rhenium 190	NT4	scandium 52	NT4	strontium 98
NT4	rhenium 191	NT4	scandium 53	NT4	strontium 99
NT4	rhenium 192	NT4	scandium 56	NT4	sulfur 35
NT4	rhenium 193	NT4	scandium 57	NT4	sulfur 37
NT4	rhenium 194	NT4	scandium 58	NT4	sulfur 38
NT4	rhenium 195	NT4	scandium 59	NT4	sulfur 39
NT4	rhenium 196	NT4	scandium 60	NT4	sulfur 40
NT4	rhodium 102	NT4	scandium 61	NT4	sulfur 43
NT4	rhodium 104	NT4	selenium 79	NT4	tantalum 180
NT4	rhodium 105	NT4	selenium 81	NT4	tantalum 182
NT4	rhodium 106	NT4	selenium 83	NT4	tantalum 183
NT4	rhodium 107	NT4	selenium 84	NT4	tantalum 184
NT4	rhodium 108	NT4	selenium 85	NT4	tantalum 185
NT4	rhodium 109	NT4	selenium 86	NT4	tantalum 186
NT4	rhodium 110	NT4	selenium 87	NT4	tantalum 187
NT4	rhodium 111	NT4	selenium 88	NT4	tantalum 188
NT4	rhodium 112	NT4	selenium 89	NT4	tantalum 189
NT4	rhodium 113	NT4	selenium 91	NT4	tantalum 190
NT4	rhodium 114	NT4	silicon 31	NT4	technetium 100
NT4	rhodium 115	NT4	silicon 32	NT4	technetium 101
NT4	rhodium 116	NT4	silicon 33	NT4	technetium 102
NT4	rhodium 117	NT4	silicon 34	NT4	technetium 103
NT4	rhodium 118	NT4	silicon 35	NT4	technetium 104
NT4	rhodium 119	NT4	silicon 36	NT4	technetium 105
NT4	rhodium 120	NT4	silicon 37	NT4	technetium 106
NT4	rhodium 121	NT4	silicon 38	NT4	technetium 107
NT4	rhodium 122	NT4	silicon 39	NT4	technetium 108
NT4	rubidium 100	NT4	silicon 43	NT4	technetium 109
NT4	rubidium 84	NT4	silicon 44	NT4	technetium 110
NT4	rubidium 86	NT4	silver 108	NT4	technetium 111
NT4	rubidium 87	NT4	silver 110	NT4	technetium 112
NT4	rubidium 88	NT4	silver 111	NT4	technetium 113
NT4	rubidium 89	NT4	silver 112	NT4	technetium 114
NT4	rubidium 90	NT4	silver 113	NT4	technetium 115
NT4	rubidium 91	NT4	silver 114	NT4	technetium 116
NT4	rubidium 92	NT4	silver 115	NT4	technetium 117
NT4	rubidium 93	NT4	silver 116	NT4	technetium 118
NT4	rubidium 94	NT4	silver 117	NT4	technetium 98
NT4	rubidium 95	NT4	silver 118	NT4	technetium 99
NT4	rubidium 96	NT4	silver 119	NT4	tellurium 127
NT4	rubidium 97	NT4	silver 120	NT4	tellurium 129
NT4	rubidium 98	NT4	silver 121	NT4	tellurium 131
NT4	rubidium 99	NT4	silver 122	NT4	tellurium 132
NT4	ruthenium 103	NT4	silver 123	NT4	tellurium 133
NT4	ruthenium 105	NT4	silver 124	NT4	tellurium 134
NT4	ruthenium 106	NT4	silver 125	NT4	tellurium 135
NT4	ruthenium 107	NT4	silver 126	NT4	tellurium 136
NT4	ruthenium 108	NT4	silver 127	NT4	tellurium 137
NT4	ruthenium 109	NT4	silver 128	NT4	tellurium 138
NT4	ruthenium 110	NT4	silver 129	NT4	tellurium 139
NT4	ruthenium 111	NT4	silver 130	NT4	tellurium 140

NT4	tellurium 141	NT4	vanadium 50	NT4	zirconium 98
NT4	tellurium 142	NT4	vanadium 52	NT4	zirconium 99
NT4	terbium 156	NT4	vanadium 53	NT3	beta-plus decay radioisotopes
NT4	terbium 158	NT4	vanadium 54	NT4	aluminium 22
NT4	terbium 160	NT4	vanadium 55	NT4	aluminium 23
NT4	terbium 161	NT4	vanadium 56	NT4	aluminium 24
NT4	terbium 162	NT4	vanadium 57	NT4	aluminium 25
NT4	terbium 163	NT4	vanadium 58	NT4	aluminium 26
NT4	terbium 164	NT4	vanadium 61	NT4	americium 235
NT4	terbium 165	NT4	vanadium 62	NT4	americium 236
NT4	terbium 166	NT4	vanadium 63	NT4	antimony 104
NT4	terbium 167	NT4	vanadium 64	NT4	antimony 105
NT4	terbium 168	NT4	vanadium 65	NT4	antimony 108
NT4	terbium 169	NT4	vanadium 66	NT4	antimony 110
NT4	terbium 170	NT4	xenon 133	NT4	antimony 111
NT4	terbium 171	NT4	xenon 135	NT4	antimony 112
NT4	thallium 204	NT4	xenon 137	NT4	antimony 113
NT4	thallium 206	NT4	xenon 138	NT4	antimony 114
NT4	thallium 207	NT4	xenon 139	NT4	antimony 115
NT4	thallium 208	NT4	xenon 140	NT4	antimony 116
NT4	thallium 209	NT4	xenon 141	NT4	antimony 117
NT4	thallium 210	NT4	xenon 142	NT4	antimony 118
NT4	thallium 211	NT4	xenon 143	NT4	antimony 120
NT4	thallium 212	NT4	xenon 144	NT4	antimony 122
NT4	thorium 231	NT4	xenon 145	NT4	argon 31
NT4	thorium 233	NT4	xenon 147	NT4	argon 32
NT4	thorium 234	NT4	ytterbium 175	NT4	argon 33
NT4	thorium 235	NT4	ytterbium 177	NT4	argon 34
NT4	thorium 236	NT4	ytterbium 178	NT4	argon 35
NT4	thorium 237	NT4	ytterbium 179	NT4	arsenic 66
NT4	thulium 168	NT4	ytterbium 180	NT4	arsenic 67
NT4	thulium 170	NT4	ytterbium 181	NT4	arsenic 68
NT4	thulium 171	NT4	yttrium 100	NT4	arsenic 69
NT4	thulium 172	NT4	yttrium 101	NT4	arsenic 70
NT4	thulium 173	NT4	yttrium 102	NT4	arsenic 71
NT4	thulium 174	NT4	yttrium 103	NT4	arsenic 72
NT4	thulium 175	NT4	yttrium 104	NT4	arsenic 74
NT4	thulium 176	NT4	yttrium 105	NT4	astatine 205
NT4	thulium 177	NT4	yttrium 106	NT4	astatine 206
NT4	thulium 178	NT4	yttrium 107	NT4	barium 114
NT4	thulium 179	NT4	yttrium 108	NT4	barium 115
NT4	tin 121	NT4	yttrium 90	NT4	barium 116
NT4	tin 123	NT4	yttrium 91	NT4	barium 117
NT4	tin 125	NT4	yttrium 92	NT4	barium 118
NT4	tin 126	NT4	yttrium 93	NT4	barium 119
NT4	tin 127	NT4	yttrium 94	NT4	barium 120
NT4	tin 128	NT4	yttrium 95	NT4	barium 121
NT4	tin 129	NT4	yttrium 96	NT4	barium 122
NT4	tin 130	NT4	yttrium 97	NT4	barium 123
NT4	tin 131	NT4	yttrium 98	NT4	barium 124
NT4	tin 132	NT4	yttrium 99	NT4	barium 125
NT4	tin 133	NT4	zinc 69	NT4	barium 126
NT4	tin 134	NT4	zinc 71	NT4	barium 127
NT4	tin 135	NT4	zinc 72	NT4	barium 129
NT4	tin 136	NT4	zinc 73	NT4	berkelium 236
NT4	tin 137	NT4	zinc 74	NT4	berkelium 238
NT4	titanium 51	NT4	zinc 75	NT4	bismuth 194
NT4	titanium 52	NT4	zinc 76	NT4	bismuth 197
NT4	titanium 53	NT4	zinc 77	NT4	bismuth 200
NT4	titanium 54	NT4	zinc 78	NT4	bismuth 202
NT4	titanium 55	NT4	zinc 79	NT4	bismuth 203
NT4	titanium 56	NT4	zinc 80	NT4	bismuth 205
NT4	titanium 58	NT4	zinc 81	NT4	bismuth 206
NT4	titanium 59	NT4	zinc 82	NT4	bismuth 207
NT4	titanium 60	NT4	zinc 83	NT4	boron 8
NT4	titanium 61	NT4	zirconium 100	NT4	bromine 69
NT4	titanium 62	NT4	zirconium 101	NT4	bromine 70
NT4	titanium 63	NT4	zirconium 102	NT4	bromine 71
NT4	tritium	NT4	zirconium 103	NT4	bromine 72
NT4	tungsten 185	NT4	zirconium 104	NT4	bromine 73
NT4	tungsten 187	NT4	zirconium 105	NT4	bromine 74
NT4	tungsten 188	NT4	zirconium 106	NT4	bromine 75
NT4	tungsten 189	NT4	zirconium 107	NT4	bromine 76
NT4	tungsten 191	NT4	zirconium 108	NT4	bromine 77
NT4	uranium 237	NT4	zirconium 109	NT4	bromine 78
NT4	uranium 239	NT4	zirconium 110	NT4	bromine 80
NT4	uranium 240	NT4	zirconium 93	NT4	cadmium 100
NT4	uranium 241	NT4	zirconium 95	NT4	cadmium 101
NT4	uranium 242	NT4	zirconium 97	NT4	cadmium 102

NT4	cadmium 103	NT4	dysprosium 157	NT4	holmium 145
NT4	cadmium 104	NT4	erbium 145	NT4	holmium 146
NT4	cadmium 105	NT4	erbium 146	NT4	holmium 147
NT4	cadmium 107	NT4	erbium 147	NT4	holmium 148
NT4	cadmium 97	NT4	erbium 148	NT4	holmium 149
NT4	cadmium 98	NT4	erbium 149	NT4	holmium 150
NT4	cadmium 99	NT4	erbium 150	NT4	holmium 151
NT4	calcium 36	NT4	erbium 151	NT4	holmium 152
NT4	calcium 37	NT4	erbium 152	NT4	holmium 153
NT4	calcium 38	NT4	erbium 153	NT4	holmium 154
NT4	calcium 39	NT4	erbium 154	NT4	holmium 155
NT4	carbon 10	NT4	erbium 155	NT4	holmium 156
NT4	carbon 11	NT4	erbium 156	NT4	holmium 157
NT4	carbon 9	NT4	erbium 157	NT4	holmium 158
NT4	cerium 121	NT4	erbium 158	NT4	holmium 160
NT4	cerium 125	NT4	erbium 159	NT4	holmium 162
NT4	cerium 127	NT4	erbium 161	NT4	indium 100
NT4	cerium 128	NT4	erbium 163	NT4	indium 103
NT4	cerium 129	NT4	europium 132	NT4	indium 104
NT4	cerium 130	NT4	europium 134	NT4	indium 105
NT4	cerium 131	NT4	europium 135	NT4	indium 106
NT4	cerium 132	NT4	europium 136	NT4	indium 107
NT4	cerium 133	NT4	europium 138	NT4	indium 108
NT4	cerium 135	NT4	europium 139	NT4	indium 109
NT4	cerium 137	NT4	europium 140	NT4	indium 110
NT4	cesium 114	NT4	europium 141	NT4	indium 112
NT4	cesium 115	NT4	europium 142	NT4	indium 114
NT4	cesium 116	NT4	europium 143	NT4	iodine 110
NT4	cesium 117	NT4	europium 144	NT4	iodine 111
NT4	cesium 118	NT4	europium 145	NT4	iodine 112
NT4	cesium 119	NT4	europium 146	NT4	iodine 113
NT4	cesium 120	NT4	europium 147	NT4	iodine 114
NT4	cesium 121	NT4	europium 148	NT4	iodine 115
NT4	cesium 122	NT4	europium 150	NT4	iodine 116
NT4	cesium 123	NT4	europium 152	NT4	iodine 117
NT4	cesium 124	NT4	fluorine 17	NT4	iodine 118
NT4	cesium 125	NT4	fluorine 18	NT4	iodine 119
NT4	cesium 126	NT4	gadolinium 135	NT4	iodine 120
NT4	cesium 127	NT4	gadolinium 137	NT4	iodine 121
NT4	cesium 128	NT4	gadolinium 139	NT4	iodine 122
NT4	cesium 129	NT4	gadolinium 142	NT4	iodine 124
NT4	cesium 130	NT4	gadolinium 143	NT4	iodine 126
NT4	cesium 132	NT4	gadolinium 144	NT4	iodine 128
NT4	chlorine 31	NT4	gadolinium 145	NT4	iridium 178
NT4	chlorine 32	NT4	gadolinium 146	NT4	iridium 179
NT4	chlorine 33	NT4	gadolinium 147	NT4	iridium 180
NT4	chlorine 34	NT4	gallium 60	NT4	iridium 181
NT4	chlorine 36	NT4	gallium 62	NT4	iridium 182
NT4	chromium 42	NT4	gallium 63	NT4	iridium 183
NT4	chromium 45	NT4	gallium 64	NT4	iridium 184
NT4	chromium 46	NT4	gallium 65	NT4	iridium 185
NT4	chromium 47	NT4	gallium 66	NT4	iridium 186
NT4	chromium 49	NT4	gallium 68	NT4	iridium 188
NT4	cobalt 52	NT4	germanium 61	NT4	iridium 190
NT4	cobalt 53	NT4	germanium 63	NT4	iron 45
NT4	cobalt 54	NT4	germanium 64	NT4	iron 46
NT4	cobalt 55	NT4	germanium 65	NT4	iron 49
NT4	cobalt 56	NT4	germanium 66	NT4	iron 51
NT4	cobalt 58	NT4	germanium 67	NT4	iron 52
NT4	copper 56	NT4	germanium 69	NT4	iron 53
NT4	copper 57	NT4	gold 182	NT4	krypton 69
NT4	copper 58	NT4	gold 184	NT4	krypton 71
NT4	copper 59	NT4	gold 185	NT4	krypton 72
NT4	copper 60	NT4	gold 186	NT4	krypton 73
NT4	copper 61	NT4	gold 187	NT4	krypton 74
NT4	copper 62	NT4	gold 188	NT4	krypton 75
NT4	copper 64	NT4	gold 189	NT4	krypton 77
NT4	curium 232	NT4	gold 190	NT4	krypton 79
NT4	dysprosium 140	NT4	gold 192	NT4	lanthanum 121
NT4	dysprosium 145	NT4	gold 194	NT4	lanthanum 125
NT4	dysprosium 146	NT4	gold 196	NT4	lanthanum 126
NT4	dysprosium 147	NT4	hafnium 154	NT4	lanthanum 127
NT4	dysprosium 148	NT4	hafnium 155	NT4	lanthanum 128
NT4	dysprosium 149	NT4	hafnium 162	NT4	lanthanum 129
NT4	dysprosium 150	NT4	hafnium 163	NT4	lanthanum 130
NT4	dysprosium 151	NT4	hafnium 166	NT4	lanthanum 131
NT4	dysprosium 152	NT4	hafnium 167	NT4	lanthanum 132
NT4	dysprosium 153	NT4	hafnium 168	NT4	lanthanum 133
NT4	dysprosium 155	NT4	hafnium 169	NT4	lanthanum 134

NT4	lanthanum 135	NT4	niobium 85	NT4	radon 209
NT4	lanthanum 136	NT4	niobium 87	NT4	rhenium 165
NT4	lead 187	NT4	niobium 88	NT4	rhenium 170
NT4	lead 188	NT4	niobium 89	NT4	rhenium 171
NT4	lead 189	NT4	niobium 90	NT4	rhenium 172
NT4	lead 190	NT4	niobium 92	NT4	rhenium 174
NT4	lead 191	NT4	nitrogen 12	NT4	rhenium 175
NT4	lead 192	NT4	nitrogen 13	NT4	rhenium 176
NT4	lead 193	NT4	osmium 172	NT4	rhenium 177
NT4	lead 194	NT4	osmium 173	NT4	rhenium 178
NT4	lead 195	NT4	osmium 174	NT4	rhenium 179
NT4	lead 199	NT4	osmium 175	NT4	rhenium 180
NT4	lead 201	NT4	osmium 176	NT4	rhenium 182
NT4	lutetium 153	NT4	osmium 177	NT4	rhodium 100
NT4	lutetium 161	NT4	osmium 178	NT4	rhodium 102
NT4	lutetium 162	NT4	osmium 179	NT4	rhodium 91
NT4	lutetium 163	NT4	osmium 181	NT4	rhodium 92
NT4	lutetium 164	NT4	osmium 183	NT4	rhodium 93
NT4	lutetium 165	NT4	oxygen 13	NT4	rhodium 94
NT4	lutetium 166	NT4	oxygen 14	NT4	rhodium 95
NT4	lutetium 167	NT4	oxygen 15	NT4	rhodium 96
NT4	lutetium 168	NT4	palladium 101	NT4	rhodium 97
NT4	lutetium 169	NT4	palladium 93	NT4	rhodium 98
NT4	lutetium 170	NT4	palladium 94	NT4	rhodium 99
NT4	lutetium 171	NT4	palladium 95	NT4	rubidium 73
NT4	lutetium 174	NT4	palladium 97	NT4	rubidium 74
NT4	magnesium 20	NT4	palladium 98	NT4	rubidium 75
NT4	magnesium 21	NT4	palladium 99	NT4	rubidium 76
NT4	magnesium 22	NT4	phosphorus 26	NT4	rubidium 77
NT4	magnesium 23	NT4	phosphorus 28	NT4	rubidium 78
NT4	manganese 48	NT4	phosphorus 29	NT4	rubidium 79
NT4	manganese 49	NT4	phosphorus 30	NT4	rubidium 80
NT4	manganese 50	NT4	platinum 174	NT4	rubidium 81
NT4	manganese 51	NT4	platinum 182	NT4	rubidium 82
NT4	manganese 52	NT4	platinum 183	NT4	rubidium 84
NT4	mercury 179	NT4	platinum 184	NT4	ruthenium 88
NT4	mercury 181	NT4	platinum 185	NT4	ruthenium 89
NT4	mercury 182	NT4	platinum 187	NT4	ruthenium 92
NT4	mercury 183	NT4	platinum 189	NT4	ruthenium 93
NT4	mercury 184	NT4	polonium 198	NT4	ruthenium 95
NT4	mercury 185	NT4	polonium 199	NT4	samarium 132
NT4	mercury 186	NT4	polonium 200	NT4	samarium 133
NT4	mercury 187	NT4	polonium 201	NT4	samarium 134
NT4	mercury 188	NT4	polonium 202	NT4	samarium 135
NT4	mercury 191	NT4	polonium 203	NT4	samarium 136
NT4	mercury 193	NT4	polonium 205	NT4	samarium 137
NT4	molybdenum 86	NT4	polonium 207	NT4	samarium 138
NT4	molybdenum 87	NT4	potassium 35	NT4	samarium 139
NT4	molybdenum 88	NT4	potassium 36	NT4	samarium 140
NT4	molybdenum 89	NT4	potassium 37	NT4	samarium 141
NT4	molybdenum 90	NT4	potassium 38	NT4	samarium 142
NT4	molybdenum 91	NT4	potassium 40	NT4	samarium 143
NT4	neodymium 127	NT4	praseodymium 126	NT4	scandium 40
NT4	neodymium 128	NT4	praseodymium 127	NT4	scandium 41
NT4	neodymium 129	NT4	praseodymium 129	NT4	scandium 42
NT4	neodymium 130	NT4	praseodymium 130	NT4	scandium 43
NT4	neodymium 131	NT4	praseodymium 131	NT4	scandium 44
NT4	neodymium 132	NT4	praseodymium 132	NT4	selenium 65
NT4	neodymium 133	NT4	praseodymium 133	NT4	selenium 67
NT4	neodymium 134	NT4	praseodymium 134	NT4	selenium 68
NT4	neodymium 135	NT4	praseodymium 135	NT4	selenium 69
NT4	neodymium 136	NT4	praseodymium 136	NT4	selenium 70
NT4	neodymium 137	NT4	praseodymium 137	NT4	selenium 71
NT4	neodymium 138	NT4	praseodymium 138	NT4	selenium 73
NT4	neodymium 139	NT4	praseodymium 139	NT4	silicon 24
NT4	neodymium 141	NT4	praseodymium 140	NT4	silicon 25
NT4	neon 17	NT4	promethium 132	NT4	silicon 26
NT4	neon 18	NT4	promethium 133	NT4	silicon 27
NT4	neon 19	NT4	promethium 134	NT4	silver 100
NT4	neptunium 234	NT4	promethium 135	NT4	silver 101
NT4	nickel 49	NT4	promethium 136	NT4	silver 102
NT4	nickel 50	NT4	promethium 137	NT4	silver 103
NT4	nickel 52	NT4	promethium 138	NT4	silver 104
NT4	nickel 53	NT4	promethium 139	NT4	silver 105
NT4	nickel 55	NT4	promethium 140	NT4	silver 106
NT4	nickel 56	NT4	promethium 141	NT4	silver 108
NT4	nickel 57	NT4	promethium 142	NT4	silver 94
NT4	niobium 83	NT4	protactinium 230	NT4	silver 96
NT4	niobium 84	NT4	radon 207	NT4	silver 98



NT4	silver 99	NT4	thallium 196	NT4	yttrium 87
NT4	sodium 20	NT4	thallium 197	NT4	yttrium 88
NT4	sodium 21	NT4	thallium 198	NT4	zinc 57
NT4	sodium 22	NT4	thallium 200	NT4	zinc 59
NT4	strontium 75	NT4	thulium 148	NT4	zinc 60
NT4	strontium 76	NT4	thulium 156	NT4	zinc 61
NT4	strontium 77	NT4	thulium 157	NT4	zinc 62
NT4	strontium 78	NT4	thulium 158	NT4	zinc 63
NT4	strontium 79	NT4	thulium 159	NT4	zinc 65
NT4	strontium 80	NT4	thulium 160	NT4	zirconium 81
NT4	strontium 81	NT4	thulium 161	NT4	zirconium 82
NT4	strontium 83	NT4	thulium 162	NT4	zirconium 83
NT4	sulfur 28	NT4	thulium 163	NT4	zirconium 84
NT4	sulfur 29	NT4	thulium 164	NT4	zirconium 85
NT4	sulfur 30	NT4	thulium 165	NT4	zirconium 87
NT4	sulfur 31	NT4	thulium 166	NT4	zirconium 89
NT4	tantalum 165	NT4	tin 100	NT3	electron capture radioisotopes
NT4	tantalum 166	NT4	tin 102	NT4	actinium 214
NT4	tantalum 167	NT4	tin 103	NT4	actinium 215
NT4	tantalum 168	NT4	tin 105	NT4	actinium 222
NT4	tantalum 169	NT4	tin 106	NT4	actinium 223
NT4	tantalum 170	NT4	tin 107	NT4	actinium 224
NT4	tantalum 171	NT4	tin 108	NT4	actinium 226
NT4	tantalum 172	NT4	tin 109	NT4	americium 231
NT4	tantalum 173	NT4	tin 111	NT4	americium 232
NT4	tantalum 174	NT4	titanium 39	NT4	americium 233
NT4	tantalum 175	NT4	titanium 40	NT4	americium 234
NT4	tantalum 176	NT4	titanium 41	NT4	americium 235
NT4	tantalum 177	NT4	titanium 42	NT4	americium 236
NT4	tantalum 178	NT4	titanium 43	NT4	americium 237
NT4	technetium 88	NT4	titanium 45	NT4	americium 238
NT4	technetium 89	NT4	tungsten 157	NT4	americium 239
NT4	technetium 90	NT4	tungsten 168	NT4	americium 240
NT4	technetium 91	NT4	tungsten 169	NT4	americium 242
NT4	technetium 92	NT4	tungsten 170	NT4	americium 244
NT4	technetium 93	NT4	tungsten 171	NT4	antimony 103
NT4	technetium 94	NT4	tungsten 172	NT4	antimony 107
NT4	technetium 95	NT4	tungsten 173	NT4	antimony 109
NT4	technetium 96	NT4	tungsten 175	NT4	antimony 110
NT4	tellurium 107	NT4	tungsten 177	NT4	antimony 111
NT4	tellurium 108	NT4	tungsten 190	NT4	antimony 112
NT4	tellurium 109	NT4	vanadium 42	NT4	antimony 113
NT4	tellurium 110	NT4	vanadium 43	NT4	antimony 114
NT4	tellurium 111	NT4	vanadium 44	NT4	antimony 115
NT4	tellurium 112	NT4	vanadium 45	NT4	antimony 116
NT4	tellurium 113	NT4	vanadium 46	NT4	antimony 117
NT4	tellurium 114	NT4	vanadium 47	NT4	antimony 118
NT4	tellurium 115	NT4	vanadium 48	NT4	antimony 119
NT4	tellurium 116	NT4	xenon 110	NT4	antimony 120
NT4	tellurium 117	NT4	xenon 111	NT4	antimony 122
NT4	tellurium 118	NT4	xenon 112	NT4	argon 37
NT4	tellurium 119	NT4	xenon 113	NT4	arsenic 67
NT4	tellurium 121	NT4	xenon 114	NT4	arsenic 70
NT4	terbium 139	NT4	xenon 115	NT4	arsenic 71
NT4	terbium 141	NT4	xenon 116	NT4	arsenic 72
NT4	terbium 143	NT4	xenon 117	NT4	arsenic 73
NT4	terbium 144	NT4	xenon 118	NT4	arsenic 74
NT4	terbium 145	NT4	xenon 119	NT4	astatine 195
NT4	terbium 146	NT4	xenon 120	NT4	astatine 197
NT4	terbium 147	NT4	xenon 121	NT4	astatine 199
NT4	terbium 148	NT4	xenon 122	NT4	astatine 200
NT4	terbium 149	NT4	xenon 123	NT4	astatine 201
NT4	terbium 150	NT4	xenon 125	NT4	astatine 202
NT4	terbium 151	NT4	ytterbium 153	NT4	astatine 203
NT4	terbium 152	NT4	ytterbium 158	NT4	astatine 204
NT4	terbium 153	NT4	ytterbium 160	NT4	astatine 205
NT4	terbium 154	NT4	ytterbium 161	NT4	astatine 206
NT4	terbium 156	NT4	ytterbium 162	NT4	astatine 207
NT4	thallium 182	NT4	ytterbium 163	NT4	astatine 208
NT4	thallium 184	NT4	ytterbium 165	NT4	astatine 209
NT4	thallium 186	NT4	ytterbium 167	NT4	astatine 210
NT4	thallium 188	NT4	yttrium 79	NT4	astatine 211
NT4	thallium 189	NT4	yttrium 80	NT4	barium 117
NT4	thallium 190	NT4	yttrium 81	NT4	barium 119
NT4	thallium 191	NT4	yttrium 82	NT4	barium 120
NT4	thallium 192	NT4	yttrium 83	NT4	barium 121
NT4	thallium 193	NT4	yttrium 84	NT4	barium 122
NT4	thallium 194	NT4	yttrium 85	NT4	barium 123
NT4	thallium 195	NT4	yttrium 86	NT4	barium 124

NT4	barium 125	NT4	cerium 137	NT4	erbium 147
NT4	barium 126	NT4	cerium 139	NT4	erbium 149
NT4	barium 127	NT4	cesium 114	NT4	erbium 150
NT4	barium 128	NT4	cesium 115	NT4	erbium 151
NT4	barium 129	NT4	cesium 116	NT4	erbium 152
NT4	barium 131	NT4	cesium 117	NT4	erbium 153
NT4	barium 133	NT4	cesium 118	NT4	erbium 154
NT4	berkelium 235	NT4	cesium 119	NT4	erbium 155
NT4	berkelium 236	NT4	cesium 120	NT4	erbium 156
NT4	berkelium 237	NT4	cesium 121	NT4	erbium 157
NT4	berkelium 238	NT4	cesium 122	NT4	erbium 158
NT4	berkelium 239	NT4	cesium 123	NT4	erbium 159
NT4	berkelium 240	NT4	cesium 124	NT4	erbium 160
NT4	berkelium 242	NT4	cesium 125	NT4	erbium 161
NT4	berkelium 243	NT4	cesium 126	NT4	erbium 163
NT4	berkelium 244	NT4	cesium 127	NT4	erbium 165
NT4	berkelium 245	NT4	cesium 128	NT4	europium 132
NT4	berkelium 246	NT4	cesium 129	NT4	europium 133
NT4	berkelium 248	NT4	cesium 130	NT4	europium 139
NT4	beryllium 7	NT4	cesium 131	NT4	europium 140
NT4	bismuth 190	NT4	cesium 132	NT4	europium 141
NT4	bismuth 191	NT4	cesium 134	NT4	europium 142
NT4	bismuth 192	NT4	chlorine 36	NT4	europium 143
NT4	bismuth 193	NT4	chromium 48	NT4	europium 144
NT4	bismuth 194	NT4	chromium 49	NT4	europium 145
NT4	bismuth 195	NT4	chromium 51	NT4	europium 146
NT4	bismuth 196	NT4	cobalt 49	NT4	europium 147
NT4	bismuth 197	NT4	cobalt 51	NT4	europium 148
NT4	bismuth 198	NT4	cobalt 55	NT4	europium 149
NT4	bismuth 199	NT4	cobalt 56	NT4	europium 150
NT4	bismuth 200	NT4	cobalt 57	NT4	europium 152
NT4	bismuth 201	NT4	cobalt 58	NT4	europium 154
NT4	bismuth 202	NT4	copper 55	NT4	fermium 247
NT4	bismuth 203	NT4	copper 58	NT4	fermium 249
NT4	bismuth 204	NT4	copper 60	NT4	fermium 251
NT4	bismuth 205	NT4	copper 61	NT4	fermium 253
NT4	bismuth 206	NT4	copper 62	NT4	francium 204
NT4	bismuth 207	NT4	copper 64	NT4	francium 206
NT4	bismuth 208	NT4	curium 232	NT4	francium 207
NT4	bromine 67	NT4	curium 233	NT4	francium 208
NT4	bromine 68	NT4	curium 234	NT4	francium 209
NT4	bromine 71	NT4	curium 235	NT4	francium 210
NT4	bromine 73	NT4	curium 238	NT4	francium 211
NT4	bromine 74	NT4	curium 239	NT4	francium 212
NT4	bromine 75	NT4	curium 241	NT4	francium 213
NT4	bromine 76	NT4	dubnium 258	NT4	gadolinium 135
NT4	bromine 77	NT4	dysprosium 138	NT4	gadolinium 141
NT4	bromine 78	NT4	dysprosium 139	NT4	gadolinium 143
NT4	bromine 80	NT4	dysprosium 140	NT4	gadolinium 144
NT4	cadmium 100	NT4	dysprosium 141	NT4	gadolinium 145
NT4	cadmium 101	NT4	dysprosium 143	NT4	gadolinium 146
NT4	cadmium 102	NT4	dysprosium 144	NT4	gadolinium 147
NT4	cadmium 103	NT4	dysprosium 145	NT4	gadolinium 149
NT4	cadmium 104	NT4	dysprosium 147	NT4	gadolinium 151
NT4	cadmium 105	NT4	dysprosium 148	NT4	gadolinium 153
NT4	cadmium 107	NT4	dysprosium 149	NT4	gallium 62
NT4	cadmium 109	NT4	dysprosium 150	NT4	gallium 63
NT4	cadmium 96	NT4	dysprosium 151	NT4	gallium 64
NT4	cadmium 97	NT4	dysprosium 152	NT4	gallium 65
NT4	calcium 41	NT4	dysprosium 153	NT4	gallium 66
NT4	californium 241	NT4	dysprosium 155	NT4	gallium 67
NT4	californium 243	NT4	dysprosium 157	NT4	gallium 68
NT4	californium 245	NT4	dysprosium 159	NT4	gallium 70
NT4	californium 247	NT4	einsteinium 240	NT4	germanium 63
NT4	cerium 119	NT4	einsteinium 241	NT4	germanium 64
NT4	cerium 120	NT4	einsteinium 242	NT4	germanium 65
NT4	cerium 121	NT4	einsteinium 244	NT4	germanium 66
NT4	cerium 122	NT4	einsteinium 245	NT4	germanium 67
NT4	cerium 123	NT4	einsteinium 246	NT4	germanium 68
NT4	cerium 126	NT4	einsteinium 247	NT4	germanium 69
NT4	cerium 127	NT4	einsteinium 248	NT4	germanium 71
NT4	cerium 128	NT4	einsteinium 249	NT4	gold 180
NT4	cerium 129	NT4	einsteinium 250	NT4	gold 181
NT4	cerium 130	NT4	einsteinium 251	NT4	gold 182
NT4	cerium 131	NT4	einsteinium 252	NT4	gold 183
NT4	cerium 132	NT4	einsteinium 254	NT4	gold 184
NT4	cerium 133	NT4	erbium 143	NT4	gold 185
NT4	cerium 134	NT4	erbium 144	NT4	gold 186
NT4	cerium 135	NT4	erbium 146	NT4	gold 187

<b>NT4</b> gold 188	<b>NT4</b> iridium 178	<b>NT4</b> lutetium 158
<b>NT4</b> gold 189	<b>NT4</b> iridium 179	<b>NT4</b> lutetium 159
<b>NT4</b> gold 190	<b>NT4</b> iridium 180	<b>NT4</b> lutetium 160
<b>NT4</b> gold 191	<b>NT4</b> iridium 181	<b>NT4</b> lutetium 161
<b>NT4</b> gold 192	<b>NT4</b> iridium 182	<b>NT4</b> lutetium 162
<b>NT4</b> gold 193	<b>NT4</b> iridium 183	<b>NT4</b> lutetium 163
<b>NT4</b> gold 194	<b>NT4</b> iridium 184	<b>NT4</b> lutetium 164
<b>NT4</b> gold 195	<b>NT4</b> iridium 185	<b>NT4</b> lutetium 165
<b>NT4</b> gold 196	<b>NT4</b> iridium 186	<b>NT4</b> lutetium 166
<b>NT4</b> hafnium 154	<b>NT4</b> iridium 187	<b>NT4</b> lutetium 167
<b>NT4</b> hafnium 155	<b>NT4</b> iridium 188	<b>NT4</b> lutetium 168
<b>NT4</b> hafnium 157	<b>NT4</b> iridium 189	<b>NT4</b> lutetium 169
<b>NT4</b> hafnium 158	<b>NT4</b> iridium 190	<b>NT4</b> lutetium 170
<b>NT4</b> hafnium 159	<b>NT4</b> iridium 192	<b>NT4</b> lutetium 171
<b>NT4</b> hafnium 160	<b>NT4</b> iron 45	<b>NT4</b> lutetium 172
<b>NT4</b> hafnium 162	<b>NT4</b> iron 52	<b>NT4</b> lutetium 173
<b>NT4</b> hafnium 163	<b>NT4</b> iron 53	<b>NT4</b> lutetium 174
<b>NT4</b> hafnium 166	<b>NT4</b> iron 55	<b>NT4</b> manganese 51
<b>NT4</b> hafnium 167	<b>NT4</b> krypton 69	<b>NT4</b> manganese 52
<b>NT4</b> hafnium 168	<b>NT4</b> krypton 71	<b>NT4</b> manganese 53
<b>NT4</b> hafnium 169	<b>NT4</b> krypton 72	<b>NT4</b> manganese 54
<b>NT4</b> hafnium 170	<b>NT4</b> krypton 73	<b>NT4</b> mendelevium 245
<b>NT4</b> hafnium 171	<b>NT4</b> krypton 74	<b>NT4</b> mendelevium 246
<b>NT4</b> hafnium 172	<b>NT4</b> krypton 75	<b>NT4</b> mendelevium 248
<b>NT4</b> hafnium 173	<b>NT4</b> krypton 76	<b>NT4</b> mendelevium 249
<b>NT4</b> hafnium 175	<b>NT4</b> krypton 77	<b>NT4</b> mendelevium 250
<b>NT4</b> holmium 142	<b>NT4</b> krypton 79	<b>NT4</b> mendelevium 251
<b>NT4</b> holmium 143	<b>NT4</b> krypton 81	<b>NT4</b> mendelevium 252
<b>NT4</b> holmium 145	<b>NT4</b> lanthanum 117	<b>NT4</b> mendelevium 253
<b>NT4</b> holmium 147	<b>NT4</b> lanthanum 118	<b>NT4</b> mendelevium 254
<b>NT4</b> holmium 149	<b>NT4</b> lanthanum 119	<b>NT4</b> mendelevium 255
<b>NT4</b> holmium 150	<b>NT4</b> lanthanum 120	<b>NT4</b> mendelevium 256
<b>NT4</b> holmium 151	<b>NT4</b> lanthanum 121	<b>NT4</b> mendelevium 257
<b>NT4</b> holmium 152	<b>NT4</b> lanthanum 122	<b>NT4</b> mendelevium 258
<b>NT4</b> holmium 153	<b>NT4</b> lanthanum 123	<b>NT4</b> mercury 177
<b>NT4</b> holmium 154	<b>NT4</b> lanthanum 124	<b>NT4</b> mercury 178
<b>NT4</b> holmium 155	<b>NT4</b> lanthanum 125	<b>NT4</b> mercury 179
<b>NT4</b> holmium 156	<b>NT4</b> lanthanum 126	<b>NT4</b> mercury 180
<b>NT4</b> holmium 157	<b>NT4</b> lanthanum 127	<b>NT4</b> mercury 181
<b>NT4</b> holmium 158	<b>NT4</b> lanthanum 128	<b>NT4</b> mercury 182
<b>NT4</b> holmium 159	<b>NT4</b> lanthanum 129	<b>NT4</b> mercury 183
<b>NT4</b> holmium 160	<b>NT4</b> lanthanum 130	<b>NT4</b> mercury 184
<b>NT4</b> holmium 161	<b>NT4</b> lanthanum 131	<b>NT4</b> mercury 185
<b>NT4</b> holmium 162	<b>NT4</b> lanthanum 132	<b>NT4</b> mercury 186
<b>NT4</b> holmium 163	<b>NT4</b> lanthanum 133	<b>NT4</b> mercury 187
<b>NT4</b> holmium 164	<b>NT4</b> lanthanum 134	<b>NT4</b> mercury 188
<b>NT4</b> indium 102	<b>NT4</b> lanthanum 135	<b>NT4</b> mercury 189
<b>NT4</b> indium 103	<b>NT4</b> lanthanum 136	<b>NT4</b> mercury 190
<b>NT4</b> indium 104	<b>NT4</b> lanthanum 137	<b>NT4</b> mercury 191
<b>NT4</b> indium 105	<b>NT4</b> lanthanum 138	<b>NT4</b> mercury 192
<b>NT4</b> indium 106	<b>NT4</b> lawrencium 251	<b>NT4</b> mercury 193
<b>NT4</b> indium 107	<b>NT4</b> lawrencium 254	<b>NT4</b> mercury 194
<b>NT4</b> indium 108	<b>NT4</b> lawrencium 255	<b>NT4</b> mercury 195
<b>NT4</b> indium 109	<b>NT4</b> lawrencium 256	<b>NT4</b> mercury 197
<b>NT4</b> indium 110	<b>NT4</b> lead 186	<b>NT4</b> molybdenum 83
<b>NT4</b> indium 111	<b>NT4</b> lead 187	<b>NT4</b> molybdenum 87
<b>NT4</b> indium 112	<b>NT4</b> lead 188	<b>NT4</b> molybdenum 88
<b>NT4</b> indium 114	<b>NT4</b> lead 189	<b>NT4</b> molybdenum 89
<b>NT4</b> indium 97	<b>NT4</b> lead 190	<b>NT4</b> molybdenum 90
<b>NT4</b> indium 98	<b>NT4</b> lead 191	<b>NT4</b> molybdenum 91
<b>NT4</b> indium 99	<b>NT4</b> lead 192	<b>NT4</b> molybdenum 93
<b>NT4</b> iodine 110	<b>NT4</b> lead 193	<b>NT4</b> neodymium 125
<b>NT4</b> iodine 111	<b>NT4</b> lead 194	<b>NT4</b> neodymium 126
<b>NT4</b> iodine 112	<b>NT4</b> lead 195	<b>NT4</b> neodymium 129
<b>NT4</b> iodine 113	<b>NT4</b> lead 196	<b>NT4</b> neodymium 130
<b>NT4</b> iodine 114	<b>NT4</b> lead 197	<b>NT4</b> neodymium 132
<b>NT4</b> iodine 115	<b>NT4</b> lead 198	<b>NT4</b> neodymium 133
<b>NT4</b> iodine 116	<b>NT4</b> lead 199	<b>NT4</b> neodymium 134
<b>NT4</b> iodine 117	<b>NT4</b> lead 200	<b>NT4</b> neodymium 135
<b>NT4</b> iodine 118	<b>NT4</b> lead 201	<b>NT4</b> neodymium 136
<b>NT4</b> iodine 119	<b>NT4</b> lead 202	<b>NT4</b> neodymium 137
<b>NT4</b> iodine 120	<b>NT4</b> lead 203	<b>NT4</b> neodymium 138
<b>NT4</b> iodine 121	<b>NT4</b> lead 205	<b>NT4</b> neodymium 139
<b>NT4</b> iodine 122	<b>NT4</b> lutetium 150	<b>NT4</b> neodymium 140
<b>NT4</b> iodine 123	<b>NT4</b> lutetium 153	<b>NT4</b> neodymium 141
<b>NT4</b> iodine 124	<b>NT4</b> lutetium 154	<b>NT4</b> neptunium 230
<b>NT4</b> iodine 125	<b>NT4</b> lutetium 155	<b>NT4</b> neptunium 231
<b>NT4</b> iodine 126	<b>NT4</b> lutetium 156	<b>NT4</b> neptunium 232
<b>NT4</b> iodine 128	<b>NT4</b> lutetium 157	<b>NT4</b> neptunium 233

NT4	neptunium 234	NT4	polonium 199	NT4	rhenium 177
NT4	neptunium 235	NT4	polonium 200	NT4	rhenium 178
NT4	neptunium 236	NT4	polonium 201	NT4	rhenium 179
NT4	nickel 48	NT4	polonium 202	NT4	rhenium 180
NT4	nickel 51	NT4	polonium 203	NT4	rhenium 181
NT4	nickel 56	NT4	polonium 204	NT4	rhenium 182
NT4	nickel 57	NT4	polonium 205	NT4	rhenium 183
NT4	nickel 59	NT4	polonium 206	NT4	rhenium 184
NT4	niobium 82	NT4	polonium 207	NT4	rhenium 186
NT4	niobium 84	NT4	polonium 208	NT4	rhodium 100
NT4	niobium 85	NT4	polonium 209	NT4	rhodium 101
NT4	niobium 86	NT4	potassium 40	NT4	rhodium 102
NT4	niobium 87	NT4	praseodymium 125	NT4	rhodium 104
NT4	niobium 88	NT4	praseodymium 127	NT4	rhodium 89
NT4	niobium 90	NT4	praseodymium 128	NT4	rhodium 90
NT4	niobium 91	NT4	praseodymium 129	NT4	rhodium 91
NT4	niobium 92	NT4	praseodymium 130	NT4	rhodium 92
NT4	nitrogen 13	NT4	praseodymium 132	NT4	rhodium 93
NT4	nobelium 253	NT4	praseodymium 133	NT4	rhodium 95
NT4	nobelium 254	NT4	praseodymium 134	NT4	rhodium 96
NT4	nobelium 255	NT4	praseodymium 135	NT4	rhodium 97
NT4	nobelium 259	NT4	praseodymium 136	NT4	rhodium 98
NT4	osmium 166	NT4	praseodymium 137	NT4	rhodium 99
NT4	osmium 167	NT4	praseodymium 138	NT4	rubidium 76
NT4	osmium 168	NT4	praseodymium 139	NT4	rubidium 77
NT4	osmium 169	NT4	praseodymium 140	NT4	rubidium 78
NT4	osmium 170	NT4	praseodymium 142	NT4	rubidium 79
NT4	osmium 171	NT4	promethium 126	NT4	rubidium 81
NT4	osmium 172	NT4	promethium 127	NT4	rubidium 82
NT4	osmium 173	NT4	promethium 128	NT4	rubidium 83
NT4	osmium 174	NT4	promethium 129	NT4	rubidium 84
NT4	osmium 175	NT4	promethium 130	NT4	rubidium 86
NT4	osmium 176	NT4	promethium 131	NT4	ruthenium 87
NT4	osmium 177	NT4	promethium 132	NT4	ruthenium 90
NT4	osmium 178	NT4	promethium 133	NT4	ruthenium 91
NT4	osmium 179	NT4	promethium 134	NT4	ruthenium 92
NT4	osmium 180	NT4	promethium 135	NT4	ruthenium 93
NT4	osmium 181	NT4	promethium 136	NT4	ruthenium 94
NT4	osmium 182	NT4	promethium 137	NT4	ruthenium 95
NT4	osmium 183	NT4	promethium 138	NT4	ruthenium 97
NT4	osmium 185	NT4	promethium 139	NT4	samarium 129
NT4	palladium 100	NT4	promethium 140	NT4	samarium 130
NT4	palladium 101	NT4	promethium 141	NT4	samarium 132
NT4	palladium 103	NT4	promethium 142	NT4	samarium 133
NT4	palladium 91	NT4	promethium 143	NT4	samarium 134
NT4	palladium 92	NT4	promethium 144	NT4	samarium 135
NT4	palladium 94	NT4	promethium 145	NT4	samarium 136
NT4	palladium 95	NT4	promethium 146	NT4	samarium 137
NT4	palladium 96	NT4	protactinium 226	NT4	samarium 138
NT4	palladium 97	NT4	protactinium 227	NT4	samarium 139
NT4	palladium 98	NT4	protactinium 228	NT4	samarium 140
NT4	palladium 99	NT4	protactinium 229	NT4	samarium 141
NT4	platinum 173	NT4	protactinium 230	NT4	samarium 142
NT4	platinum 174	NT4	radium 213	NT4	samarium 143
NT4	platinum 175	NT4	radium 214	NT4	samarium 145
NT4	platinum 176	NT4	radon 198	NT4	scandium 44
NT4	platinum 177	NT4	radon 200	NT4	selenium 69
NT4	platinum 178	NT4	radon 201	NT4	selenium 70
NT4	platinum 179	NT4	radon 202	NT4	selenium 71
NT4	platinum 180	NT4	radon 203	NT4	selenium 72
NT4	platinum 181	NT4	radon 204	NT4	selenium 73
NT4	platinum 182	NT4	radon 205	NT4	selenium 75
NT4	platinum 183	NT4	radon 206	NT4	silver 100
NT4	platinum 184	NT4	radon 207	NT4	silver 101
NT4	platinum 185	NT4	radon 208	NT4	silver 102
NT4	platinum 186	NT4	radon 209	NT4	silver 103
NT4	platinum 187	NT4	radon 210	NT4	silver 104
NT4	platinum 188	NT4	radon 211	NT4	silver 105
NT4	platinum 189	NT4	rhenium 163	NT4	silver 106
NT4	platinum 191	NT4	rhenium 164	NT4	silver 108
NT4	platinum 193	NT4	rhenium 165	NT4	silver 110
NT4	plutonium 232	NT4	rhenium 168	NT4	silver 93
NT4	plutonium 233	NT4	rhenium 170	NT4	silver 95
NT4	plutonium 234	NT4	rhenium 171	NT4	silver 96
NT4	plutonium 235	NT4	rhenium 172	NT4	silver 97
NT4	plutonium 237	NT4	rhenium 173	NT4	silver 98
NT4	polonium 196	NT4	rhenium 174	NT4	silver 99
NT4	polonium 197	NT4	rhenium 175	NT4	sodium 20
NT4	polonium 198	NT4	rhenium 176	NT4	strontium 73

<b>NT4</b>	strontium 74	<b>NT4</b>	thallium 181	<b>NT4</b>	vanadium 49
<b>NT4</b>	strontium 76	<b>NT4</b>	thallium 184	<b>NT4</b>	vanadium 50
<b>NT4</b>	strontium 78	<b>NT4</b>	thallium 186	<b>NT4</b>	xenon 110
<b>NT4</b>	strontium 79	<b>NT4</b>	thallium 187	<b>NT4</b>	xenon 111
<b>NT4</b>	strontium 80	<b>NT4</b>	thallium 188	<b>NT4</b>	xenon 112
<b>NT4</b>	strontium 81	<b>NT4</b>	thallium 189	<b>NT4</b>	xenon 113
<b>NT4</b>	strontium 82	<b>NT4</b>	thallium 190	<b>NT4</b>	xenon 114
<b>NT4</b>	strontium 83	<b>NT4</b>	thallium 191	<b>NT4</b>	xenon 115
<b>NT4</b>	strontium 85	<b>NT4</b>	thallium 192	<b>NT4</b>	xenon 116
<b>NT4</b>	strontium 87	<b>NT4</b>	thallium 193	<b>NT4</b>	xenon 117
<b>NT4</b>	tantalum 156	<b>NT4</b>	thallium 194	<b>NT4</b>	xenon 118
<b>NT4</b>	tantalum 158	<b>NT4</b>	thallium 195	<b>NT4</b>	xenon 119
<b>NT4</b>	tantalum 159	<b>NT4</b>	thallium 196	<b>NT4</b>	xenon 120
<b>NT4</b>	tantalum 160	<b>NT4</b>	thallium 197	<b>NT4</b>	xenon 121
<b>NT4</b>	tantalum 165	<b>NT4</b>	thallium 198	<b>NT4</b>	xenon 122
<b>NT4</b>	tantalum 166	<b>NT4</b>	thallium 199	<b>NT4</b>	xenon 123
<b>NT4</b>	tantalum 167	<b>NT4</b>	thallium 200	<b>NT4</b>	xenon 125
<b>NT4</b>	tantalum 168	<b>NT4</b>	thallium 201	<b>NT4</b>	xenon 127
<b>NT4</b>	tantalum 169	<b>NT4</b>	thallium 202	<b>NT4</b>	ytterbium 148
<b>NT4</b>	tantalum 170	<b>NT4</b>	thallium 204	<b>NT4</b>	ytterbium 149
<b>NT4</b>	tantalum 171	<b>NT4</b>	thorium 225	<b>NT4</b>	ytterbium 153
<b>NT4</b>	tantalum 172	<b>NT4</b>	thulium 148	<b>NT4</b>	ytterbium 155
<b>NT4</b>	tantalum 173	<b>NT4</b>	thulium 152	<b>NT4</b>	ytterbium 156
<b>NT4</b>	tantalum 174	<b>NT4</b>	thulium 153	<b>NT4</b>	ytterbium 157
<b>NT4</b>	tantalum 175	<b>NT4</b>	thulium 154	<b>NT4</b>	ytterbium 158
<b>NT4</b>	tantalum 176	<b>NT4</b>	thulium 155	<b>NT4</b>	ytterbium 159
<b>NT4</b>	tantalum 177	<b>NT4</b>	thulium 156	<b>NT4</b>	ytterbium 160
<b>NT4</b>	tantalum 178	<b>NT4</b>	thulium 157	<b>NT4</b>	ytterbium 161
<b>NT4</b>	tantalum 179	<b>NT4</b>	thulium 158	<b>NT4</b>	ytterbium 162
<b>NT4</b>	tantalum 180	<b>NT4</b>	thulium 159	<b>NT4</b>	ytterbium 163
<b>NT4</b>	technetium 85	<b>NT4</b>	thulium 160	<b>NT4</b>	ytterbium 164
<b>NT4</b>	technetium 86	<b>NT4</b>	thulium 161	<b>NT4</b>	ytterbium 165
<b>NT4</b>	technetium 87	<b>NT4</b>	thulium 162	<b>NT4</b>	ytterbium 166
<b>NT4</b>	technetium 90	<b>NT4</b>	thulium 163	<b>NT4</b>	ytterbium 167
<b>NT4</b>	technetium 91	<b>NT4</b>	thulium 164	<b>NT4</b>	ytterbium 169
<b>NT4</b>	technetium 92	<b>NT4</b>	thulium 165	<b>NT4</b>	yttrium 78
<b>NT4</b>	technetium 93	<b>NT4</b>	thulium 166	<b>NT4</b>	yttrium 79
<b>NT4</b>	technetium 94	<b>NT4</b>	thulium 167	<b>NT4</b>	yttrium 80
<b>NT4</b>	technetium 95	<b>NT4</b>	thulium 168	<b>NT4</b>	yttrium 81
<b>NT4</b>	technetium 96	<b>NT4</b>	thulium 170	<b>NT4</b>	yttrium 83
<b>NT4</b>	technetium 97	<b>NT4</b>	tin 100	<b>NT4</b>	yttrium 84
<b>NT4</b>	tellurium 107	<b>NT4</b>	tin 102	<b>NT4</b>	yttrium 85
<b>NT4</b>	tellurium 108	<b>NT4</b>	tin 106	<b>NT4</b>	yttrium 86
<b>NT4</b>	tellurium 109	<b>NT4</b>	tin 107	<b>NT4</b>	yttrium 87
<b>NT4</b>	tellurium 110	<b>NT4</b>	tin 108	<b>NT4</b>	yttrium 88
<b>NT4</b>	tellurium 111	<b>NT4</b>	tin 109	<b>NT4</b>	zinc 55
<b>NT4</b>	tellurium 112	<b>NT4</b>	tin 110	<b>NT4</b>	zinc 56
<b>NT4</b>	tellurium 113	<b>NT4</b>	tin 111	<b>NT4</b>	zinc 60
<b>NT4</b>	tellurium 114	<b>NT4</b>	tin 113	<b>NT4</b>	zinc 61
<b>NT4</b>	tellurium 115	<b>NT4</b>	tin 99	<b>NT4</b>	zinc 62
<b>NT4</b>	tellurium 116	<b>NT4</b>	titanium 39	<b>NT4</b>	zinc 63
<b>NT4</b>	tellurium 117	<b>NT4</b>	titanium 44	<b>NT4</b>	zinc 65
<b>NT4</b>	tellurium 118	<b>NT4</b>	titanium 45	<b>NT4</b>	zirconium 78
<b>NT4</b>	tellurium 119	<b>NT4</b>	tungsten 161	<b>NT4</b>	zirconium 79
<b>NT4</b>	tellurium 121	<b>NT4</b>	tungsten 162	<b>NT4</b>	zirconium 84
<b>NT4</b>	tellurium 123	<b>NT4</b>	tungsten 163	<b>NT4</b>	zirconium 85
<b>NT4</b>	terbium 136	<b>NT4</b>	tungsten 164	<b>NT4</b>	zirconium 86
<b>NT4</b>	terbium 137	<b>NT4</b>	tungsten 165	<b>NT4</b>	zirconium 87
<b>NT4</b>	terbium 138	<b>NT4</b>	tungsten 166	<b>NT4</b>	zirconium 88
<b>NT4</b>	terbium 139	<b>NT4</b>	tungsten 168	<b>NT4</b>	zirconium 89
<b>NT4</b>	terbium 141	<b>NT4</b>	tungsten 169	<b>NT2</b>	bone seekers
<b>NT4</b>	terbium 142	<b>NT4</b>	tungsten 170	<b>NT2</b>	days living radioisotopes
<b>NT4</b>	terbium 143	<b>NT4</b>	tungsten 171	<b>NT3</b>	actinium 225
<b>NT4</b>	terbium 144	<b>NT4</b>	tungsten 172	<b>NT3</b>	actinium 226
<b>NT4</b>	terbium 146	<b>NT4</b>	tungsten 173	<b>NT3</b>	americium 240
<b>NT4</b>	terbium 147	<b>NT4</b>	tungsten 174	<b>NT3</b>	antimony 119
<b>NT4</b>	terbium 148	<b>NT4</b>	tungsten 175	<b>NT3</b>	antimony 120
<b>NT4</b>	terbium 149	<b>NT4</b>	tungsten 176	<b>NT3</b>	antimony 122
<b>NT4</b>	terbium 150	<b>NT4</b>	tungsten 177	<b>NT3</b>	antimony 124
<b>NT4</b>	terbium 151	<b>NT4</b>	tungsten 178	<b>NT3</b>	antimony 126
<b>NT4</b>	terbium 152	<b>NT4</b>	tungsten 179	<b>NT3</b>	antimony 127
<b>NT4</b>	terbium 153	<b>NT4</b>	tungsten 181	<b>NT3</b>	argon 37
<b>NT4</b>	terbium 154	<b>NT4</b>	uranium 228	<b>NT3</b>	arsenic 71
<b>NT4</b>	terbium 155	<b>NT4</b>	uranium 229	<b>NT3</b>	arsenic 72
<b>NT4</b>	terbium 156	<b>NT4</b>	uranium 231	<b>NT3</b>	arsenic 73
<b>NT4</b>	terbium 157	<b>NT4</b>	vanadium 42	<b>NT3</b>	arsenic 74
<b>NT4</b>	terbium 158	<b>NT4</b>	vanadium 45	<b>NT3</b>	arsenic 76
<b>NT4</b>	thallium 178	<b>NT4</b>	vanadium 47	<b>NT3</b>	arsenic 77
<b>NT4</b>	thallium 180	<b>NT4</b>	vanadium 48	<b>NT3</b>	barium 128

NT3	barium 131	NT3	iodine 126	NT3	samarium 145
NT3	barium 133	NT3	iodine 131	NT3	samarium 153
NT3	barium 135	NT3	iridium 188	NT3	scandium 44
NT3	barium 140	NT3	iridium 189	NT3	scandium 46
NT3	berkelium 245	NT3	iridium 190	NT3	scandium 47
NT3	berkelium 246	NT3	iridium 192	NT3	scandium 48
NT3	berkelium 249	NT3	iridium 193	NT3	selenium 72
NT3	beryllium 7	NT3	iridium 194	NT3	selenium 75
NT3	bismuth 205	NT3	iron 59	NT3	silver 105
NT3	bismuth 206	NT3	krypton 79	NT3	silver 106
NT3	bismuth 210	NT3	lanthanum 140	NT3	silver 110
NT3	bromine 77	NT3	lead 203	NT3	silver 111
NT3	bromine 82	NT3	lutetium 169	NT3	strontium 82
NT3	cadmium 115	NT3	lutetium 170	NT3	strontium 83
NT3	calcium 45	NT3	lutetium 171	NT3	strontium 85
NT3	calcium 47	NT3	lutetium 172	NT3	strontium 89
NT3	californium 246	NT3	lutetium 174	NT3	sulfur 35
NT3	californium 248	NT3	lutetium 177	NT3	tantalum 177
NT3	californium 253	NT3	manganese 52	NT3	tantalum 182
NT3	californium 254	NT3	manganese 54	NT3	tantalum 183
NT3	cerium 134	NT3	mendelevium 258	NT3	technetium 95
NT3	cerium 137	NT3	mercury 195	NT3	technetium 96
NT3	cerium 139	NT3	mercury 197	NT3	technetium 97
NT3	cerium 141	NT3	mercury 203	NT3	tellurium 118
NT3	cerium 143	NT3	molybdenum 99	NT3	tellurium 119
NT3	cerium 144	NT3	neodymium 140	NT3	tellurium 121
NT3	cesium 129	NT3	neodymium 147	NT3	tellurium 123
NT3	cesium 131	NT3	neptunium 234	NT3	tellurium 125
NT3	cesium 132	NT3	neptunium 238	NT3	tellurium 127
NT3	cesium 136	NT3	neptunium 239	NT3	tellurium 129
NT3	chromium 51	NT3	nickel 56	NT3	tellurium 131
NT3	cobalt 56	NT3	nickel 57	NT3	tellurium 132
NT3	cobalt 57	NT3	nickel 66	NT3	terbium 153
NT3	cobalt 58	NT3	niobium 91	NT3	terbium 155
NT3	copper 67	NT3	niobium 92	NT3	terbium 156
NT3	curium 240	NT3	niobium 95	NT3	terbium 160
NT3	curium 241	NT3	osmium 185	NT3	terbium 161
NT3	curium 242	NT3	osmium 191	NT3	thallium 200
NT3	dubnium 268	NT3	osmium 193	NT3	thallium 201
NT3	dysprosium 159	NT3	palladium 100	NT3	thallium 202
NT3	dysprosium 166	NT3	palladium 103	NT3	thorium 227
NT3	einsteinium 251	NT3	phosphorus 32	NT3	thorium 231
NT3	einsteinium 253	NT3	phosphorus 33	NT3	thorium 234
NT3	einsteinium 254	NT3	platinum 188	NT3	thulium 165
NT3	einsteinium 255	NT3	platinum 191	NT3	thulium 167
NT3	erbium 160	NT3	platinum 193	NT3	thulium 168
NT3	erbium 169	NT3	platinum 195	NT3	thulium 170
NT3	erbium 172	NT3	plutonium 237	NT3	thulium 172
NT3	europium 145	NT3	plutonium 246	NT3	tin 113
NT3	europium 146	NT3	plutonium 247	NT3	tin 117
NT3	europium 147	NT3	polonium 206	NT3	tin 119
NT3	europium 148	NT3	polonium 210	NT3	tin 121
NT3	europium 149	NT3	praseodymium 143	NT3	tin 123
NT3	europium 156	NT3	promethium 143	NT3	tin 125
NT3	fermium 252	NT3	promethium 148	NT3	tungsten 178
NT3	fermium 253	NT3	promethium 149	NT3	tungsten 181
NT3	fermium 257	NT3	protactinium 151	NT3	tungsten 185
NT3	gadolinium 146	NT3	protactinium 229	NT3	tungsten 187
NT3	gadolinium 147	NT3	protactinium 230	NT3	tungsten 188
NT3	gadolinium 149	NT3	protactinium 232	NT3	uranium 230
NT3	gadolinium 151	NT3	protactinium 233	NT3	uranium 231
NT3	gadolinium 153	NT3	radium 223	NT3	uranium 237
NT3	gallium 67	NT3	radium 224	NT3	vanadium 48
NT3	germanium 68	NT3	radium 225	NT3	vanadium 49
NT3	germanium 69	NT3	radon 222	NT3	xenon 127
NT3	germanium 71	NT3	rhenium 182	NT3	xenon 129
NT3	gold 194	NT3	rhenium 183	NT3	xenon 131
NT3	gold 195	NT3	rhenium 184	NT3	xenon 133
NT3	gold 196	NT3	rhenium 186	NT3	ytterbium 166
NT3	gold 198	NT3	rhenium 189	NT3	ytterbium 169
NT3	gold 199	NT3	rhodium 101	NT3	ytterbium 175
NT3	hafnium 175	NT3	rhodium 102	NT3	yttrium 87
NT3	hafnium 179	NT3	rhodium 105	NT3	yttrium 88
NT3	hafnium 181	NT3	rhodium 99	NT3	yttrium 90
NT3	holmium 166	NT3	rubidium 83	NT3	yttrium 91
NT3	indium 111	NT3	rubidium 84	NT3	zinc 65
NT3	indium 114	NT3	rubidium 86	NT3	zinc 72
NT3	iodine 124	NT3	ruthenium 103	NT3	zirconium 88
NT3	iodine 125	NT3	ruthenium 97	NT3	zirconium 89

NT3	zirconium 95	NT3	curium 238	NT3	lanthanum 132
NT2	delayed neutron precursors	NT3	curium 239	NT3	lanthanum 133
NT2	delayed proton precursors	NT3	curium 249	NT3	lanthanum 135
NT2	heavy ion decay radioisotopes	NT3	dubnium 267	NT3	lanthanum 141
NT3	carbon 12 decay radioisotopes	NT3	dubnium 269	NT3	lanthanum 142
NT4	barium 114	NT3	dysprosium 152	NT3	lead 198
NT3	carbon 14 decay radioisotopes	NT3	dysprosium 153	NT3	lead 199
NT4	radium 222	NT3	dysprosium 155	NT3	lead 200
NT4	radium 223	NT3	dysprosium 157	NT3	lead 201
NT4	radium 224	NT3	dysprosium 165	NT3	lead 202
NT4	radium 226	NT3	einsteinium 249	NT3	lead 204
NT3	magnesium 28 decay radioisotopes	NT3	einsteinium 250	NT3	lead 209
NT4	plutonium 236	NT3	einsteinium 256	NT3	lead 212
NT4	uranium 234	NT3	erbium 158	NT3	lutetium 176
NT3	neon 24 decay radioisotopes	NT3	erbium 161	NT3	lutetium 179
NT4	protactinium 231	NT3	erbium 163	NT3	magnesium 28
NT4	thorium 230	NT3	erbium 165	NT3	manganese 56
NT4	uranium 232	NT3	erbium 171	NT3	mendelevium 256
NT4	uranium 233	NT3	europium 150	NT3	mendelevium 257
NT4	uranium 234	NT3	europium 152	NT3	mendelevium 259
NT4	uranium 234	NT3	europium 157	NT3	mercury 192
NT3	silicon 32 decay radioisotopes	NT3	fermium 251	NT3	mercury 193
NT4	plutonium 238	NT3	fermium 254	NT3	mercury 195
NT2	hours living radioisotopes	NT3	fermium 255	NT3	mercury 197
NT3	actinium 224	NT3	fermium 256	NT3	molybdenum 90
NT3	actinium 228	NT3	fluorine 18	NT3	molybdenum 93
NT3	actinium 229	NT3	gadolinium 159	NT3	neodymium 138
NT3	americium 237	NT3	gallium 66	NT3	neodymium 139
NT3	americium 238	NT3	gallium 68	NT3	neodymium 141
NT3	americium 239	NT3	gallium 72	NT3	neodymium 149
NT3	americium 242	NT3	gallium 73	NT3	neptunium 236
NT3	americium 244	NT3	germanium 66	NT3	neptunium 240
NT3	americium 245	NT3	germanium 75	NT3	nickel 65
NT3	antimony 116	NT3	germanium 77	NT3	niobium 89
NT3	antimony 117	NT3	germanium 78	NT3	niobium 90
NT3	antimony 118	NT3	gold 191	NT3	niobium 96
NT3	antimony 128	NT3	gold 192	NT3	niobium 97
NT3	antimony 129	NT3	gold 193	NT3	osmium 181
NT3	argon 41	NT3	gold 196	NT3	osmium 182
NT3	arsenic 78	NT3	gold 200	NT3	osmium 183
NT3	astatine 207	NT3	hafnium 170	NT3	osmium 189
NT3	astatine 208	NT3	hafnium 171	NT3	osmium 191
NT3	astatine 209	NT3	hafnium 173	NT3	palladium 101
NT3	astatine 210	NT3	hafnium 180	NT3	palladium 109
NT3	astatine 211	NT3	hafnium 182	NT3	palladium 111
NT3	barium 126	NT3	hafnium 183	NT3	palladium 112
NT3	barium 129	NT3	hafnium 184	NT3	platinum 185
NT3	barium 139	NT3	hassium 276	NT3	platinum 186
NT3	berkelium 243	NT3	holmium 160	NT3	platinum 187
NT3	berkelium 244	NT3	holmium 161	NT3	platinum 189
NT3	berkelium 248	NT3	holmium 162	NT3	platinum 197
NT3	berkelium 250	NT3	holmium 167	NT3	platinum 200
NT3	bismuth 201	NT3	indium 109	NT3	plutonium 234
NT3	bismuth 202	NT3	indium 110	NT3	plutonium 243
NT3	bismuth 203	NT3	indium 113	NT3	plutonium 245
NT3	bismuth 204	NT3	indium 115	NT3	polonium 204
NT3	bismuth 212	NT3	indium 117	NT3	polonium 205
NT3	bohrium 273	NT3	iodine 120	NT3	polonium 207
NT3	bohrium 274	NT3	iodine 121	NT3	potassium 42
NT3	bromine 75	NT3	iodine 123	NT3	potassium 43
NT3	bromine 76	NT3	iodine 130	NT3	praseodymium 137
NT3	bromine 80	NT3	iodine 132	NT3	praseodymium 138
NT3	bromine 83	NT3	iodine 133	NT3	praseodymium 139
NT3	cadmium 107	NT3	iodine 135	NT3	praseodymium 142
NT3	cadmium 117	NT3	iridium 184	NT3	praseodymium 145
NT3	californium 247	NT3	iridium 185	NT3	promethium 150
NT3	californium 255	NT3	iridium 186	NT3	protactinium 228
NT3	cerium 132	NT3	iridium 187	NT3	protactinium 234
NT3	cerium 133	NT3	iridium 190	NT3	radium 230
NT3	cerium 135	NT3	iridium 194	NT3	radon 210
NT3	cerium 137	NT3	iridium 195	NT3	radon 211
NT3	cesium 127	NT3	iridium 196	NT3	radon 224
NT3	cesium 134	NT3	iron 52	NT3	rhenium 181
NT3	chromium 48	NT3	krypton 76	NT3	rhenium 182
NT3	cobalt 55	NT3	krypton 77	NT3	rhenium 188
NT3	cobalt 58	NT3	krypton 83	NT3	rhenium 190
NT3	cobalt 61	NT3	krypton 85	NT3	rhodium 100
NT3	copper 61	NT3	krypton 87	NT3	rhodium 106
NT3	copper 64	NT3	krypton 88	NT3	rhodium 99

<b>NT3</b>	rubidium 81	<b>NT3</b>	actinium 227	<b>NT3</b>	palladium 112
<b>NT3</b>	rubidium 82	<b>NT3</b>	antimony 119	<b>NT3</b>	platinum 193
<b>NT3</b>	ruthenium 105	<b>NT3</b>	antimony 122	<b>NT3</b>	platinum 195
<b>NT3</b>	ruthenium 95	<b>NT3</b>	antimony 124	<b>NT3</b>	platinum 197
<b>NT3</b>	samarium 142	<b>NT3</b>	antimony 126	<b>NT3</b>	platinum 199
<b>NT3</b>	samarium 156	<b>NT3</b>	astatine 212	<b>NT3</b>	plutonium 235
<b>NT3</b>	scandium 43	<b>NT3</b>	barium 131	<b>NT3</b>	plutonium 237
<b>NT3</b>	scandium 44	<b>NT3</b>	barium 133	<b>NT3</b>	polonium 199
<b>NT3</b>	selenium 73	<b>NT3</b>	barium 135	<b>NT3</b>	polonium 201
<b>NT3</b>	silicon 31	<b>NT3</b>	berkelium 243	<b>NT3</b>	polonium 202
<b>NT3</b>	silver 103	<b>NT3</b>	bromine 77	<b>NT3</b>	polonium 203
<b>NT3</b>	silver 104	<b>NT3</b>	bromine 80	<b>NT3</b>	polonium 205
<b>NT3</b>	silver 112	<b>NT3</b>	bromine 82	<b>NT3</b>	polonium 206
<b>NT3</b>	silver 113	<b>NT3</b>	cadmium 111	<b>NT3</b>	polonium 207
<b>NT3</b>	sodium 24	<b>NT3</b>	cadmium 113	<b>NT3</b>	praseodymium 142
<b>NT3</b>	strontium 80	<b>NT3</b>	californium 247	<b>NT3</b>	promethium 145
<b>NT3</b>	strontium 85	<b>NT3</b>	californium 250	<b>NT3</b>	radium 213
<b>NT3</b>	strontium 87	<b>NT3</b>	cerium 133	<b>NT3</b>	radium 225
<b>NT3</b>	strontium 91	<b>NT3</b>	cerium 137	<b>NT3</b>	radium 228
<b>NT3</b>	strontium 92	<b>NT3</b>	cesium 123	<b>NT3</b>	radium 230
<b>NT3</b>	sulfur 38	<b>NT3</b>	cesium 134	<b>NT3</b>	radon 210
<b>NT3</b>	tantalum 173	<b>NT3</b>	cesium 138	<b>NT3</b>	radon 211
<b>NT3</b>	tantalum 174	<b>NT3</b>	cobalt 58	<b>NT3</b>	rhenium 183
<b>NT3</b>	tantalum 175	<b>NT3</b>	cobalt 60	<b>NT3</b>	rhenium 184
<b>NT3</b>	tantalum 176	<b>NT3</b>	dysprosium 159	<b>NT3</b>	rhenium 188
<b>NT3</b>	tantalum 178	<b>NT3</b>	einsteinium 254	<b>NT3</b>	rhenium 189
<b>NT3</b>	tantalum 180	<b>NT3</b>	erbium 156	<b>NT3</b>	rhodium 100
<b>NT3</b>	tantalum 184	<b>NT3</b>	erbium 169	<b>NT3</b>	rhodium 101
<b>NT3</b>	technetium 93	<b>NT3</b>	germanium 73	<b>NT3</b>	rhodium 103
<b>NT3</b>	technetium 94	<b>NT3</b>	germanium 75	<b>NT3</b>	rhodium 105
<b>NT3</b>	technetium 95	<b>NT3</b>	gold 191	<b>NT3</b>	rhodium 96
<b>NT3</b>	technetium 99	<b>NT3</b>	gold 193	<b>NT3</b>	rubidium 81
<b>NT3</b>	tellurium 116	<b>NT3</b>	gold 195	<b>NT3</b>	samarium 145
<b>NT3</b>	tellurium 117	<b>NT3</b>	gold 196	<b>NT3</b>	samarium 151
<b>NT3</b>	tellurium 119	<b>NT3</b>	gold 197	<b>NT3</b>	scandium 46
<b>NT3</b>	tellurium 127	<b>NT3</b>	hafnium 178	<b>NT3</b>	selenium 79
<b>NT3</b>	tellurium 129	<b>NT3</b>	hafnium 179	<b>NT3</b>	selenium 81
<b>NT3</b>	terbium 147	<b>NT3</b>	hafnium 180	<b>NT3</b>	silver 103
<b>NT3</b>	terbium 148	<b>NT3</b>	holmium 158	<b>NT3</b>	silver 105
<b>NT3</b>	terbium 149	<b>NT3</b>	holmium 160	<b>NT3</b>	silver 107
<b>NT3</b>	terbium 150	<b>NT3</b>	holmium 164	<b>NT3</b>	silver 109
<b>NT3</b>	terbium 151	<b>NT3</b>	indium 112	<b>NT3</b>	silver 111
<b>NT3</b>	terbium 152	<b>NT3</b>	indium 114	<b>NT3</b>	silver 99
<b>NT3</b>	terbium 154	<b>NT3</b>	indium 115	<b>NT3</b>	tantalum 182
<b>NT3</b>	terbium 156	<b>NT3</b>	indium 116	<b>NT3</b>	technetium 96
<b>NT3</b>	thallium 195	<b>NT3</b>	indium 121	<b>NT3</b>	technetium 97
<b>NT3</b>	thallium 196	<b>NT3</b>	iodine 125	<b>NT3</b>	technetium 99
<b>NT3</b>	thallium 197	<b>NT3</b>	iodine 129	<b>NT3</b>	tellurium 121
<b>NT3</b>	thallium 198	<b>NT3</b>	iodine 130	<b>NT3</b>	tellurium 123
<b>NT3</b>	thallium 199	<b>NT3</b>	iodine 132	<b>NT3</b>	tellurium 125
<b>NT3</b>	thulium 163	<b>NT3</b>	iodine 133	<b>NT3</b>	terbium 151
<b>NT3</b>	thulium 166	<b>NT3</b>	iridium 190	<b>NT3</b>	terbium 157
<b>NT3</b>	thulium 173	<b>NT3</b>	iridium 191	<b>NT3</b>	terbium 158
<b>NT3</b>	tin 110	<b>NT3</b>	iridium 192	<b>NT3</b>	thallium 198
<b>NT3</b>	tin 127	<b>NT3</b>	iridium 193	<b>NT3</b>	thorium 234
<b>NT3</b>	titanium 45	<b>NT3</b>	krypton 79	<b>NT3</b>	thulium 159
<b>NT3</b>	tungsten 176	<b>NT3</b>	krypton 83	<b>NT3</b>	thulium 161
<b>NT3</b>	tungsten 177	<b>NT3</b>	lead 199	<b>NT3</b>	tin 113
<b>NT3</b>	uranium 240	<b>NT3</b>	lead 202	<b>NT3</b>	tin 119
<b>NT3</b>	xenon 122	<b>NT3</b>	lutetium 169	<b>NT3</b>	tin 121
<b>NT3</b>	xenon 123	<b>NT3</b>	lutetium 170	<b>NT3</b>	tungsten 176
<b>NT3</b>	xenon 125	<b>NT3</b>	lutetium 171	<b>NT3</b>	tungsten 181
<b>NT3</b>	xenon 135	<b>NT3</b>	lutetium 172	<b>NT3</b>	tungsten 185
<b>NT3</b>	ytterbium 164	<b>NT3</b>	lutetium 176	<b>NT3</b>	uranium 230
<b>NT3</b>	ytterbium 177	<b>NT3</b>	mercury 193	<b>NT3</b>	uranium 235
<b>NT3</b>	ytterbium 178	<b>NT3</b>	mercury 195	<b>NT3</b>	uranium 240
<b>NT3</b>	yttrium 85	<b>NT3</b>	mercury 197	<b>NT3</b>	xenon 125
<b>NT3</b>	yttrium 86	<b>NT3</b>	mercury 199	<b>NT3</b>	xenon 129
<b>NT3</b>	yttrium 87	<b>NT3</b>	molybdenum 93	<b>NT3</b>	xenon 131
<b>NT3</b>	yttrium 90	<b>NT3</b>	neodymium 147	<b>NT3</b>	xenon 133
<b>NT3</b>	yttrium 92	<b>NT3</b>	neptunium 236	<b>NT3</b>	ytterbium 164
<b>NT3</b>	yttrium 93	<b>NT3</b>	niobium 91	<b>NT3</b>	ytterbium 165
<b>NT3</b>	zinc 62	<b>NT3</b>	niobium 93	<b>NT3</b>	ytterbium 166
<b>NT3</b>	zinc 69	<b>NT3</b>	niobium 94	<b>NT3</b>	ytterbium 177
<b>NT3</b>	zinc 71	<b>NT3</b>	osmium 180	<b>NT3</b>	yttrium 86
<b>NT3</b>	zirconium 86	<b>NT3</b>	osmium 189	<b>NT2</b>	isomeric transition isotopes
<b>NT3</b>	zirconium 87	<b>NT3</b>	osmium 190	<b>NT3</b>	actinium 222
<b>NT3</b>	zirconium 97	<b>NT3</b>	osmium 191	<b>NT3</b>	aluminium 24
<b>NT2</b>	internal conversion radioisotopes	<b>NT3</b>	osmium 194	<b>NT3</b>	americium 242



NT3	antimony 113	NT3	gold 195	NT3	molybdenum 89
NT3	antimony 117	NT3	gold 196	NT3	molybdenum 91
NT3	antimony 122	NT3	gold 197	NT3	molybdenum 92
NT3	antimony 124	NT3	gold 198	NT3	molybdenum 93
NT3	antimony 126	NT3	gold 200	NT3	molybdenum 94
NT3	antimony 131	NT3	hafnium 156	NT3	neodymium 137
NT3	arsenic 75	NT3	hafnium 177	NT3	neodymium 139
NT3	astatine 202	NT3	hafnium 178	NT3	neodymium 141
NT3	barium 127	NT3	hafnium 179	NT3	neptunium 237
NT3	barium 131	NT3	hafnium 180	NT3	niobium 86
NT3	barium 133	NT3	hafnium 182	NT3	niobium 90
NT3	barium 135	NT3	holmium 148	NT3	niobium 91
NT3	barium 136	NT3	holmium 156	NT3	niobium 93
NT3	barium 137	NT3	holmium 158	NT3	niobium 94
NT3	barium 138	NT3	holmium 159	NT3	niobium 95
NT3	bismuth 184	NT3	holmium 160	NT3	niobium 97
NT3	bismuth 187	NT3	holmium 161	NT3	niobium 254
NT3	bismuth 198	NT3	holmium 162	NT3	osmium 182
NT3	bismuth 201	NT3	holmium 163	NT3	osmium 183
NT3	bismuth 208	NT3	holmium 164	NT3	osmium 189
NT3	bismuth 211	NT3	holmium 168	NT3	osmium 190
NT3	bohrium 266	NT3	indium 104	NT3	osmium 191
NT3	bohrium 267	NT3	indium 107	NT3	osmium 192
NT3	bohrium 272	NT3	indium 109	NT3	palladium 107
NT3	bromine 76	NT3	indium 111	NT3	palladium 109
NT3	bromine 77	NT3	indium 112	NT3	palladium 111
NT3	bromine 79	NT3	indium 113	NT3	palladium 117
NT3	bromine 80	NT3	indium 114	NT3	platinum 184
NT3	bromine 82	NT3	indium 115	NT3	platinum 193
NT3	bromine 83	NT3	indium 116	NT3	platinum 195
NT3	cadmium 100	NT3	indium 117	NT3	platinum 197
NT3	cadmium 111	NT3	indium 118	NT3	platinum 199
NT3	cadmium 113	NT3	indium 119	NT3	plutonium 237
NT3	cerium 135	NT3	indium 121	NT3	polonium 201
NT3	cerium 137	NT3	iodine 116	NT3	polonium 203
NT3	cerium 138	NT3	iodine 121	NT3	polonium 207
NT3	cerium 139	NT3	iodine 122	NT3	polonium 210
NT3	cesium 121	NT3	iodine 130	NT3	potassium 40
NT3	cesium 123	NT3	iodine 132	NT3	praseodymium 142
NT3	cesium 134	NT3	iodine 133	NT3	praseodymium 144
NT3	cesium 135	NT3	iodine 134	NT3	promethium 148
NT3	cesium 136	NT3	iridium 190	NT3	protactinium 234
NT3	cesium 138	NT3	iridium 191	NT3	radium 213
NT3	chlorine 34	NT3	iridium 192	NT3	radon 197
NT3	chlorine 38	NT3	iridium 193	NT3	radon 210
NT3	cobalt 58	NT3	iridium 194	NT3	radon 211
NT3	cobalt 60	NT3	iron 53	NT3	rhenium 160
NT3	copper 68	NT3	krypton 79	NT3	rhenium 167
NT3	darmstadtium 271	NT3	krypton 81	NT3	rhenium 169
NT3	dubnium 267	NT3	krypton 83	NT3	rhenium 184
NT3	dysprosium 140	NT3	krypton 84	NT3	rhenium 186
NT3	dysprosium 147	NT3	krypton 85	NT3	rhenium 188
NT3	dysprosium 149	NT3	krypton 86	NT3	rhenium 190
NT3	dysprosium 165	NT3	lanthanum 132	NT3	rhenium 194
NT3	erbium 151	NT3	lead 194	NT3	rhenium 196
NT3	erbium 167	NT3	lead 197	NT3	rhodium 100
NT3	europium 141	NT3	lead 199	NT3	rhodium 101
NT3	europium 152	NT3	lead 200	NT3	rhodium 103
NT3	europium 154	NT3	lead 201	NT3	rhodium 104
NT3	fermium 250	NT3	lead 202	NT3	rhodium 105
NT3	fermium 256	NT3	lead 203	NT3	rhodium 95
NT3	fluorine 18	NT3	lead 204	NT3	rhodium 96
NT3	francium 206	NT3	lead 205	NT3	rhodium 97
NT3	francium 211	NT3	lead 207	NT3	rubidium 76
NT3	francium 212	NT3	lutetium 153	NT3	rubidium 78
NT3	francium 213	NT3	lutetium 154	NT3	rubidium 81
NT3	francium 218	NT3	lutetium 161	NT3	rubidium 84
NT3	gadolinium 141	NT3	lutetium 169	NT3	rubidium 85
NT3	gadolinium 145	NT3	lutetium 170	NT3	rubidium 86
NT3	gadolinium 147	NT3	lutetium 171	NT3	rubidium 90
NT3	gadolinium 148	NT3	lutetium 172	NT3	ruthenium 93
NT3	gallium 72	NT3	lutetium 174	NT3	samarium 139
NT3	gallium 74	NT3	lutetium 177	NT3	samarium 141
NT3	germanium 71	NT3	manganese 60	NT3	samarium 143
NT3	germanium 73	NT3	mercury 193	NT3	scandium 44
NT3	germanium 75	NT3	mercury 195	NT3	scandium 46
NT3	germanium 77	NT3	mercury 197	NT3	scandium 50
NT3	gold 191	NT3	mercury 199	NT3	selenium 73
NT3	gold 193	NT3	mercury 201	NT3	selenium 77

NT3	selenium 79	NT3	ytterbium 175	NT3	radon 194
NT3	selenium 81	NT3	ytterbium 176	NT3	radon 215
NT3	silver 101	NT3	ytterbium 177	NT3	radon 216
NT3	silver 102	NT3	yttrium 86	NT3	radon 217
NT3	silver 103	NT3	yttrium 87	NT3	rhenium 159
NT3	silver 105	NT3	yttrium 88	NT3	rhenium 160
NT3	silver 107	NT3	yttrium 89	NT3	rhenium 194
NT3	silver 108	NT3	yttrium 90	NT3	rhodium 89
NT3	silver 109	NT3	yttrium 91	NT3	rubidium 76
NT3	silver 110	NT3	yttrium 93	NT3	ruthenium 87
NT3	silver 111	NT3	yttrium 97	NT3	rutherfordium 253
NT3	silver 113	NT3	zinc 69	NT3	rutherfordium 254
NT3	silver 116	NT3	zirconium 85	NT3	technetium 86
NT3	silver 118	NT3	zirconium 87	NT3	tellurium 106
NT3	silver 120	NT3	zirconium 89	NT3	terbium 135
NT3	silver 99	NT3	zirconium 90	NT3	thorium 217
NT3	sodium 22	NT2	microseconds living radioisotopes	NT3	thorium 219
NT3	sodium 24	NT3	actinium 216	NT3	thorium 220
NT3	strontium 83	NT3	actinium 218	NT3	thulium 144
NT3	strontium 85	NT3	actinium 219	NT3	thulium 145
NT3	strontium 87	NT3	astatine 215	NT3	tin 102
NT3	tantalum 182	NT3	astatine 216	NT3	uranium 219
NT3	technetium 102	NT3	bismuth 185	NT3	uranium 222
NT3	technetium 86	NT3	bismuth 187	NT3	uranium 223
NT3	technetium 93	NT3	bohrium 260	NT3	uranium 224
NT3	technetium 95	NT3	bohrium 263	NT3	ytterbium 153
NT3	technetium 96	NT3	cesium 112	NT2	milliseconds living radioisotopes
NT3	technetium 97	NT3	cesium 113	NT3	actinium 206
NT3	technetium 99	NT3	chromium 64	NT3	actinium 207
NT3	tellurium 121	NT3	copernicium 277	NT3	actinium 208
NT3	tellurium 123	NT3	copernicium 278	NT3	actinium 209
NT3	tellurium 125	NT3	copernicium 282	NT3	actinium 210
NT3	tellurium 127	NT3	darmstadtium 267	NT3	actinium 211
NT3	tellurium 129	NT3	darmstadtium 269	NT3	actinium 212
NT3	tellurium 131	NT3	darmstadtium 273	NT3	actinium 213
NT3	tellurium 133	NT3	dysprosium 140	NT3	actinium 215
NT3	terbium 142	NT3	europium 130	NT3	actinium 220
NT3	terbium 144	NT3	fermium 241	NT3	actinium 221
NT3	terbium 146	NT3	fermium 242	NT3	aluminium 22
NT3	terbium 151	NT3	fermium 258	NT3	aluminium 23
NT3	terbium 152	NT3	flerovium 285	NT3	aluminium 24
NT3	terbium 154	NT3	francium 212	NT3	aluminium 31
NT3	terbium 156	NT3	francium 213	NT3	aluminium 32
NT3	terbium 158	NT3	francium 217	NT3	aluminium 34
NT3	thallium 179	NT3	gold 170	NT3	antimony 104
NT3	thallium 185	NT3	gold 171	NT3	antimony 134
NT3	thallium 186	NT3	hafnium 156	NT3	antimony 136
NT3	thallium 187	NT3	hassium 264	NT3	argon 31
NT3	thallium 193	NT3	hassium 265	NT3	argon 32
NT3	thallium 195	NT3	iodine 109	NT3	argon 33
NT3	thallium 196	NT3	iodine 116	NT3	argon 34
NT3	thallium 197	NT3	iodine 121	NT3	argon 48
NT3	thallium 198	NT3	iodine 122	NT3	argon 52
NT3	thallium 201	NT3	iridium 164	NT3	argon 53
NT3	thallium 206	NT3	iridium 165	NT3	argon 55
NT3	thallium 207	NT3	krypton 84	NT3	arsenic 64
NT3	thulium 150	NT3	krypton 85	NT3	arsenic 66
NT3	thulium 162	NT3	lead 178	NT3	arsenic 75
NT3	thulium 164	NT3	lutetium 154	NT3	arsenic 84
NT3	tin 102	NT3	meitnerium 266	NT3	arsenic 86
NT3	tin 113	NT3	mendelevium 245	NT3	arsenic 87
NT3	tin 117	NT3	mercury 171	NT3	astatine 191
NT3	tin 119	NT3	mercury 172	NT3	astatine 192
NT3	tin 121	NT3	mercury 173	NT3	astatine 193
NT3	tin 129	NT3	mercury 201	NT3	astatine 194
NT3	tin 131	NT3	neon 34	NT3	astatine 195
NT3	tungsten 179	NT3	nihonium 278	NT3	astatine 196
NT3	tungsten 180	NT3	nobelium 250	NT3	astatine 197
NT3	tungsten 183	NT3	osmium 161	NT3	astatine 212
NT3	tungsten 185	NT3	platinum 166	NT3	astatine 217
NT3	uranium 235	NT3	platinum 167	NT3	barium 114
NT3	xenon 125	NT3	polonium 186	NT3	barium 115
NT3	xenon 127	NT3	polonium 188	NT3	barium 116
NT3	xenon 129	NT3	polonium 213	NT3	barium 136
NT3	xenon 131	NT3	polonium 214	NT3	barium 147
NT3	xenon 133	NT3	protactinium 218	NT3	barium 148
NT3	xenon 135	NT3	protactinium 221	NT3	barium 149
NT3	ytterbium 153	NT3	radium 217	NT3	barium 150
NT3	ytterbium 169	NT3	radium 218	NT3	beryllium 12
				NT3	beryllium 14

NT3	bismuth 184	NT3	copper 79	NT3	iodine 108
NT3	bismuth 186	NT3	copper 80	NT3	iodine 110
NT3	bismuth 187	NT3	darmstadtium 270	NT3	iodine 140
NT3	bohrium 261	NT3	darmstadtium 271	NT3	iodine 141
NT3	bohrium 262	NT3	darmstadtium 273	NT3	iodine 142
NT3	bohrium 264	NT3	darmstadtium 279	NT3	iridium 166
NT3	bohrium 265	NT3	dysprosium 138	NT3	iridium 167
NT3	boron 12	NT3	dysprosium 139	NT3	iridium 169
NT3	boron 13	NT3	dysprosium 149	NT3	iridium 194
NT3	boron 14	NT3	erbium 151	NT3	iron 45
NT3	boron 15	NT3	europium 131	NT3	iron 46
NT3	boron 17	NT3	europium 132	NT3	iron 49
NT3	boron 8	NT3	europium 133	NT3	iron 51
NT3	bromine 70	NT3	europium 134	NT3	iron 69
NT3	bromine 91	NT3	europium 165	NT3	iron 70
NT3	bromine 92	NT3	europium 166	NT3	krypton 71
NT3	bromine 93	NT3	europium 167	NT3	krypton 94
NT3	bromine 94	NT3	fermium 243	NT3	krypton 95
NT3	cadmium 125	NT3	fermium 244	NT3	krypton 99
NT3	cadmium 126	NT3	flerovium 286	NT3	lanthanum 117
NT3	cadmium 127	NT3	flerovium 287	NT3	lanthanum 150
NT3	cadmium 128	NT3	flerovium 288	NT3	lawrencium 257
NT3	cadmium 129	NT3	fluorine 24	NT3	lead 179
NT3	cadmium 130	NT3	francium 199	NT3	lead 180
NT3	cadmium 131	NT3	francium 200	NT3	lead 181
NT3	cadmium 132	NT3	francium 201	NT3	lead 182
NT3	cadmium 95	NT3	francium 202	NT3	lead 184
NT3	cadmium 96	NT3	francium 203	NT3	lead 205
NT3	calcium 36	NT3	francium 206	NT3	lead 207
NT3	calcium 37	NT3	francium 214	NT3	lithium 10
NT3	calcium 38	NT3	francium 218	NT3	lithium 11
NT3	calcium 39	NT3	francium 219	NT3	lithium 8
NT3	calcium 53	NT3	gadolinium 134	NT3	lithium 9
NT3	carbon 16	NT3	gadolinium 168	NT3	livermorium 290
NT3	carbon 17	NT3	gallium 60	NT3	livermorium 291
NT3	carbon 18	NT3	gallium 62	NT3	lutetium 150
NT3	carbon 9	NT3	gallium 72	NT3	lutetium 151
NT3	cerium 119	NT3	gallium 82	NT3	lutetium 152
NT3	cerium 120	NT3	gallium 83	NT3	lutetium 153
NT3	cerium 156	NT3	gallium 84	NT3	lutetium 155
NT3	cerium 157	NT3	germanium 60	NT3	lutetium 156
NT3	cesium 114	NT3	germanium 61	NT3	lutetium 161
NT3	cesium 116	NT3	germanium 62	NT3	lutetium 170
NT3	cesium 145	NT3	germanium 63	NT3	magnesium 19
NT3	cesium 146	NT3	germanium 71	NT3	magnesium 20
NT3	cesium 147	NT3	germanium 73	NT3	magnesium 21
NT3	cesium 148	NT3	germanium 85	NT3	magnesium 30
NT3	cesium 149	NT3	germanium 87	NT3	magnesium 31
NT3	cesium 150	NT3	gold 172	NT3	manganese 48
NT3	cesium 151	NT3	gold 173	NT3	manganese 49
NT3	chlorine 31	NT3	gold 174	NT3	manganese 50
NT3	chlorine 32	NT3	gold 175	NT3	manganese 61
NT3	chlorine 50	NT3	gold 191	NT3	manganese 62
NT3	chromium 45	NT3	hafnium 155	NT3	manganese 63
NT3	chromium 46	NT3	hafnium 156	NT3	manganese 66
NT3	chromium 47	NT3	hafnium 157	NT3	manganese 67
NT3	chromium 60	NT3	hassium 265	NT3	manganese 68
NT3	chromium 62	NT3	hassium 266	NT3	manganese 69
NT3	chromium 63	NT3	hassium 267	NT3	meitnerium 266
NT3	chromium 64	NT3	hassium 275	NT3	meitnerium 267
NT3	chromium 65	NT3	helium 6	NT3	meitnerium 268
NT3	chromium 66	NT3	helium 8	NT3	meitnerium 270
NT3	chromium 67	NT3	holmium 140	NT3	meitnerium 275
NT3	cobalt 52	NT3	holmium 141	NT3	meitnerium 276
NT3	cobalt 53	NT3	holmium 142	NT3	mendelevium 245
NT3	cobalt 54	NT3	holmium 143	NT3	mendelevium 246
NT3	cobalt 64	NT3	holmium 144	NT3	mercury 174
NT3	cobalt 66	NT3	holmium 148	NT3	mercury 175
NT3	cobalt 67	NT3	indium 114	NT3	mercury 176
NT3	cobalt 71	NT3	indium 128	NT3	mercury 177
NT3	cobalt 72	NT3	indium 129	NT3	mercury 178
NT3	cobalt 73	NT3	indium 130	NT3	molybdenum 109
NT3	copernicium 284	NT3	indium 131	NT3	molybdenum 111
NT3	copper 55	NT3	indium 132	NT3	molybdenum 83
NT3	copper 56	NT3	indium 133	NT3	molybdenum 89
NT3	copper 57	NT3	indium 134	NT3	moscovium 287
NT3	copper 76	NT3	indium 135	NT3	moscovium 288
NT3	copper 77	NT3	indium 97	NT3	neodymium 124
NT3	copper 78	NT3	indium 98	NT3	neodymium 125

NT3	neodymium 159	NT3	protactinium 213	NT3	selenium 91
NT3	neodymium 160	NT3	protactinium 214	NT3	silicon 24
NT3	neodymium 161	NT3	protactinium 215	NT3	silicon 25
NT3	neon 17	NT3	protactinium 216	NT3	silicon 35
NT3	neon 25	NT3	protactinium 217	NT3	silicon 36
NT3	neon 26	NT3	protactinium 222	NT3	silver 120
NT3	neon 31	NT3	protactinium 223	NT3	silver 121
NT3	neptunium 226	NT3	protactinium 224	NT3	silver 123
NT3	neptunium 227	NT3	radium 203	NT3	silver 124
NT3	nickel 49	NT3	radium 204	NT3	silver 125
NT3	nickel 50	NT3	radium 205	NT3	silver 126
NT3	nickel 52	NT3	radium 206	NT3	silver 127
NT3	nickel 53	NT3	radium 213	NT3	silver 128
NT3	nickel 55	NT3	radium 215	NT3	silver 129
NT3	nickel 73	NT3	radium 219	NT3	silver 130
NT3	nickel 75	NT3	radium 220	NT3	silver 94
NT3	nickel 76	NT3	radon 193	NT3	silver 95
NT3	nickel 80	NT3	radon 195	NT3	sodium 19
NT3	nihonium 283	NT3	radon 197	NT3	sodium 20
NT3	nihonium 284	NT3	radon 198	NT3	sodium 24
NT3	niobium 107	NT3	radon 199	NT3	sodium 27
NT3	niobium 108	NT3	radon 213	NT3	sodium 28
NT3	niobium 109	NT3	radon 218	NT3	sodium 29
NT3	niobium 110	NT3	rhenium 161	NT3	sodium 30
NT3	niobium 111	NT3	rhenium 162	NT3	sodium 31
NT3	niobium 113	NT3	rhenium 163	NT3	sodium 32
NT3	niobium 81	NT3	rhenium 164	NT3	sodium 33
NT3	niobium 82	NT3	rhodium 115	NT3	sodium 34
NT3	nitrogen 12	NT3	rhodium 116	NT3	sodium 35
NT3	nitrogen 18	NT3	rhodium 118	NT3	strontium 100
NT3	nitrogen 19	NT3	rhodium 120	NT3	strontium 101
NT3	nobelium 251	NT3	rhodium 121	NT3	strontium 102
NT3	nobelium 254	NT3	rhodium 122	NT3	strontium 75
NT3	nobelium 258	NT3	rhodium 92	NT3	strontium 97
NT3	osmium 162	NT3	roentgenium 272	NT3	strontium 98
NT3	osmium 164	NT3	roentgenium 273	NT3	strontium 99
NT3	osmium 165	NT3	roentgenium 274	NT3	sulfur 26
NT3	osmium 166	NT3	roentgenium 279	NT3	sulfur 28
NT3	osmium 167	NT3	rubidium 100	NT3	sulfur 29
NT3	oxygen 13	NT3	rubidium 74	NT3	tantalum 156
NT3	oxygen 24	NT3	rubidium 95	NT3	tantalum 157
NT3	palladium 117	NT3	rubidium 96	NT3	tantalum 158
NT3	palladium 119	NT3	rubidium 97	NT3	tantalum 159
NT3	palladium 120	NT3	rubidium 98	NT3	tantalum 182
NT3	palladium 92	NT3	rubidium 99	NT3	technetium 110
NT3	phosphorus 26	NT3	ruthenium 114	NT3	technetium 111
NT3	phosphorus 27	NT3	ruthenium 115	NT3	technetium 112
NT3	phosphorus 28	NT3	ruthenium 116	NT3	technetium 113
NT3	phosphorus 38	NT3	ruthenium 117	NT3	technetium 114
NT3	platinum 168	NT3	ruthenium 118	NT3	technetium 115
NT3	platinum 169	NT3	rutherfordium 254	NT3	technetium 116
NT3	platinum 170	NT3	rutherfordium 256	NT3	technetium 117
NT3	platinum 171	NT3	rutherfordium 258	NT3	technetium 85
NT3	platinum 172	NT3	rutherfordium 260	NT3	technetium 86
NT3	platinum 173	NT3	rutherfordium 262	NT3	tellurium 107
NT3	platinum 174	NT3	samarium 128	NT3	terbium 136
NT3	platinum 184	NT3	samarium 129	NT3	terbium 137
NT3	plutonium 230	NT3	samarium 164	NT3	terbium 138
NT3	polonium 187	NT3	samarium 165	NT3	terbium 142
NT3	polonium 189	NT3	scandium 40	NT3	terbium 146
NT3	polonium 190	NT3	scandium 41	NT3	terbium 171
NT3	polonium 191	NT3	scandium 42	NT3	thallium 176
NT3	polonium 192	NT3	scandium 50	NT3	thallium 177
NT3	polonium 193	NT3	scandium 56	NT3	thallium 178
NT3	polonium 194	NT3	scandium 57	NT3	thallium 179
NT3	polonium 211	NT3	scandium 58	NT3	thallium 183
NT3	polonium 215	NT3	scandium 59	NT3	thorium 209
NT3	polonium 216	NT3	scandium 60	NT3	thorium 210
NT3	potassium 35	NT3	seaborgium 258	NT3	thorium 211
NT3	potassium 36	NT3	seaborgium 259	NT3	thorium 212
NT3	potassium 50	NT3	seaborgium 260	NT3	thorium 213
NT3	potassium 51	NT3	seaborgium 261	NT3	thorium 214
NT3	potassium 52	NT3	seaborgium 262	NT3	thorium 216
NT3	potassium 53	NT3	seaborgium 263	NT3	thorium 221
NT3	potassium 54	NT3	seaborgium 264	NT3	thorium 222
NT3	praseodymium 157	NT3	selenium 65	NT3	thorium 223
NT3	praseodymium 158	NT3	selenium 66	NT3	thulium 146
NT3	praseodymium 159	NT3	selenium 67	NT3	thulium 147
NT3	protactinium 212	NT3	selenium 89	NT3	thulium 150

<b>NT3</b>	tin 135	<b>NT3</b>	antimony 118	<b>NT3</b>	californium 242
<b>NT3</b>	tin 136	<b>NT3</b>	antimony 120	<b>NT3</b>	californium 243
<b>NT3</b>	tin 137	<b>NT3</b>	antimony 122	<b>NT3</b>	californium 244
<b>NT3</b>	tin 99	<b>NT3</b>	antimony 124	<b>NT3</b>	californium 245
<b>NT3</b>	titanium 39	<b>NT3</b>	antimony 126	<b>NT3</b>	californium 256
<b>NT3</b>	titanium 40	<b>NT3</b>	antimony 128	<b>NT3</b>	carbon 11
<b>NT3</b>	titanium 41	<b>NT3</b>	antimony 129	<b>NT3</b>	cerium 128
<b>NT3</b>	titanium 42	<b>NT3</b>	antimony 130	<b>NT3</b>	cerium 129
<b>NT3</b>	titanium 43	<b>NT3</b>	antimony 131	<b>NT3</b>	cerium 130
<b>NT3</b>	titanium 58	<b>NT3</b>	antimony 132	<b>NT3</b>	cerium 131
<b>NT3</b>	titanium 59	<b>NT3</b>	antimony 133	<b>NT3</b>	cerium 145
<b>NT3</b>	titanium 60	<b>NT3</b>	argon 43	<b>NT3</b>	cerium 146
<b>NT3</b>	titanium 61	<b>NT3</b>	argon 44	<b>NT3</b>	cesium 120
<b>NT3</b>	tungsten 157	<b>NT3</b>	arsenic 68	<b>NT3</b>	cesium 121
<b>NT3</b>	tungsten 159	<b>NT3</b>	arsenic 69	<b>NT3</b>	cesium 122
<b>NT3</b>	tungsten 160	<b>NT3</b>	arsenic 70	<b>NT3</b>	cesium 123
<b>NT3</b>	tungsten 161	<b>NT3</b>	arsenic 79	<b>NT3</b>	cesium 125
<b>NT3</b>	uranium 217	<b>NT3</b>	astatine 201	<b>NT3</b>	cesium 126
<b>NT3</b>	uranium 218	<b>NT3</b>	astatine 202	<b>NT3</b>	cesium 128
<b>NT3</b>	uranium 225	<b>NT3</b>	astatine 203	<b>NT3</b>	cesium 130
<b>NT3</b>	uranium 226	<b>NT3</b>	astatine 204	<b>NT3</b>	cesium 135
<b>NT3</b>	vanadium 42	<b>NT3</b>	astatine 205	<b>NT3</b>	cesium 138
<b>NT3</b>	vanadium 44	<b>NT3</b>	astatine 206	<b>NT3</b>	cesium 139
<b>NT3</b>	vanadium 45	<b>NT3</b>	astatine 220	<b>NT3</b>	cesium 140
<b>NT3</b>	vanadium 46	<b>NT3</b>	astatine 221	<b>NT3</b>	chlorine 34
<b>NT3</b>	vanadium 64	<b>NT3</b>	barium 122	<b>NT3</b>	chlorine 38
<b>NT3</b>	vanadium 65	<b>NT3</b>	barium 123	<b>NT3</b>	chlorine 39
<b>NT3</b>	xenon 109	<b>NT3</b>	barium 124	<b>NT3</b>	chlorine 40
<b>NT3</b>	xenon 110	<b>NT3</b>	barium 125	<b>NT3</b>	chromium 49
<b>NT3</b>	xenon 111	<b>NT3</b>	barium 127	<b>NT3</b>	chromium 55
<b>NT3</b>	xenon 143	<b>NT3</b>	barium 131	<b>NT3</b>	chromium 56
<b>NT3</b>	xenon 145	<b>NT3</b>	barium 137	<b>NT3</b>	cobalt 54
<b>NT3</b>	xenon 147	<b>NT3</b>	barium 141	<b>NT3</b>	cobalt 60
<b>NT3</b>	ytterbium 148	<b>NT3</b>	barium 142	<b>NT3</b>	cobalt 62
<b>NT3</b>	ytterbium 149	<b>NT3</b>	berkelium 238	<b>NT3</b>	copernicium 283
<b>NT3</b>	ytterbium 154	<b>NT3</b>	berkelium 239	<b>NT3</b>	copernicium 285
<b>NT3</b>	ytterbium 175	<b>NT3</b>	berkelium 240	<b>NT3</b>	copper 59
<b>NT3</b>	yttrium 100	<b>NT3</b>	berkelium 242	<b>NT3</b>	copper 60
<b>NT3</b>	yttrium 101	<b>NT3</b>	berkelium 251	<b>NT3</b>	copper 62
<b>NT3</b>	yttrium 102	<b>NT3</b>	berkelium 252	<b>NT3</b>	copper 66
<b>NT3</b>	yttrium 103	<b>NT3</b>	berkelium 253	<b>NT3</b>	copper 68
<b>NT3</b>	yttrium 104	<b>NT3</b>	berkelium 254	<b>NT3</b>	copper 69
<b>NT3</b>	yttrium 107	<b>NT3</b>	bismuth 193	<b>NT3</b>	curium 233
<b>NT3</b>	yttrium 108	<b>NT3</b>	bismuth 194	<b>NT3</b>	curium 234
<b>NT3</b>	yttrium 78	<b>NT3</b>	bismuth 195	<b>NT3</b>	curium 235
<b>NT3</b>	yttrium 88	<b>NT3</b>	bismuth 196	<b>NT3</b>	curium 236
<b>NT3</b>	yttrium 93	<b>NT3</b>	bismuth 197	<b>NT3</b>	curium 237
<b>NT3</b>	yttrium 97	<b>NT3</b>	bismuth 198	<b>NT3</b>	curium 251
<b>NT3</b>	yttrium 98	<b>NT3</b>	bismuth 199	<b>NT3</b>	dubnium 264
<b>NT3</b>	zinc 57	<b>NT3</b>	bismuth 200	<b>NT3</b>	dubnium 265
<b>NT3</b>	zinc 59	<b>NT3</b>	bismuth 201	<b>NT3</b>	dubnium 266
<b>NT3</b>	zinc 80	<b>NT3</b>	bismuth 211	<b>NT3</b>	dysprosium 147
<b>NT3</b>	zinc 81	<b>NT3</b>	bismuth 212	<b>NT3</b>	dysprosium 148
<b>NT3</b>	zirconium 105	<b>NT3</b>	bismuth 213	<b>NT3</b>	dysprosium 149
<b>NT3</b>	zirconium 79	<b>NT3</b>	bismuth 214	<b>NT3</b>	dysprosium 150
<b>NT3</b>	zirconium 90	<b>NT3</b>	bismuth 215	<b>NT3</b>	dysprosium 151
<b>NT2</b>	minutes living radioisotopes	<b>NT3</b>	bismuth 216	<b>NT3</b>	dysprosium 165
<b>NT3</b>	actinium 222	<b>NT3</b>	bohrium 275	<b>NT3</b>	dysprosium 167
<b>NT3</b>	actinium 223	<b>NT3</b>	bromine 72	<b>NT3</b>	dysprosium 168
<b>NT3</b>	actinium 230	<b>NT3</b>	bromine 73	<b>NT3</b>	einsteinium 245
<b>NT3</b>	actinium 231	<b>NT3</b>	bromine 74	<b>NT3</b>	einsteinium 246
<b>NT3</b>	actinium 232	<b>NT3</b>	bromine 77	<b>NT3</b>	einsteinium 247
<b>NT3</b>	actinium 233	<b>NT3</b>	bromine 78	<b>NT3</b>	einsteinium 248
<b>NT3</b>	aluminium 28	<b>NT3</b>	bromine 80	<b>NT3</b>	einsteinium 256
<b>NT3</b>	aluminium 29	<b>NT3</b>	bromine 82	<b>NT3</b>	erbium 154
<b>NT3</b>	americium 233	<b>NT3</b>	bromine 84	<b>NT3</b>	erbium 155
<b>NT3</b>	americium 234	<b>NT3</b>	bromine 85	<b>NT3</b>	erbium 156
<b>NT3</b>	americium 235	<b>NT3</b>	cadmium 100	<b>NT3</b>	erbium 157
<b>NT3</b>	americium 236	<b>NT3</b>	cadmium 101	<b>NT3</b>	erbium 159
<b>NT3</b>	americium 244	<b>NT3</b>	cadmium 102	<b>NT3</b>	erbium 173
<b>NT3</b>	americium 246	<b>NT3</b>	cadmium 103	<b>NT3</b>	erbium 174
<b>NT3</b>	americium 247	<b>NT3</b>	cadmium 104	<b>NT3</b>	europium 142
<b>NT3</b>	americium 248	<b>NT3</b>	cadmium 105	<b>NT3</b>	europium 143
<b>NT3</b>	americium 249	<b>NT3</b>	cadmium 111	<b>NT3</b>	europium 154
<b>NT3</b>	antimony 111	<b>NT3</b>	cadmium 118	<b>NT3</b>	europium 158
<b>NT3</b>	antimony 113	<b>NT3</b>	cadmium 119	<b>NT3</b>	europium 159
<b>NT3</b>	antimony 114	<b>NT3</b>	calcium 49	<b>NT3</b>	fermium 249
<b>NT3</b>	antimony 115	<b>NT3</b>	californium 240	<b>NT3</b>	fermium 250
<b>NT3</b>	antimony 116	<b>NT3</b>	californium 241	<b>NT3</b>	fluorine 17

NT3	francium 210	NT3	iridium 179	NT3	molybdenum 103
NT3	francium 211	NT3	iridium 180	NT3	molybdenum 104
NT3	francium 212	NT3	iridium 181	NT3	molybdenum 88
NT3	francium 221	NT3	iridium 182	NT3	molybdenum 89
NT3	francium 222	NT3	iridium 183	NT3	molybdenum 91
NT3	francium 223	NT3	iridium 192	NT3	neodymium 132
NT3	francium 224	NT3	iridium 197	NT3	neodymium 133
NT3	francium 225	NT3	iron 53	NT3	neodymium 134
NT3	francium 227	NT3	iron 61	NT3	neodymium 135
NT3	gadolinium 142	NT3	iron 62	NT3	neodymium 136
NT3	gadolinium 143	NT3	krypton 74	NT3	neodymium 137
NT3	gadolinium 144	NT3	krypton 75	NT3	neodymium 139
NT3	gadolinium 145	NT3	krypton 89	NT3	neodymium 141
NT3	gadolinium 161	NT3	lanthanum 125	NT3	neodymium 151
NT3	gadolinium 162	NT3	lanthanum 126	NT3	neodymium 152
NT3	gadolinium 163	NT3	lanthanum 127	NT3	neon 24
NT3	gallium 64	NT3	lanthanum 128	NT3	neptunium 229
NT3	gallium 65	NT3	lanthanum 129	NT3	neptunium 230
NT3	gallium 70	NT3	lanthanum 130	NT3	neptunium 231
NT3	gallium 74	NT3	lanthanum 131	NT3	neptunium 232
NT3	gallium 75	NT3	lanthanum 132	NT3	neptunium 233
NT3	germanium 64	NT3	lanthanum 134	NT3	neptunium 240
NT3	germanium 67	NT3	lanthanum 136	NT3	neptunium 241
NT3	gold 185	NT3	lanthanum 143	NT3	neptunium 242
NT3	gold 186	NT3	lawrencium 260	NT3	neptunium 243
NT3	gold 187	NT3	lead 190	NT3	neptunium 244
NT3	gold 188	NT3	lead 191	NT3	niobium 85
NT3	gold 189	NT3	lead 192	NT3	niobium 86
NT3	gold 190	NT3	lead 193	NT3	niobium 87
NT3	gold 200	NT3	lead 194	NT3	niobium 88
NT3	gold 201	NT3	lead 195	NT3	niobium 94
NT3	hafnium 164	NT3	lead 196	NT3	niobium 98
NT3	hafnium 165	NT3	lead 197	NT3	niobium 99
NT3	hafnium 166	NT3	lead 199	NT3	nitrogen 13
NT3	hafnium 167	NT3	lead 201	NT3	nobelium 253
NT3	hafnium 168	NT3	lead 211	NT3	nobelium 255
NT3	hafnium 169	NT3	lead 213	NT3	nobelium 259
NT3	hafnium 177	NT3	lead 214	NT3	osmium 175
NT3	hassium 274	NT3	lutetium 161	NT3	osmium 176
NT3	holmium 150	NT3	lutetium 162	NT3	osmium 177
NT3	holmium 152	NT3	lutetium 163	NT3	osmium 178
NT3	holmium 153	NT3	lutetium 164	NT3	osmium 179
NT3	holmium 154	NT3	lutetium 165	NT3	osmium 180
NT3	holmium 155	NT3	lutetium 166	NT3	osmium 181
NT3	holmium 156	NT3	lutetium 167	NT3	osmium 190
NT3	holmium 157	NT3	lutetium 168	NT3	osmium 195
NT3	holmium 158	NT3	lutetium 169	NT3	osmium 196
NT3	holmium 159	NT3	lutetium 171	NT3	osmium 197
NT3	holmium 160	NT3	lutetium 172	NT3	oxygen 14
NT3	holmium 162	NT3	lutetium 178	NT3	oxygen 15
NT3	holmium 164	NT3	lutetium 180	NT3	palladium 109
NT3	holmium 168	NT3	lutetium 181	NT3	palladium 111
NT3	holmium 169	NT3	lutetium 182	NT3	palladium 113
NT3	holmium 170	NT3	lutetium 187	NT3	palladium 114
NT3	indium 103	NT3	magnesium 27	NT3	palladium 96
NT3	indium 104	NT3	manganese 50	NT3	palladium 97
NT3	indium 105	NT3	manganese 51	NT3	palladium 98
NT3	indium 106	NT3	manganese 52	NT3	palladium 99
NT3	indium 107	NT3	manganese 57	NT3	phosphorus 30
NT3	indium 108	NT3	manganese 58	NT3	platinum 182
NT3	indium 109	NT3	meitnerium 265	NT3	platinum 183
NT3	indium 111	NT3	meitnerium 279	NT3	platinum 184
NT3	indium 112	NT3	mendelevium 251	NT3	platinum 185
NT3	indium 114	NT3	mendelevium 252	NT3	platinum 199
NT3	indium 116	NT3	mendelevium 253	NT3	platinum 201
NT3	indium 117	NT3	mendelevium 254	NT3	plutonium 232
NT3	indium 118	NT3	mendelevium 255	NT3	plutonium 233
NT3	indium 119	NT3	mendelevium 258	NT3	plutonium 235
NT3	indium 121	NT3	mercury 186	NT3	polonium 198
NT3	iodine 115	NT3	mercury 187	NT3	polonium 199
NT3	iodine 117	NT3	mercury 188	NT3	polonium 200
NT3	iodine 118	NT3	mercury 189	NT3	polonium 201
NT3	iodine 119	NT3	mercury 190	NT3	polonium 202
NT3	iodine 120	NT3	mercury 191	NT3	polonium 203
NT3	iodine 122	NT3	mercury 199	NT3	polonium 218
NT3	iodine 128	NT3	mercury 205	NT3	potassium 38
NT3	iodine 130	NT3	mercury 206	NT3	potassium 44
NT3	iodine 134	NT3	molybdenum 101	NT3	potassium 45
NT3	iodine 136	NT3	molybdenum 102	NT3	potassium 46

NT3	praseodymium 131	NT3	ruthenium 108	NT3	terbium 164
NT3	praseodymium 132	NT3	ruthenium 92	NT3	terbium 165
NT3	praseodymium 133	NT3	ruthenium 93	NT3	thallium 188
NT3	praseodymium 134	NT3	ruthenium 94	NT3	thallium 189
NT3	praseodymium 135	NT3	rutherfordium 261	NT3	thallium 190
NT3	praseodymium 136	NT3	rutherfordium 263	NT3	thallium 191
NT3	praseodymium 138	NT3	samarium 138	NT3	thallium 192
NT3	praseodymium 140	NT3	samarium 139	NT3	thallium 193
NT3	praseodymium 142	NT3	samarium 140	NT3	thallium 194
NT3	praseodymium 144	NT3	samarium 141	NT3	thallium 206
NT3	praseodymium 146	NT3	samarium 143	NT3	thallium 207
NT3	praseodymium 147	NT3	samarium 155	NT3	thallium 208
NT3	praseodymium 148	NT3	samarium 157	NT3	thallium 209
NT3	praseodymium 149	NT3	samarium 158	NT3	thallium 210
NT3	promethium 136	NT3	scandium 49	NT3	thorium 225
NT3	promethium 137	NT3	scandium 50	NT3	thorium 226
NT3	promethium 138	NT3	seaborgium 270	NT3	thorium 233
NT3	promethium 139	NT3	seaborgium 271	NT3	thorium 235
NT3	promethium 140	NT3	selenium 68	NT3	thorium 236
NT3	promethium 141	NT3	selenium 70	NT3	thorium 237
NT3	promethium 152	NT3	selenium 71	NT3	thulium 156
NT3	promethium 153	NT3	selenium 73	NT3	thulium 157
NT3	promethium 154	NT3	selenium 79	NT3	thulium 158
NT3	protactinium 226	NT3	selenium 81	NT3	thulium 159
NT3	protactinium 227	NT3	selenium 83	NT3	thulium 160
NT3	protactinium 234	NT3	selenium 84	NT3	thulium 161
NT3	protactinium 235	NT3	silver 100	NT3	thulium 162
NT3	protactinium 236	NT3	silver 101	NT3	thulium 164
NT3	protactinium 237	NT3	silver 102	NT3	thulium 174
NT3	protactinium 238	NT3	silver 104	NT3	thulium 175
NT3	radium 213	NT3	silver 105	NT3	thulium 176
NT3	radium 227	NT3	silver 106	NT3	thulium 177
NT3	radium 229	NT3	silver 108	NT3	tin 106
NT3	radium 231	NT3	silver 111	NT3	tin 107
NT3	radium 232	NT3	silver 113	NT3	tin 108
NT3	radon 204	NT3	silver 115	NT3	tin 109
NT3	radon 205	NT3	silver 116	NT3	tin 111
NT3	radon 206	NT3	silver 117	NT3	tin 113
NT3	radon 207	NT3	silver 99	NT3	tin 123
NT3	radon 208	NT3	strontium 78	NT3	tin 125
NT3	radon 209	NT3	strontium 79	NT3	tin 127
NT3	radon 212	NT3	strontium 81	NT3	tin 128
NT3	radon 221	NT3	strontium 93	NT3	tin 129
NT3	radon 223	NT3	strontium 94	NT3	tin 130
NT3	radon 225	NT3	sulfur 37	NT3	tin 131
NT3	radon 226	NT3	tantalum 167	NT3	titanium 51
NT3	rhений 173	NT3	tantalum 168	NT3	titanium 52
NT3	rhений 174	NT3	tantalum 169	NT3	tungsten 170
NT3	rhений 175	NT3	tantalum 170	NT3	tungsten 171
NT3	rhений 176	NT3	tantalum 171	NT3	tungsten 172
NT3	rhений 177	NT3	tantalum 172	NT3	tungsten 173
NT3	rhений 178	NT3	tantalum 178	NT3	tungsten 174
NT3	rhений 179	NT3	tantalum 182	NT3	tungsten 175
NT3	rhений 180	NT3	tantalum 185	NT3	tungsten 179
NT3	rhений 188	NT3	tantalum 186	NT3	tungsten 185
NT3	rhений 190	NT3	tantalum 187	NT3	tungsten 189
NT3	rhений 191	NT3	technetium 101	NT3	tungsten 190
NT3	rhodium 100	NT3	technetium 102	NT3	uranium 227
NT3	rhodium 103	NT3	technetium 104	NT3	uranium 228
NT3	rhodium 104	NT3	technetium 105	NT3	uranium 229
NT3	rhodium 107	NT3	technetium 91	NT3	uranium 235
NT3	rhodium 108	NT3	technetium 92	NT3	uranium 239
NT3	rhodium 109	NT3	technetium 93	NT3	uranium 241
NT3	rhodium 94	NT3	technetium 94	NT3	uranium 242
NT3	rhodium 95	NT3	technetium 96	NT3	vanadium 47
NT3	rhodium 96	NT3	tellurium 112	NT3	vanadium 52
NT3	rhodium 97	NT3	tellurium 113	NT3	vanadium 53
NT3	rhodium 98	NT3	tellurium 114	NT3	xenon 117
NT3	rubidium 77	NT3	tellurium 115	NT3	xenon 118
NT3	rubidium 78	NT3	tellurium 131	NT3	xenon 119
NT3	rubidium 79	NT3	tellurium 133	NT3	xenon 120
NT3	rubidium 81	NT3	tellurium 134	NT3	xenon 121
NT3	rubidium 82	NT3	terbium 147	NT3	xenon 127
NT3	rubidium 84	NT3	terbium 148	NT3	xenon 135
NT3	rubidium 86	NT3	terbium 149	NT3	xenon 137
NT3	rubidium 88	NT3	terbium 150	NT3	xenon 138
NT3	rubidium 89	NT3	terbium 152	NT3	ytterbium 158
NT3	rubidium 90	NT3	terbium 162	NT3	ytterbium 159
NT3	ruthenium 107	NT3	terbium 163	NT3	ytterbium 160

<b>NT3</b>	ytterbium 161	<b>NT3</b>	protactinium 219	<b>NT3</b>	thulium 144
<b>NT3</b>	ytterbium 162	<b>NT3</b>	protactinium 220	<b>NT3</b>	thulium 145
<b>NT3</b>	ytterbium 163	<b>NT3</b>	radium 216	<b>NT3</b>	thulium 146
<b>NT3</b>	ytterbium 165	<b>NT3</b>	radon 210	<b>NT3</b>	thulium 147
<b>NT3</b>	ytterbium 167	<b>NT3</b>	radon 211	<b>NT3</b>	vanadium 40
<b>NT3</b>	ytterbium 179	<b>NT3</b>	radon 214	<b>NT3</b>	vanadium 41
<b>NT3</b>	ytterbium 180	<b>NT3</b>	rhodium 90	<b>NT3</b>	zinc 54
<b>NT3</b>	yttrium 81	<b>NT3</b>	rhodium 91	<b>NT3</b>	zinc 55
<b>NT3</b>	yttrium 83	<b>NT3</b>	rubidium 85	<b>NT3</b>	zinc 56
<b>NT3</b>	yttrium 84	<b>NT3</b>	scandium 38	<b>NT2</b>	seconds living radioisotopes
<b>NT3</b>	yttrium 86	<b>NT3</b>	selenium 64	<b>NT3</b>	actinium 214
<b>NT3</b>	yttrium 91	<b>NT3</b>	sodium 22	<b>NT3</b>	actinium 222
<b>NT3</b>	yttrium 94	<b>NT3</b>	tellurium 105	<b>NT3</b>	actinium 234
<b>NT3</b>	yttrium 95	<b>NT3</b>	thorium 218	<b>NT3</b>	actinium 235
<b>NT3</b>	zinc 60	<b>NT3</b>	titanium 58	<b>NT3</b>	aluminium 24
<b>NT3</b>	zinc 61	<b>NT3</b>	titanium 59	<b>NT3</b>	aluminium 25
<b>NT3</b>	zinc 63	<b>NT3</b>	vanadium 61	<b>NT3</b>	aluminium 26
<b>NT3</b>	zinc 69	<b>NT3</b>	vanadium 62	<b>NT3</b>	aluminium 30
<b>NT3</b>	zinc 71	<b>NT3</b>	vanadium 63	<b>NT3</b>	americium 231
<b>NT3</b>	zinc 74	<b>NT3</b>	zirconium 109	<b>NT3</b>	americium 232
<b>NT3</b>	zirconium 81	<b>NT2</b>	neutron-deficient isotopes	<b>NT3</b>	americium 235
<b>NT3</b>	zirconium 82	<b>NT2</b>	proton decay radioisotopes	<b>NT3</b>	antimony 105
<b>NT3</b>	zirconium 84	<b>NT3</b>	aluminium 21	<b>NT3</b>	antimony 106
<b>NT3</b>	zirconium 85	<b>NT3</b>	argon 30	<b>NT3</b>	antimony 107
<b>NT3</b>	zirconium 89	<b>NT3</b>	arsenic 62	<b>NT3</b>	antimony 108
<b>NT2</b>	nanoseconds living radioisotopes	<b>NT3</b>	arsenic 63	<b>NT3</b>	antimony 109
<b>NT3</b>	actinium 217	<b>NT3</b>	arsenic 64	<b>NT3</b>	antimony 110
<b>NT3</b>	aluminium 40	<b>NT3</b>	bismuth 185	<b>NT3</b>	antimony 112
<b>NT3</b>	antimony 113	<b>NT3</b>	calcium 34	<b>NT3</b>	antimony 126
<b>NT3</b>	antimony 117	<b>NT3</b>	cesium 112	<b>NT3</b>	antimony 134
<b>NT3</b>	argon 30	<b>NT3</b>	cesium 113	<b>NT3</b>	antimony 135
<b>NT3</b>	astatine 213	<b>NT3</b>	chlorine 28	<b>NT3</b>	argon 35
<b>NT3</b>	astatine 214	<b>NT3</b>	chlorine 29	<b>NT3</b>	argon 45
<b>NT3</b>	barium 138	<b>NT3</b>	chlorine 30	<b>NT3</b>	argon 46
<b>NT3</b>	bismuth 211	<b>NT3</b>	cobalt 49	<b>NT3</b>	arsenic 67
<b>NT3</b>	bromine 83	<b>NT3</b>	cobalt 52	<b>NT3</b>	arsenic 80
<b>NT3</b>	calcium 34	<b>NT3</b>	cobalt 53	<b>NT3</b>	arsenic 81
<b>NT3</b>	carbon 21	<b>NT3</b>	copper 52	<b>NT3</b>	arsenic 82
<b>NT3</b>	chlorine 29	<b>NT3</b>	copper 53	<b>NT3</b>	arsenic 83
<b>NT3</b>	chlorine 30	<b>NT3</b>	copper 54	<b>NT3</b>	arsenic 84
<b>NT3</b>	chromium 65	<b>NT3</b>	europium 130	<b>NT3</b>	arsenic 85
<b>NT3</b>	chromium 66	<b>NT3</b>	europium 131	<b>NT3</b>	astatine 198
<b>NT3</b>	cobalt 49	<b>NT3</b>	europium 132	<b>NT3</b>	astatine 199
<b>NT3</b>	fermium 256	<b>NT3</b>	fluorine 14	<b>NT3</b>	astatine 200
<b>NT3</b>	fluorine 18	<b>NT3</b>	germanium 62	<b>NT3</b>	astatine 202
<b>NT3</b>	fluorine 28	<b>NT3</b>	gold 170	<b>NT3</b>	astatine 218
<b>NT3</b>	fluorine 30	<b>NT3</b>	gold 171	<b>NT3</b>	astatine 219
<b>NT3</b>	fluorine 31	<b>NT3</b>	holmium 140	<b>NT3</b>	astatine 222
<b>NT3</b>	francium 211	<b>NT3</b>	holmium 141	<b>NT3</b>	astatine 223
<b>NT3</b>	francium 212	<b>NT3</b>	iodine 109	<b>NT3</b>	barium 117
<b>NT3</b>	francium 213	<b>NT3</b>	iridium 164	<b>NT3</b>	barium 118
<b>NT3</b>	francium 215	<b>NT3</b>	iridium 165	<b>NT3</b>	barium 119
<b>NT3</b>	francium 216	<b>NT3</b>	iron 45	<b>NT3</b>	barium 120
<b>NT3</b>	gadolinium 136	<b>NT3</b>	lanthanum 117	<b>NT3</b>	barium 121
<b>NT3</b>	gadolinium 147	<b>NT3</b>	lutetium 150	<b>NT3</b>	barium 127
<b>NT3</b>	gadolinium 148	<b>NT3</b>	lutetium 151	<b>NT3</b>	barium 143
<b>NT3</b>	germanium 86	<b>NT3</b>	manganese 45	<b>NT3</b>	barium 144
<b>NT3</b>	germanium 88	<b>NT3</b>	nitrogen 10	<b>NT3</b>	barium 145
<b>NT3</b>	germanium 89	<b>NT3</b>	potassium 33	<b>NT3</b>	barium 146
<b>NT3</b>	krypton 86	<b>NT3</b>	potassium 34	<b>NT3</b>	berkelium 235
<b>NT3</b>	krypton 97	<b>NT3</b>	rhenium 159	<b>NT3</b>	beryllium 11
<b>NT3</b>	lead 194	<b>NT3</b>	rhenium 160	<b>NT3</b>	bismuth 189
<b>NT3</b>	lead 200	<b>NT3</b>	rubidium 71	<b>NT3</b>	bismuth 190
<b>NT3</b>	magnesium 37	<b>NT3</b>	rubidium 72	<b>NT3</b>	bismuth 191
<b>NT3</b>	magnesium 39	<b>NT3</b>	scandium 36	<b>NT3</b>	bismuth 192
<b>NT3</b>	manganese 45	<b>NT3</b>	scandium 37	<b>NT3</b>	bismuth 193
<b>NT3</b>	molybdenum 92	<b>NT3</b>	scandium 38	<b>NT3</b>	bismuth 198
<b>NT3</b>	molybdenum 94	<b>NT3</b>	scandium 39	<b>NT3</b>	bismuth 217
<b>NT3</b>	neon 33	<b>NT3</b>	selenium 66	<b>NT3</b>	bismuth 218
<b>NT3</b>	neptunium 237	<b>NT3</b>	sodium 19	<b>NT3</b>	bohrium 266
<b>NT3</b>	osmium 182	<b>NT3</b>	sulfur 26	<b>NT3</b>	bohrium 267
<b>NT3</b>	oxygen 25	<b>NT3</b>	tantalum 155	<b>NT3</b>	bohrium 271
<b>NT3</b>	oxygen 26	<b>NT3</b>	tantalum 156	<b>NT3</b>	bohrium 272
<b>NT3</b>	oxygen 27	<b>NT3</b>	tantalum 157	<b>NT3</b>	bromine 71
<b>NT3</b>	phosphorus 25	<b>NT3</b>	terbium 135	<b>NT3</b>	bromine 76
<b>NT3</b>	plutonium 237	<b>NT3</b>	terbium 137	<b>NT3</b>	bromine 79
<b>NT3</b>	polonium 210	<b>NT3</b>	terbium 138	<b>NT3</b>	bromine 86
<b>NT3</b>	polonium 212	<b>NT3</b>	thallium 176	<b>NT3</b>	bromine 87
<b>NT3</b>	potassium 40	<b>NT3</b>	thallium 177	<b>NT3</b>	bromine 88
				<b>NT3</b>	bromine 89



NT3	bromine 90	NT3	dysprosium 169	NT3	germanium 82
NT3	cadmium 120	NT3	dysprosium 170	NT3	germanium 83
NT3	cadmium 121	NT3	dysprosium 171	NT3	germanium 84
NT3	cadmium 122	NT3	einsteinium 241	NT3	gold 176
NT3	cadmium 123	NT3	einsteinium 242	NT3	gold 177
NT3	cadmium 124	NT3	einsteinium 243	NT3	gold 178
NT3	cadmium 97	NT3	einsteinium 244	NT3	gold 179
NT3	cadmium 98	NT3	erbium 146	NT3	gold 180
NT3	cadmium 99	NT3	erbium 147	NT3	gold 181
NT3	calcium 50	NT3	erbium 148	NT3	gold 182
NT3	calcium 51	NT3	erbium 149	NT3	gold 183
NT3	calcium 52	NT3	erbium 150	NT3	gold 184
NT3	californium 237	NT3	erbium 151	NT3	gold 193
NT3	californium 239	NT3	erbium 152	NT3	gold 195
NT3	carbon 10	NT3	erbium 153	NT3	gold 196
NT3	carbon 15	NT3	erbium 167	NT3	gold 197
NT3	cerium 121	NT3	erbium 176	NT3	gold 202
NT3	cerium 122	NT3	erbium 177	NT3	gold 203
NT3	cerium 123	NT3	europium 135	NT3	gold 204
NT3	cerium 124	NT3	europium 136	NT3	gold 205
NT3	cerium 125	NT3	europium 138	NT3	hafnium 154
NT3	cerium 126	NT3	europium 139	NT3	hafnium 158
NT3	cerium 127	NT3	europium 140	NT3	hafnium 159
NT3	cerium 135	NT3	europium 141	NT3	hafnium 160
NT3	cerium 139	NT3	europium 142	NT3	hafnium 161
NT3	cerium 147	NT3	europium 144	NT3	hafnium 162
NT3	cerium 148	NT3	europium 160	NT3	hafnium 163
NT3	cerium 149	NT3	europium 161	NT3	hafnium 177
NT3	cerium 150	NT3	europium 162	NT3	hafnium 178
NT3	cerium 151	NT3	europium 163	NT3	hafnium 179
NT3	cerium 152	NT3	europium 164	NT3	hafnium 187
NT3	cesium 115	NT3	fermium 245	NT3	hafnium 188
NT3	cesium 116	NT3	fermium 246	NT3	hassium 269
NT3	cesium 117	NT3	fermium 247	NT3	hassium 270
NT3	cesium 118	NT3	fermium 248	NT3	hassium 271
NT3	cesium 119	NT3	fermium 250	NT3	hassium 272
NT3	cesium 122	NT3	fermium 259	NT3	holmium 145
NT3	cesium 123	NT3	flerovium 289	NT3	holmium 146
NT3	cesium 124	NT3	fluorine 20	NT3	holmium 148
NT3	cesium 136	NT3	fluorine 21	NT3	holmium 149
NT3	cesium 141	NT3	fluorine 22	NT3	holmium 150
NT3	cesium 142	NT3	fluorine 23	NT3	holmium 151
NT3	cesium 143	NT3	francium 204	NT3	holmium 152
NT3	cesium 144	NT3	francium 205	NT3	holmium 159
NT3	chlorine 33	NT3	francium 206	NT3	holmium 161
NT3	chlorine 34	NT3	francium 207	NT3	holmium 163
NT3	chlorine 38	NT3	francium 208	NT3	holmium 170
NT3	chlorine 41	NT3	francium 209	NT3	holmium 171
NT3	chromium 57	NT3	francium 213	NT3	holmium 172
NT3	chromium 58	NT3	francium 220	NT3	holmium 173
NT3	chromium 59	NT3	francium 226	NT3	holmium 174
NT3	cobalt 63	NT3	francium 228	NT3	holmium 175
NT3	cobalt 65	NT3	francium 229	NT3	indium 101
NT3	copernicium 285	NT3	francium 230	NT3	indium 102
NT3	copper 58	NT3	francium 231	NT3	indium 104
NT3	copper 68	NT3	francium 232	NT3	indium 105
NT3	copper 70	NT3	gadolinium 135	NT3	indium 107
NT3	copper 71	NT3	gadolinium 140	NT3	indium 116
NT3	copper 72	NT3	gadolinium 141	NT3	indium 118
NT3	copper 73	NT3	gadolinium 143	NT3	indium 120
NT3	copper 74	NT3	gadolinium 164	NT3	indium 121
NT3	copper 75	NT3	gadolinium 165	NT3	indium 122
NT3	dubnium 255	NT3	gadolinium 166	NT3	indium 123
NT3	dubnium 256	NT3	gadolinium 167	NT3	indium 124
NT3	dubnium 257	NT3	gadolinium 169	NT3	indium 125
NT3	dubnium 258	NT3	gallium 63	NT3	indium 126
NT3	dubnium 259	NT3	gallium 74	NT3	indium 127
NT3	dubnium 260	NT3	gallium 76	NT3	indium 129
NT3	dubnium 261	NT3	gallium 77	NT3	indium 98
NT3	dubnium 262	NT3	gallium 78	NT3	indium 99
NT3	dubnium 263	NT3	gallium 79	NT3	iodine 111
NT3	dysprosium 140	NT3	gallium 80	NT3	iodine 112
NT3	dysprosium 141	NT3	gallium 81	NT3	iodine 113
NT3	dysprosium 142	NT3	germanium 65	NT3	iodine 114
NT3	dysprosium 143	NT3	germanium 75	NT3	iodine 116
NT3	dysprosium 144	NT3	germanium 77	NT3	iodine 133
NT3	dysprosium 145	NT3	germanium 79	NT3	iodine 136
NT3	dysprosium 146	NT3	germanium 80	NT3	iodine 137
NT3	dysprosium 147	NT3	germanium 81	NT3	iodine 138

<b>NT3</b> iodine 139	<b>NT3</b> mercury 185	<b>NT3</b> platinum 181
<b>NT3</b> iridium 170	<b>NT3</b> molybdenum 105	<b>NT3</b> platinum 183
<b>NT3</b> iridium 171	<b>NT3</b> molybdenum 106	<b>NT3</b> platinum 199
<b>NT3</b> iridium 172	<b>NT3</b> molybdenum 107	<b>NT3</b> plutonium 229
<b>NT3</b> iridium 173	<b>NT3</b> molybdenum 108	<b>NT3</b> polonium 195
<b>NT3</b> iridium 174	<b>NT3</b> molybdenum 110	<b>NT3</b> polonium 196
<b>NT3</b> iridium 175	<b>NT3</b> molybdenum 86	<b>NT3</b> polonium 197
<b>NT3</b> iridium 176	<b>NT3</b> molybdenum 87	<b>NT3</b> polonium 203
<b>NT3</b> iridium 177	<b>NT3</b> neodymium 127	<b>NT3</b> polonium 207
<b>NT3</b> iridium 178	<b>NT3</b> neodymium 129	<b>NT3</b> polonium 211
<b>NT3</b> iridium 191	<b>NT3</b> neodymium 130	<b>NT3</b> polonium 212
<b>NT3</b> iridium 196	<b>NT3</b> neodymium 131	<b>NT3</b> polonium 217
<b>NT3</b> iridium 198	<b>NT3</b> neodymium 137	<b>NT3</b> potassium 37
<b>NT3</b> iridium 199	<b>NT3</b> neodymium 153	<b>NT3</b> potassium 38
<b>NT3</b> iridium 202	<b>NT3</b> neodymium 154	<b>NT3</b> potassium 47
<b>NT3</b> iron 52	<b>NT3</b> neodymium 155	<b>NT3</b> potassium 48
<b>NT3</b> iron 63	<b>NT3</b> neodymium 156	<b>NT3</b> potassium 49
<b>NT3</b> iron 64	<b>NT3</b> neon 18	<b>NT3</b> praseodymium 124
<b>NT3</b> krypton 72	<b>NT3</b> neon 19	<b>NT3</b> praseodymium 125
<b>NT3</b> krypton 73	<b>NT3</b> neon 23	<b>NT3</b> praseodymium 126
<b>NT3</b> krypton 79	<b>NT3</b> nickel 67	<b>NT3</b> praseodymium 127
<b>NT3</b> krypton 81	<b>NT3</b> nickel 69	<b>NT3</b> praseodymium 128
<b>NT3</b> krypton 90	<b>NT3</b> nickel 70	<b>NT3</b> praseodymium 129
<b>NT3</b> krypton 91	<b>NT3</b> nickel 71	<b>NT3</b> praseodymium 130
<b>NT3</b> krypton 92	<b>NT3</b> nickel 72	<b>NT3</b> praseodymium 150
<b>NT3</b> krypton 93	<b>NT3</b> nickel 74	<b>NT3</b> praseodymium 151
<b>NT3</b> lanthanum 118	<b>NT3</b> niobium 100	<b>NT3</b> praseodymium 152
<b>NT3</b> lanthanum 119	<b>NT3</b> niobium 101	<b>NT3</b> praseodymium 153
<b>NT3</b> lanthanum 120	<b>NT3</b> niobium 102	<b>NT3</b> praseodymium 154
<b>NT3</b> lanthanum 121	<b>NT3</b> niobium 103	<b>NT3</b> promethium 128
<b>NT3</b> lanthanum 122	<b>NT3</b> niobium 104	<b>NT3</b> promethium 129
<b>NT3</b> lanthanum 123	<b>NT3</b> niobium 105	<b>NT3</b> promethium 130
<b>NT3</b> lanthanum 124	<b>NT3</b> niobium 106	<b>NT3</b> promethium 131
<b>NT3</b> lanthanum 144	<b>NT3</b> niobium 83	<b>NT3</b> promethium 132
<b>NT3</b> lanthanum 145	<b>NT3</b> niobium 84	<b>NT3</b> promethium 133
<b>NT3</b> lanthanum 146	<b>NT3</b> niobium 85	<b>NT3</b> promethium 134
<b>NT3</b> lanthanum 147	<b>NT3</b> niobium 90	<b>NT3</b> promethium 135
<b>NT3</b> lanthanum 148	<b>NT3</b> niobium 97	<b>NT3</b> promethium 140
<b>NT3</b> lanthanum 149	<b>NT3</b> niobium 98	<b>NT3</b> promethium 142
<b>NT3</b> lawrencium 252	<b>NT3</b> niobium 99	<b>NT3</b> promethium 155
<b>NT3</b> lawrencium 253	<b>NT3</b> nitrogen 16	<b>NT3</b> promethium 156
<b>NT3</b> lawrencium 254	<b>NT3</b> nitrogen 17	<b>NT3</b> promethium 157
<b>NT3</b> lawrencium 255	<b>NT3</b> nobelium 252	<b>NT3</b> promethium 158
<b>NT3</b> lawrencium 256	<b>NT3</b> nobelium 254	<b>NT3</b> promethium 159
<b>NT3</b> lawrencium 258	<b>NT3</b> nobelium 256	<b>NT3</b> protactinium 225
<b>NT3</b> lawrencium 259	<b>NT3</b> nobelium 257	<b>NT3</b> radium 207
<b>NT3</b> lead 185	<b>NT3</b> osmium 168	<b>NT3</b> radium 208
<b>NT3</b> lead 186	<b>NT3</b> osmium 169	<b>NT3</b> radium 209
<b>NT3</b> lead 187	<b>NT3</b> osmium 170	<b>NT3</b> radium 210
<b>NT3</b> lead 188	<b>NT3</b> osmium 171	<b>NT3</b> radium 211
<b>NT3</b> lead 189	<b>NT3</b> osmium 172	<b>NT3</b> radium 212
<b>NT3</b> lead 203	<b>NT3</b> osmium 173	<b>NT3</b> radium 214
<b>NT3</b> lutetium 154	<b>NT3</b> osmium 174	<b>NT3</b> radium 221
<b>NT3</b> lutetium 157	<b>NT3</b> osmium 192	<b>NT3</b> radium 222
<b>NT3</b> lutetium 158	<b>NT3</b> osmium 199	<b>NT3</b> radium 233
<b>NT3</b> lutetium 159	<b>NT3</b> osmium 200	<b>NT3</b> radium 234
<b>NT3</b> lutetium 160	<b>NT3</b> oxygen 19	<b>NT3</b> radon 200
<b>NT3</b> lutetium 183	<b>NT3</b> oxygen 20	<b>NT3</b> radon 201
<b>NT3</b> lutetium 184	<b>NT3</b> oxygen 21	<b>NT3</b> radon 202
<b>NT3</b> magnesium 22	<b>NT3</b> oxygen 22	<b>NT3</b> radon 203
<b>NT3</b> magnesium 23	<b>NT3</b> palladium 107	<b>NT3</b> radon 219
<b>NT3</b> magnesium 29	<b>NT3</b> palladium 115	<b>NT3</b> radon 220
<b>NT3</b> manganese 58	<b>NT3</b> palladium 116	<b>NT3</b> radon 227
<b>NT3</b> manganese 59	<b>NT3</b> palladium 117	<b>NT3</b> radon 228
<b>NT3</b> manganese 60	<b>NT3</b> palladium 118	<b>NT3</b> rhenium 165
<b>NT3</b> meitnerium 271	<b>NT3</b> palladium 93	<b>NT3</b> rhenium 166
<b>NT3</b> meitnerium 272	<b>NT3</b> palladium 94	<b>NT3</b> rhenium 167
<b>NT3</b> meitnerium 273	<b>NT3</b> palladium 95	<b>NT3</b> rhenium 168
<b>NT3</b> meitnerium 274	<b>NT3</b> phosphorus 29	<b>NT3</b> rhenium 169
<b>NT3</b> mendelevium 247	<b>NT3</b> phosphorus 34	<b>NT3</b> rhenium 170
<b>NT3</b> mendelevium 248	<b>NT3</b> phosphorus 35	<b>NT3</b> rhenium 171
<b>NT3</b> mendelevium 249	<b>NT3</b> phosphorus 36	<b>NT3</b> rhenium 172
<b>NT3</b> mendelevium 250	<b>NT3</b> phosphorus 37	<b>NT3</b> rhenium 192
<b>NT3</b> mercury 179	<b>NT3</b> platinum 175	<b>NT3</b> rhenium 194
<b>NT3</b> mercury 180	<b>NT3</b> platinum 176	<b>NT3</b> rhenium 195
<b>NT3</b> mercury 181	<b>NT3</b> platinum 177	<b>NT3</b> rhenium 196
<b>NT3</b> mercury 182	<b>NT3</b> platinum 178	<b>NT3</b> rhodium 104
<b>NT3</b> mercury 183	<b>NT3</b> platinum 179	<b>NT3</b> rhodium 105
<b>NT3</b> mercury 184	<b>NT3</b> platinum 180	<b>NT3</b> rhodium 106

NT3	rhodium 108	NT3	silver 98	NT3	tin 128
NT3	rhodium 110	NT3	silver 99	NT3	tin 131
NT3	rhodium 111	NT3	sodium 21	NT3	tin 132
NT3	rhodium 112	NT3	sodium 25	NT3	tin 133
NT3	rhodium 113	NT3	sodium 26	NT3	tin 134
NT3	rhodium 114	NT3	strontium 76	NT3	titanium 53
NT3	rhodium 117	NT3	strontium 77	NT3	tungsten 160
NT3	rhodium 90	NT3	strontium 83	NT3	tungsten 162
NT3	rhodium 91	NT3	strontium 95	NT3	tungsten 163
NT3	rhodium 92	NT3	strontium 96	NT3	tungsten 164
NT3	rhodium 93	NT3	sulfur 30	NT3	tungsten 165
NT3	rhodium 94	NT3	sulfur 31	NT3	tungsten 166
NT3	roentgenium 280	NT3	sulfur 39	NT3	tungsten 167
NT3	rubidium 75	NT3	sulfur 40	NT3	tungsten 168
NT3	rubidium 76	NT3	tantalum 160	NT3	tungsten 169
NT3	rubidium 80	NT3	tantalum 161	NT3	tungsten 183
NT3	rubidium 91	NT3	tantalum 162	NT3	vanadium 43
NT3	rubidium 92	NT3	tantalum 163	NT3	vanadium 54
NT3	rubidium 93	NT3	tantalum 164	NT3	vanadium 55
NT3	rubidium 94	NT3	tantalum 165	NT3	xenon 112
NT3	ruthenium 109	NT3	tantalum 166	NT3	xenon 113
NT3	ruthenium 110	NT3	tantalum 188	NT3	xenon 114
NT3	ruthenium 111	NT3	technetium 100	NT3	xenon 115
NT3	ruthenium 112	NT3	technetium 102	NT3	xenon 116
NT3	ruthenium 113	NT3	technetium 103	NT3	xenon 125
NT3	ruthenium 89	NT3	technetium 106	NT3	xenon 139
NT3	ruthenium 90	NT3	technetium 107	NT3	xenon 140
NT3	ruthenium 91	NT3	technetium 108	NT3	xenon 141
NT3	ruthenium 93	NT3	technetium 109	NT3	xenon 142
NT3	rutherfordium 253	NT3	technetium 87	NT3	xenon 144
NT3	rutherfordium 255	NT3	technetium 88	NT3	ytterbium 153
NT3	rutherfordium 257	NT3	technetium 90	NT3	ytterbium 155
NT3	rutherfordium 259	NT3	tellurium 108	NT3	ytterbium 156
NT3	rutherfordium 262	NT3	tellurium 109	NT3	ytterbium 157
NT3	samarium 130	NT3	tellurium 110	NT3	ytterbium 169
NT3	samarium 131	NT3	tellurium 111	NT3	ytterbium 176
NT3	samarium 132	NT3	tellurium 135	NT3	ytterbium 177
NT3	samarium 133	NT3	tellurium 136	NT3	yttrium 78
NT3	samarium 134	NT3	tellurium 137	NT3	yttrium 79
NT3	samarium 135	NT3	tellurium 138	NT3	yttrium 80
NT3	samarium 136	NT3	terbium 139	NT3	yttrium 82
NT3	samarium 137	NT3	terbium 140	NT3	yttrium 84
NT3	samarium 139	NT3	terbium 141	NT3	yttrium 89
NT3	samarium 159	NT3	terbium 143	NT3	yttrium 96
NT3	samarium 160	NT3	terbium 144	NT3	yttrium 97
NT3	samarium 161	NT3	terbium 145	NT3	yttrium 98
NT3	samarium 162	NT3	terbium 146	NT3	yttrium 99
NT3	scandium 42	NT3	terbium 151	NT3	zinc 73
NT3	scandium 46	NT3	terbium 158	NT3	zinc 75
NT3	scandium 51	NT3	terbium 166	NT3	zinc 76
NT3	scandium 52	NT3	terbium 167	NT3	zinc 77
NT3	seaborgium 265	NT3	terbium 168	NT3	zinc 78
NT3	seaborgium 266	NT3	terbium 169	NT3	zinc 79
NT3	seaborgium 268	NT3	terbium 170	NT3	zirconium 100
NT3	selenium 69	NT3	thallium 180	NT3	zirconium 101
NT3	selenium 77	NT3	thallium 181	NT3	zirconium 102
NT3	selenium 85	NT3	thallium 182	NT3	zirconium 103
NT3	selenium 86	NT3	thallium 184	NT3	zirconium 104
NT3	selenium 87	NT3	thallium 185	NT3	zirconium 83
NT3	selenium 88	NT3	thallium 186	NT3	zirconium 85
NT3	silicon 26	NT3	thallium 187	NT3	zirconium 87
NT3	silicon 27	NT3	thallium 195	NT3	zirconium 98
NT3	silicon 33	NT3	thallium 197	NT3	zirconium 99
NT3	silicon 34	NT3	thallium 207	NT2	spontaneous fission radioisotopes
NT3	silver 101	NT3	thorium 215	NT3	americium 237
NT3	silver 103	NT3	thorium 223	NT3	americium 238
NT3	silver 107	NT3	thorium 224	NT3	americium 239
NT3	silver 109	NT3	thulium 151	NT3	americium 240
NT3	silver 110	NT3	thulium 152	NT3	americium 241
NT3	silver 114	NT3	thulium 153	NT3	americium 242
NT3	silver 115	NT3	thulium 154	NT3	americium 243
NT3	silver 116	NT3	thulium 155	NT3	americium 244
NT3	silver 117	NT3	thulium 156	NT3	americium 245
NT3	silver 118	NT3	thulium 162	NT3	americium 246
NT3	silver 119	NT3	thulium 178	NT3	berkelium 242
NT3	silver 120	NT3	thulium 179	NT3	berkelium 243
NT3	silver 122	NT3	tin 102	NT3	berkelium 244
NT3	silver 96	NT3	tin 103	NT3	berkelium 245
NT3	silver 97	NT3	tin 105	NT3	berkelium 249

<b>NT3</b>	bohrium 261	<b>NT3</b>	rutherfordium 254	<b>NT3</b>	hafnium 178
<b>NT3</b>	bohrium 262	<b>NT3</b>	rutherfordium 255	<b>NT3</b>	hafnium 182
<b>NT3</b>	californium 237	<b>NT3</b>	rutherfordium 256	<b>NT3</b>	holmium 163
<b>NT3</b>	californium 246	<b>NT3</b>	rutherfordium 257	<b>NT3</b>	holmium 166
<b>NT3</b>	californium 248	<b>NT3</b>	rutherfordium 258	<b>NT3</b>	indium 115
<b>NT3</b>	californium 249	<b>NT3</b>	rutherfordium 259	<b>NT3</b>	iodine 129
<b>NT3</b>	californium 250	<b>NT3</b>	rutherfordium 260	<b>NT3</b>	iridium 192
<b>NT3</b>	californium 252	<b>NT3</b>	rutherfordium 261	<b>NT3</b>	iron 55
<b>NT3</b>	californium 254	<b>NT3</b>	rutherfordium 262	<b>NT3</b>	iron 60
<b>NT3</b>	californium 256	<b>NT3</b>	rutherfordium 263	<b>NT3</b>	krypton 81
<b>NT3</b>	copernicium 282	<b>NT3</b>	rutherfordium 267	<b>NT3</b>	krypton 85
<b>NT3</b>	copernicium 283	<b>NT3</b>	seaborgium 258	<b>NT3</b>	lanthanum 137
<b>NT3</b>	copernicium 284	<b>NT3</b>	seaborgium 259	<b>NT3</b>	lanthanum 138
<b>NT3</b>	curium 240	<b>NT3</b>	seaborgium 260	<b>NT3</b>	lead 202
<b>NT3</b>	curium 241	<b>NT3</b>	seaborgium 261	<b>NT3</b>	lead 205
<b>NT3</b>	curium 242	<b>NT3</b>	seaborgium 262	<b>NT3</b>	lead 210
<b>NT3</b>	curium 243	<b>NT3</b>	seaborgium 263	<b>NT3</b>	lutetium 173
<b>NT3</b>	curium 244	<b>NT3</b>	seaborgium 264	<b>NT3</b>	lutetium 174
<b>NT3</b>	curium 245	<b>NT3</b>	seaborgium 265	<b>NT3</b>	lutetium 176
<b>NT3</b>	curium 246	<b>NT3</b>	seaborgium 266	<b>NT3</b>	manganese 53
<b>NT3</b>	curium 248	<b>NT3</b>	seaborgium 268	<b>NT3</b>	mercury 194
<b>NT3</b>	curium 250	<b>NT3</b>	seaborgium 270	<b>NT3</b>	molybdenum 93
<b>NT3</b>	darmstadtium 272	<b>NT3</b>	seaborgium 271	<b>NT3</b>	neodymium 144
<b>NT3</b>	darmstadtium 279	<b>NT3</b>	seaborgium 272	<b>NT3</b>	neptunium 235
<b>NT3</b>	darmstadtium 281	<b>NT3</b>	seaborgium 273	<b>NT3</b>	neptunium 236
<b>NT3</b>	dubnium 255	<b>NT3</b>	thorium 230	<b>NT3</b>	neptunium 237
<b>NT3</b>	dubnium 256	<b>NT3</b>	thorium 232	<b>NT3</b>	nickel 59
<b>NT3</b>	dubnium 257	<b>NT3</b>	uranium 232	<b>NT3</b>	nickel 63
<b>NT3</b>	dubnium 258	<b>NT3</b>	uranium 233	<b>NT3</b>	niobium 91
<b>NT3</b>	dubnium 259	<b>NT3</b>	uranium 234	<b>NT3</b>	niobium 92
<b>NT3</b>	dubnium 260	<b>NT3</b>	uranium 235	<b>NT3</b>	niobium 93
<b>NT3</b>	dubnium 261	<b>NT3</b>	uranium 236	<b>NT3</b>	niobium 94
<b>NT3</b>	dubnium 262	<b>NT3</b>	uranium 238	<b>NT3</b>	osmium 186
<b>NT3</b>	dubnium 263	<b>NT2</b>	years living radioisotopes	<b>NT3</b>	osmium 194
<b>NT3</b>	dubnium 267	<b>NT3</b>	actinium 227	<b>NT3</b>	palladium 107
<b>NT3</b>	dubnium 268	<b>NT3</b>	aluminium 26	<b>NT3</b>	platinum 190
<b>NT3</b>	einsteinium 253	<b>NT3</b>	americium 241	<b>NT3</b>	platinum 193
<b>NT3</b>	einsteinium 254	<b>NT3</b>	americium 242	<b>NT3</b>	plutonium 236
<b>NT3</b>	einsteinium 255	<b>NT3</b>	americium 243	<b>NT3</b>	plutonium 238
<b>NT3</b>	einsteinium 257	<b>NT3</b>	antimony 125	<b>NT3</b>	plutonium 239
<b>NT3</b>	fermium 241	<b>NT3</b>	argon 39	<b>NT3</b>	plutonium 240
<b>NT3</b>	fermium 242	<b>NT3</b>	argon 42	<b>NT3</b>	plutonium 241
<b>NT3</b>	fermium 244	<b>NT3</b>	barium 133	<b>NT3</b>	plutonium 242
<b>NT3</b>	fermium 246	<b>NT3</b>	berkelium 247	<b>NT3</b>	plutonium 244
<b>NT3</b>	fermium 248	<b>NT3</b>	beryllium 10	<b>NT3</b>	polonium 208
<b>NT3</b>	fermium 250	<b>NT3</b>	bismuth 207	<b>NT3</b>	polonium 209
<b>NT3</b>	fermium 252	<b>NT3</b>	bismuth 208	<b>NT3</b>	potassium 40
<b>NT3</b>	fermium 254	<b>NT3</b>	bismuth 210	<b>NT3</b>	promethium 144
<b>NT3</b>	fermium 255	<b>NT3</b>	cadmium 109	<b>NT3</b>	promethium 145
<b>NT3</b>	fermium 256	<b>NT3</b>	cadmium 113	<b>NT3</b>	promethium 146
<b>NT3</b>	fermium 257	<b>NT3</b>	calcium 41	<b>NT3</b>	promethium 147
<b>NT3</b>	fermium 258	<b>NT3</b>	californium 249	<b>NT3</b>	protactinium 231
<b>NT3</b>	fermium 259	<b>NT3</b>	californium 250	<b>NT3</b>	radium 226
<b>NT3</b>	fermium 260	<b>NT3</b>	californium 251	<b>NT3</b>	radium 228
<b>NT3</b>	fermium 264	<b>NT3</b>	californium 252	<b>NT3</b>	rhenium 186
<b>NT3</b>	flerovium 286	<b>NT3</b>	carbon 14	<b>NT3</b>	rhenium 187
<b>NT3</b>	hassium 264	<b>NT3</b>	cesium 134	<b>NT3</b>	rhodium 101
<b>NT3</b>	hassium 265	<b>NT3</b>	cesium 135	<b>NT3</b>	rubidium 87
<b>NT3</b>	meitnerium 266	<b>NT3</b>	cesium 137	<b>NT3</b>	ruthenium 106
<b>NT3</b>	mendelevium 245	<b>NT3</b>	chlorine 36	<b>NT3</b>	samarium 146
<b>NT3</b>	mendelevium 246	<b>NT3</b>	cobalt 60	<b>NT3</b>	samarium 147
<b>NT3</b>	mendelevium 259	<b>NT3</b>	curium 243	<b>NT3</b>	samarium 148
<b>NT3</b>	neptunium 237	<b>NT3</b>	curium 244	<b>NT3</b>	samarium 151
<b>NT3</b>	nobelium 250	<b>NT3</b>	curium 245	<b>NT3</b>	selenium 79
<b>NT3</b>	nobelium 252	<b>NT3</b>	curium 246	<b>NT3</b>	silicon 32
<b>NT3</b>	nobelium 254	<b>NT3</b>	curium 247	<b>NT3</b>	silver 108
<b>NT3</b>	nobelium 256	<b>NT3</b>	curium 248	<b>NT3</b>	sodium 22
<b>NT3</b>	nobelium 258	<b>NT3</b>	curium 250	<b>NT3</b>	strontium 90
<b>NT3</b>	plutonium 235	<b>NT3</b>	dysprosium 154	<b>NT3</b>	tantalum 179
<b>NT3</b>	plutonium 236	<b>NT3</b>	einsteinium 252	<b>NT3</b>	technetium 97
<b>NT3</b>	plutonium 237	<b>NT3</b>	europium 150	<b>NT3</b>	technetium 98
<b>NT3</b>	plutonium 238	<b>NT3</b>	europium 152	<b>NT3</b>	technetium 99
<b>NT3</b>	plutonium 239	<b>NT3</b>	europium 154	<b>NT3</b>	tellurium 123
<b>NT3</b>	plutonium 240	<b>NT3</b>	europium 155	<b>NT3</b>	terbium 157
<b>NT3</b>	plutonium 241	<b>NT3</b>	gadolinium 148	<b>NT3</b>	terbium 158
<b>NT3</b>	plutonium 242	<b>NT3</b>	gadolinium 150	<b>NT3</b>	thallium 204
<b>NT3</b>	plutonium 243	<b>NT3</b>	gadolinium 152	<b>NT3</b>	thorium 228
<b>NT3</b>	plutonium 244	<b>NT3</b>	hafnium 172	<b>NT3</b>	thorium 229
<b>NT3</b>	rutherfordium 253	<b>NT3</b>	hafnium 174	<b>NT3</b>	thorium 230

NT3	thorium 232	NT2	rhenium 185	NT2	rubidium 92
NT3	thulium 171	NT2	rhenium 186	NT2	rubidium 93
NT3	tin 121	NT2	rhenium 187	NT2	rubidium 94
NT3	tin 126	NT2	rhenium 188	NT2	rubidium 95
NT3	titanium 44	NT2	rhenium 189	NT2	rubidium 96
NT3	tritium	NT2	rhenium 190	NT2	rubidium 97
NT3	uranium 232	NT2	rhenium 191	NT2	rubidium 98
NT3	uranium 233	NT2	rhenium 192	NT2	rubidium 99
NT3	uranium 234	NT2	rhenium 193	NT1	ruthenium isotopes
NT3	uranium 235	NT2	rhenium 194	NT2	ruthenium 100
NT3	uranium 236	NT2	rhenium 195	NT2	ruthenium 101
NT3	uranium 238	NT2	rhenium 196	NT2	ruthenium 102
NT3	vanadium 50	NT1	rhodium isotopes	NT2	ruthenium 103
NT3	zirconium 93	NT2	rhodium 100	NT2	ruthenium 104
NT1	radon isotopes	NT2	rhodium 101	NT2	ruthenium 105
NT2	radon 193	NT2	rhodium 102	NT2	ruthenium 106
NT2	radon 194	NT2	rhodium 103	NT2	ruthenium 107
NT2	radon 195	NT2	rhodium 104	NT2	ruthenium 108
NT2	radon 196	NT2	rhodium 105	NT2	ruthenium 109
NT2	radon 197	NT2	rhodium 106	NT2	ruthenium 110
NT2	radon 198	NT2	rhodium 107	NT2	ruthenium 111
NT2	radon 199	NT2	rhodium 108	NT2	ruthenium 112
NT2	radon 200	NT2	rhodium 109	NT2	ruthenium 113
NT2	radon 201	NT2	rhodium 110	NT2	ruthenium 114
NT2	radon 202	NT2	rhodium 111	NT2	ruthenium 115
NT2	radon 203	NT2	rhodium 112	NT2	ruthenium 116
NT2	radon 204	NT2	rhodium 113	NT2	ruthenium 117
NT2	radon 205	NT2	rhodium 114	NT2	ruthenium 118
NT2	radon 206	NT2	rhodium 115	NT2	ruthenium 119
NT2	radon 207	NT2	rhodium 116	NT2	ruthenium 120
NT2	radon 208	NT2	rhodium 117	NT2	ruthenium 87
NT2	radon 209	NT2	rhodium 118	NT2	ruthenium 88
NT2	radon 210	NT2	rhodium 119	NT2	ruthenium 89
NT2	radon 211	NT2	rhodium 120	NT2	ruthenium 90
NT2	radon 212	NT2	rhodium 121	NT2	ruthenium 91
NT2	radon 213	NT2	rhodium 122	NT2	ruthenium 92
NT2	radon 214	NT2	rhodium 89	NT2	ruthenium 93
NT2	radon 215	NT2	rhodium 90	NT2	ruthenium 94
NT2	radon 216	NT2	rhodium 91	NT2	ruthenium 95
NT2	radon 217	NT2	rhodium 92	NT2	ruthenium 96
NT2	radon 218	NT2	rhodium 93	NT2	ruthenium 97
NT2	radon 219	NT2	rhodium 94	NT2	ruthenium 98
NT2	radon 220	NT2	rhodium 95	NT2	ruthenium 99
NT2	radon 221	NT2	rhodium 96	NT1	rutherfordium isotopes
NT2	radon 222	NT2	rhodium 97	NT2	rutherfordium 253
NT2	radon 223	NT2	rhodium 98	NT2	rutherfordium 254
NT2	radon 224	NT2	rhodium 99	NT2	rutherfordium 255
NT2	radon 225	NT1	roentgenium isotopes	NT2	rutherfordium 256
NT2	radon 226	NT2	roentgenium 272	NT2	rutherfordium 257
NT2	radon 227	NT2	roentgenium 273	NT2	rutherfordium 258
NT2	radon 228	NT2	roentgenium 274	NT2	rutherfordium 259
NT2	radon 229	NT2	roentgenium 279	NT2	rutherfordium 260
NT1	rhenium isotopes	NT2	roentgenium 280	NT2	rutherfordium 261
NT2	rhenium 159	NT1	rubidium isotopes	NT2	rutherfordium 262
NT2	rhenium 160	NT2	rubidium 100	NT2	rutherfordium 263
NT2	rhenium 161	NT2	rubidium 101	NT2	rutherfordium 264
NT2	rhenium 162	NT2	rubidium 102	NT2	rutherfordium 265
NT2	rhenium 163	NT2	rubidium 103	NT2	rutherfordium 266
NT2	rhenium 164	NT2	rubidium 71	NT2	rutherfordium 267
NT2	rhenium 165	NT2	rubidium 72	NT2	rutherfordium 268
NT2	rhenium 166	NT2	rubidium 73	NT1	samarium isotopes
NT2	rhenium 167	NT2	rubidium 74	NT2	samarium 128
NT2	rhenium 168	NT2	rubidium 75	NT2	samarium 129
NT2	rhenium 169	NT2	rubidium 76	NT2	samarium 130
NT2	rhenium 170	NT2	rubidium 77	NT2	samarium 131
NT2	rhenium 171	NT2	rubidium 78	NT2	samarium 132
NT2	rhenium 172	NT2	rubidium 79	NT2	samarium 133
NT2	rhenium 173	NT2	rubidium 80	NT2	samarium 134
NT2	rhenium 174	NT2	rubidium 81	NT2	samarium 135
NT2	rhenium 175	NT2	rubidium 82	NT2	samarium 136
NT2	rhenium 176	NT2	rubidium 83	NT2	samarium 137
NT2	rhenium 177	NT2	rubidium 84	NT2	samarium 138
NT2	rhenium 178	NT2	rubidium 85	NT2	samarium 139
NT2	rhenium 179	NT2	rubidium 86	NT2	samarium 140
NT2	rhenium 180	NT2	rubidium 87	NT2	samarium 141
NT2	rhenium 181	NT2	rubidium 88	NT2	samarium 142
NT2	rhenium 182	NT2	rubidium 89	NT2	samarium 143
NT2	rhenium 183	NT2	rubidium 90	NT2	samarium 144
NT2	rhenium 184	NT2	rubidium 91	NT2	samarium 145

NT2	samarium 146	NT2	selenium 80	NT2	sodium 22
NT2	samarium 147	NT2	selenium 81	NT2	sodium 23
NT2	samarium 148	NT2	selenium 82	NT2	sodium 24
NT2	samarium 149	NT2	selenium 83	NT2	sodium 25
NT2	samarium 150	NT2	selenium 84	NT2	sodium 26
NT2	samarium 151	NT2	selenium 85	NT2	sodium 27
NT2	samarium 152	NT2	selenium 86	NT2	sodium 28
NT2	samarium 153	NT2	selenium 87	NT2	sodium 29
NT2	samarium 154	NT2	selenium 88	NT2	sodium 30
NT2	samarium 155	NT2	selenium 89	NT2	sodium 31
NT2	samarium 156	NT2	selenium 91	NT2	sodium 32
NT2	samarium 157	NT1	silicon isotopes	NT2	sodium 33
NT2	samarium 158	NT2	silicon 22	NT2	sodium 34
NT2	samarium 159	NT2	silicon 23	NT2	sodium 35
NT2	samarium 160	NT2	silicon 24	NT2	sodium 37
NT2	samarium 161	NT2	silicon 25	NT1	stable isotopes
NT2	samarium 162	NT2	silicon 26	NT2	aluminium 27
NT2	samarium 163	NT2	silicon 27	NT2	antimony 121
NT2	samarium 164	NT2	silicon 28	NT2	antimony 123
NT2	samarium 165	NT2	silicon 29	NT2	argon 36
NT1	scandium isotopes	NT2	silicon 30	NT2	argon 38
NT2	scandium 36	NT2	silicon 31	NT2	argon 40
NT2	scandium 37	NT2	silicon 32	NT2	arsenic 75
NT2	scandium 38	NT2	silicon 33	NT2	barium 130
NT2	scandium 39	NT2	silicon 34	NT2	barium 132
NT2	scandium 40	NT2	silicon 35	NT2	barium 134
NT2	scandium 41	NT2	silicon 36	NT2	barium 135
NT2	scandium 42	NT2	silicon 37	NT2	barium 136
NT2	scandium 43	NT2	silicon 38	NT2	barium 137
NT2	scandium 44	NT2	silicon 39	NT2	barium 138
NT2	scandium 45	NT2	silicon 40	NT2	beryllium 9
NT2	scandium 46	NT2	silicon 41	NT2	bismuth 209
NT2	scandium 47	NT2	silicon 42	NT2	boron 10
NT2	scandium 48	NT2	silicon 43	NT2	boron 11
NT2	scandium 49	NT2	silicon 44	NT2	bromine 79
NT2	scandium 50	NT1	silver isotopes	NT2	bromine 81
NT2	scandium 51	NT2	silver 100	NT2	cadmium 106
NT2	scandium 52	NT2	silver 101	NT2	cadmium 108
NT2	scandium 53	NT2	silver 102	NT2	cadmium 110
NT2	scandium 54	NT2	silver 103	NT2	cadmium 111
NT2	scandium 55	NT2	silver 104	NT2	cadmium 112
NT2	scandium 56	NT2	silver 105	NT2	cadmium 113
NT2	scandium 57	NT2	silver 106	NT2	cadmium 114
NT2	scandium 58	NT2	silver 107	NT2	cadmium 116
NT2	scandium 59	NT2	silver 108	NT2	calcium 40
NT2	scandium 60	NT2	silver 109	NT2	calcium 42
NT2	scandium 61	NT2	silver 110	NT2	calcium 43
NT1	seaborgium isotopes	NT2	silver 111	NT2	calcium 44
NT2	seaborgium 258	NT2	silver 112	NT2	calcium 46
NT2	seaborgium 259	NT2	silver 113	NT2	calcium 48
NT2	seaborgium 260	NT2	silver 114	NT2	carbon 12
NT2	seaborgium 261	NT2	silver 115	NT2	carbon 13
NT2	seaborgium 262	NT2	silver 116	NT2	cerium 136
NT2	seaborgium 263	NT2	silver 117	NT2	cerium 138
NT2	seaborgium 264	NT2	silver 118	NT2	cerium 140
NT2	seaborgium 265	NT2	silver 119	NT2	cerium 142
NT2	seaborgium 266	NT2	silver 120	NT2	cesium 133
NT2	seaborgium 268	NT2	silver 121	NT2	chlorine 35
NT2	seaborgium 270	NT2	silver 122	NT2	chlorine 37
NT2	seaborgium 271	NT2	silver 123	NT2	chromium 50
NT2	seaborgium 272	NT2	silver 124	NT2	chromium 52
NT2	seaborgium 273	NT2	silver 125	NT2	chromium 53
NT1	selenium isotopes	NT2	silver 126	NT2	chromium 54
NT2	selenium 64	NT2	silver 127	NT2	cobalt 59
NT2	selenium 65	NT2	silver 128	NT2	copper 63
NT2	selenium 66	NT2	silver 129	NT2	copper 65
NT2	selenium 67	NT2	silver 130	NT2	deuterium
NT2	selenium 68	NT2	silver 93	NT2	dysprosium 156
NT2	selenium 69	NT2	silver 94	NT2	dysprosium 158
NT2	selenium 70	NT2	silver 95	NT2	dysprosium 160
NT2	selenium 71	NT2	silver 96	NT2	dysprosium 161
NT2	selenium 72	NT2	silver 97	NT2	dysprosium 162
NT2	selenium 73	NT2	silver 98	NT2	dysprosium 163
NT2	selenium 74	NT2	silver 99	NT2	dysprosium 164
NT2	selenium 75	NT1	sodium isotopes	NT2	erbium 162
NT2	selenium 76	NT2	sodium 18	NT2	erbium 164
NT2	selenium 77	NT2	sodium 19	NT2	erbium 166
NT2	selenium 78	NT2	sodium 20	NT2	erbium 167
NT2	selenium 79	NT2	sodium 21	NT2	erbium 168

NT2	erbium 170	NT2	neon 21	NT2	tellurium 126
NT2	europium 151	NT2	neon 22	NT2	tellurium 128
NT2	europium 153	NT2	nickel 58	NT2	tellurium 130
NT2	fluorine 19	NT2	nickel 60	NT2	terbium 159
NT2	gadolinium 154	NT2	nickel 61	NT2	thallium 203
NT2	gadolinium 155	NT2	nickel 62	NT2	thallium 205
NT2	gadolinium 156	NT2	nickel 64	NT2	thulium 169
NT2	gadolinium 157	NT2	niobium 93	NT2	tin 112
NT2	gadolinium 158	NT2	nitrogen 14	NT2	tin 114
NT2	gadolinium 160	NT2	nitrogen 15	NT2	tin 115
NT2	gallium 69	NT2	osmium 184	NT2	tin 116
NT2	gallium 71	NT2	osmium 186	NT2	tin 117
NT2	germanium 70	NT2	osmium 187	NT2	tin 118
NT2	germanium 72	NT2	osmium 188	NT2	tin 119
NT2	germanium 73	NT2	osmium 189	NT2	tin 120
NT2	germanium 74	NT2	osmium 190	NT2	tin 122
NT2	germanium 76	NT2	osmium 192	NT2	tin 124
NT2	gold 197	NT2	oxygen 16	NT2	titanium 46
NT2	hafnium 176	NT2	oxygen 17	NT2	titanium 47
NT2	hafnium 177	NT2	oxygen 18	NT2	titanium 48
NT2	hafnium 178	NT2	palladium 102	NT2	titanium 49
NT2	hafnium 179	NT2	palladium 104	NT2	titanium 50
NT2	hafnium 180	NT2	palladium 105	NT2	tungsten 180
NT2	helium 3	NT2	palladium 106	NT2	tungsten 182
NT3	helium 3 a	NT2	palladium 108	NT2	tungsten 183
NT3	helium 3 a1	NT2	palladium 110	NT2	tungsten 184
NT3	helium 3 b	NT2	phosphorus 31	NT2	tungsten 186
NT2	helium 4	NT2	platinum 192	NT2	vanadium 51
NT3	helium i	NT2	platinum 194	NT2	xenon 124
NT3	helium ii	NT2	platinum 195	NT2	xenon 126
NT2	holmium 165	NT2	platinum 196	NT2	xenon 128
NT2	hydrogen 1	NT2	platinum 198	NT2	xenon 129
NT2	indium 113	NT2	potassium 39	NT2	xenon 130
NT2	iodine 127	NT2	potassium 41	NT2	xenon 131
NT2	iridium 191	NT2	praseodymium 141	NT2	xenon 132
NT2	iridium 193	NT2	rhenium 185	NT2	xenon 134
NT2	iron 54	NT2	rhenium 187	NT2	xenon 136
NT2	iron 56	NT2	rhodium 103	NT2	ytterbium 168
NT2	iron 57	NT2	rubidium 85	NT2	ytterbium 170
NT2	iron 58	NT2	ruthenium 100	NT2	ytterbium 171
NT2	krypton 78	NT2	ruthenium 101	NT2	ytterbium 172
NT2	krypton 80	NT2	ruthenium 102	NT2	ytterbium 173
NT2	krypton 82	NT2	ruthenium 104	NT2	ytterbium 174
NT2	krypton 83	NT2	ruthenium 96	NT2	ytterbium 176
NT2	krypton 84	NT2	ruthenium 98	NT2	yttrium 89
NT2	krypton 86	NT2	ruthenium 99	NT2	zinc 64
NT2	lanthanum 139	NT2	samarium 144	NT2	zinc 66
NT2	lead 204	NT2	samarium 148	NT2	zinc 67
NT2	lead 206	NT2	samarium 149	NT2	zinc 68
NT2	lead 207	NT2	samarium 150	NT2	zinc 70
NT2	lead 208	NT2	samarium 152	NT2	zirconium 90
NT2	lithium 6	NT2	samarium 154	NT2	zirconium 91
NT2	lithium 7	NT2	scandium 45	NT2	zirconium 92
NT2	lutetium 175	NT2	selenium 74	NT2	zirconium 94
NT2	magnesium 24	NT2	selenium 76	NT2	zirconium 96
NT2	magnesium 25	NT2	selenium 77	NT1	sulfur isotopes
NT2	magnesium 26	NT2	selenium 78	NT2	sulfur 24
NT2	manganese 55	NT2	selenium 80	NT2	sulfur 26
NT2	mercury 196	NT2	selenium 82	NT2	sulfur 27
NT2	mercury 198	NT2	silicon 28	NT2	sulfur 28
NT2	mercury 199	NT2	silicon 29	NT2	sulfur 29
NT2	mercury 200	NT2	silicon 30	NT2	sulfur 30
NT2	mercury 201	NT2	silver 107	NT2	sulfur 31
NT2	mercury 202	NT2	silver 109	NT2	sulfur 32
NT2	mercury 204	NT2	sodium 23	NT2	sulfur 33
NT2	molybdenum 100	NT2	strontium 84	NT2	sulfur 34
NT2	molybdenum 92	NT2	strontium 86	NT2	sulfur 35
NT2	molybdenum 94	NT2	strontium 87	NT2	sulfur 36
NT2	molybdenum 95	NT2	strontium 88	NT2	sulfur 37
NT2	molybdenum 96	NT2	sulfur 32	NT2	sulfur 38
NT2	molybdenum 97	NT2	sulfur 33	NT2	sulfur 39
NT2	molybdenum 98	NT2	sulfur 34	NT2	sulfur 40
NT2	neodymium 142	NT2	sulfur 36	NT2	sulfur 41
NT2	neodymium 143	NT2	tantalum 181	NT2	sulfur 42
NT2	neodymium 145	NT2	tellurium 120	NT2	sulfur 43
NT2	neodymium 146	NT2	tellurium 122	NT2	sulfur 44
NT2	neodymium 148	NT2	tellurium 123	NT2	sulfur 45
NT2	neodymium 150	NT2	tellurium 124	NT2	sulfur 46
NT2	neon 20	NT2	tellurium 125	NT2	sulfur 47

NT2	sulfur 48	NT2	tellurium 109	NT2	thallium 181
NT2	sulfur 49	NT2	tellurium 110	NT2	thallium 182
NT1	tantalum isotopes	NT2	tellurium 111	NT2	thallium 183
NT2	tantalum 155	NT2	tellurium 112	NT2	thallium 184
NT2	tantalum 156	NT2	tellurium 113	NT2	thallium 185
NT2	tantalum 157	NT2	tellurium 114	NT2	thallium 186
NT2	tantalum 158	NT2	tellurium 115	NT2	thallium 187
NT2	tantalum 159	NT2	tellurium 116	NT2	thallium 188
NT2	tantalum 160	NT2	tellurium 117	NT2	thallium 189
NT2	tantalum 161	NT2	tellurium 118	NT2	thallium 190
NT2	tantalum 162	NT2	tellurium 119	NT2	thallium 191
NT2	tantalum 163	NT2	tellurium 120	NT2	thallium 192
NT2	tantalum 164	NT2	tellurium 121	NT2	thallium 193
NT2	tantalum 165	NT2	tellurium 122	NT2	thallium 194
NT2	tantalum 166	NT2	tellurium 123	NT2	thallium 195
NT2	tantalum 167	NT2	tellurium 124	NT2	thallium 196
NT2	tantalum 168	NT2	tellurium 125	NT2	thallium 197
NT2	tantalum 169	NT2	tellurium 126	NT2	thallium 198
NT2	tantalum 170	NT2	tellurium 127	NT2	thallium 199
NT2	tantalum 171	NT2	tellurium 128	NT2	thallium 200
NT2	tantalum 172	NT2	tellurium 129	NT2	thallium 201
NT2	tantalum 173	NT2	tellurium 130	NT2	thallium 202
NT2	tantalum 174	NT2	tellurium 131	NT2	thallium 203
NT2	tantalum 175	NT2	tellurium 132	NT2	thallium 204
NT2	tantalum 176	NT2	tellurium 133	NT2	thallium 205
NT2	tantalum 177	NT2	tellurium 134	NT2	thallium 206
NT2	tantalum 178	NT2	tellurium 135	NT2	thallium 207
NT2	tantalum 179	NT2	tellurium 136	NT2	thallium 208
NT2	tantalum 180	NT2	tellurium 137	NT2	thallium 209
NT2	tantalum 181	NT2	tellurium 138	NT2	thallium 210
NT2	tantalum 182	NT2	tellurium 139	NT2	thallium 211
NT2	tantalum 183	NT2	tellurium 140	NT2	thallium 212
NT2	tantalum 184	NT2	tellurium 141	NT1	thorium isotopes
NT2	tantalum 185	NT2	tellurium 142	NT2	thorium 208
NT2	tantalum 186	NT1	tennessine isotopes	NT2	thorium 209
NT2	tantalum 187	NT1	terbium isotopes	NT2	thorium 210
NT2	tantalum 188	NT2	terbium 135	NT2	thorium 211
NT2	tantalum 189	NT2	terbium 136	NT2	thorium 212
NT2	tantalum 190	NT2	terbium 137	NT2	thorium 213
NT1	technetium isotopes	NT2	terbium 138	NT2	thorium 214
NT2	technetium 100	NT2	terbium 139	NT2	thorium 215
NT2	technetium 101	NT2	terbium 140	NT2	thorium 216
NT2	technetium 102	NT2	terbium 141	NT2	thorium 217
NT2	technetium 103	NT2	terbium 142	NT2	thorium 218
NT2	technetium 104	NT2	terbium 143	NT2	thorium 219
NT2	technetium 105	NT2	terbium 144	NT2	thorium 220
NT2	technetium 106	NT2	terbium 145	NT2	thorium 221
NT2	technetium 107	NT2	terbium 146	NT2	thorium 222
NT2	technetium 108	NT2	terbium 147	NT2	thorium 223
NT2	technetium 109	NT2	terbium 148	NT2	thorium 224
NT2	technetium 110	NT2	terbium 149	NT2	thorium 225
NT2	technetium 111	NT2	terbium 150	NT2	thorium 226
NT2	technetium 112	NT2	terbium 151	NT2	thorium 227
NT2	technetium 113	NT2	terbium 152	NT2	thorium 228
NT2	technetium 114	NT2	terbium 153	NT2	thorium 229
NT2	technetium 115	NT2	terbium 154	NT2	thorium 230
NT2	technetium 116	NT2	terbium 155	NT2	thorium 231
NT2	technetium 117	NT2	terbium 156	NT2	thorium 232
NT2	technetium 118	NT2	terbium 157	NT2	thorium 233
NT2	technetium 85	NT2	terbium 158	NT2	thorium 234
NT2	technetium 86	NT2	terbium 159	NT2	thorium 235
NT2	technetium 87	NT2	terbium 160	NT2	thorium 236
NT2	technetium 88	NT2	terbium 161	NT2	thorium 237
NT2	technetium 89	NT2	terbium 162	NT2	thorium 238
NT2	technetium 90	NT2	terbium 163	NT1	thulium isotopes
NT2	technetium 91	NT2	terbium 164	NT2	thulium 144
NT2	technetium 92	NT2	terbium 165	NT2	thulium 145
NT2	technetium 93	NT2	terbium 166	NT2	thulium 146
NT2	technetium 94	NT2	terbium 167	NT2	thulium 147
NT2	technetium 95	NT2	terbium 168	NT2	thulium 148
NT2	technetium 96	NT2	terbium 169	NT2	thulium 149
NT2	technetium 97	NT2	terbium 170	NT2	thulium 150
NT2	technetium 98	NT2	terbium 171	NT2	thulium 151
NT2	technetium 99	NT1	thallium isotopes	NT2	thulium 152
NT1	tellurium isotopes	NT2	thallium 176	NT2	thulium 153
NT2	tellurium 105	NT2	thallium 177	NT2	thulium 154
NT2	tellurium 106	NT2	thallium 178	NT2	thulium 155
NT2	tellurium 107	NT2	thallium 179	NT2	thulium 156
NT2	tellurium 108	NT2	thallium 180	NT2	thulium 157



NT2 thulium 158  
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 NT2 thulium 179

NT1 tin isotopes

NT2 tin 100  
 NT2 tin 101  
 NT2 tin 102  
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 NT2 tin 136  
 NT2 tin 137  
 NT2 tin 99

NT1 titanium isotopes

NT2 titanium 38  
 NT2 titanium 39  
 NT2 titanium 40  
 NT2 titanium 41  
 NT2 titanium 42  
 NT2 titanium 43  
 NT2 titanium 44  
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 NT2 titanium 61  
 NT2 titanium 62  
 NT2 titanium 63

NT1 tungsten isotopes

NT2 tungsten 157  
 NT2 tungsten 158  
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 NT2 tungsten 192

NT1 uranium isotopes

NT2 uranium 217  
 NT2 uranium 218  
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 NT2 uranium 242

NT1 vanadium isotopes

NT2 vanadium 40  
 NT2 vanadium 41  
 NT2 vanadium 42  
 NT2 vanadium 43

NT2 vanadium 44  
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 NT2 vanadium 64  
 NT2 vanadium 65  
 NT2 vanadium 66

NT1 xenon isotopes

NT2 xenon 109  
 NT2 xenon 110  
 NT2 xenon 111  
 NT2 xenon 112  
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 NT2 xenon 146  
 NT2 xenon 147

NT1 ytterbium isotopes

NT2 ytterbium 148  
 NT2 ytterbium 149  
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**NT2** ytterbium 181  
**NT1** yttrium isotopes  
**NT2** yttrium 100  
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**NT1** zinc isotopes  
**NT2** zinc 54  
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**NT2** zinc 79  
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**NT1** zirconium isotopes  
**NT2** zirconium 100  
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**NT2** zirconium 98  
**NT2** zirconium 99  
**RT** gas centrifugation  
**RT** isotope effects  
**RT** isotope production  
**RT** isotope ratio  
**RT** isotope separation  
**RT** nuclei

**isotopic analysis (quantitative)**

USE isotope ratio

**isotopic composition (quantitative)**

USE isotope ratio

**isotopic effects**

USE isotope effects

**ISOTOPIC EXCHANGE**

UF exchange (isotopic)

UF isotope exchange

UF isotopic substitution

**NT1** dual temperature process

**RT** chemical reactions

**RT** hydrogen transfer

**RT** isotope effects

**RT** isotope enriched materials

**RT** labelling

**isotopic separation**

USE isotope separation

**isotopic shift**

USE spectral shift

**isotopic spin**

USE isospin

**isotopic substitution**

USE isotopic exchange

**ISOTROPY**

**RT** anisotropy

**RT** configuration

**RT** distribution

**RT** orientation

**ISOVALERIC ACID**

\*BT1 monocarboxylic acids

**ISOVECTORS**

\*BT1 vectors

**ISPRA-1 REACTOR**

*Permanent shutdown since 1973.*

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

**ispra-2 rana reactor**

USE rana reactor

**ISRAEL**

BT1 asia

BT1 developing countries

BT1 middle east

**RT** israeli organizations

**ISRAEL ATOMIC ENERGY****COMMISSION**

*1979-11-02*

\*BT1 israeli organizations

**NT1** negev nuclear research center

**NT1** soreq nuclear research center

**ISRAELI ORGANIZATIONS**

*INIS: 1979-11-02; ETDE: 1979-09-26*

BT1 national organizations

**NT1** israel atomic energy commission

**NT2** negev nuclear research center

**NT2** soreq nuclear research center

**RT** israel

**israeli research reactor-1**

*2000-04-12*

USE irr-1 reactor

**israeli research reactor-2**

*2000-04-12*

USE irr-2 reactor

**iss orbital station**

*2005-10-13*

USE international space station

**ISTTOK TOKAMAK**

*2000-05-11*

*Instituto Superior Tecnico, Lisbon, Portugal.*

\*BT1 tokamak devices

**ISX TOKAMAK**

*INIS: 1977-09-15; ETDE: 1978-04-27*

UF impurity study experimental tokamak

\*BT1 tokamak devices

**ITACONIC ACID**

\*BT1 dicarboxylic acids

**ITALIAN ENEA**

*INIS: 1985-03-15; ETDE: 1989-08-16*

*Comitato Nazionale per la Ricerca e lo*

*Sviluppo dell'Energia Nucleare e delle*

*Energie Alternative; prior to April 1982*

*known as Comitato Nazionale per Energia*

*Nucleare, and documents written before that*

*date should be indexed to CNEN.*

UF comitato nazionale energia nucleare e alternative

UF enea italy

UF energia nucl e altern, com naz

\*BT1 italian organizations

**NT1** cnen

**ITALIAN ENEL**

INIS: 1992-09-11; ETDE: 1991-03-19  
 Ente Nazionale per l'Energia Elettrica.  
 \*BT1 italian organizations

**ITALIAN ORGANIZATIONS**

1996-07-16  
 (Prior to August 1996 AGIP NUCLEARE was a valid ETDE descriptor.)

UF agip nucleare  
 BT1 national organizations  
 NT1 cise  
 NT1 infn  
 NT1 italian enea  
 NT2 cnen  
 NT1 italian enel

**italian triga-mark-ii reactor**

2000-04-12  
 USE triga-2-rome reactor

**italian triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE triga-2-rome reactor

**ITALY**

1997-06-19  
 BT1 developed countries  
 \*BT1 western europe  
 NT1 appennines  
 NT1 sicily  
 RT adriatic sea  
 RT alps  
 RT holy see  
 RT larderello geothermal field  
 RT monte amiata geothermal field  
 RT oecd  
 RT po river  
 RT san marino  
 RT travale geothermal field

**ITEP**

2016-07-28  
 Institute for Theoretical and Experimental Physics, Moscow, Russian Federation.  
 \*BT1 nrc kurchatov institute

**ITEP SYNCHROTRON**

Institute of Theoretical and Experimental Physics Synchrotron.  
 \*BT1 synchrotrons

**ITER TOKAMAK**

INIS: 1989-04-20; ETDE: 1989-05-11  
 International Thermonuclear Experimental Reactor.  
 \*BT1 tokamak devices  
 \*BT1 tokamak type reactors

**ITERATIVE METHODS**

BT1 calculation methods  
 NT1 finite difference method  
 NT1 galerkin-petrov method  
 NT1 newton method  
 NT1 runge-kutta method  
 RT mathematics  
 RT numerical solution

**ITP**

2017-11-13  
 UF inosine triphosphate  
 \*BT1 nucleotides  
 RT inosine  
 RT phosphatases

**itr reactor**

2000-04-12  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE beryllium moderated reactors  
 USE enriched uranium reactors  
 USE thermionic reactors

USE zero power reactors

**itri**

INIS: 2000-04-12; ETDE: 1982-07-27  
 USE inhalation toxicology research institute

**IU CYCLOTRON**

INIS: 1979-04-27; ETDE: 1979-05-25  
 UF indiana university cyclotron  
 \*BT1 isochronous cyclotrons

**iudr**

USE iododeoxyuridine

**ius**

INIS: 1982-12-03; ETDE: 1977-09-19  
 Integrated utility systems.  
 USE total energy systems

**ivory coast**

INIS: 1997-01-07; ETDE: 1976-01-26  
 (Until January 1997 this was a valid descriptor.)  
 USE cote d'ivoire

**IVV-2M REACTOR**

2004-05-11  
 Gosatomnadzor of Russia, Russian Federation Atomic Energy Ministry, Sverdlovsk, Russian Federation.  
 \*BT1 enriched uranium reactors  
 \*BT1 materials testing reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**IVV-7 REACTOR**

INIS: 1992-01-08; ETDE: 1992-02-19  
 Research Center in Tajura, Libya.  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**ivy project**

2000-04-12  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
 USE nuclear explosions

**iwg-1m reactor**

INIS: 2003-11-26; ETDE: 2003-12-03  
 Kurchatov city, East Kazakhstan.  
 USE ewg-1 reactor

**ixion**

2000-04-12  
 Plasma heating and confinement by superposition of radial electric fields on the axial magnetic fields (LASL).  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE magnetic mirrors

**j-3105 resonances**

USE j psi-3097 mesons

**J CODES**

BT1 computer codes

**J-J COUPLING**

UF spin-spin interaction  
 \*BT1 intermediate coupling  
 RT orbital angular momentum

**J-PARC**

2007-02-27  
 Operated by both Japan Atomic Energy Agency and High Energy Accelerator Research Organization, Tokai, Ibaraki, Japan.  
 UF j-parc hadron experimental facility  
 UF j-parc materials and life science experimental facility  
 UF j-parc mlf

UF j-parc neutrino experimental facility  
 UF j-parc tef  
 UF j-parc transmutation experimental facility  
 UF japan proton accelerator research complex  
 RT j-parc center  
 RT j-parc linac  
 RT j-parc synchrotrons

**J-PARC CENTER**

2018-06-04  
 J-PARC organization established by Japan Atomic Energy Agency and High Energy Accelerator Research Tokai, Ibaraki, Japan  
 \*BT1 japanese organizations  
 RT j-parc  
 RT jaea  
 RT kek

**j-parc hadron experimental facility**

2016-12-12  
 USE accelerator experimental facilities  
 USE hadrons  
 USE j-parc

**J-PARC LINAC**

2016-07-11  
 \*BT1 linear accelerators  
 RT j-parc

**j-parc materials and life science experimental facility**

2016-12-12  
 USE accelerator experimental facilities  
 USE j-parc

**j-parc mlf**

2016-12-12  
 for research in material and life sciences using high-intensity pulsed neutron and muon beams.  
 USE accelerator experimental facilities  
 USE j-parc

**j-parc neutrino experimental facility**

2016-12-12  
 USE accelerator experimental facilities  
 USE j-parc  
 USE neutrinos

**J-PARC SYNCHROTRONS**

2016-07-11  
 \*BT1 synchrotrons  
 RT j-parc

**j-parc tef**

2016-07-11  
 USE accelerator experimental facilities  
 USE j-parc  
 USE transmutation

**j-parc transmutation experimental facility**

2016-07-11  
 Planned facility for transmutation of minor actinides by an accelerator-driven system; J-PARC, Tokai, Ibaraki, Japan.  
 USE accelerator experimental facilities  
 USE j-parc  
 USE transmutation

**J PSI-3097 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
 (Prior to December 1987 this concept was indexed by PSI-3105 RESONANCES.)  
 UF j-3105 resonances  
 UF psi-3105 resonances  
 \*BT1 charmonium  
 \*BT1 vector mesons

**JABILUKA DEPOSIT**

INIS: 1978-07-03; ETDE: 1978-08-07

- \*BT1 uranium deposits
- RT northern territory
- RT uranium ores

**JACKETS**

Device surrounding an object to be heated or cooled, e.g., water jackets.

- RT fuel cans
- RT reactor components
- RT shrouds
- RT sleeves

**JACKSON MODEL**

- RT compound nuclei
- RT nuclear reactions

**JACOBIAN FUNCTION**

- BT1 functions

**jadrova vyradovacia spolocnost (bohunice)**

2008-07-25

- USE javys

**JAEA**

2006-01-26

The Japan Atomic Energy Research Institute (JAERI) and the Japan Nuclear Cycle Development Institute (JNC) were merged into a new independent organization named the Japan Atomic Energy Agency (JAEA) in October 2005.

- UF japan atomic energy agency
- \*BT1 japanese organizations
- RT j-parc center

**JAERI**

The Japan Atomic Energy Research Institute (JAERI) and the Japan Nuclear Cycle Development Institute (JNC) were merged into a new independent organization named the Japan Atomic Energy Agency (JAEA) in October 2005.

- UF japan atomic energy research institute
- \*BT1 japanese organizations

**jaeri experimental fusion reactor**

INIS: 2000-04-12; ETDE: 1981-08-04

- USE jxfr tokamak

**jaeri fusion torus-2a**

INIS: 1976-07-30; ETDE: 1976-11-02

- USE jft-2a tokamak

**JAERI LINAC**

- \*BT1 linear accelerators

**JAERI TANDEM ACCELERATOR**

INIS: 1982-04-14; ETDE: 1982-05-07

- \*BT1 tandem electrostatic accelerators
- \*BT1 van de graaff accelerators

**JAHN-TELLER EFFECT**

- RT energy levels
- RT molecules

**jails**

INIS: 2000-04-12; ETDE: 1981-01-09

- USE public buildings

**JAMAICA**

- BT1 developing countries
- \*BT1 greater antilles
- BT1 latin america

**james a. fitzpatrick reactor**

- USE fitzpatrick reactor

**JAMES RIVER**

- \*BT1 rivers

RT virginia

**JAMESPORT-1 REACTOR**

Long Island Lighting Co., Jamesport, New York, USA. Canceled in 1980 before construction began.

- \*BT1 pwr type reactors

**JAMESPORT-2 REACTOR**

Long Island Lighting Co., Jamesport, New York, USA. Canceled in 1980 before construction began.

- \*BT1 pwr type reactors

**jangle project**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE nuclear explosions

**JANUS REACTOR**

ANL, Argonne, Illinois, USA. Shut down in 1992.

- UF biological research reactor janus
- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**JAPAN**

1997-06-19

- BT1 asia
- BT1 developed countries
- NT1 hachimantai
- NT1 hirosshima
- NT1 nagasaki
- RT beppu geothermal field
- RT hatchobaru geothermal field
- RT kakkonda geothermal field
- RT matsukawa geothermal field
- RT oecd
- RT okinawa
- RT onikobe geothermal field
- RT onuma geothermal field
- RT otake geothermal field
- RT rokkasho uranium enrichment plant
- RT takenoyu geothermal field
- RT takinoue geothermal field

**japan atomic energy agency**

2006-01-26

- USE jaea

**japan atomic energy research institute**

INIS: 1993-12-30; ETDE: 1975-09-11

- USE jaeri

**japan atr fugen**

- USE jatr reactor

**japan fast experimental breeder reactor**

1993-11-08

- USE joyo reactor

**japan htr**

- USE htr reactor

**japan institute plasma physics stellarator**

1993-11-08

- USE jipp stellarator

**japan materials testing reactor**

- USE jmtr reactor

**japan nuclear cycle development institute**

INIS: 1999-06-28; ETDE: 1999-07-02

- USE jnc

**japan nuclear energy safety organization**

2006-01-06

- USE jnes

**japan nuclear ship development agency**

INIS: 1993-12-30; ETDE: 1975-09-11

- USE jnsda

**japan power demonstration reactor**

- USE jpdr reactor

**japan power demonstration reactor-2**

1993-11-08

- USE jpdr-2 reactor

**japan proton accelerator research complex**

2007-02-27

- USE j-parc

**japan prototype fast reactor**

INIS: 1984-06-21; ETDE: 2002-02-28

- USE monju reactor

**japan research reactor-1**

- USE jrr-1 reactor

**japan research reactor-2**

- USE jrr-2 reactor

**japan research reactor-3**

- USE jrr-3 reactor

**japan research reactor-4**

- USE jrr-4 reactor

**japan ship reactor mutsu**

1993-11-08

- USE mutsu reactor

**JAPANESE ORGANIZATIONS**

- BT1 national organizations
- NT1 j-parc center
- NT1 jaea
- NT1 jaeri
- NT1 jnc
- NT1 jnes
- NT1 jnsda
- NT1 kek
- NT1 pnc

**japco-1 reactor**

- USE tokai-mura reactor

**japco-2 reactor**

- USE tsuruga reactor

**japco-3 reactor**

- USE tokai-2 reactor

**japco-4 reactor**

INIS: 1983-06-30; ETDE: 1983-07-20

- USE tsuruga-2 reactor

**JASON REACTOR**

UK Ministry of Defence, Dept. of Nuclear Science and Technology, Royal Naval College, London, United Kingdom.

- UF uk royal naval college-jason reactor
- \*BT1 argonaut type reactors
- \*BT1 research reactors
- \*BT1 training reactors

**JASTROW THEORY**

- RT hard-core potential

RT nucleon-nucleon potential

**JATR REACTOR**

JNC, Tsuruga, Fukui, Japan. Permanent shutdown since 2003.

UF advanced thermal reactor fugen

UF fugen atr

UF japan atr fugen

\*BT1 hwlwr type reactors

\*BT1 natural uranium reactors

\*BT1 plutonium reactors

\*BT1 pressure tube reactors

\*BT1 thermal reactors

**JATROPHA**

2009-12-08

\*BT1 magnoliopsida

\*BT1 shrubs

**JAUNDICE**

BT1 pathological changes

BT1 symptoms

RT hepatitis

RT liver

**JAVA**

INIS: 2002-09-10; ETDE: 2002-11-12

BT1 programming languages

**java (island)**

2002-11-13

USE indonesia

**JAVYS**

2008-07-25

Jadrova VYradovacia Spolocnost, a.s. (Nuclear decommissioning joint stock company) in Jaslovske Bohunice consists of the following plants: Bohunice Radioactive Waste Processing Centre, Mochovce Radioactive Waste Repository, Bohunice A-1 Reactor, Bohunice V-1 Reactor and Spent Fuel Storage for Bohunice V-2 Reactor.

UF jadrova vyradovacia spolocnost (bohunice)

\*BT1 slovak organizations

RT mochovce liquid raw final treatment facility

**JAW**

UF alveoli (dental)

UF mandible

\*BT1 skull

RT teeth

**jecco process**

2000-04-12

Japanese process using lime to remove sulfur dioxide in flue gas as gypsum.

USE desulfurization

USE lime-limestone wet scrubbing processes

**JEEP-2 REACTOR**

Institute for Atomenergi, Kjeller, Norway.

UF joint establishment experimental pile-2

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

**JEFFERSON LAB MEIC**

2015-08-27

BT1 storage rings

\*BT1 synchrotrons

RT cebaf accelerator

**jefferson laboratory**

INIS: 2000-04-12; ETDE: 1997-03-28

USE cebaf accelerator

**jejunum**

USE small intestine

**JEMEZ MOUNTAINS**

2000-04-12

BT1 mountains

RT new mexico

**JEN-1 REACTOR**

Nuclear Energy Board, Juan Vigon National Nuclear Energy Centre, Madrid, Spain.

UF junta de energia nuclear (spain)-1 reactor

UF spanish jen-1 research reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**JEN-2 REACTOR**

UF junta de energia nuclear (spain)-2 reactor

UF spanish jen-2 research reactor

\*BT1 pool type reactors

\*BT1 research reactors

**JEN REACTOR**

UF junta de energia nuclear (portugal) reactor

UF portuguese jen research reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**jensen sarcoma**

USE experimental neoplasms

**jerusalem artichokes**

INIS: 2000-04-12; ETDE: 1987-12-17

USE sunflowers

**JERVIS BAY REACTOR**

\*BT1 power reactors

**JESSE EFFECT**

Change of ionization characteristics when impurities are added to certain gases.

RT gases

RT impurities

RT ionization

**JET DRILLS**

INIS: 2000-04-12; ETDE: 1977-03-08

\*BT1 drills

RT drill bits

RT jets

RT nozzles

**JET ENGINE FUELS**

1994-08-26

SF aircraft fuels

SF aviation fuels

\*BT1 liquid fuels

RT hydrogen fuels

**JET MODEL**

INIS: 1976-08-17; ETDE: 1976-11-01

UF ujm

UF uncorrelated-jet model

\*BT1 particle models

RT uncorrelated-particle model

**jet reactors**

INIS: 2000-04-12; ETDE: 1978-04-27

(Prior to July 1985, this was a valid ETDE descriptor.)

USE jet tokamak

**JET STREAM**

2013-12-13

RT atmospheric circulation

RT wind

**JET TOKAMAK**

INIS: 1975-11-11; ETDE: 1979-04-11

UF jet reactors

\*BT1 tokamak devices

**JETS**

RT fluid flow

RT jet drills

RT nozzles

**JEZEBEL REACTOR**

LANL, Los Alamos, New Mexico, USA. Shut down in 1987.

\*BT1 zero power reactors

**jfer reactor**

USE joyo reactor

**JFT-2 TOKAMAK**

Tokamak device with circular cross section and no divertor.

\*BT1 tokamak devices

**JFT-2A TOKAMAK**

INIS: 1976-07-30; ETDE: 1976-11-01

Tokamak device with teardrop-like cross section and with an axisymmetric divertor.

UF diva tokamak

UF jaeri fusion torus-2a

\*BT1 tokamak devices

**JFT-2M TOKAMAK**

INIS: 1985-12-10; ETDE: 1986-01-16

Tokamak device with a D-shaped cross section and a divertor.

\*BT1 tokamak devices

**jgc methane-rich gas process**

INIS: 2000-04-12; ETDE: 1976-01-23

Production of town gas or sng from naphtha, natural gasoline, lpg, kerosene, or methanol by catalytic reforming and methanation. (Prior to February 1995, this was a valid ETDE descriptor.)

USE sng processes

**jhr reactor**

2005-02-10

USE jules horowitz reactor

**JIGS**

INIS: 2000-04-12; ETDE: 1976-02-19

Devices that are submerged in water and vibrated to filter or concentrate ore, clean coal, etc.

BT1 concentrators

RT density

RT separation processes

RT sorting

**JININGITE**

2000-04-12

\*BT1 thorite

**JINR**

UF dubna, jinr

UF joint institute for nuclear research

UF ob'edinennyj institut yadernykh

issledovaniy

UF oiiai

BT1 international organizations

RT iren facility

**JINR CYCLOTRONS**

\*BT1 isochronous cyclotrons

NT1 jinr dc-110 cyclotron

NT1 jinr u-400 cyclotron

NT1 jinr u-400m cyclotron

**JINR DC-110 CYCLOTRON**

2018-04-18

*Heavy ion cyclotron for industrial production of track membranes*

\*BT1 heavy ion accelerators

\*BT1 jinr cyclotrons

RT ecr ion sources

**JINR NUCLOTRON**

2018-04-18

*Superconducting accelerator of nuclei and heavy ions*

(Prior to June 2018 JINR SYNCHROTRON was used for this concept.)

UF jinr synchrotron

\*BT1 synchrotrons

RT nica bm@n detector

RT nica collider

RT nica mpd detector

RT nica spd detector

**JINR PHASOTRON**

2018-04-18

(Prior to June 2018 DUBNA SYNCHROCYCLOTRON was used for this concept.)

UF dubna synchrocyclotron

\*BT1 synchrocyclotrons

RT radiotherapy

**jinr synchrotron**

USE jinr nuclotron

**JINR U-400 CYCLOTRON**

INIS: 1982-07-22; ETDE: 1982-08-11

\*BT1 heavy ion accelerators

\*BT1 jinr cyclotrons

**JINR U-400M CYCLOTRON**

2018-04-18

\*BT1 heavy ion accelerators

\*BT1 jinr cyclotrons

**JIPP STELLARATOR**

UF japan institute plasma physics stellarator

\*BT1 stellarators

**JIPPT-2 DEVICE**

INIS: 1982-08-27; ETDE: 1982-09-10

\*BT1 stellarators

\*BT1 tokamak devices

**JMTR REACTOR**

JAERI, Oarai, Ibaraki, Japan.

UF japan materials testing reactor

UF materials testing reactor japan

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**JNC**

INIS: 1999-06-28; ETDE: 1999-07-02

*The Japan Atomic Energy Research Institute (JAERI) and the Japan Nuclear Cycle Development Institute (JNC), previously known as the Power Reactor and Nuclear Fuel Development Corporation (PNC), were merged into a new independent organization named the Japan Atomic Energy Agency (JAEA) in October 2005.*

UF japan nuclear cycle development institute

\*BT1 japanese organizations

**JNES**

2006-01-06

UF japan nuclear energy safety organization

\*BT1 japanese organizations

**JNSDA**

ETDE: 1975-09-11

UF japan nuclear ship development agency

\*BT1 japanese organizations

**job training**

INIS: 2000-04-12; ETDE: 1980-09-22

USE training

**johannite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE sulfate minerals

USE uranium minerals

**JOINING**

BT1 fabrication

NT1 bonding

NT1 fastening

NT1 welding

NT2 arc welding

NT3 gas metal-arc welding

NT4 gas tungsten-arc welding

NT3 plasma arc welding

NT3 shielded metal-arc welding

NT3 submerged arc welding

NT2 brazing

NT2 diffusion welding

NT2 electron beam welding

NT2 electroslag welding

NT2 explosion welding

NT2 forge welding

NT2 friction welding

NT2 gas welding

NT2 induction welding

NT2 laser welding

NT2 magnetic force welding

NT2 resistance welding

NT3 flash welding

NT2 soldering

NT2 ultrasonic welding

NT2 vacuum welding

RT compatibility

RT couplings

RT fasteners

**joint committee on atomic energy**

INIS: 1975-11-27; ETDE: 1975-09-17

USE us jcae

**joint establishment experimental pile-2**

2000-04-12

USE jeep-2 reactor

**joint institute for nuclear research**

1993-11-08

USE jinr

**joint liability**

INIS: 1990-12-15; ETDE: 2002-02-28

(Prior to December 1990, this was a valid descriptor.)

USE liabilities

**JOINT VENTURES**

INIS: 1992-01-16; ETDE: 1978-11-14

*Commercial or maritime enterprises undertaken by several parties jointly.*

BT1 cooperation

RT industry

RT legal aspects

RT liabilities

**JOINTS***Mechanical joints only; see also BONE*

JOINTS.

UF connections

SF junctions

NT1 bolted joints

NT1 brazed joints

NT1 expansion joints

NT1 pipe joints

NT1 soldered joints

NT1 threaded joints

NT1 welded joints

RT bonding

RT closures

RT compatibility

RT fastening

RT flanges

**joints (anatomy)**

USE bone joints

**JOJOBA**

INIS: 1992-01-09; ETDE: 1980-11-25

UF simmondsia chinensis

\*BT1 magnoliopsida

\*BT1 shrubs

RT arid lands

**jominy end-quench technique**

2000-04-12

(Prior to July 1996 this was a valid ETDE descriptor.)

SEE quench hardening

**JONES REDUCTOR**

2000-04-12

RT reduction

**JOOS-WEINBERG EQUATION**

\*BT1 differential equations

RT dirac equation

RT quantum electrodynamics

RT spin

**JORDAN**

1979-12-20

BT1 arab countries

BT1 asia

BT1 developing countries

BT1 middle east

**JORDANIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**jorum event**

1994-10-14

*A test made during OPERATION MANDREL.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**jose cabrera reactor**

USE zorita-1 reactor

**joseph m. farley-1 reactor**

USE farley-1 reactor

**joseph m. farley-2 reactor**

USE farley-2 reactor

**JOSEPHSON EFFECT**

RT josephson junctions

RT superconductivity

**JOSEPHSON JUNCTIONS**

\*BT1 superconducting junctions

RT josephson effect

**JOST FUNCTION**

BT1 functions

RT scattering

RT schroedinger equation

**JOULE HEATING**

UF *ohmic plasma heating*  
 \*BT1 electric heating  
 \*BT1 plasma heating  
 NT1 current-drive heating

**joule-thomson effect**

INIS: 2000-04-12; ETDE: 1978-09-11  
*A change of temperature in a gas undergoing Joule-Thomson expansion.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 SEE thermodynamics

**JOURNAL BEARINGS**

BT1 bearings

**JOYO REACTOR**

JNC, Oarai, Ibaraki, Japan.  
 UF *efr reactor*  
 UF *fast experimental breeder reactor japan*  
 UF *japan fast experimental breeder reactor*  
 UF *jfer reactor*  
 \*BT1 experimental reactors  
 \*BT1 lmfr type reactors  
 \*BT1 power reactors

**JPDR-2 REACTOR**

1979-09-18  
 JAERI, Tokai, Ibaraki, Japan.  
 UF *japan power demonstration reactor-2*  
 \*BT1 bwr type reactors

**JPDR REACTOR**

JAERI, Tokai, Ibaraki, Japan. Permanent shutdown since March 1976.  
 UF *japan power demonstration reactor*  
 \*BT1 bwr type reactors  
 \*BT1 experimental reactors

**jpfr reactor**

INIS: 1977-03-01; ETDE: 1977-04-12  
 USE monju reactor

**JPL PROCESS**

INIS: 2000-04-12; ETDE: 1978-07-05  
*Coal desulfurization process consisting of sequential steps of chlorination, hydrolysis, and dechlorination.*  
 \*BT1 desulfurization  
 RT coal preparation

**JRR-1 REACTOR**

JAERI, Tokai, Ibaraki, Japan.  
 UF *japan research reactor-1*  
 \*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 training reactors

**JRR-2 REACTOR**

JAERI, Tokai, Ibaraki, Japan.  
 UF *japan research reactor-2*  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors

**JRR-3 REACTOR**

JAERI, Tokai, Ibaraki, Japan. This reactor was shut down in 1983 and replaced in 1990 by the JRR-3M REACTOR.  
 UF *japan research reactor-3*  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors

\*BT1 materials testing reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors

**JRR-3M REACTOR**

INIS: 1992-01-24; ETDE: 1992-02-14  
 JAERI, Tokai, Ibaraki, Japan. This reactor replaces the JRR-3 Reactor which was shut down in 1983.  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**JRR-4 REACTOR**

JAERI, Tokai, Ibaraki, Japan.  
 UF *japan research reactor-4*  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**jt-60 reactors**

INIS: 2000-04-12; ETDE: 1978-04-27  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE jt-60 tokamak

**jt-60-su tokamak**

INIS: 1999-07-26; ETDE: 2002-02-28  
 USE jt-60u tokamak

**JT-60 TOKAMAK**

INIS: 1977-01-25; ETDE: 1979-04-11  
 UF *jt-60 reactors*  
 \*BT1 tokamak devices  
 RT jt-60u tokamak

**JT-60U TOKAMAK**

INIS: 1991-03-22; ETDE: 1991-04-09  
 UF *jt-60-su tokamak*  
 \*BT1 tokamak devices  
 RT jt-60 tokamak

**juelich (kernforschungsanlage)**

INIS: 1984-06-21; ETDE: 1995-10-30  
 USE forschungszentrum juelich

**juelich-dido reactor**

USE frj-2 reactor

**juelich-merlin reactor**

USE frj-1 reactor

**juelich storage ring**

INIS: 1992-04-16; ETDE: 2002-02-28  
 USE cosy storage ring

**juices**

USE beverages

**JULES HOROWITZ REACTOR**

2005-02-10  
*High flux materials testing reactor; CEA, Cadarache, Saint-Paul-lez-Durance, France. Under construction. Criticality is expected in 2021.*  
 UF *jhr reactor*  
 UF *reacteur jules horowitz*  
 UF *rjh reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 materials testing reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**JULIC CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24  
 \*BT1 isochronous cyclotrons

**JUNCTION DETECTORS**

UF *p-n counters*

\*BT1 semiconductor detectors  
 NT1 li-drifted junction detectors  
 RT semiconductor junctions

**JUNCTION DIODES**

UF *zener diodes*  
 \*BT1 semiconductor diodes

**JUNCTION TRANSISTORS**

\*BT1 transistors  
 RT semiconductor junctions

**junctions**

2000-03-28  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 SEE connectors  
 SEE electric contacts  
 SEE joints  
 SEE semiconductor junctions  
 SEE superconducting junctions

**junipers**

INIS: 1992-01-15; ETDE: 2002-02-28  
 USE cedars

**juniperus**

INIS: 2000-04-12; ETDE: 1985-12-11  
 USE cedars

**JUNO REACTOR**

UF *ukaea-juno reactor*  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water moderated reactors  
 \*BT1 zero power reactors

**junta de energia nuclear (portugal) reactor**

INIS: 1984-06-21; ETDE: 2002-02-28  
 USE jen reactor

**junta de energia nuclear (spain)-1 reactor**

INIS: 1984-06-21; ETDE: 2002-02-28  
 USE jen-1 reactor

**junta de energia nuclear (spain)-2 reactor**

INIS: 1984-06-21; ETDE: 2002-02-28  
 USE jen-2 reactor

**JUPITER PLANET**

BT1 planets

**JURAGUA-1 REACTOR**

INIS: 1993-02-11; ETDE: 1993-03-04  
*Juragua, Cienfuegos, Cuba. Construction was cancelled in 2000.*  
 \*BT1 wwer type reactors

**JURASSIC PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19  
 \*BT1 mesozoic era

**justice department**

INIS: 2000-04-12; ETDE: 1980-08-25  
 USE us doj

**JUTE**

\*BT1 corchorus  
 RT fibers  
 RT textiles

**JUVENILES**

INIS: 1986-03-04; ETDE: 1976-04-19  
 RT adolescents  
 RT age groups  
 RT children

**jxfr reactor**

INIS: 1981-11-25; ETDE: 1982-01-07

USE jxfr tokamak

**JXFR TOKAMAK**

INIS: 1981-11-25; ETDE: 1982-01-07

UF jaeri experimental fusion reactor

UF jxfr reactor

\*BT1 tokamak devices

**k-1240 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE strange mesons

**k-1320 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE k\*0-1430 mesons

**k-1420 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE k\*2-1430 mesons

**K-1460 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 pseudoscalar mesons

\*BT1 strange mesons

**k-1775 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE k2-1770 mesons

**K-1830 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 pseudoscalar mesons

\*BT1 strange mesons

**k-1871 resonances**

INIS: 1988-03-08; ETDE: 1978-03-08

(Prior to December 1987 this was a valid descriptor.)

USE strange mesons

**k-2130 resonances**

INIS: 1987-12-21; ETDE: 1979-10-23

(Prior to December 1987 this was a valid descriptor.)

USE k\*4-2045 mesons

**k-25 plant**

USE orgdp

**k-892 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE k\*-892 mesons

**K ABSORPTION**

\*BT1 absorption

**K CAPTURE**

\*BT1 electron capture decay

**K CODES**

BT1 computer codes

**K CONVERSION**

UF k-conversion coefficient

\*BT1 internal conversion

**k-conversion coefficient**

USE k conversion

**K-HARMONICS METHOD**

1978-11-24

BT1 calculation methods

RT nuclear structure

**K MATRIX**

BT1 matrices

RT nuclear reactions

RT unitary pole approximation

**K REACTOR**

Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.

UF savannah river plant k reactor

\*BT1 heavy water moderated reactors

\*BT1 special production reactors

**K SHELL**

INIS: 1976-07-06; ETDE: 1976-08-24

Atomic electron shells.

UF atomic shells (k)

BT1 electronic structure

**K\*-1410 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 strange mesons

\*BT1 vector mesons

**K\*-1680 MESONS**

1995-07-17

\*BT1 strange mesons

\*BT1 vector mesons

**K\*-892 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by K-892 RESONANCES.)

UF k-892 resonances

\*BT1 strange mesons

\*BT1 vector mesons

**k\*0-1350 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(From December 1987 until July 1995 this was a valid term.)

USE k\*0-1430 mesons

**K\*0-1430 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by K-1320 RESONANCES; from then until July 1995 it was indexed by K\*0-1350 MESONS.)

UF k-1320 resonances

UF k\*0-1350 mesons

\*BT1 scalar mesons

\*BT1 strange mesons

**K\*2-1430 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by K-1420 RESONANCES.)

UF k-1420 resonances

\*BT1 strange mesons

\*BT1 tensor mesons

**K\*3-1780 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 strange mesons

\*BT1 tensor mesons

**K\*4-2045 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by K-2130 RESONANCES; from then until July 1995 it was indexed by K\*4-2060 MESONS.)

UF k-2130 resonances

UF k\*4-2060 mesons

\*BT1 strange mesons

\*BT1 tensor mesons

**k\*4-2060 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(From December 1987 until July 1995 this was a valid term.)

USE k\*4-2045 mesons

**k\*resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE strange mesons

**k01**

USE kaons neutral short-lived

**k02**

USE kaons neutral long-lived

**K1-1270 MESONS**

1995-08-07

(Until July 1995 this concept was indexed by K1-1280 MESONS.)

UF k1-1280 mesons

SF q enhancement

SF q resonances

\*BT1 axial vector mesons

\*BT1 strange mesons

**k1-1280 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(Until July 1995 this was a valid term.)

USE k1-1270 mesons

**K1-1400 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

SF q enhancement

SF q resonances

\*BT1 axial vector mesons

\*BT1 strange mesons

**K2-1770 MESONS**

INIS: 1995-07-17; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by K-1775 RESONANCES.)

UF k-1775 resonances

SF l resonances

\*BT1 strange mesons

\*BT1 tensor mesons

**K2-1820 MESONS**

1995-07-17

\*BT1 strange mesons

\*BT1 tensor mesons

**KAERI**

INIS: 1981-12-23; ETDE: 1982-02-09

Korea Atomic Energy Research Institute.

(Prior to December 1989 this descriptor was used to index Korea Advanced Energy Research Institute.)

UF korea advanced energy research institute

UF korea atomic energy research institute

\*BT1 korean organizations

**kahl-main reactor**

USE hdr reactor

**kahl-vak reactor**

USE vak reactor

**KAHLERITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT arsenic oxides

RT iron oxides

RT uranium oxides



**KAHTER REACTOR**

INIS: 1980-05-14; ETDE: 1975-11-26  
Shut down since 1984. Decommissioned since 1988.

- UF kritische anlage zum htr  
\*BT1 htgr type reactors  
\*BT1 zero power reactors

**KAIGA-1 REACTOR**

INIS: 1993-02-09; ETDE: 1993-03-04  
Kaiga, Karnataka, India.

- \*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

**KAIGA-2 REACTOR**

INIS: 1993-02-09; ETDE: 1993-03-04  
Kaiga, Karnataka, India.

- \*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

**KAIGA-3 REACTOR**

2005-07-22  
Nuclear Power Corporation of India Ltd.,  
Kaiga, Karnataka, India.

- \*BT1 phwr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**KAIGA-4 REACTOR**

2005-07-22  
Nuclear Power Corporation of India Ltd.,  
Kaiga, Karnataka, India.

- \*BT1 phwr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**KAINOSITE**

2000-04-12

- \*BT1 radioactive minerals  
\*BT1 silicate minerals  
RT calcium silicates  
RT cerium silicates  
RT yttrium silicates

**KAISERAUGST REACTOR**

Plan was cancelled

- \*BT1 bwr type reactors

**KAKKONDA GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1979-10-23

- BT1 geothermal fields  
RT japan

**KAKRAPAR-1 REACTOR**

INIS: 1993-03-10; ETDE: 1993-04-16  
Surat, Gujarat, India.

- \*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

**KAKRAPAR-2 REACTOR**

INIS: 1993-03-10; ETDE: 1993-04-16  
Surat, Gajarat, India.

- \*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

**KALE**

1991-12-16

- \*BT1 brassica

**KALININ-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
Kalinin NPP, Udomlya, Tver region, Russian  
Federation

- \*BT1 wwer type reactors

**KALININ-2 REACTOR**

2015-03-31

Kalinin NPP, Udomlya, Tver region, Russian  
Federation

- \*BT1 wwer type reactors

**KALININ-3 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

Kalinin NPP, Udomlya, Tver region, Russian  
Federation

- \*BT1 wwer type reactors

**KALININ-4 REACTOR**

2015-03-31

Kalinin NPP, Udomlya, Tver region, Russian  
Federation

- \*BT1 wwer type reactors

**kalkar power reactor**

INIS: 2000-04-12; ETDE: 1975-10-01

- USE snr reactor

**KALLIKREIN**

(Prior to January 1981 this was a valid ETDE  
descriptor. From January 1981 to November 1  
990 this material was indexed to  
KININOGENIN.)

- UF kininogenin  
\*BT1 blood coagulation factors  
\*BT1 radioprotective substances  
\*BT1 serine proteinases

**KALPAKKAM-1 REACTOR**

Kalpakkam, Tamil Nadu, India.

- UF madras-1 reactor  
UF maps-1 reactor  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
\*BT1 pressure tube reactors

**KALPAKKAM-2 REACTOR**

Kalpakkam, Tamil Nadu, India.

- UF madras-2 reactor  
UF maps-2 reactor  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
\*BT1 pressure tube reactors

**KALPAKKAM LMFBR REACTOR**

Kalpakkam, Tamil Nadu, India.

- UF fast breeder test reactor (kalpakkam)  
UF fbr reactor (kalpakkam)  
UF test fast breeder reactor kalpakkam  
\*BT1 lmfr type reactors  
\*BT1 test reactors  
RT coral reprocessing plant

**KALPAKKAM PFBR REACTOR**

2005-07-22

Bharatiya Nabhikiya Vidyut Nigam Ltd.,  
Kalpakkam, Tamil Nadu, India.

- UF kalpakkam prototype fast breeder  
reactor  
\*BT1 fbr type reactors

**KALPAKKAM PFR REACTOR**

INIS: 1975-10-29; ETDE: 1975-12-16

Kalpakkam, Tamil Nadu, India.

- UF kalpakkam pulsed fast reactor  
\*BT1 air cooled reactors  
\*BT1 fast reactors  
\*BT1 pulsed reactors  
\*BT1 research and test reactors

**kalpakkam prototype fast breeder reactor**

2005-07-22

- USE kalpakkam pfr reactor

**kalpakkam pulsed fast reactor**

INIS: 1975-10-29; ETDE: 1975-12-16

- USE kalpakkam pfr reactor

**kalpakkam reactor research center**

INIS: 1989-02-24; ETDE: 1977-06-03

Reactor Research Centre, Kalpakkam, India.

- USE igcar

**KALUZA-KLEIN THEORY**

INIS: 1984-01-18; ETDE: 1984-02-10

Approach to unify electromagnetism and  
gravitation in the framework of general  
relativity theory by introducing a fifth space-  
time coordinate, the generator of which is the  
electric charge.

- \*BT1 unified field theories  
RT compactification  
RT dilatons  
RT electromagnetism  
RT general relativity theory  
RT gravitation  
RT supergravity  
RT unified gauge models

**KAMCHATKA**

INIS: 1992-06-04; ETDE: 1978-06-14

- \*BT1 russian federation

**KAMINI REACTOR**

INIS: 1989-12-08; ETDE: 1990-01-03

IGCAR, Kalpakkam, Tamilnadu, India.

- \*BT1 research and test reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**KAMOJANG GEOTHERMAL FIELD**

INIS: 1992-06-04; ETDE: 1980-03-04

- BT1 geothermal fields  
RT indonesia

**kangaroo rat**

Long-tailed jumping rat of western USA.

- USE rodents

**kangaroos**

INIS: 1993-05-04; ETDE: 1981-06-15

- USE marsupials

**kansai-1 reactor**

- USE mihama-1 reactor

**kansai-2 reactor**

- USE mihama-2 reactor

**kansai-3 reactor**

- USE takahama-1 reactor

**kansai-4 reactor**

- USE takahama-2 reactor

**KANSAS**

- \*BT1 usa

- RT chattanooga formation  
RT missouri river  
RT permian basin

**KANSAS CITY PLANT**

INIS: 1991-02-11; ETDE: 1988-05-23

US DOE Facility in Kansas City, Missouri.

- \*BT1 us doe  
\*BT1 us erda  
RT missouri

**kansas state university triga mk-2 reactor**

1993-11-09

- USE triga-2-kansas reactor

**KANTHAL**

2000-04-12

- \*BT1 aluminium alloys  
\*BT1 chromium alloys  
\*BT1 cobalt alloys

\*BT1 iron base alloys

## KANUPP REACTOR

*Paradise Point, Sind, Pakistan.*

UF *karachi nuclear power plant*

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

## KAOLIN

*A group of clay minerals, mainly hydrous aluminium silicate.*

UF *china clay*

\*BT1 clays

\*BT1 oxide minerals

RT *kaolinite*

## KAOLINITE

1992-07-20

*Hydrous silicate of aluminium that constitutes the principal mineral in kaolin.*

\*BT1 silicate minerals

RT *aluminium silicates*

RT *kaolin*

## KAON BEAMS

\*BT1 meson beams

## KAON DETECTION

1976-02-11

\*BT1 radiation detection

## *kaon-deuteron interactions*

(Prior to March 1996 this was a valid ETDE descriptor.)

USE *kaon-neutron interactions*

USE *kaon-proton interactions*

## KAON-HYPERON INTERACTIONS

\*BT1 meson-hyperon interactions

## KAON-KAON INTERACTIONS

\*BT1 meson-meson interactions

## *kaon minus-deuteron interactions*

2000-04-12

(Prior to March 1996 KAON-DEUTERON INTERACTIONS was used for this concept in ETDE.)

USE *kaon minus-neutron interactions*

USE *kaon minus-proton interactions*

## KAON MINUS-NEUTRON INTERACTIONS

INIS: 1977-01-25; ETDE: 1976-07-09

UF *kaon minus-deuteron interactions*

\*BT1 kaon-neutron interactions

## KAON MINUS-PROTON INTERACTIONS

INIS: 1977-01-25; ETDE: 1976-07-09

UF *kaon minus-deuteron interactions*

\*BT1 kaon-proton interactions

## KAON MINUS REACTIONS

INIS: 1977-03-01; ETDE: 1976-07-09

\*BT1 kaon reactions

## *kaon neutral-deuteron interactions*

2000-04-12

(Prior to March 1996 KAON-DEUTERON INTERACTIONS was used for this concept in ETDE.)

USE *kaon neutral-neutron interactions*

USE *kaon neutral-proton interactions*

## KAON NEUTRAL-NEUTRON INTERACTIONS

INIS: 1979-09-18; ETDE: 1976-07-09

UF *kaon neutral-deuteron interactions*

\*BT1 kaon-neutron interactions

## KAON NEUTRAL-PROTON INTERACTIONS

INIS: 1977-06-13; ETDE: 1976-07-09

UF *kaon neutral-deuteron interactions*

\*BT1 kaon-proton interactions

## KAON NEUTRAL REACTIONS

INIS: 1979-09-18; ETDE: 1976-07-09

\*BT1 kaon reactions

## KAON-NEUTRON INTERACTIONS

(From February 1975 until March 1996

KAON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF *kaon-deuteron interactions*

\*BT1 kaon-nucleon interactions

NT1 *kaon minus-neutron interactions*

NT1 *kaon neutral-neutron interactions*

NT1 *kaon plus-neutron interactions*

## KAON-NUCLEON INTERACTIONS

\*BT1 meson-nucleon interactions

NT1 *kaon-neutron interactions*

NT2 *kaon minus-neutron interactions*

NT2 *kaon neutral-neutron interactions*

NT2 *kaon plus-neutron interactions*

NT1 *kaon-proton interactions*

NT2 *kaon minus-proton interactions*

NT2 *kaon neutral-proton interactions*

NT2 *kaon plus-proton interactions*

## *kaon plus-deuteron interactions*

2000-04-12

(Prior to March 1996 KAON-DEUTERON INTERACTIONS was used for this concept in ETDE.)

USE *kaon plus-neutron interactions*

USE *kaon plus-proton interactions*

## KAON PLUS-NEUTRON INTERACTIONS

INIS: 1977-01-25; ETDE: 1976-07-09

UF *kaon plus-deuteron interactions*

\*BT1 kaon-neutron interactions

## KAON PLUS-PROTON INTERACTIONS

INIS: 1977-01-25; ETDE: 1976-07-09

UF *kaon plus-deuteron interactions*

\*BT1 kaon-proton interactions

## KAON PLUS REACTIONS

INIS: 1977-09-15; ETDE: 1976-07-09

\*BT1 kaon reactions

## KAON-PROTON INTERACTIONS

(From February 1975 until March 1996

KAON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF *kaon-deuteron interactions*

\*BT1 kaon-nucleon interactions

NT1 *kaon minus-proton interactions*

NT1 *kaon neutral-proton interactions*

NT1 *kaon plus-proton interactions*

## KAON REACTIONS

\*BT1 meson reactions

NT1 *kaon minus reactions*

NT1 *kaon neutral reactions*

NT1 *kaon plus reactions*

## KAONIC ATOMS

\*BT1 mesic atoms

RT *kaonium*

## KAONIUM

INIS: 1985-11-19; ETDE: 1985-12-13

RT *bound state*

RT *kaonic atoms*

RT *kaons minus*

RT *kaons plus*

RT *muonium*

RT *pionium*

## KAONS

\*BT1 pseudoscalar mesons

\*BT1 strange mesons

NT1 *antikaons*

NT2 *antikaons neutral*

NT1 *cosmic kaons*

NT1 *kaons minus*

NT1 *kaons neutral*

NT2 *antikaons neutral*

NT2 *kaons neutral long-lived*

NT2 *kaons neutral short-lived*

NT1 *kaons plus*

RT *pi-k atoms*

## *kaons 1*

USE *kaons neutral short-lived*

## *kaons 2*

USE *kaons neutral long-lived*

## KAONS MINUS

\*BT1 kaons

RT *kaonium*

## KAONS NEUTRAL

\*BT1 kaons

NT1 *antikaons neutral*

NT1 *kaons neutral long-lived*

NT1 *kaons neutral short-lived*

## KAONS NEUTRAL LONG-LIVED

UF *k02*

UF *kaons 2*

\*BT1 kaons neutral

## KAONS NEUTRAL SHORT-LIVED

UF *k01*

UF *kaons 1*

\*BT1 kaons neutral

## KAONS PLUS

\*BT1 kaons

RT *kaonium*

## KAPITZA RESISTANCE

BT1 *thermal boundary resistance*

## KAPL

UF *knolls atomic power laboratory*

\*BT1 *us aec*

\*BT1 *us doe*

\*BT1 *us erda*

RT *new york*

## *kappa-725 resonances*

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE *mesons*

## *kapur-peierls method*

USE *peierls method*

## *karachi nuclear power plant*

USE *kanupp reactor*

## *karlsruhe (forschungszentrum)*

1995-10-25

USE *forschungszentrum karlsruhe*

## *karlsruhe (kernforschungszentrum)*

INIS: 1993-11-09; ETDE: 2002-02-28

USE *forschungszentrum karlsruhe*

## KARLSRUHE CYCLOTRON

\*BT1 *isochronous cyclotrons*

## *karlsruhe nuclear research center*

2000-04-12

USE *forschungszentrum karlsruhe*

**karlsruhe reprocessing plant**

INIS: 1979-11-02; ETDE: 1979-02-23  
Wiederaufarbeitungsanlage Karlsruhe.  
USE wak

**karlsruhe research reactor fr-2**

2000-04-12  
USE fr-2 reactor

**KARTINI-PPNY REACTOR**

INIS: 1996-11-11; ETDE: 1996-10-25  
Yogyakarta, Indonesia.  
\*BT1 research reactors  
\*BT1 triga type reactors

**KARYOTYPE**

RT acrocentric chromosomes  
RT chromosomal aberrations  
RT chromosomes  
RT genome mutations  
RT human chromosomes

**kashiwazaki-1 reactor**

INIS: 2000-04-12; ETDE: 1979-09-26  
(Prior to September 1989 this was a valid ETDE descriptor.)  
USE kashiwazaki-kariwa-1 reactor

**KASHIWAZAKI-KARIWA-1 REACTOR**

INIS: 1987-01-28; ETDE: 1989-09-18  
TEPCO, Kashiwazaki, Niigata, Japan.  
(The form KASHIWAZAKI-1 REACTOR was used by INIS prior to January 1987 and by ETDE prior to September 1989.)  
UF kashiwazaki-1 reactor  
UF tokyo-denrioku k-1 reactor  
\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-2 REACTOR**

INIS: 1985-04-22; ETDE: 1985-05-07  
TEPCO, Kashiwazaki, Niigata, Japan.  
UF tokyo-denryoku k-2 reactor  
\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-3 REACTOR**

INIS: 1991-10-09; ETDE: 1994-08-10  
TEPCO, Kashiwazaki, Niigata, Japan.  
\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-4 REACTOR**

INIS: 1990-12-21; ETDE: 1991-01-15  
TEPCO, Kashiwazaki, Niigata, Japan.  
\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-5 REACTOR**

INIS: 1988-11-16; ETDE: 1988-12-02  
TEPCO, Kashiwazaki, Niigata, Japan.  
\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-6 REACTOR**

INIS: 1989-09-14; ETDE: 1989-10-16  
TEPCO, Kashiwazaki, Niigata, Japan.  
\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-7 REACTOR**

INIS: 1989-09-15; ETDE: 1989-10-16  
TEPCO, Kashiwazaki, Niigata, Japan.  
\*BT1 bwr type reactors

**kasseri event**

INIS: 2000-04-12; ETDE: 1977-06-21  
USE anvil project

**kawasaki-hitachi training reactor**

USE htr reactor

**KAWERAU GEOTHERMAL FIELD**

2000-04-12  
BT1 geothermal fields  
RT geothermal hot-water systems  
RT new zealand

**KAZAKHSTAN**

INIS: 1997-11-07; ETDE: 1997-08-23  
(Until January 1993, this was indexed by USSR. Between January 1997 and July 1997 the descriptor was spelled KAZAKSTAN.)

UF kazakstan  
SF soviet union  
SF union of soviet socialist republics  
SF ussr  
BT1 asia  
BT1 developing countries  
RT aral sea  
RT caspian sea  
RT semipalatinsk test site  
RT urals

**KAZAKHSTAN CYCLOTRON**

INIS: 1997-07-30; ETDE: 1997-08-23  
(Between January 1997 and July 1997 this descriptor was spelled KAZAKSTAN CYCLOTRON.)  
UF kazakstan cyclotron  
\*BT1 isochronous cyclotrons

**kazakhstan ewg-1 reactor**

INIS: 2003-11-26; ETDE: 2003-12-03  
Kurchatov city, East Kazakhstan.  
USE ewg-1 reactor

**kazakhstan igr reactor**

INIS: 2003-11-26; ETDE: 2003-12-03  
Kurchatov city, East Kazakhstan.  
USE igr reactor

**KAZAKHSTAN ORGANIZATIONS**

INIS: 1999-07-20; ETDE: 1999-08-30  
BT1 national organizations

**kazakstan**

INIS: 1997-07-30; ETDE: 1996-12-24  
(From January 1997 until July 1997 this was a valid descriptor.)  
USE kazakhstan

**kazakstan cyclotron**

INIS: 1997-07-30; ETDE: 1996-12-24  
(From January 1997 until July 1997 this was a valid descriptor.)  
USE kazakhstan cyclotron

**KBR-1 REACTOR**

1995-01-11  
Soviet annular oscillator fast reactor.  
UF cobra reactor  
\*BT1 fast reactors  
\*BT1 zero power reactors

**KBW GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1982-12-23  
Entrained flow coal gasification process under development by Koppers and Babcock and Wilcox.  
\*BT1 coal gasification

**kcb reactor**

Kernenergiecentrale borssele.  
USE borssele reactor

**kdf computers**

1996-06-28  
(Until June 1996 this was a valid descriptor.)  
USE computers

**KECEROVCE-1 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13  
East Slovakia.  
\*BT1 wwer type reactors

**kelson event**

INIS: 2000-04-12; ETDE: 1977-06-21  
USE anvil project

**KEK**

2016-07-11  
(Tsukuba, Ibaraki, Japan)  
UF high energy accelerator research organization  
\*BT1 japanese organizations  
RT j-parc center

**kek intersecting storage accelerator**

INIS: 2000-04-12; ETDE: 1981-10-24  
USE tristan storage rings

**KEK LINAC**

\*BT1 linear accelerators

**KEK PHOTON FACTORY**

INIS: 1984-07-20; ETDE: 1984-08-20  
\*BT1 synchrotron radiation sources  
RT linear accelerators

**KEK SYNCHROTRON**

Japan National Laboratory for High Energy Physics Synchrotron.  
UF tsukuba kek synchrotron  
\*BT1 synchrotrons

**KEL-F**

\*BT1 organic chlorine compounds  
\*BT1 organic fluorine compounds  
\*BT1 polyethylenes

**KELLOGG PROCESS**

2000-04-12  
M. W. Kellogg company process for producing high-btu gas in which synthesis gas, produced by using molten salt (sodium carbonate) to provide heat and possibly catalyze the reaction, is methanated.  
UF molten salt process (kellogg)  
\*BT1 coal gasification  
BT1 sng processes  
RT high btu gas

**kellogg rust westinghouse process**

INIS: 2000-04-12; ETDE: 1985-07-19  
USE krw gasification process

**kelp**

INIS: 1992-01-13; ETDE: 1976-12-15  
USE seaweeds

**kelvin-helmholtz instability**

USE helmholtz instability

**kema suspension test reactor**

USE kstr reactor

**KENNEBEC RIVER**

INIS: 1992-06-04; ETDE: 1980-10-27  
\*BT1 rivers  
RT maine

**KENTUCKY**

1997-06-19  
\*BT1 usa  
RT chattanooga formation  
RT cumberland river  
RT illinois basin  
RT mississippi river  
RT ohio river  
RT paducah plant  
RT shawnee steam plant  
RT tennessee river  
RT tennessee valley region

**KENYA**

- BT1 africa  
BT1 developing countries

**kepcos oshima oi-1 reactor**

- USE oi-1 reactor

**kepcos oshima oi-2 reactor**

- USE oi-2 reactor

**KEPONE**

INIS: 2000-04-12; ETDE: 1978-09-11

- \*BT1 insecticides  
RT organic chlorine compounds

**KERATIN**

- \*BT1 scleroproteins

**KERMA**

Total kinetic energy of charged particles produced by ionizing radiation per unit mass of irradiated material in ergs per gram.

- RT ionization  
RT kinetic energy  
RT radiation doses

**KERNELS**

- NT1 point kernels  
RT integral equations

**kernels (fuel)**

- USE fuel particles

**kernels (slowing-down)**

- USE slowing-down kernels

**kernenergiecentrale borssele reactor**

INIS: 1984-06-21; ETDE: 2002-03-09

- USE borssele reactor

**kernforschungsanlage juelich**

1995-04-13

(Until March 1995 this was a valid descriptor.)

- USE forschungszentrum juelich

**kernforschungszentrum karlsruhe**

1995-10-25

(Prior to October 1995 this was a valid ETDE descriptor.)

- USE forschungszentrum karlsruhe

**kernfysisch versneller instituut**

INIS: 1977-09-06; ETDE: 1977-10-19

- USE kvi

**kernfysisch versneller instituut cyclotron**

INIS: 1993-11-09; ETDE: 2002-02-28

- USE kvi cyclotron

**kernkraftwerk biblis**

- USE biblis-1 reactor

**kernkraftwerk biblis-3**

INIS: 1976-10-07; ETDE: 1976-11-02

- USE biblis-3 reactor

**kernkraftwerk biblis-4**

INIS: 1976-10-07; ETDE: 1976-11-02

- USE biblis-4 reactor

**kernkraftwerk biblis-a**

INIS: 1976-10-07; ETDE: 2002-03-01

- USE biblis-1 reactor

**kernkraftwerk biblis-b**

INIS: 1976-10-07; ETDE: 2002-03-01

- USE biblis-2 reactor

**kernkraftwerk brokdorf**

INIS: 1976-09-06; ETDE: 1976-11-02

- USE brokdorf reactor

**kernkraftwerk emsland**

INIS: 1980-02-26; ETDE: 1980-03-29

- USE emsland reactor

**kernkraftwerk goesgen-daeniken**

- USE goesgen reactor

**kernkraftwerk isar**

- USE isar reactor

**kernkraftwerk isar-2**

INIS: 2000-04-12; ETDE: 1982-10-05

- USE isar-2 reactor

**kernkraftwerk lingen**

- USE lingen reactor

**kernkraftwerk niederaichbach**

- USE niederaichbach reactor

**kernkraftwerk obrigheim**

- USE obrigheim reactor

**kernkraftwerk philippsburg-1**

- USE philippsburg-1 reactor

**kernkraftwerk philippsburg-2**

- USE philippsburg-2 reactor

**kernkraftwerk rwe-bayernwerk**

- USE rwe-bayernwerk reactor

**kernkraftwerk stade**

- USE stade reactor

**kernkraftwerk vahnum-1**

INIS: 1977-02-08; ETDE: 2002-02-28

- USE vahnum-1 reactor

**kernkraftwerk vahnum-2**

INIS: 1977-02-08; ETDE: 2002-02-28

- USE vahnum-2 reactor

**kernkraftwerk wuergassen**

- USE wuergassen reactor

**KEROGEN**

1999-09-01

Solid, bituminous mineraloid substance in oil shales that yields oil when shales undergo destructive distillation.

- \*BT1 bituminous materials  
\*BT1 organic matter  
RT oil shales  
RT shale oil

**KEROSENE**

- \*BT1 gas oils  
\*BT1 liquid fuels  
RT automotive fuels

**KERR EFFECT**

- \*BT1 dielectric properties  
RT magneto-optical effects  
RT polarization  
RT visible radiation

**KERR FIELD**

- BT1 gravitational fields  
RT axial symmetry  
RT black holes  
RT einstein field equations  
RT kerr metric

**KERR METRIC**

- BT1 metrics  
RT kerr field

**KETENES**

- \*BT1 organic oxygen compounds  
RT carboxylic acids

**KETO ACIDS**

For carboxylic acids only.

- UF oxocarboxylic acids  
\*BT1 carboxylic acids  
NT1 acetoacetic acid  
NT1 kynurenine  
NT1 levulinic acid  
NT1 pyruvic acid

**ketobutyric acid-beta**

- USE acetoacetic acid

**KETONES**

1996-10-23

(Most of the UF terms below have been valid ETDE descriptors.)

- UF acridones  
UF aminopropiophenone-para  
UF dianabol  
UF ndpp  
UF ninhydrin  
UF papp  
UF phloredzin  
UF phlorhizin  
UF phlorizin  
UF triketohydrindane  
UF violanthrone  
BT1 organic compounds  
NT1 2-3-pentanedione  
NT1 acetone  
NT1 acetophenone  
NT1 acetylacetone  
NT1 androstenedione  
NT1 androsterone  
NT1 benzophenone  
NT1 camphor  
NT1 corticosteroids  
NT2 glucocorticoids  
NT3 corticosterone  
NT3 cortisone  
NT3 dexamethasone  
NT3 hydrocortisone  
NT3 prednisolone  
NT3 prednisone  
NT2 mineralocorticoids  
NT3 aldosterone

- NT1 curcumin  
NT1 cyclohexanone  
NT1 estrone  
NT1 fructose  
NT1 hydroxyandrostenone  
NT1 hydroxypregnenone  
NT1 hydroxypropiophenone  
NT1 methyl isobutyl ketone  
NT1 progesterone  
NT1 ribulose  
NT1 sorbose  
NT1 testosterone  
NT1 triacetoneamine-n-oxyl  
NT1 tropones  
NT1 tta  
RT enols  
RT hydrazones  
RT imines  
RT luminol  
RT oximes  
RT quinones  
RT semicarbazones

**ketopropionic acid-alpha**

- USE pyruvic acid

**ketosteroids (urinary)**

- USE urinary ketosteroids

**ketovaleric acid-gamma**

- USE levulinic acid

**KEV RANGE**

- BT1 energy range

**NT1** kev range 01-10  
**NT1** kev range 10-100  
**NT1** kev range 100-1000

**KEV RANGE 01-10**

\*BT1 kev range

**KEV RANGE 10-100**

\*BT1 kev range

**KEV RANGE 100-1000**

\*BT1 kev range

**kevlar**

*INIS: 2000-04-12; ETDE: 1978-07-06*

USE aramids

**KEWAUNEE REACTOR**

*Nuclear Management Corp, Carlton, Wisconsin, USA. Permanent shutdown since 2013.*

UF carlton power reactor

UF wisconsin public service power reactor

\*BT1 pwr type reactors

**KEWB REACTOR**

*US ERDA/Atomics International Div., Rockwell International, Santa Susana, California, USA. Shut down in 1967; dismantled in 1975.*

UF kinetic experiment water boiler

\*BT1 aqueous homogeneous reactors

**KEY LAKE MINE**

*1991-07-02*

\*BT1 uranium mines

RT saskatchewan

**kfki reactor**

*INIS: 2000-04-12; ETDE: 1975-07-29*

USE wwr-s-budapest reactor

**KGRA**

*INIS: 2000-04-12; ETDE: 1976-05-17*

UF known geothermal resource area

**NT1** klamath falls

**NT1** roosevelt hot springs

**NT1** wendell-amedee hot springs

RT geothermal fields

**KHALATNIKOV THEORY**

RT superfluidity

RT thermodynamics

**KHARKOV LINAC**

\*BT1 linear accelerators

**khmelnitski-1 reactor**

*2017-10-30*

USE khmelnitskij-1 reactor

**khmelnitski-2 reactor**

*2017-10-30*

USE khmelnitskij-2 reactor

**KHMELNITSKIJ-1 REACTOR**

*INIS: 1989-09-14; ETDE: 1989-10-16*

*Ukraine.Netishyn, Khmelnytskyi, Ukraine.*

UF khmelnitski-1 reactor

\*BT1 wwer type reactors

**KHMELNITSKIJ-2 REACTOR**

*2017-10-30*

*Netishyn, Khmelnytskyi, Ukraine.*

UF khmelnitski-2 reactor

\*BT1 wwer type reactors

**khuri representation**

*1996-07-18*

(Until July 1996 this was a valid descriptor.)

SEE dispersion relations

SEE mandelstam representation

SEE scattering

**KHZ RANGE**

BT1 frequency range

**NT1** khz range 01-100

**NT1** khz range 100-1000

**KHZ RANGE 01-100**

\*BT1 khz range

**KHZ RANGE 100-1000**

\*BT1 khz range

**KICKER MAGNETS**

*INIS: 1999-07-02; ETDE: 1979-05-25*

*Magnets used to deflect charged-particle beam for extraction from an accelerator.*

\*BT1 magnets

RT beam extraction

RT beam optics

**kicksorters**

USE pulse analyzers

**kidney stones**

USE calculi

USE kidneys

**KIDNEYS**

UF kidney stones

UF mechanical kidney

\*BT1 organs

**NT1** glomeruli

**NT1** tubules

RT blood circulation

RT calculi

RT diuretics

RT excretion

RT nephrectomy

RT nephritis

RT nephrosclerosis

RT renal clearance

RT renin

RT renography

RT uremia

RT urinary tract

RT urine

RT urogenital system diseases

**kieselguhr**

*1992-11-03*

USE diatomaceous earth

**KIEV CYCLOTRON**

*INIS: 1981-12-23; ETDE: 1982-02-09*

\*BT1 isochronous cyclotrons

**kiev wwr-m reactor**

*INIS: 1984-06-21; ETDE: 2002-02-28*

USE wwr-m-kiev reactor

**kihara core**

USE kihara potential

**KIHARA POTENTIAL**

UF kihara core

UF kihara theory

BT1 potentials

RT atoms

RT molecules

**kihara theory**

USE kihara potential

**KIKUCHI LINES**

RT crystal structure

RT dislocations

RT electron diffraction

**KILAUEA VOLCANO**

*INIS: 1992-06-04; ETDE: 1977-12-22*

BT1 volcanoes

RT hawaii

**kiln incinerators**

*1992-03-17*

USE incinerators

**KILNGAS PROCESS**

*INIS: 2000-04-12; ETDE: 1981-09-22*

*Low btu gasification process being developed by Allis-Chalmers based on a rotary ported kiln concept.*

\*BT1 coal gasification

**KILNS**

*INIS: 1992-03-17; ETDE: 1977-09-19*

*Heated enclosures used for drying, burning, or firing materials.*

**NT1** solar kilns

RT furnaces

**KILO AMP BEAM CURRENTS**

*From 1000 to 10 exp 6 amp.*

\*BT1 beam currents

**KILO BQ RANGE**

*2012-05-31*

BT1 radioactivity range

**NT1** kilo bq range 01-10

**NT1** kilo bq range 10-100

**NT1** kilo bq range 100-1000

**KILO BQ RANGE 01-10**

*2012-05-31*

\*BT1 kilo bq range

**KILO BQ RANGE 10-100**

*2012-05-31*

\*BT1 kilo bq range

**KILO BQ RANGE 100-1000**

*2012-05-31*

\*BT1 kilo bq range

**KILO GY RANGE**

*2012-05-30*

\*BT1 absorbed dose range

**KILOWATT POWER RANGE**

*INIS: 1988-04-15; ETDE: 1989-08-10*

BT1 power range

**NT1** power range 01-10 kw

**NT1** power range 10-100 kw

**NT1** power range 100-1000 kw

**KIMBERLITES**

\*BT1 lamprophyres

\*BT1 peridotites

RT apatites

RT mica

RT olivine

RT oxide minerals

RT perovskite

RT silicate minerals

**kinases**

*INIS: 2000-04-12; ETDE: 1986-04-10*

USE phosphotransferases

**kinases (phosphotransferases)**

USE phosphotransferases

**kinematics (particle)**

USE particle kinematics

**KINETIC ENERGY**

BT1 energy

**NT1** transverse energy

RT angular momentum

RT cold fission

RT kerma

RT lagrangian function

RT linear momentum

RT moment of inertia

RT motion

RT particle rapidity

- RT* potential energy  
*RT* velocity  
*RT* virial theorem
- KINETIC EQUATIONS**  
1996-07-18  
*For reactor kinetics see REACTOR KINETICS EQUATIONS.*  
**BT1** equations  
**NT1** boltzmann equation  
*RT* collisions  
*RT* gases  
*RT* plasma  
*RT* statistical mechanics
- kinetic experiment water boiler**  
1993-11-09  
USE kewb reactor
- kinetic intense neutron generator**  
USE king reactor
- KINETICS**  
**NT1** radionuclide kinetics  
**NT1** reaction kinetics  
**NT2** biochemical reaction kinetics  
**NT3** cpb  
**NT2** chemical reaction kinetics  
**NT3** combustion kinetics  
**NT2** nuclear reaction kinetics  
**NT1** reactor kinetics  
*RT* collisions  
*RT* deck effect  
*RT* dynamics  
*RT* gases  
*RT* mechanics  
*RT* motion  
*RT* statistical mechanics  
*RT* translocation
- kinetics equations (reactor)**  
USE reactor kinetics equations
- KINETIN**  
*UF* 6-furfurylaminopurine  
\***BT1** adenines  
*RT* furans  
*RT* plant growth  
*RT* plant growth regulators
- KING REACTOR**  
*LANL, Los Alamos, New Mexico, USA.*  
*UF* kinetic intense neutron generator  
\***BT1** research reactors
- KINGSTON STEAM PLANT**  
*INIS: 1992-06-04; ETDE: 1981-11-10*  
\***BT1** fossil-fuel power plants  
*RT* tennessee  
*RT* tennessee valley authority
- kininogenin**  
*INIS: 2000-04-12; ETDE: 1981-01-12*  
(Prior to November 1990 this was a valid ETDE descriptor.)  
USE kallikrein
- KININS**  
\***BT1** polypeptides  
**NT1** bradykinin
- KINK INSTABILITY**  
\***BT1** plasma macroinstabilities  
*RT* sawtooth oscillations
- kinki university utr-10 reactor**  
2000-04-12  
USE utr-10-kinki reactor
- KINSHASA**  
2000-04-12  
\***BT1** democratic republic of the congo
- KIPT NEUTRON SOURCE FACILITY**  
2016-06-09  
*Kharkov Institute of Physics and Technology, Kharkov, Ukraine*  
\***BT1** spallation neutron source facilities
- KIRCHHEIMERITE**  
2000-04-12  
\***BT1** oxide minerals  
\***BT1** uranium minerals  
*RT* arsenic oxides  
*RT* cobalt oxides  
*RT* uranium oxides
- KIRIBATI**  
*INIS: 1991-03-22; ETDE: 1991-04-09*  
\***BT1** micronesia  
*RT* pacific ocean
- KIRKENDALL EFFECT**  
*RT* diffusion
- KISLOGUBSK POWER PLANT**  
2000-04-12  
\***BT1** tidal power plants
- kisslinger model**  
*INIS: 1976-02-11; ETDE: 2002-02-28*  
USE optical models
- KISSLINGER-SORENSEN THEORY**  
*RT* nuclear models  
*RT* superconductivity
- KITES**  
2007-05-16  
*Small heavier-than-air craft flown in the wind at the end of a string or similar tether; NOT for the species of hawk with this name.*  
**BT1** aircraft
- KIVITER PROCESS**  
*INIS: 2000-04-12; ETDE: 1977-03-08*  
*Coarsely sized shale is processed in downflow retort, with the raw shale preheating section near the top. Hot recycle gases and gas burner provide heat.*  
*RT* oil shales
- KIWI REACTORS**  
1985-07-18  
(Prior to August 1985 KIWI TYPE REACTORS was used.)  
*UF* kiwi type reactors  
\***BT1** hydrogen cooled reactors  
\***BT1** space propulsion reactors  
**NT1** kiwi-tnt reactor
- KIWI-TNT REACTOR**  
2000-04-12  
*LANL, Los Alamos, New Mexico, USA. Shut down in 1965.*  
*UF* kiwi-transient test reactor  
*UF* tntr-kiwi  
*UF* transient nuclear test reactor-kiwi  
\***BT1** experimental reactors  
\***BT1** kiwi reactors
- kiwi-transient test reactor**  
2000-04-12  
USE kiwi-tnt reactor
- kiwi type reactors**  
*INIS: 1985-07-18; ETDE: 1980-05-23*  
(Prior to August 1985 this was a valid descriptor.)  
USE kiwi reactors
- KIZILDERE GEOTHERMAL FIELD**  
*INIS: 2000-04-12; ETDE: 1976-07-07*  
**BT1** geothermal fields  
*RT* turkey
- KJELDAHL METHOD**  
*RT* nitrogen  
*RT* quantitative chemical analysis
- kkb reactor**  
1999-04-14  
SEE brunsbuettel reactor
- kki isar**  
USE isar reactor
- kkk isar-2**  
*INIS: 2000-04-12; ETDE: 1982-10-05*  
USE isar-2 reactor
- kkk reactor**  
USE kruemmel reactor
- kkn reactor**  
USE niederaichbach reactor
- kkp-1 philippsburg reactor**  
USE philippsburg-1 reactor
- kkp-2 philippsburg reactor**  
USE philippsburg-2 reactor
- kks reactor**  
USE stade reactor
- kku reactor**  
USE unterweser reactor
- kkw greifswald-1 reactor**  
*INIS: 1984-04-04; ETDE: 2002-02-28*  
USE greifswald-1 reactor
- kkw greifswald-2 reactor**  
*INIS: 1984-04-04; ETDE: 2002-02-28*  
USE greifswald-2 reactor
- kkw greifswald-3 reactor**  
*INIS: 1984-04-04; ETDE: 2002-02-28*  
USE greifswald-3 reactor
- kkw greifswald-4 reactor**  
*INIS: 1984-04-04; ETDE: 2002-02-28*  
USE greifswald-4 reactor
- kkw greifswald-5 reactor**  
2002-03-04  
USE greifswald-5 reactor
- kkw greifswald-6 reactor**  
2002-03-04  
USE greifswald-6 reactor
- KLAMATH FALLS**  
*INIS: 2000-04-12; ETDE: 1982-02-11*  
**BT1** kgra  
*RT* geothermal fields  
*RT* oregon
- KLEBSIELLA**  
*INIS: 1993-07-15; ETDE: 1979-07-18*  
\***BT1** bacteria
- KLEIN-GORDON EQUATION**  
\***BT1** field equations  
\***BT1** wave equations  
*RT* quantum mechanics
- KLEIN-NISHINA FORMULA**  
*RT* compton effect
- KLOCKNER-IRON BATH COAL GASIFICATION PROCESS**  
*INIS: 2000-04-12; ETDE: 1993-08-10*  
*Gasification in a liquid iron bath under pressure containing sulfur fixation agent with coal and oxygen fed from the bottom.*  
\***BT1** coal gasification

**KLYSTRONS**

- \*BT1 microwave tubes
- RT gyrocons
- RT magnetrons
- RT power supplies
- RT rf systems

**kmr reactor**

- INIS: 1999-01-26; ETDE: 1991-07-30  
(From July 1991 to January 1999 this was a valid descriptor.)  
USE hanaro reactor

**KNIGHT EFFECT**

- RT spectral shift

**KNIGHT SHIFT**

- RT nuclear magnetic resonance
- RT spectral shift

**knipp-bloch theory**

- USE knipp-uhlenbeck theory

**KNIPP-UHLENBECK THEORY**

- UF knipp-bloch theory
- RT beta decay

**KNK-2 REACTOR**

- Forschungszentrum Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany.  
Permanent shutdown since 1991.  
\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 fast reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors  
\*BT1 szr type reactors

**KNK REACTOR**

- Forschungszentrum Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany.  
UF kompakte natriumgekuehlte reaktor  
\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors  
\*BT1 szr type reactors  
\*BT1 thermal reactors

**KNOCK CONTROL**

- INIS: 1999-05-12; ETDE: 1981-03-16  
BT1 control  
RT antiknock ratings  
RT autoignition  
RT automotive fuels  
RT combustion  
RT control equipment  
RT internal combustion engines

**KNOCK-ON**

- RT recoils

**knock-on electrons**

- USE electrons

**KNOCK-ON REACTIONS**

- \*BT1 direct reactions
- RT knock-out reactions

**KNOCK-OUT REACTIONS**

- \*BT1 direct reactions
- RT knock-on reactions
- RT recoils

**knolls atomic power laboratory**

- USE kapl

**KNOOP HARDNESS**

- RT hardness

**KNOWLEDGE BASE**

- INIS: 1991-12-11; ETDE: 1985-09-24  
Facts, assumptions, beliefs, and heuristics; used in dealing with a data base to achieve desired results such as a diagnosis, an interpretation or a solution to a problem.  
RT artificial intelligence  
RT expert systems  
RT knowledge management  
RT programming

**KNOWLEDGE MANAGEMENT**

- 2005-10-27  
Integrated and systematic approach to identifying, collecting, maintaining and sharing knowledge, and enabling the creation of new knowledge.  
BT1 management  
NT1 knowledge preservation  
RT information dissemination  
RT information retrieval  
RT information systems  
RT knowledge base

**KNOWLEDGE PRESERVATION**

- 2005-10-27  
\*BT1 knowledge management  
RT documentation

**known geothermal resource area**

- INIS: 2000-04-12; ETDE: 1976-05-27  
USE kgra

**knu-10 reactor**

- 1991-07-02

**knu-9 reactor**

- 1991-07-02

**knudsen effusion**

- USE knudsen flow

**KNUDSEN FLOW**

- UF knudsen effusion
- UF knudsen number
- \*BT1 gas flow
- RT vapor pressure

**KNUDSEN GAGES**

- \*BT1 vacuum gages

**knudsen number**

- USE knudsen flow

**KOBAYASHI-MASKAWA MATRIX**

- INIS: 1984-01-18; ETDE: 1984-02-10  
Matrix describing the mixing between the three quark-lepton generations (u, d, e), (c, s, mu) and (t, b, tau) as a generalization of Cabibbo mixing with allowance of CP violation in the charged-current transition amplitude.

- UF mixing matrix (kobayashi-maskawa)
- BT1 matrices
- RT cabibbo angle
- RT configuration mixing
- RT cp invariance
- RT flavor model
- RT standard model

**KOEBERG-1 REACTOR**

- INIS: 1975-11-07; ETDE: 1975-12-16  
Duynefontein, Cape, South Africa.  
UF escom-1 reactor  
\*BT1 pwr type reactors

**KOEBERG-2 REACTOR**

- INIS: 1982-01-14; ETDE: 1978-02-14  
\*BT1 pwr type reactors

**KOLA-1 REACTOR**

- INIS: 1981-10-15; ETDE: 1978-06-14  
\*BT1 wwer type reactors

**KOLA-2 REACTOR**

- INIS: 1981-10-15; ETDE: 1978-06-14  
\*BT1 wwer type reactors

**KOLA-3 REACTOR**

- INIS: 1981-10-15; ETDE: 1981-11-10  
\*BT1 wwer type reactors

**KOLA-4 REACTOR**

- INIS: 1981-10-15; ETDE: 1981-11-10  
\*BT1 wwer type reactors

**kolmogorov equation**

- 2000-03-28  
(Prior to March 1996 this was a valid ETDE descriptor.)  
SEE chapman-kolmogorov equation  
SEE fokker-planck equation

**kompanie natriumgekuehlte reaktor**

- USE knk reactor

**KONDO EFFECT**

- RT antiferromagnetic materials

**KONEL**

- 2000-04-12  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 iron alloys  
\*BT1 nickel base alloys  
\*BT1 titanium alloys

**KONRAD ORE MINE**

- INIS: 1989-11-24; ETDE: 1989-12-08  
\*BT1 mines  
\*BT1 radioactive waste facilities  
RT intermediate-level radioactive wastes  
RT low-level radioactive wastes  
RT shaft excavations  
RT underground disposal

**KOONGARRA DEPOSIT**

- INIS: 1978-07-03; ETDE: 1978-08-07  
\*BT1 uranium deposits  
RT northern territory  
RT uranium ores

**KOPPERS PROCESS**

- 2000-04-12  
A process for production of water gas or synthesis gas from coal dust.  
\*BT1 coal gasification

**KOPPERS-TOTZEK PROCESS**

- 2000-04-12  
A process in which all types of coal can be reacted at atmospheric pressure and 3300 degrees F with steam and oxygen in a gasifier (a refractory-lined, horizontal, cylindrical vessel with conical ends) to produce intermediate- or high-btu gas.  
\*BT1 coal gasification  
RT sng processes

**koppers vacuum carbonate process**

- INIS: 2000-04-12; ETDE: 1977-08-09  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE desulfurization

**korea (north)**

- USE north korea

**korea (south)**

- USE republic of korea

**korea advanced energy research institute**

INIS: 1993-11-09; ETDE: 1982-02-09  
USE kaeri

**korea atomic energy research institute**

INIS: 1993-11-09; ETDE: 2000-10-13  
USE kaeri

**KOREAN ORGANIZATIONS**

INIS: 1981-12-23; ETDE: 1982-02-09  
BT1 national organizations  
NT1 kaeri

**korean triga-mk-2 reactor**

2000-04-12  
USE triga-2-seoul reactor

**korean triga-mk-3 reactor**

2000-04-12  
USE triga-3-seoul reactor

**KORI-1 REACTOR**

UF pusan kori-1 reactor  
\*BT1 pwr type reactors

**KORI-2 REACTOR**

INIS: 1986-09-26; ETDE: 1977-04-12  
UF pusan kori-2 reactor  
\*BT1 pwr type reactors

**KORI-3 REACTOR**

1995-01-04  
UF pusan kori-3 reactor  
\*BT1 pwr type reactors

**KORI-4 REACTOR**

1995-01-04  
UF pusan kori-4 reactor  
\*BT1 pwr type reactors

**KORTEWEG-DE VRIES EQUATION**

\*BT1 partial differential equations

**KOSHKONONG-1 REACTOR**

Wisconsin Electric Power Co., Haven,  
Wisconsin, USA. As of July 1978 known as  
HAVEN-1 REACTOR, and from that date  
material is so indexed. Canceled in 1980.  
\*BT1 haven-1 reactor

**KOSHKONONG-2 REACTOR**

Wisconsin Electric Power Co., Haven,  
Wisconsin, USA. As of July 1978 known as  
HAVEN-2 REACTOR, and from that date  
material is so indexed. Canceled in 1978.  
\*BT1 haven-2 reactor

**KOSMOS SATELLITES**

BT1 satellites  
RT interkosmos satellites  
RT proton satellites

**KOSSEL METHOD**

RT laue method

**KOSTERLITZ-THOULESS THEORY**

INIS: 1992-01-08; ETDE: 1991-03-04  
RT high-*tc* superconductors  
RT phase transformations  
RT superconductivity  
RT superfluidity

**KOVAR**

1993-10-03  
\*BT1 alloy-fe53ni29co18

**KOZLODUY-1 REACTOR**

1990-12-06  
Ministry of Energy, Kozloduy, Bulgaria.  
Permanent shutdown since 2002.  
(Prior to December 1990, this descriptor was  
spelled KOZLODUJ-1 REACTOR by INIS.)  
\*BT1 wwer type reactors

**KOZLODUY-2 REACTOR**

1990-12-06  
Ministry of Energy, Kozloduy, Bulgaria.  
Permanent shutdown since 2002.  
(Prior to December 1990, this descriptor was  
spelled KOZLODUJ-2 REACTOR by INIS.)  
\*BT1 wwer type reactors

**KOZLODUY-3 REACTOR**

INIS: 1990-12-06; ETDE: 1991-01-15  
Ministry of Energy, Kozloduy, Bulgaria.  
Permanent shutdown since 2006.  
(Prior to December 1990, this descriptor was  
spelled KOZLODUJ-3 REACTOR by INIS.)  
\*BT1 wwer type reactors

**KOZLODUY-4 REACTOR**

INIS: 1993-05-04; ETDE: 1994-08-10  
Ministry of Energy, Kozloduy, Bulgaria.  
Permanent shutdown since 2006.  
\*BT1 wwer type reactors

**KOZLODUY-5 REACTOR**

INIS: 1993-02-09; ETDE: 1993-03-04  
Ministry of Energy, Kozloduy, Bulgaria.  
\*BT1 wwer type reactors

**KOZLODUY-6 REACTOR**

INIS: 1993-05-04; ETDE: 1994-08-10  
Ministry of Energy, Kozloduy, Bulgaria.  
\*BT1 wwer type reactors

**KRAFLA GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1978-04-05  
BT1 geothermal fields  
RT iceland

**KRAMERS-KRONIG CORRELATION**

BT1 correlations

**KRAMERS THEOREM**

RT quantum mechanics

**krb ii-b reactor**

INIS: 1975-08-20; ETDE: 1976-05-19  
USE gundremmingen-2 reactor

**krb ii-c reactor**

INIS: 1975-08-20; ETDE: 1976-05-19  
USE gundremmingen-3 reactor

**krb reactor**

USE rwe-bayernwerk reactor

**KREBS CYCLE**

BT1 biological pathways  
RT metabolism  
RT metabolites  
RT mitochondria  
RT respiration

**KRIGING**

INIS: 1993-04-21; ETDE: 1983-10-11  
A statistical method for estimating spatial  
and/or temporal distribution of a material  
based on the theory of regionalized variables.  
SF geostatistics  
\*BT1 statistics  
RT geologic surveys  
RT statistical models  
RT weighting functions

**kritische anlage zum htr**

INIS: 2000-04-12; ETDE: 1975-11-26  
USE kahter reactor

**krito critical assembly**

USE stek reactor

**KRITZ REACTOR**

1993-02-10  
Studsvik High Temperature Critical Facility.  
\*BT1 zero power reactors

**KROLL PROCESS**

RT reduction  
RT titanium

**KROLL-RUDERMAN THEOREM**

1989-02-24  
(Prior to March, 1989, this descriptor was  
spelled KROLL-RUDERMANN  
THEOREM.)  
RT photoproduction

**krov machine**

2000-04-12  
Keller roto-oscillating vane rotary vane and  
piston machine.  
(Prior to April 1994, this was a valid ETDE  
descriptor.)

SEE rotary engines  
SEE rotors  
SEE turbines

**KRSKO REACTOR**

1997-11-03  
Krsko, Slovenia.  
\*BT1 pwr type reactors

**KRUEMMEL REACTOR**

Geesthacht, Federal Republic of Germany.  
Permanent shutdown since August 2011.  
UF kkk reactor  
\*BT1 bwr type reactors

**KRUSKAL LIMIT**

RT electric currents  
RT stellarators

**KRW GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1985-07-19  
Formerly WESTINGHOUSE GASIFICATION  
process; Kellogg Rust is majority owner.  
UF kellogg rust westinghouse process  
\*BT1 coal gasification  
RT westinghouse gasification process

**KRYPTON**

\*BT1 rare gases

**KRYPTON 100**

2007-11-13  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 krypton isotopes

**KRYPTON 69**

INIS: 1998-09-23; ETDE: 1997-06-28  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 krypton isotopes

**KRYPTON 70**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 krypton isotopes

**KRYPTON 71**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 krypton isotopes  
\*BT1 milliseconds living radioisotopes



**KRYPTON 72**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 73**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 74**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 minutes living radioisotopes

**KRYPTON 75**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 minutes living radioisotopes

**KRYPTON 76**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 76 TARGET**

- INIS: 1992-09-22; ETDE: 1985-05-31*  
BT1 targets

**KRYPTON 77**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 77 TARGET**

- INIS: 1992-09-22; ETDE: 1985-05-31*  
BT1 targets

**KRYPTON 78**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 stable isotopes

**KRYPTON 78 TARGET**

- INIS: 1977-01-25; ETDE: 1976-09-28*  
BT1 targets

**KRYPTON 79**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 80**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 stable isotopes

**KRYPTON 80 REACTIONS**

- INIS: 1986-10-29; ETDE: 1986-11-20*  
\*BT1 heavy ion reactions

**KRYPTON 80 TARGET**

- INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**KRYPTON 81**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 years living radioisotopes

**KRYPTON 82**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 stable isotopes

**KRYPTON 82 REACTIONS**

- INIS: 1987-05-26; ETDE: 1987-06-09*  
\*BT1 heavy ion reactions

**KRYPTON 82 TARGET**

- INIS: 1977-01-25; ETDE: 1976-09-28*  
BT1 targets

**KRYPTON 83**

- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 stable isotopes
- RT* krypton 83 reactions

**KRYPTON 83 REACTIONS**

- \*BT1 heavy ion reactions  
*RT* krypton 83

**KRYPTON 83 TARGET**

- INIS: 1977-01-25; ETDE: 1976-09-28*  
BT1 targets

**KRYPTON 84**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 stable isotopes
- RT* krypton 84 reactions

**KRYPTON 84 BEAMS**

- \*BT1 ion beams

**KRYPTON 84 REACTIONS**

- \*BT1 heavy ion reactions  
*RT* krypton 84

**KRYPTON 84 TARGET**

- ETDE: 1976-07-12*  
BT1 targets

**KRYPTON 85**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 years living radioisotopes

**KRYPTON 85 TARGET**

- INIS: 1985-11-18; ETDE: 1977-03-04*  
BT1 targets

**KRYPTON 86**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 stable isotopes

**KRYPTON 86 BEAMS**

- INIS: 1979-09-18; ETDE: 1979-10-23*  
\*BT1 ion beams

**KRYPTON 86 REACTIONS**

- INIS: 1976-10-29; ETDE: 1976-12-16*  
\*BT1 heavy ion reactions

**KRYPTON 86 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**KRYPTON 87**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 88**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 89**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 minutes living radioisotopes

**KRYPTON 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 92**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 milliseconds living radioisotopes

**KRYPTON 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 milliseconds living radioisotopes

**KRYPTON 96**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 nanoseconds living radioisotopes

**KRYPTON 98**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 99**

2007-11-13

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 milliseconds living radioisotopes

**KRYPTON BROMIDES**

INIS: 2000-04-12; ETDE: 1980-11-08

- \*BT1 bromides
- \*BT1 krypton halides

**KRYPTON CHLORIDE LASERS**

INIS: 2000-04-12; ETDE: 1984-08-20

- \*BT1 excimer lasers

**KRYPTON CHLORIDES**

- \*BT1 chlorides
- \*BT1 krypton halides

**KRYPTON COMPLEXES**

- BT1 complexes

**KRYPTON COMPOUNDS**

1997-06-17

- UF *kryptonates*
- BT1 rare gas compounds
- NT1 krypton halides
- NT2 krypton bromides
- NT2 krypton chlorides
- NT2 krypton fluorides
- NT1 krypton hydrides
- NT1 krypton oxides

**KRYPTON FLUORIDE LASERS**

INIS: 1986-01-21; ETDE: 1984-08-06

- \*BT1 excimer lasers
- RT aurora facility

**KRYPTON FLUORIDES**

- \*BT1 fluorides
- \*BT1 krypton halides

**KRYPTON HALIDES**

2012-07-19

- \*BT1 halides
- \*BT1 krypton compounds
- NT1 krypton bromides
- NT1 krypton chlorides
- NT1 krypton fluorides

**KRYPTON HYDRIDES**

- \*BT1 hydrides
- \*BT1 krypton compounds

**KRYPTON IONS**

- \*BT1 ions

**KRYPTON ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 krypton 100
- NT1 krypton 69
- NT1 krypton 70
- NT1 krypton 71

NT1 krypton 72

NT1 krypton 73

NT1 krypton 74

NT1 krypton 75

NT1 krypton 76

NT1 krypton 77

NT1 krypton 78

NT1 krypton 79

NT1 krypton 80

NT1 krypton 81

NT1 krypton 82

NT1 krypton 83

NT1 krypton 84

NT1 krypton 85

NT1 krypton 86

NT1 krypton 87

NT1 krypton 88

NT1 krypton 89

NT1 krypton 90

NT1 krypton 91

NT1 krypton 92

NT1 krypton 93

NT1 krypton 94

NT1 krypton 95

NT1 krypton 96

NT1 krypton 97

NT1 krypton 98

NT1 krypton 99

**KRYPTON OXIDES**

- \*BT1 krypton compounds
- \*BT1 oxides

***kryptonates***

- USE krypton compounds

***ks-150 reactor***

- USE bohunice a-1 reactor

**KSTR REACTOR***Keuring van Electrotechnische Materialen N.V., Arnhem, Netherlands.*UF *kema suspension test reactor*

- \*BT1 aqueous homogeneous reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors

**KT-2 TOKAMAK**

INIS: 1997-10-13; ETDE: 2001-06-11

KAERI, Daejeon, Republic of Korea.

- \*BT1 tokamak devices

**KUBO FORMULA**UF *kubo method*UF *kubo theory*

RT statistical mechanics

***kubo method***

- USE kubo formula

***kubo theory***

- USE kubo formula

**KUCA REACTOR**

INIS: 1983-10-14; ETDE: 1976-06-07

Kyoto Univ., Kumatori, Osaka, Japan.

UF *kyoto university critical assembly reactor*

- \*BT1 enriched uranium reactors
- \*BT1 graphite moderated reactors
- \*BT1 water moderated reactors
- \*BT1 zero power reactors

**KUDANKULAM-1 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd., Kudankulam, Tamil Nadu, India.

- \*BT1 wwer type reactors

**KUDANKULAM-2 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd., Kudankulam, Tamil Nadu, India.

- \*BT1 wwer type reactors

**KUHFR REACTOR**

1979-11-02

Kyoto Univ., Kumatori, Osaka, Japan.

UF *kyoto university high flux reactor*

- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**KUOSHENG-1 REACTOR**

INIS: 1978-02-23; ETDE: 1976-03-25

- \*BT1 bwr type reactors

**KUOSHENG-2 REACTOR**

INIS: 1978-02-23; ETDE: 1976-03-25

- \*BT1 bwr type reactors

***kupffer cells***

- USE reticuloendothelial system

**KUR REACTOR**

Kyoto Univ., Kumatori, Osaka, Japan.

UF *kyoto university reactor*UF *training-research reactor kyoto*

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 training reactors

***kurchatov institute romashka reactor***

- USE romashka reactor

***kurchatovium***

- USE rutherfordium

***kureha acetate process***

INIS: 2000-04-12; ETDE: 1983-08-25

*Sodium acetate-gypsum process for removal of sulfur dioxide from utility flue gas.*

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

***kurie plot***

- USE fermi plot

**KURILE ISLANDS**

INIS: 2000-04-12; ETDE: 1978-06-14

- BT1 islands
- \*BT1 russian federation
- RT pacific ocean

**KURSK-1 REACTOR**

1983-06-30

- \*BT1 enriched uranium reactors
- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**KURSK-2 REACTOR**

1984-08-23

- \*BT1 enriched uranium reactors
- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**KURSK-3 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

- \*BT1 enriched uranium reactors
- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**KURSK-4 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

- \*BT1 enriched uranium reactors
- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**kurtosis**

INIS: 1996-03-04; ETDE: 1996-02-26

- USE distribution
- USE statistics

**KUWAIT**

1976-11-08

- BT1 arab countries
- BT1 asia
- BT1 developing countries
- BT1 middle east
- RT oapcc
- RT opec

**kvb process**

INIS: 2000-04-12; ETDE: 1978-04-27

*Dry oxidation of the sulfurous component of dry pulverized coal with gaseous NO<sub>2</sub> is followed by caustic washing to solubilize and remove sulfur compounds generated. The active oxidant, NO<sub>2</sub>, can be generated at operating temperature and pressure in the reaction chamber by oxidation of NO feed gas. (Prior to March 1994, this was a valid ETDE descriptor.)*

- USE desulfurization

**KVI**

INIS: 1977-09-06; ETDE: 1977-10-19

- UF groningen versneller instituut
- UF kernfysisch versneller instituut
- \*BT1 netherlands organizations

**KVI CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24

*Kernfysisch Versneller Instituut, Groningen.*

- UF groningen (kvi) cyclotron
- UF kernfysisch versneller instituut cyclotron
- \*BT1 heavy ion accelerators
- \*BT1 isochronous cyclotrons

**kwl reactor**

- USE lingen reactor

**kwo reactor**

- USE obrigheim reactor

**kws-1 wyhl reactor**

INIS: 1975-10-31; ETDE: 1975-12-16

- USE wyhl-1 reactor

**kws-2 wyhl reactor**

INIS: 1975-10-31; ETDE: 1975-12-16

- USE wyhl-2 reactor

**kynurenic acid**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE heterocyclic acids
- USE hydroxy compounds
- USE quinolines

**KYNURENINE**

1996-07-18

- \*BT1 amino acids
- \*BT1 keto acids

**KYOTO PROTOCOL**

2000-09-26

*Kyoto Protocol to the UN Framework Convention on Global Climate Change.*

- \*BT1 multilateral agreements
- RT carbon footprint
- RT climatic change

- RT emissions tax
- RT emissions trading
- RT environmental impacts
- RT environmental policy
- RT environmental protection
- RT greenhouse effect
- RT greenhouse gases
- RT paris agreement
- RT pollution laws

**kyoto university critical assembly reactor**

INIS: 1993-11-09; ETDE: 1976-06-07

- USE kuca reactor

**kyoto university high flux reactor**

1979-11-02

- USE kuhfr reactor

**kyoto university reactor**

- USE kur reactor

**KYRGYZSTAN**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

- SF soviet union
- SF union of soviet socialist republics
- SF ussr
- BT1 asia

**KYSHTYM PLANT**

INIS: 1996-06-26; ETDE: 1994-01-06

- BT1 nuclear facilities
- RT russian federation

**kyushu-1 reactor**

- USE genkai-1 reactor

**kyushu-2 reactor**

INIS: 1979-09-18; ETDE: 1979-10-23

- USE genkai-2 reactor

**kyushu-3 reactor**

INIS: 2000-04-12; ETDE: 1979-10-23

- USE sendai-1 reactor

**kyushu-4 reactor**

INIS: 2000-04-12; ETDE: 1985-07-18

- USE genkai-4 reactor

**l-1 stellarator**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

- SEE l-2 stellarator

**l-1770 resonances**

2000-04-12

(Prior to August 1988, this was a valid ETDE descriptor.)

- USE strange mesons

**L-2 STELLARATOR**

1977-11-02

- SF l-1 stellarator
- \*BT1 stellarators

**l-54 reactor**

- USE cesnef reactor

**l-77 atomics international reactor**

1993-11-09

- USE ai-l-77 reactor

**l-77 nevada university reactor**

2000-04-12

- USE nevada university reactor

**l-77 puerto rico reactor**

- USE prnc-l-77 reactor

**l-alanine**

- USE alanine-l

**l-alanine-alpha**

- USE alanine-l

**L CAPTURE**

- \*BT1 electron capture decay

**L CELLS**

- RT clone cells
- RT fibroblasts
- RT in vitro

**L CODES**

- BT1 computer codes

**L CONVERSION**

- UF l-conversion coefficient
- \*BT1 internal conversion

**l-conversion coefficient**

- USE l conversion

**L-MODE PLASMA CONFINEMENT**

INIS: 1999-07-26; ETDE: 1999-09-03

*An operational regime in neutral-beam-injection-heated divertor tokamaks.*

- \*BT1 magnetic confinement
- RT h-mode plasma confinement

**L REACTOR**

INIS: 1983-03-16; ETDE: 1982-05-12

*Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.*

- UF savannah river plant l reactor
- \*BT1 heavy water moderated reactors
- \*BT1 special production reactors

**l resonances**

2000-04-12

- SEE k2-1770 mesons

**L-S COUPLING**

- UF russell-saunders coupling
- UF spin-orbit interaction
- \*BT1 intermediate coupling
- RT orbital angular momentum

**L SHELL**

INIS: 1976-07-06; ETDE: 1976-08-24

*Atomic electron shells.*

- UF atomic shells (l)
- BT1 electronic structure

**l waves**

INIS: 2000-04-12; ETDE: 1978-07-05

- USE seismic surface waves

**la crosse boiling water reactor**

- USE lacbwr reactor

**la jolla triga-mk-3 reactor**

INIS: 1984-06-21; ETDE: 2002-03-09

- USE triga-3-la jolla reactor

**la reina reactor**

INIS: 2000-04-12; ETDE: 1985-05-31

- USE research reactors

**LA REINA RECH-1 REACTOR**

INIS: 1989-02-24; ETDE: 1989-03-20

*La Reina, Santiago, Chile.*

- UF rech-1 reactor
- \*BT1 pool type reactors
- \*BT1 research reactors

**LA SALLE COUNTY-1 REACTOR**

*Exelon Generation Co., LLC, Seneca, Illinois, USA.*

- \*BT1 bwr type reactors

**LA SALLE COUNTY-2 REACTOR**

*Exelon Generation Co., LLC, Seneca, Illinois, USA.*

\*BT1 bwr type reactors

**LABELLED COMPOUNDS**

*Compounds labelled with either stable or radioactive isotopes.*

NT1 carbon 14 compounds

NT1 radiopharmaceuticals

RT autoradiography

RT autoradiolysis

RT carrier-free isotopes

RT diagnosis

RT double labelling

RT electron microscopy

RT labelling

RT nuclear medicine

RT radioenzymatic assay

RT radioimmunoassay

RT radioimmunodetection

RT scintiscanning

RT tracer techniques

RT tritium compounds

RT wilzbach method

**LABELLED POOL TECHNIQUES**

*INIS: 1985-07-18; ETDE: 1975-10-28*

*(Prior to August 1985 LABELLED POOL TECHNIQUE was a valid INIS descriptor.)*

\*BT1 tracer techniques

RT labelling

RT metabolism

**LABELLING**

*For labelling of packages use PACKAGING RULES.*

NT1 double labelling

NT1 wilzbach method

RT carbon 14 compounds

RT carrier-free isotopes

RT isotope applications

RT isotopic exchange

RT labelled compounds

RT labelled pool techniques

RT radioactivation

**labelling (packages)**

*INIS: 1987-11-02; ETDE: 2002-03-09*

USE packaging rules

**labor**

*INIS: 2000-03-28; ETDE: 1977-08-09*

*(Prior to March 1997 this was a valid ETDE descriptor.)*

SEE employment

SEE manpower

SEE personnel

SEE work

**LABOR RELATIONS**

*INIS: 1991-10-24; ETDE: 1978-02-14*

UF industrial relations

RT industry

RT management

RT personnel

RT working conditions

**laboratori nazionali del gran sasso**

*2016-12-12*

USE gran sasso national laboratory

**laboratori nazionali di frascati**

*2016-12-12*

USE frascati national laboratory

**laboratori nazionali di legnaro**

*2016-12-12*

USE legnaro national laboratory

**LABORATORIES**

*INIS: 1986-03-04; ETDE: 1980-01-15*

NT1 hot labs

RT buildings

RT laboratory animals

RT laboratory buildings

RT laboratory equipment

RT nuclear facilities

RT research programs

**LABORATORY ANIMALS**

BT1 animals

RT laboratories

**LABORATORY BUILDINGS**

*INIS: 1999-12-07; ETDE: 1980-04-14*

BT1 buildings

RT laboratories

RT laboratory equipment

RT school buildings

**LABORATORY EQUIPMENT**

BT1 equipment

NT1 dna sequencers

NT1 fume hoods

NT1 gloveboxes

NT1 hot cells

NT1 manipulators

NT1 vacuum pumps

NT2 cryopumps

NT2 sputter-ion pumps

NT2 turbomolecular pumps

RT autoclaves

RT bench-scale experiments

RT extraction apparatuses

RT hot labs

RT laboratories

RT laboratory buildings

RT mixer-settlers

RT portable equipment

RT remote handling equipment

RT remote viewing equipment

RT sample changers

RT test facilities

**laboratory scale experiments**

*1981-05-11*

USE bench-scale experiments

**LABORATORY SYSTEM**

RT center-of-mass system

RT coordinates

RT limiting fragmentation

RT lorentz transformations

RT mechanics

RT scattering

**labyrinth**

USE auditory organs

USE vestibular apparatus

**LACBWR REACTOR**

*Dairyland Power Cooperative, Genoa, Wisconsin, USA. Shut down in 1987.*

UF la crosse boiling water reactor

\*BT1 bwr type reactors

**LACQUERS**

BT1 coatings

**LACRIMAL DUCTS**

*INIS: 1977-07-05; ETDE: 1977-10-19*

UF ducts (tear)

UF tear canals

\*BT1 eyes

**LACTAMS**

UF cyclic amides

\*BT1 amides

NT1 pyrrolidones

NT2 pvp

RT amino acids

RT heterocyclic compounds

**LACTATE DEHYDROGENASE**

\*BT1 hemiacetal dehydrogenases

**LACTATES**

*INIS: 1981-09-17; ETDE: 1981-10-24*

BT1 carboxylic acid salts

RT lactic acid

**LACTATION**

RT mammary glands

RT milk

**LACTIC ACID**

UF hydroxypropionic acid-alpha

\*BT1 hydroxy acids

RT lactates

**LACTOBACILLUS**

\*BT1 bacteria

**LACTOFERRIN**

*INIS: 1981-08-06; ETDE: 1981-04-17*

\*BT1 globulins

\*BT1 glucoproteins

\*BT1 metalloproteins

\*BT1 organometallic compounds

RT iron complexes

**LACTOGENS**

*INIS: 1982-12-07; ETDE: 1979-02-27*

NT1 hpl

RT peptide hormones

RT pituitary gland

RT placenta

**LACTONES**

UF cyclic esters

\*BT1 esters

\*BT1 heterocyclic compounds

NT1 coumarin

NT1 gibberellic acid

RT hydroxy acids

**LACTOSE**

UF milk sugar

\*BT1 disaccharides

**LADDER APPROXIMATION**

\*BT1 approximations

RT quantum field theory

**lage flux reaktor petten**

USE lfr reactor

**lago maggiore**

*1996-07-18*

*(Until July 1996 this was a valid descriptor.)*

USE lakes

**LAGRANGE EQUATIONS**

\*BT1 partial differential equations

RT lagrangian function

RT mechanics

**lagrange field equations**

USE lagrangian field theory

**lagrangian**

USE lagrangian function

**LAGRANGIAN FIELD THEORY**

UF canonical quantum field theory

UF gross-neveu model

UF lagrange field equations

\*BT1 quantum field theory

**LAGRANGIAN FUNCTION**

UF lagrangian

BT1 functions

RT equations of motion

RT kinetic energy

RT lagrange equations

*RT* mechanics  
*RT* potential energy

**LAGUERRE POLYNOMIALS**

\*BT1 polynomials

**LAGUNA VERDE-1 REACTOR**

1978-02-23

*Alto Lucero, Veracruz, Mexico.*

\*BT1 bwr type reactors

**LAGUNA VERDE-2 REACTOR**

*INIS: 1987-02-25; ETDE: 1982-02-08*

*Alto Lucero, Veracruz, Mexico.*

\*BT1 bwr type reactors

**LAKE BAIKAL**

*INIS: 1984-10-19; ETDE: 1984-11-06*

\*BT1 lakes

**LAKE BALATON**

1983-09-06

\*BT1 lakes

**LAKE DRUKSHIAI**

*INIS: 1997-09-16; ETDE: 1997-08-23*

*Cooling pond of Ignalina Nuclear Power Plant.*

*UF lake drysviaty*

\*BT1 lakes

**lake drysviaty**

1997-08-20

USE lake drukshiai

**LAKE ERIE**

\*BT1 great lakes

**LAKE HURON**

\*BT1 great lakes

**LAKE MICHIGAN**

\*BT1 great lakes

**LAKE ONTARIO**

\*BT1 great lakes

**LAKE SUPERIOR**

1980-07-24

\*BT1 great lakes

**LAKE WABAMUN**

*INIS: 2000-04-12; ETDE: 1975-11-28*

\*BT1 lakes

*RT canada*

**LAKES**

1997-08-20

(Prior to March 1997 LAGO MAGGIORE was a valid ETDE descriptor.)

*UF lago maggiore*

BT1 surface waters

NT1 ambrosia lake

NT1 aral sea

NT1 athabasca lake

NT1 caspian sea

NT1 dead sea

NT1 great lakes

NT2 lake erie

NT2 lake huron

NT2 lake michigan

NT2 lake ontario

NT2 lake superior

NT1 great salt lake

NT1 lake baikal

NT1 lake balaton

NT1 lake drukshiai

NT1 lake wabamun

NT1 salton sea

*RT cooling ponds*

*RT eutrophication*

*RT fresh water*

*RT hydrology*

*RT inland waterways*

*RT ponds*  
*RT shores*  
*RT water currents*  
*RT water reservoirs*

**lamb-rutherford shift**

2000-04-12

USE lamb shift

**LAMB SHIFT**

*UF lamb-rutherford shift*

BT1 spectral shift

*RT energy levels*

**lambda-1115 resonances**

*INIS: 1987-12-21; ETDE: 2002-03-09*

(Prior to December 1987 this was a valid descriptor.)

USE lambda particles

**LAMBDA-1405 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1405 RESONANCES.)

*UF lambda-1405 resonances*

\*BT1 lambda baryons

**lambda-1405 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1405 baryons

**LAMBDA-1520 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1520 RESONANCES.)

*UF lambda-1520 resonances*

\*BT1 lambda baryons

**lambda-1520 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1520 baryons

**LAMBDA-1600 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*

\*BT1 lambda baryons

**LAMBDA-1670 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1670 RESONANCES.)

*UF lambda-1670 resonances*

\*BT1 lambda baryons

**lambda-1670 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1670 baryons

**LAMBDA-1690 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1690 RESONANCES.)

*UF lambda-1690 resonances*

\*BT1 lambda baryons

**lambda-1690 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1690 baryons

**LAMBDA-1800 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*

\*BT1 lambda baryons

**LAMBDA-1810 BARYONS**

1995-07-17

\*BT1 lambda baryons

**lambda-1815 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1820 baryons

**LAMBDA-1820 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1815 RESONANCES.)

*UF lambda-1815 resonances*

\*BT1 lambda baryons

**LAMBDA-1830 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-25*

(Prior to December 1987 this concept was indexed by LAMBDA-1830 RESONANCES.)

*UF lambda-1830 resonances*

\*BT1 lambda baryons

**lambda-1830 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1830 baryons

**LAMBDA-1890 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-25*

\*BT1 lambda baryons

**LAMBDA-2100 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-25*

(Prior to December 1987 this concept was indexed by LAMBDA-2100 RESONANCES.)

*UF lambda-2100 resonances*

\*BT1 lambda baryons

**lambda-2100 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-2100 baryons

**LAMBDA-2110 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-25*

\*BT1 lambda baryons

**lambda-2250 resonances**

*INIS: 1985-01-17; ETDE: 1978-10-23*

(Prior to January 1985 this was a valid ETDE descriptor.)

USE lambda c plus baryons

**lambda-2260 resonances**

*INIS: 2000-04-12; ETDE: 1979-09-26*

USE lambda c plus baryons

**lambda 2282 resonances**

*INIS: 2000-04-12; ETDE: 1985-02-22*

USE lambda c plus baryons

**LAMBDA B NEUTRAL BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*

\*BT1 beauty baryons

**LAMBDA BARYONS**

1995-07-17

\*BT1 hyperons

NT1 lambda-1405 baryons

NT1 lambda-1520 baryons

NT1 lambda-1600 baryons

NT1 lambda-1670 baryons

NT1 lambda-1690 baryons

NT1 lambda-1800 baryons

NT1 lambda-1810 baryons

NT1 lambda-1820 baryons

NT1 lambda-1830 baryons

NT1 lambda-1890 baryons

NT1 lambda-2100 baryons

NT1 lambda-2110 baryons

NT1 lambda particles

NT2 antilambda particles

**LAMBDA C-2625 BARYONS**

1995-07-17

\*BT1 charmed baryons

**lambda c plus**

INIS: 1987-12-21; ETDE: 1985-01-28

(Prior to December 1987 this was a valid descriptor.)

USE lambda c plus baryons

**LAMBDA C PLUS BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by LAMBDA C PLUS.)

UF c-2260 resonances

UF lambda-2250 resonances

UF lambda-2260 resonances

UF lambda 2282 resonances

UF lambda c plus

\*BT1 charmed baryons

**LAMBDA-N-2130 DIBARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 dibaryons

\*BT1 hyperons

**lambda neutral**

USE lambda particles

**LAMBDA PARTICLE BEAMS**

\*BT1 hyperon beams

**LAMBDA PARTICLES**

UF lambda-1115 resonances

UF lambda neutral

\*BT1 lambda baryons

NT1 antilambda particles

**LAMBDA POINT**

\*BT1 transition temperature

RT helium 4

RT superfluidity

**LAMBERT LAW**

RT angular distribution

**lambs**

USE sheep

**LAMELLAE**

RT layers

**laminac**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE plastics

USE polyesters

**LAMINAR FLAMES**

2007-01-08

BT1 flames

RT laminar flow

**LAMINAR FLOW**

UF poiseuille flow

UF subcritical flow

BT1 fluid flow

RT critical flow

RT ideal flow

RT laminar flames

RT turbulent flow

RT viscous flow

**LAMINARIA**

\*BT1 chromophycota

\*BT1 seaweeds

RT alginates

**laminography**

USE tomography

**LAMPF II SYNCHROTRON**

INIS: 1983-06-30; ETDE: 1983-03-07

6 to 32 GeV proton synchrotron addition to Los Alamos Meson Physics Facility.

\*BT1 meson factories

\*BT1 synchrotrons

**LAMPF LINAC**

UF clinton p. anderson meson physics facility

UF los alamos meson physics facility

\*BT1 linear accelerators

\*BT1 meson factories

**LAMPRE-1 REACTOR**

LANL, Los Alamos, New Mexico, USA.

UF los alamos molten plutonium reactor experiment

\*BT1 experimental reactors

\*BT1 fast reactors

\*BT1 plutonium reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**lampre-2 reactor**

USE frctf reactor

**LAMPROPHYRES**

INIS: 2000-04-12; ETDE: 1980-08-12

\*BT1 volcanic rocks

NT1 kimberlites

**lamps**

INIS: 2000-04-12; ETDE: 1977-07-23

USE light bulbs

**land application**

INIS: 2000-04-12; ETDE: 1978-08-08

USE ground disposal

**land fills**

INIS: 1982-09-21; ETDE: 1976-09-28

USE sanitary landfills

**LAND LEASING**

1992-03-10

BT1 leasing

RT land resources

RT land use

RT leases

RT legal aspects

RT regulations

**LAND OWNERSHIP**

INIS: 1992-03-10; ETDE: 1981-08-04

BT1 ownership

RT land resources

RT land use

RT legal aspects

RT mineral rights

**LAND POLLUTION**

For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.

BT1 pollution

RT acid mine drainage

RT environmental effects

RT environmental exposure

RT land pollution abatement

RT land pollution control

RT land use

**LAND POLLUTION ABATEMENT**

INIS: 1992-03-11; ETDE: 1976-07-07

The prevention of formation of pollutants at the source.

SF prevention of significant deterioration

SF psd

BT1 pollution abatement

RT land pollution

RT land reclamation

**LAND POLLUTION CONTROL**

INIS: 1992-03-11; ETDE: 1977-03-04

The removal or management of pollutants after they are formed by a source.

\*BT1 pollution control

RT brownfield sites

RT land pollution

RT land reclamation

RT land use

RT natural attenuation

**LAND RECLAMATION**

1976-07-16

SF mine site rehabilitation

SF reclamation

RT abandoned sites

RT aesthetics

RT backfilling

RT brownfield sites

RT land pollution abatement

RT land pollution control

RT land resources

RT land use

RT liming

RT natural attenuation

RT preferred species

RT remedial action

RT revegetation

RT soil conservation

RT spoil banks

**LAND REQUIREMENTS**

INIS: 1992-10-19; ETDE: 1977-11-29

BT1 demand

RT land resources

RT land use

**LAND RESOURCES**

INIS: 1992-03-10; ETDE: 1982-01-07

BT1 resources

RT land leasing

RT land ownership

RT land reclamation

RT land requirements

RT land use

RT public lands

RT terrestrial ecosystems

**LAND TRANSPORT**

INIS: 1976-12-08; ETDE: 1977-06-24

BT1 transport

NT1 rail transport

NT1 road transport

RT carpooling

RT vanpooling

**LAND USE**

1976-07-16

(From May 1980 till March 1997 ZONING was a valid ETDE descriptor.)

UF zoning

RT arid lands

RT brownfield sites

RT eminent domain

RT environment

RT external zones

RT farms

RT land leasing

RT land ownership

RT land pollution

RT land pollution control

RT land reclamation

RT land requirements

RT land resources

RT landscaping

RT mineral rights

RT nature reserves

RT recreational areas

RT regional analysis

RT regional cooperation

RT rights-of-way  
 RT site selection  
 RT water use  
 RT watersheds  
 RT wilderness protection acts

**landau absorption**

USE landau damping

**LANDAU CURVES**

RT s matrix  
 RT scattering  
 RT singularity

**LANDAU DAMPING**

UF landau absorption  
 BT1 damping  
 RT plasma waves  
 RT transit-time magnetic pumping

**landau distribution**

USE landau fluctuations

**landau domain structure**

1976-03-25

*Structure proposed by Landau for intermediate state when magnetic field is applied at acute angle to thin flat superconducting plate. Coordinate SUPERCONDUCTORS or descriptor(s) for the specific superconductor(s) with the term below.*

(From January 1975 until March 1996 this was a valid ETDE descriptor.)

USE domain structure

**LANDAU FLUCTUATIONS**

1999-07-15

UF landau distribution  
 \*BT1 fluctuations  
 RT energy losses

**landau-ginzburg-pitaevskii theory**

USE ginzburg-pitaevskii theory

**LANDAU LIQUID HELIUM THEORY**

UF two-fluid theory  
 RT helium ii  
 RT phonons  
 RT rotons  
 RT superfluidity

**LANDAU QUASI PARTICLES**

BT1 quasi particles  
 RT particle structure  
 RT quark model

**LANDAU-ZENER FORMULA**

RT collisions  
 RT potential energy

**LANDE FACTOR**

UF g factor (lande)  
 UF lande g factor  
 UF lande interval factor  
 UF lande splitting factor  
 BT1 dimensionless numbers  
 RT energy levels

**lande g factor**

USE lande factor

**lande interval factor**

USE lande factor

**lande splitting factor**

USE lande factor

**LANDFILL GAS**

2006-05-15

\*BT1 fuel gas  
 RT carbon dioxide  
 RT methane

RT sanitary landfills

**landfills**

INIS: 1982-09-21; ETDE: 1979-11-23

USE sanitary landfills

**landforms**

INIS: 2000-04-12; ETDE: 1980-05-06

USE geomorphology

**LANDGARD PYROLYSIS SYSTEM**

INIS: 2000-04-12; ETDE: 1976-01-23

UF landgard solid waste disposal system

UF monsanto system

\*BT1 waste processing

RT pyrolysis

RT solid wastes

RT waste processing plants

**landgard solid waste disposal system**

INIS: 2000-04-12; ETDE: 1976-02-24

USE landgard pyrolysis system

**LANDSAT SATELLITES**

INIS: 1983-06-02; ETDE: 1980-03-04

BT1 satellites

RT aerial surveying

RT exploration

RT remote sensing

**LANDSCAPING**

INIS: 1997-06-17; ETDE: 1977-06-21

RT aesthetics

RT earth berms

RT land use

**LANDSLIDES**

1980-09-12

RT blast effects

RT earthquakes

RT ground motion

RT mining

RT rain

RT seismic effects

RT slope stability

RT underground explosions

**LANE-ROBSON THEORY**

RT nuclear reactions

RT scattering

**LANE-THOMAS-WIGNER MODEL**

\*BT1 nuclear models

**LANGEVIN EQUATION**

BT1 equations

RT magnetic fields

**LANGMUIR FREQUENCY**

UF frequency (langmuir)

UF plasma frequency

RT plasma

**langmuir oscillations**

USE plasma waves

**LANGMUIR PROBE**

\*BT1 electric probes

**languages (programming)**

USE programming languages

**LANL**

INIS: 1995-04-03; ETDE: 1989-06-30

*Until 1980 known as Los Alamos Scientific Laboratory, and older material is indexed to LASL.*

UF lasl

UF los alamos national laboratory

UF los alamos scientific laboratory

\*BT1 us doe

RT antares facility

RT aurora facility

RT helios facility

RT new mexico

RT trident facility

**lanolin**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE esters

USE lipids

USE sterols

**lanoxin**

USE digoxin

**lans**

1994-04-12

USE local area networks

**lanthanides**

USE rare earths

**LANTHANUM**

\*BT1 rare earths

**LANTHANUM 117**

2007-11-20

\*BT1 electron capture radioisotopes

\*BT1 lanthanum isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

**LANTHANUM 118**

2007-11-20

\*BT1 electron capture radioisotopes

\*BT1 lanthanum isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**LANTHANUM 119**

2007-11-20

\*BT1 electron capture radioisotopes

\*BT1 lanthanum isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**LANTHANUM 120**

INIS: 1984-08-23; ETDE: 1984-09-05

\*BT1 electron capture radioisotopes

\*BT1 lanthanum isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**LANTHANUM 121**

INIS: 1989-02-24; ETDE: 1989-03-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 lanthanum isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**LANTHANUM 122**

INIS: 1984-08-23; ETDE: 1984-09-05

\*BT1 electron capture radioisotopes

\*BT1 lanthanum isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**LANTHANUM 123**

INIS: 1979-02-21; ETDE: 1979-03-28

\*BT1 electron capture radioisotopes

\*BT1 lanthanum isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**LANTHANUM 124**

- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 125**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 126**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 127**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 128**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 129**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 130**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 131**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 132**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 133**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 134**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 135**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 136**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 137**

- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LANTHANUM 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LANTHANUM 139**

- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**LANTHANUM 139 BEAMS**

*INIS: 1979-01-18; ETDE: 1979-02-23*  
\*BT1 ion beams

**LANTHANUM 139 REACTIONS**

*INIS: 1976-01-28; ETDE: 1976-03-12*  
\*BT1 heavy ion reactions

**LANTHANUM 139 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**LANTHANUM 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 142**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

- \*BT1 rare earth nuclei

**LANTHANUM 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 147**

*INIS: 1977-06-13; ETDE: 1977-10-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 148**

*INIS: 1977-06-13; ETDE: 1977-10-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 149**

*INIS: 1986-03-04; ETDE: 1986-04-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 150**

*1995-10-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 151**

*2007-11-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 152**

*2007-11-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 153**

*2007-11-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 154**

*2007-11-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei



**LANTHANUM 155**

2007-11-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM ADDITIONS**

*Alloys containing not more than 1% La are listed here.*

- \*BT1 lanthanum alloys
- \*BT1 rare earth additions
- NT1 alloy-co36cr22ni22w15fe3
- NT2 haynes 188 alloy

**LANTHANUM ALLOYS**

*Alloys containing more than 1% La.*

- \*BT1 rare earth alloys
- NT1 lanthanum additions
- NT2 alloy-co36cr22ni22w15fe3
- NT3 haynes 188 alloy
- NT1 lanthanum base alloys
- NT1 misch metal

**LANTHANUM BASE ALLOYS**

- \*BT1 lanthanum alloys

**LANTHANUM BORIDES**

- \*BT1 borides
- \*BT1 lanthanum compounds

**LANTHANUM BROMIDES**

- \*BT1 bromides
- \*BT1 lanthanum halides

**LANTHANUM CARBIDES**

- \*BT1 carbides
- \*BT1 lanthanum compounds

**LANTHANUM CARBONATES**

1996-07-18

- \*BT1 carbonates
- \*BT1 lanthanum compounds
- RT carbonate minerals

**LANTHANUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 lanthanum halides

**lanthanum chromites**

*INIS: 2000-04-12; ETDE: 1979-07-24*

- USE chromium oxides
- USE lanthanum oxides

**LANTHANUM COMPLEXES**

- \*BT1 rare earth complexes

**LANTHANUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 lanthanum borides
- NT1 lanthanum carbides
- NT1 lanthanum carbonates
- NT1 lanthanum halides
- NT2 lanthanum bromides
- NT2 lanthanum chlorides
- NT2 lanthanum fluorides
- NT2 lanthanum iodides
- NT1 lanthanum hydrides
- NT1 lanthanum hydroxides
- NT1 lanthanum nitrates
- NT1 lanthanum nitrides
- NT1 lanthanum oxides
- NT1 lanthanum perchlorates
- NT1 lanthanum phosphates
- NT1 lanthanum phosphides
- NT1 lanthanum selenides
- NT1 lanthanum silicates
- NT1 lanthanum silicides
- NT1 lanthanum sulfates
- NT1 lanthanum sulfides
- NT1 lanthanum tellurides
- NT1 lanthanum tungstates

NT1 plzt

**LANTHANUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 lanthanum halides

**LANTHANUM HALIDES**

2012-07-19

- \*BT1 halides
- \*BT1 lanthanum compounds
- NT1 lanthanum bromides
- NT1 lanthanum chlorides
- NT1 lanthanum fluorides
- NT1 lanthanum iodides

**LANTHANUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 lanthanum compounds

**LANTHANUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 lanthanum compounds

**LANTHANUM IODIDES**

- \*BT1 iodides
- \*BT1 lanthanum halides

**LANTHANUM IONS**

- \*BT1 ions

**LANTHANUM ISOTOPES**

1995-10-02

- BT1 isotopes
- NT1 lanthanum 117
- NT1 lanthanum 118
- NT1 lanthanum 119
- NT1 lanthanum 120
- NT1 lanthanum 121
- NT1 lanthanum 122
- NT1 lanthanum 123
- NT1 lanthanum 124
- NT1 lanthanum 125
- NT1 lanthanum 126
- NT1 lanthanum 127
- NT1 lanthanum 128
- NT1 lanthanum 129
- NT1 lanthanum 130
- NT1 lanthanum 131
- NT1 lanthanum 132
- NT1 lanthanum 133
- NT1 lanthanum 134
- NT1 lanthanum 135
- NT1 lanthanum 136
- NT1 lanthanum 137
- NT1 lanthanum 138
- NT1 lanthanum 139
- NT1 lanthanum 140
- NT1 lanthanum 141
- NT1 lanthanum 142
- NT1 lanthanum 143
- NT1 lanthanum 144
- NT1 lanthanum 145
- NT1 lanthanum 146
- NT1 lanthanum 147
- NT1 lanthanum 148
- NT1 lanthanum 149
- NT1 lanthanum 150
- NT1 lanthanum 151
- NT1 lanthanum 152
- NT1 lanthanum 153
- NT1 lanthanum 154
- NT1 lanthanum 155

**LANTHANUM NITRATES**

- \*BT1 lanthanum compounds
- \*BT1 nitrates

**LANTHANUM NITRIDES**

- \*BT1 lanthanum compounds
- \*BT1 nitrides

**LANTHANUM OXIDES**

- UF lanthanum chromites
- \*BT1 lanthanum compounds
- \*BT1 oxides

**LANTHANUM PERCHLORATES**

- \*BT1 lanthanum compounds
- \*BT1 perchlorates

**LANTHANUM PHOSPHATES**

- \*BT1 lanthanum compounds
- \*BT1 phosphates

**LANTHANUM PHOSPHIDES**

*INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1 lanthanum compounds
- \*BT1 phosphides

**LANTHANUM SELENIDES**

- \*BT1 lanthanum compounds
- \*BT1 selenides

**LANTHANUM SILICATES**

1996-11-13

- \*BT1 lanthanum compounds
- \*BT1 silicates

**LANTHANUM SILICIDES**

1984-04-04

- \*BT1 lanthanum compounds
- \*BT1 silicides

**LANTHANUM SULFATES**

- \*BT1 lanthanum compounds
- \*BT1 sulfates

**LANTHANUM SULFIDES**

- \*BT1 lanthanum compounds
- \*BT1 sulfides

**LANTHANUM TELLURIDES**

- \*BT1 lanthanum compounds
- \*BT1 tellurides

**LANTHANUM TUNGSTATES**

1983-06-01

- \*BT1 lanthanum compounds
- \*BT1 tungstates

**lanzhou cyclotron**

*INIS: 1983-06-01; ETDE: 1983-07-07*

- USE hirfl cyclotron

**LAOS**

- BT1 asia
- BT1 developing countries

**lap welds**

1976-03-17

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE welded joints

**LAPLACE EQUATION**

- \*BT1 partial differential equations
- RT poisson equation
- RT spherical harmonics

**laplace operator**

- USE laplacian

**LAPLACE TRANSFORMATION**

- \*BT1 integral transformations

**LAPLACIAN**

- UF laplace operator
- BT1 mathematical operators
- RT diffusion equations
- RT vectors

**lapps**

(Prior to September 2008 this was a valid descriptor.)

- USE sami people

**LARAMIE ENERGY RESEARCH CENTER**

2000-04-12

- \*BT1 us doe
- \*BT1 us erda

**LARAMIE ENERGY TECHNOLOGY CENTER**

INIS: 2000-04-12; ETDE: 1978-12-11

- \*BT1 us doe

**LARCHES**

INIS: 2000-04-12; ETDE: 1988-02-02

Larix.

- \*BT1 conifers

**LARDERELLO GEOTHERMAL FIELD**

1992-06-04

- BT1 geothermal fields
- RT italy
- RT vapor-dominated systems

**large break loss-of-coolant accident**

2017-07-18

USE lbloca

**large coil program**

INIS: 1982-11-30; ETDE: 1979-02-23

Coordinate descriptor below with descriptor for aspect of program discussed, e.g. SUPERCONDUCTING MAGNETS.

- USE coordinated research programs
- USE superconducting magnets

**LARGE-EDDY SIMULATION**

2009-12-09

Numerical technique for solution of partial differential equations governing turbulent fluid flow.

- \*BT1 computerized simulation
- RT turbulent flow

**LARGE INTESTINE**

UF appendix (vermiform)

UF colon

- \*BT1 intestines

NT1 rectum

RT excretion

RT feces

**larmor electrons**

USE larmor radius

**larmor nuclear precession**

USE larmor precession

**LARMOR PRECESSION**

UF larmor nuclear precession

BT1 precession

**LARMOR RADIUS**

UF gyromagnetic radius

UF larmor electrons

RT magnetic fields

**LARVAE**

UF larval stage

UF metacercariae

UF nymphs

UF tadpoles

RT age groups

RT amphibians

RT ichthyoplankton

RT insects

RT metamorphosis

**larval stage**

USE larvae

**LARYNGECTOMY**

INIS: 1981-08-31; ETDE: 1981-09-22

- \*BT1 surgery
- RT larynx

**LARYNX**

BT1 respiratory system

RT laryngectomy

RT neck

**LASER BEAM MACHINING**

INIS: 1982-09-21; ETDE: 1977-11-09

BT1 machining

**LASER CAVITIES**

1975-08-22

RT lasers

**LASER DOPPLER ANEMOMETERS**

INIS: 1993-04-21; ETDE: 1992-07-02

- \*BT1 anemometers
- RT laser radiation
- RT lasers

**LASER DRILLING**

INIS: 1976-07-06; ETDE: 1976-08-24

- \*BT1 materials drilling
- RT laser radiation

**LASER FUSION REACTORS**

INIS: 1999-04-19; ETDE: 1976-09-15

- BT1 thermonuclear reactors
- NT1 cascade reactors
- NT1 hylife converter
- RT antares facility
- RT aurora facility
- RT direct drive laser implosion
- RT gdl facility
- RT gekko facility
- RT helios facility
- RT icf devices
- RT indirect drive laser implosion
- RT inertial confinement
- RT inertial fusion drivers
- RT laser implosions
- RT nova facility
- RT omega facility
- RT shiva facility
- RT trident facility
- RT vulcan facility

**laser guidance**

INIS: 2000-04-12; ETDE: 1986-09-05

A means of guiding a charged particle beam. A laser beam photoionizes a channel through a gas, and the resulting plasma serves to strongly focus and guide the beam.

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE beam transport
- USE laser radiation

**LASER IMPLOSIONS**

UF thermonuclear implosions (laser)

BT1 implosions

NT1 direct drive laser implosion

NT1 indirect drive laser implosion

RT fusion yield

RT inertial confinement

RT laser fusion reactors

RT laser-produced plasma

RT laser-radiation heating

RT laser targets

RT pulsed fusion reactors

**LASER ION SOURCES**

2018-02-26

- BT1 ion sources
- NT1 laser-plasma ion sources
- NT1 resonant-ionization laser ion sources

**LASER ISOTOPE SEPARATION**

A laser photon beam selectively excites or ionizes one of the isotopes which can then be isolated by electromagnetic, chemical, or other methods.

UF avlis

UF mlis

UF silix process

\*BT1 isotope separation

RT lasers

**LASER MATERIALS**

1992-08-11

BT1 materials

RT laser radiation

RT lasers

**LASER MIRRORS**

1999-07-15

BT1 mirrors

RT lasers

**LASER-PLASMA ION SOURCES**

2018-02-26

- \*BT1 laser ion sources

**LASER POWER TRANSMISSION**

INIS: 1992-08-11; ETDE: 1980-10-07

UF power beaming

BT1 power transmission

RT power systems

**LASER-PRODUCED PLASMA**

BT1 plasma

RT direct drive laser implosion

RT indirect drive laser implosion

RT laser implosions

RT laser-radiation heating

RT plasma production

**laser pumping**

INIS: 2000-03-28; ETDE: 1981-08-21

Use one of the NT's under pumping.

SEE pumping

**LASER RADIATION**

UF laser guidance

\*BT1 electromagnetic radiation

RT beat wave accelerators

RT laser doppler anemometers

RT laser drilling

RT laser materials

RT laser-radiation heating

RT laser targets

RT laser welding

RT lasers

RT monochromatic radiation

RT optical radar

RT superradiance

RT visible radiation

**LASER-RADIATION HEATING**

\*BT1 plasma heating

RT direct drive laser implosion

RT indirect drive laser implosion

RT laser implosions

RT laser-produced plasma

RT laser radiation

**LASER SPECTROSCOPY**

INIS: 1979-09-18; ETDE: 1978-12-20

BT1 spectroscopy

NT1 raman spectroscopy

RT absorption spectroscopy

RT fluorescence spectroscopy

RT raman spectra

**LASER TARGETS**

INIS: 1981-08-31; ETDE: 1978-09-11

SF icf targets

SF inertial confinement fusion targets

BT1 targets

RT direct drive laser implosion  
 RT electron beam targets  
 RT indirect drive laser implosion  
 RT inertial confinement  
 RT ion beam targets  
 RT laser implosions  
 RT laser radiation  
 RT thermonuclear fuels

**LASER WEAPONS**

INIS: 2000-04-12; ETDE: 1979-03-05

\*BT1 directed-energy weapons

RT lasers

**LASER WELDING**

\*BT1 welding

RT laser radiation

**LASERS**

1999-02-22

*Light Amplification by Stimulated Emission of Radiation.*

UF petawatt lasers

SF stimulated emission devices

NT1 chemical lasers

NT1 free electron lasers

NT1 gas lasers

NT2 carbon dioxide lasers

NT2 carbon monoxide lasers

NT2 excimer lasers

NT3 krypton chloride lasers

NT3 krypton fluoride lasers

NT2 gas dynamic lasers

NT2 helium-neon lasers

NT2 helium-xenon lasers

NT2 iodine lasers

NT2 metal vapor lasers

NT1 liquid lasers

NT2 dye lasers

NT1 ring lasers

NT1 solid state lasers

NT2 diode-pumped solid state lasers

NT2 neodymium lasers

NT2 ruby lasers

NT2 semiconductor lasers

NT1 x-ray lasers

RT electrical pumping

RT electron beam pumping

RT frequency selection

RT gasers

RT laser cavities

RT laser doppler anemometers

RT laser isotope separation

RT laser materials

RT laser mirrors

RT laser radiation

RT laser weapons

RT light sources

RT masers

RT mode control

RT mode locking

RT mode selection

RT multi-photon processes

RT nuclear pumping

RT optical pumping

RT optical radar

RT q-switching

RT quantum electronics

RT quantum optics

RT radiation sources

RT stimulated emission

**LASERTRONS**

INIS: 1986-05-23; ETDE: 1986-11-14

\*BT1 microwave tubes

RT power supplies

RT rf systems

**lasl**

1997-01-28

(Until March 1995 this was a valid descriptor.)

Name changed in 1980 to Los Alamos

National Laboratory, and more recent material should have been indexed to LANL.)

USE lanl

**lasl cold critical assembly**

INIS: 1977-04-07; ETDE: 2002-03-09

USE plasma core assembly

**lasl critical assembly**

INIS: 1979-02-21; ETDE: 2001-01-23

USE parka reactor

**lass growth method**

INIS: 2000-04-12; ETDE: 1982-07-27

(Prior to February 1995, this was a valid

ETDE descriptor.)

USE crystal growth methods

**LATCHKEY OPERATION**

INIS: 2000-04-12; ETDE: 1976-11-01

\*BT1 nuclear explosions

\*BT1 underground explosions

RT contained explosions

**late radiation effects**

USE delayed radiation effects

**LATENCY PERIOD**

UF disease free period

RT acute irradiation

RT delayed radiation effects

RT incubation

RT quarantine

RT radiation syndrome

**latent heat of fusion**

USE fusion heat

**latent heat of sublimation**

USE sublimation heat

**latent heat of transition**

USE transition heat

**latent heat of vaporization**

USE vaporization heat

**LATENT HEAT STORAGE**

INIS: 1993-06-04; ETDE: 1977-06-30

*Storage of thermal energy in the latent heat of fusion of various materials.*

\*BT1 heat storage

RT fusion heat

RT phase change materials

RT seasonal thermal energy storage

RT thermal energy storage equipment

RT vaporization heat

**LATENT IMAGES**

RT dielectric track detectors

RT nuclear emulsions

RT photographic emulsions

RT photographic films

**laterologging**

INIS: 2000-06-27; ETDE: 1979-05-02

USE resistivity logging

**LATEX**

\*BT1 rubbers

RT coatings

RT emulsions

RT natural rubber

RT protective coatings

**LATHES**

INIS: 1980-05-14; ETDE: 1978-07-06

\*BT1 machine tools

RT machining

**LATIN AMERICA**

INIS: 1986-03-04; ETDE: 1978-08-07

NT1 central america

NT2 belize

NT2 costa rica

NT2 el salvador

NT2 guatemala

NT2 honduras

NT2 nicaragua

NT2 panama

NT1 cuba

NT1 dominican republic

NT1 haiti

NT1 jamaica

NT1 mexico

NT1 puerto rico

NT1 saint lucia

NT1 saint vincent and the grenadines

NT1 south america

NT2 argentina

NT3 mendoza

NT2 bolivia

NT3 chacaltaya

NT2 brazil

NT2 chile

NT2 colombia

NT2 ecuador

NT2 french guiana

NT2 guyana

NT2 paraguay

NT2 peru

NT2 surinam

NT2 uruguay

NT2 venezuela

RT west indies

**latin america nuclear weapons****prohibition treaty**

INIS: 1993-11-09; ETDE: 2002-03-09

USE tlalotelco treaty

**latin american energy organization**

2006-10-11

USE olade

**LATINA REACTOR**

*Borgo Sabotino, Latina, Italy. Permanently shut down since 1987.*

UF foce verde reactor

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 thermal reactors

**latir event**

INIS: 2000-04-12; ETDE: 1976-03-11

*A test made during PROJECT ARBOR.*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**LATITUDE EFFECT**

1999-07-16

\*BT1 geographical variations

RT equator

**lattice defects**

INIS: 2000-04-12; ETDE: 1977-08-09

USE crystal defects

**LATTICE FIELD THEORY**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 constructive field theory

RT gauge invariance

RT instantons

RT lie groups

RT wilson loop

**LATTICE PARAMETERS**

*RT* crystal lattices

**LATTICE VIBRATIONS**

*UF* vibrations (lattice)  
*RT* anharmonic crystals  
*RT* crystal structure  
*RT* debye-waller factor  
*RT* harmonics  
*RT* nuclear specific heat  
*RT* oscillation modes  
*RT* rayleigh waves  
*RT* vibrational states

**lattices (crystal)**

USE crystal lattices

**lattices (reactor)**

USE reactor lattices

**LATVIA**

*INIS*: 1997-08-20; *ETDE*: 1993-03-15  
 (Until January 1993, this was indexed by USSR.)

*SF* soviet union  
*SF* union of soviet socialist republics  
*SF* ussr  
 \*BT1 eastern europe

**LATVIAN ORGANIZATIONS**

2004-03-31  
 BT1 national organizations

**laue-bragg scattering**

USE bragg reflection

**LAUE METHOD**

BT1 diffraction methods  
*RT* crystal lattices  
*RT* kossel method  
*RT* structural chemical analysis  
*RT* x-ray diffraction

**LAUMONTITE**

*INIS*: 2000-04-12; *ETDE*: 1977-12-22  
 A white zeolite mineral.  
 \*BT1 zeolites

**LAUNCHING**

*RT* missile launching sites  
*RT* missiles  
*RT* rockets  
*RT* space vehicles

**laundries**

*INIS*: 2000-04-12; *ETDE*: 1979-02-27  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE buildings  
 USE clothing  
 USE washing

**lauric acid**

USE dodecanoic acid

**lauryl radicals**

USE dodecyl radicals

**lausanne tokamak**

*INIS*: 1984-04-04; *ETDE*: 1984-05-08  
 USE tea tokamak

**lav virus**

*INIS*: 1986-05-23; *ETDE*: 2002-03-09  
 USE aids virus

**LAVA**

A general term for a molten extrusive; also, for the rock that is solidified from it.  
 \*BT1 igneous rocks  
*RT* eruption  
*RT* magma  
*RT* magnesium silicates

*RT* magnesium sulfates  
*RT* silicate minerals  
*RT* volcanism  
*RT* volcanoes

**LAVAGE**

Washing out of hollow organ by copious injections and rejections of water.  
*UF* pulmonary lavage  
*RT* decontamination  
*RT* excretion  
*RT* lungs  
*RT* respiratory system

**LAVENITE**

2000-04-12  
 \*BT1 silicate minerals  
*RT* calcium silicates  
*RT* sodium silicates  
*RT* zirconium silicates

**LAVES PHASES**

*RT* crystal lattices  
*RT* intermetallic compounds

**LAWRENCE BERKELEY LABORATORY**

*UF* lbl  
*UF* uclbl  
*UF* university of california lawrence radiation laboratory  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
*RT* california

**LAWRENCE LIVERMORE LABORATORY**

Name changed to Lawrence Livermore National Laboratory, and more recent material should be indexed to LAWRENCE LIVERMORE NATIONAL LABORATORY.  
*UF* uclll  
 \*BT1 lawrence livermore national laboratory  
 \*BT1 us aec  
 \*BT1 us erda  
*RT* california  
*RT* nova facility  
*RT* shiva facility  
*RT* tmx devices

**LAWRENCE LIVERMORE NATIONAL LABORATORY**

*INIS*: 1993-11-09; *ETDE*: 1994-08-18  
 Formerly known as Lawrence Livermore Laboratory, and older material is so indexed.  
*UF* llnl  
 \*BT1 us doe  
 NT1 lawrence livermore laboratory  
*RT* california  
*RT* nova facility  
*RT* novette facility  
*RT* shiva facility

**LAWRENCIUM**

\*BT1 actinides  
 \*BT1 transplutonium elements

**LAWRENCIUM 251**

2007-11-13  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-odd nuclei

**LAWRENCIUM 252**

2002-01-11  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 lawrencium isotopes

\*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**LAWRENCIUM 253**

*INIS*: 1986-06-09; *ETDE*: 1988-12-05  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**LAWRENCIUM 254**

*INIS*: 1986-06-09; *ETDE*: 1988-12-05  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**LAWRENCIUM 255**

*INIS*: 1977-01-25; *ETDE*: 1976-04-19  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**LAWRENCIUM 256**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**LAWRENCIUM 257**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**LAWRENCIUM 258**

*INIS*: 1986-06-09; *ETDE*: 1976-04-19  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**LAWRENCIUM 259**

*INIS*: 1977-01-25; *ETDE*: 1976-11-01  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**LAWRENCIUM 260**

*INIS*: 1986-03-04; *ETDE*: 1985-06-26  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**LAWRENCIUM 261**

*INIS*: 1987-02-25; *ETDE*: 1987-04-10  
 \*BT1 actinide nuclei  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-even nuclei

**LAWRENCIUM 262**

*INIS*: 1987-02-25; *ETDE*: 1987-04-10  
 \*BT1 actinide nuclei  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-odd nuclei

**LAWRENCIUM 263**

*INIS*: 1987-02-25; *ETDE*: 1987-05-01  
 \*BT1 actinide nuclei

\*BT1 lawrencium isotopes

\*BT1 odd-even nuclei

### LAWRENCIUM 264

2007-11-13

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-odd nuclei

### LAWRENCIUM 265

2007-11-13

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-even nuclei

### LAWRENCIUM 266

2007-11-13

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-odd nuclei

### lawrencium additions

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE lawrencium compounds

### LAWRENCIUM COMPLEXES

1996-07-18

(Until July 1996 this was a valid descriptor.

Between March 1997 and May 2012

ACTINIDE COMPLEXES +

TRANSURANIUM COMPLEXES was used for this concept.)

\*BT1 actinide complexes

BT1 complexes

\*BT1 transplutonium complexes

### LAWRENCIUM COMPOUNDS

1996-07-18

SF lawrencium additions

BT1 actinide compounds

\*BT1 transplutonium compounds

### LAWRENCIUM IONS

2018-01-24

\*BT1 ions

### LAWRENCIUM ISOTOPES

1999-07-16

BT1 isotopes

NT1 lawrencium 251

NT1 lawrencium 252

NT1 lawrencium 253

NT1 lawrencium 254

NT1 lawrencium 255

NT1 lawrencium 256

NT1 lawrencium 257

NT1 lawrencium 258

NT1 lawrencium 259

NT1 lawrencium 260

NT1 lawrencium 261

NT1 lawrencium 262

NT1 lawrencium 263

NT1 lawrencium 264

NT1 lawrencium 265

NT1 lawrencium 266

### LAWS

1997-07-30

The whole body of laws, regulations, agreements, judicial or administrative decisions or practices which are binding or accepted as a rule of conduct.

(Until December 1990, this descriptor was spelled LAW.)

UF corporation law

UF general law

UF municipal law

UF private law

SF invention secrecy act

SF legal incentives

SF materials and minerals policy acts

SF petroleum marketing practices act

NT1 antitrust laws

NT1 atomic energy laws

NT2 atomic energy act

NT2 nuclear waste policy acts

NT1 case law

NT1 coastal zone management acts

NT1 energy conservation and production act

NT1 fishery laws

NT1 freedom of information act

NT1 international laws

NT1 maritime laws

NT1 mining laws

NT2 surface mining acts

NT1 national energy acts

NT2 us energy tax act

NT2 us national energy conservation policy act

NT2 us natural gas policy act

NT2 us power plant and industrial fuel use act

NT2 us public utility regulatory policies act

NT1 national energy conservation incentives act

NT1 patent laws

NT1 pollution laws

NT2 clean air acts

NT2 clean water acts

NT2 us superfund

NT1 price-anderson act

NT1 privacy act

NT1 public law

NT1 radiation protection laws

NT1 regulations

NT2 building codes

NT2 contamination regulations

NT3 maximum acceptable contamination

NT2 international regulations

NT3 oecd mcmsdrw

NT2 licensing regulations

NT2 packaging rules

NT2 pollution regulations

NT2 pricing regulations

NT2 safeguard regulations

NT2 transport regulations

NT1 resource recovery acts

NT1 tax laws

NT1 toxic substances control acts

NT1 us economic recovery tax act

NT1 us emergency preparedness act

NT1 us energy policy and conservation act

NT1 us energy security act

NT1 us national environmental policy act

NT1 us occupational safety and health act

NT1 waste disposal acts

NT2 nuclear waste policy acts

NT1 wilderness protection acts

RT administrative procedures

RT agreements

RT amendments

RT compliance

RT enforcement

RT executive orders

RT hearings

RT legal aspects

RT legislation

RT legislative text

RT public policy

RT repeals

RT solar rights

RT speed limit

RT violations

### LAWSON CRITERION

INIS: 1978-05-19; ETDE: 1978-07-05

The energy output from a thermonuclear reactor can only exceed the plasma energy input if the product of plasma density and confinement time is higher than  $10 \exp 14$  s/cm exp 3.

RT breakeven

RT confinement time

RT plasma density

RT thermonuclear devices

### LAWSUITS

INIS: 1976-12-08; ETDE: 1977-06-24

UF litigation

RT arbitration

RT courts

RT dispute settlements

RT hearings

### LAX THEOREM

RT shock waves

### LAYERS

NT1 boundary layers

NT2 plasma scrape-off layer

NT1 depletion layer

NT1 ozone layer

RT films

RT lamellae

RT stratification

RT stratigraphy

RT substrates

### lbl

INIS: 1984-04-04; ETDE: 2002-03-09

USE lawrence berkeley laboratory

### LBL 88-INCH CYCLOTRON

INIS: 1988-08-02; ETDE: 1987-12-17

Lawrence Berkeley Laboratory, Berkeley, California, USA.

\*BT1 uclrl cyclotrons

### LBLOCA

2017-07-18

UF large break loss-of-coolant accident

\*BT1 loss of coolant

### LC-FINING

INIS: 2000-04-12; ETDE: 1980-03-29

Expanded-bed catalytic hydrotreating process (proprietary).

RT coal liquids

RT hydrogenation

RT solvent-refined coal

### lcao calculations

USE lcao method

### LCAO METHOD

UF lcao calculations

UF lcao mo calculations

UF lcao scf treatment

UF lcao theory

UF linear combination of atomic orbitals

BT1 calculation methods

RT molecular orbital method

RT molecular structure

RT self-consistent field

### lcao mo calculations

USE lcao method

### lcao scf treatment

USE lcao method

### lcao theory

USE lcao method

**lcffc process**

INIS: 2000-04-12; ETDE: 1981-10-24  
 USE coal liquefaction

**LCPMPDPW**

INIS: 1976-03-25; ETDE: 1991-04-17  
 1972 London Convention on Prevention of Marine Pollution by Dumping of Waste and other Matter.  
 UF london convention for prevention of marine pollution  
 UF marine pollution prevention, london convention  
 UF pollution, prevention of marine, 1972 london convention on  
 UF prevention of marine pollution, 1972 london convention on  
 \*BT1 multilateral agreements  
 RT contamination  
 RT marine disposal  
 RT oecd mcmsdrw  
 RT pollution

**lcr**

INIS: 2000-04-12; ETDE: 1981-05-18  
 USE load collector ratio

**lcrc reactor**

2000-04-12  
 USE experimental reactors  
 USE lithium cooled reactors

**ld 50**

USE lethal radiation dose

**LEACHATES**

INIS: 1981-02-27; ETDE: 1980-04-14  
 The liquid that has percolated through soil or other media; a solution obtained by leaching.  
 \*BT1 solutions  
 RT environmental transport  
 RT ground water  
 RT in-situ processing  
 RT leaching  
 RT liquid wastes  
 RT solvent extraction

**LEACHING**

1996-07-08  
 UF elution (soluble constituents)  
 UF lixiviation  
 BT1 dissolution  
 BT1 separation processes  
 NT1 microbial leaching  
 RT diffusion  
 RT hydrometallurgy  
 RT in-situ processing  
 RT ion exchange chromatography  
 RT ion exchange materials  
 RT leachates  
 RT ore enrichment  
 RT ore processing  
 RT solubility  
 RT solution mining  
 RT solvent extraction  
 RT thiobacillus ferrooxidans  
 RT thiobacillus oxidans

**LEAD**

\*BT1 metals  
 RT shielding materials

**LEAD 178**

2007-02-14  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 lead isotopes  
 \*BT1 microseconds living radioisotopes

**LEAD 179**

2007-02-14  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 lead isotopes  
 \*BT1 milliseconds living radioisotopes

**LEAD 180**

1996-10-10  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 lead isotopes  
 \*BT1 milliseconds living radioisotopes

**LEAD 181**

2007-02-14  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 milliseconds living radioisotopes

**LEAD 182**

INIS: 1988-02-02; ETDE: 1987-07-22  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 milliseconds living radioisotopes

**LEAD 183**

INIS: 1981-02-27; ETDE: 1981-03-13  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes

**LEAD 184**

INIS: 1980-07-24; ETDE: 1980-08-12  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 milliseconds living radioisotopes

**LEAD 185**

ETDE: 1975-08-19  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 seconds living radioisotopes

**LEAD 186**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 seconds living radioisotopes

**LEAD 187**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 seconds living radioisotopes

**LEAD 188**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 seconds living radioisotopes

**LEAD 189**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 seconds living radioisotopes

**LEAD 190**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 191**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 192**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 193**

1975-10-29  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 194**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 nanoseconds living radioisotopes

**LEAD 195**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 196**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 197**

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 198**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 lead isotopes

**LEAD 199**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lead isotopes
- \*BT1 minutes living radioisotopes

**LEAD 200**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lead isotopes
- \*BT1 nanoseconds living radioisotopes

**LEAD 200 TARGET**

- INIS: 1979-12-20; ETDE: 1980-01-24*  
BT1 targets

**LEAD 201**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lead isotopes
- \*BT1 minutes living radioisotopes

**LEAD 202**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lead isotopes
- \*BT1 years living radioisotopes

**LEAD 202 TARGET**

- INIS: 1978-07-03; ETDE: 1978-08-07*  
BT1 targets

**LEAD 203**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 lead isotopes
- \*BT1 seconds living radioisotopes

**LEAD 204**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lead isotopes
- \*BT1 stable isotopes

**LEAD 204 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**LEAD 205**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 lead isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 years living radioisotopes

**LEAD 205 TARGET**

- INIS: 1978-11-24; ETDE: 1978-04-05*  
BT1 targets

**LEAD 206**

- UF radium g*  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 lead isotopes  
\*BT1 stable isotopes

**LEAD 206 REACTIONS**

- INIS: 1986-08-19; ETDE: 1986-09-05*  
\*BT1 heavy ion reactions

**LEAD 206 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**LEAD 207**

- UF actinium d*  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 lead isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 stable isotopes

**LEAD 207 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**LEAD 208**

- UF thorium d*  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 lead isotopes  
\*BT1 stable isotopes

**LEAD 208 BEAMS**

- INIS: 1978-05-19; ETDE: 1978-07-05*  
\*BT1 ion beams

**LEAD 208 REACTIONS**

- INIS: 1978-04-21; ETDE: 1978-07-06*  
\*BT1 heavy ion reactions

**LEAD 208 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**LEAD 209**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 lead isotopes

**LEAD 209 TARGET**

- INIS: 1976-07-30; ETDE: 1976-11-01*  
BT1 targets

**LEAD 210**

- UF radium d*  
\*BT1 alpha decay radioisotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 lead isotopes  
\*BT1 years living radioisotopes

**LEAD 210 TARGET**

- INIS: 1976-07-06; ETDE: 1976-08-24*  
BT1 targets

**LEAD 211**

- UF actinium b*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 lead isotopes  
\*BT1 minutes living radioisotopes

**LEAD 212**

- UF thorium b*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei

- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 lead isotopes

**LEAD 213**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 lead isotopes
- \*BT1 minutes living radioisotopes

**LEAD 214**

- UF radium b*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 lead isotopes  
\*BT1 minutes living radioisotopes

**LEAD 215**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 lead isotopes

**LEAD 216**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 lead isotopes

**LEAD-ACID BATTERIES**

- 1992-05-04*  
*UF storage batteries (lead-acid)*  
\*BT1 electric batteries

**LEAD ADDITIONS**

- Alloys containing not more than 1% Pb are listed here.*  
\*BT1 lead alloys

**LEAD ALLOYS**

- Alloys containing more than 1% Pb.*  
BT1 alloys  
NT1 alloy-bi50pb25cd12sn12  
NT2 wood metal  
NT1 cerrobend alloys  
NT1 lead additions  
NT1 lead base alloys  
NT2 terne-metal  
NT1 lead-bismuth eutectic  
NT1 lichtenberg alloy  
NT1 newton-metal  
NT1 ounce metal  
NT1 rose-metal

**LEAD BASE ALLOYS**

- \*BT1 lead alloys
- NT1 terne-metal

**LEAD-BISMUTH COOLED REACTORS**

- 2018-05-15*  
\*BT1 lead cooled reactors  
NT1 myrrha facility  
RT lead-bismuth eutectic

**LEAD-BISMUTH EUTECTIC**

- 2018-05-15*  
*Eutectic alloy of lead (44,5%) and bismuth (55,5%) used as a coolant.*  
\*BT1 bismuth base alloys  
\*BT1 lead alloys  
RT coolants  
RT lead-bismuth cooled reactors

**LEAD BROMIDES**

- \*BT1 bromides
- \*BT1 lead halides

**LEAD CARBIDES**

- 2000-04-12*  
\*BT1 carbides  
BT1 lead compounds

**LEAD CARBONATES**

- \*BT1 carbonates
- BT1 lead compounds

**LEAD CHLORIDES**

- \*BT1 chlorides
- \*BT1 lead halides

**LEAD COMPLEXES**

- BT1 complexes

**LEAD COMPOUNDS**

1997-06-17

- NT1 lead carbides
- NT1 lead carbonates
- NT1 lead germanates
- NT1 lead halides
- NT2 lead bromides
- NT2 lead chlorides
- NT2 lead fluorides
- NT2 lead iodides
- NT1 lead hydrides
- NT1 lead hydroxides
- NT1 lead nitrates
- NT1 lead nitrides
- NT1 lead oxides
- NT1 lead perchlorates
- NT1 lead phosphates
- NT1 lead selenides
- NT1 lead silicates
- NT1 lead sulfates
- NT1 lead sulfides
- NT1 lead tellurides
- NT1 lead tungstates
- NT1 plumbates
- NT1 plzt
- NT1 pzt
- NT1 tetraethyl lead

**LEAD COOLED REACTORS**

2018-05-15

- \*BT1 liquid metal cooled reactors
- NT1 brest-od-300 reactor
- NT1 lead-bismuth cooled reactors
- NT2 myrrha facility

**LEAD FLUORIDES**

- \*BT1 fluorides
- \*BT1 lead halides

**lead-free gasoline**

INIS: 1992-07-21; ETDE: 1976-11-02

- USE unleaded gasoline

**LEAD GERMANATES**

2018-01-24

- \*BT1 germanates
- BT1 lead compounds
- RT infrared spectrometers

**LEAD HALIDES**

1984-04-04

- \*BT1 halides
- BT1 lead compounds
- NT1 lead bromides
- NT1 lead chlorides
- NT1 lead fluorides
- NT1 lead iodides

**LEAD HYDRIDES**

INIS: 2000-04-12; ETDE: 1984-10-10

- \*BT1 hydrides
- BT1 lead compounds

**LEAD HYDROXIDES**

- \*BT1 hydroxides
- BT1 lead compounds

**LEAD IODIDES**

- \*BT1 iodides
- \*BT1 lead halides

**LEAD IONS**

- \*BT1 ions

**LEAD ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 lead 178
- NT1 lead 179
- NT1 lead 180
- NT1 lead 181
- NT1 lead 182
- NT1 lead 183
- NT1 lead 184
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- NT1 lead 213
- NT1 lead 214
- NT1 lead 215
- NT1 lead 216

**lead method**

- USE isotope dating

**lead minerals**

2000-04-12

- USE minerals

**LEAD NITRATES**

- BT1 lead compounds
- \*BT1 nitrates

**LEAD NITRIDES**

1996-06-28

(From June 1996 to November 2007 LEAD COMPOUNDS + NITRIDES was used for this concept.)

- BT1 lead compounds
- \*BT1 nitrides

**LEAD ORES**

- BT1 ores

**LEAD OXIDES**

1996-07-23

- BT1 lead compounds
- \*BT1 oxides
- RT fourmarierite
- RT hallimondite
- RT moctezumite
- RT oxide minerals
- RT plumbates

**LEAD PERCHLORATES**

INIS: 2000-04-12; ETDE: 1977-05-07

- BT1 lead compounds

- \*BT1 perchlorates

**LEAD PHOSPHATES**

1996-07-18

- BT1 lead compounds
- \*BT1 phosphates
- RT dewindtite
- RT phosphate minerals

**LEAD SELENIDES**

1977-01-25

- BT1 lead compounds
- \*BT1 selenides

**LEAD SILICATES**

- BT1 lead compounds
- \*BT1 silicates
- RT alamosite

**LEAD SULFATES**

- BT1 lead compounds
- \*BT1 sulfates

**LEAD SULFIDES**

- BT1 lead compounds
- \*BT1 sulfides
- RT galena
- RT sulfide minerals

**LEAD TELLURIDES**

- BT1 lead compounds
- \*BT1 tellurides

**LEAD TUNGSTATES**

INIS: 1979-04-27; ETDE: 1979-05-25

- BT1 lead compounds
- \*BT1 tungstates

**lead zirconate titanate**

INIS: 2000-04-12; ETDE: 1983-01-21

- USE pzt

**LEADING ABSTRACT**

1991-08-02

- BT1 abstracts

**LEADING PARTICLES**

INIS: 1981-11-26; ETDE: 1976-09-28

*Charged interaction products with large longitudinal momentum.*

- BT1 elementary particles
- RT particle models
- RT particle production

**LEAK DETECTORS**

- RT leak testing
- RT leaks
- RT reactor components

**LEAK TESTING**

- BT1 testing
- RT leak detectors
- RT leaks
- RT sealed sources

**leakage**

- USE leaks

**leakage (neutron)**

- USE neutron leakage

**LEAKAGE CURRENT**

- UF current (leakage)
- \*BT1 electric currents
- NT1 dark current

**LEAKS**

- UF leakage
- RT airtightness
- RT containment
- RT failures
- RT fission product release
- RT gloveboxes
- RT leak detectors



- RT leak testing  
 RT porosity  
 RT sealed sources

**lear**

INIS: 2000-04-12; ETDE: 1984-08-20  
*Low Energy Antiproton storage Ring at CERN.*

(Prior to November 1990 this was a valid ETDE descriptor.)

USE cern lear

**learn tandem accelerator**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE tandem electrostatic accelerators  
 USE van de graaff accelerators

**LEARNING**

- NT1 e-learning  
 RT attitudes  
 RT behavior  
 RT conditioned reflexes  
 RT education  
 RT training

**LEASE CONDENSATES**

INIS: 2000-04-12; ETDE: 1979-02-23

*Natural gas liquids recovered from gas well gas, associated and non-associated, in lease separators or field facilities.*

\*BT1 natural gas liquids  
 RT liquefied petroleum gases

**LEASES**

1992-03-30

- BT1 contracts  
 RT land leasing

**LEASING**

1995-04-06

- NT1 land leasing  
 RT administrative procedures  
 RT agreements  
 RT contracts  
 RT legal aspects  
 RT resource exploitation  
 RT third-party use

**LEAST SQUARE FIT**

\*BT1 maximum-likelihood fit  
 RT prony method

**LEATHER**

RT skin

**LEAVES**

- UF foliage  
 NT1 tea leaves  
 RT c4 species  
 RT calvin cycle species  
 RT canopies  
 RT chlorophyll  
 RT chlorosis  
 RT foliar uptake  
 RT forest litter  
 RT photosynthesis  
 RT plants  
 RT transpiration

**LEBANESE ORGANIZATIONS**

2004-03-31

BT1 national organizations

**LEBANON**

BT1 arab countries  
 BT1 asia  
 BT1 developing countries  
 BT1 middle east

**lebedev synchrotron**

USE fian synchrotron

**LECITHINS**

- UF phosphatidylcholine  
 \*BT1 phospholipids  
 RT choline  
 RT glycerol

**LECTINS**

INIS: 1999-07-20; ETDE: 1981-10-24

*Substances not known to be antibodies but that combine specifically with antigens and produce phenomena resembling immunological reactions.*

- NT1 concanavalin a  
 RT antibodies  
 RT antigen-antibody reactions  
 RT antigens

**LECTURES**

*Should be used to index all pieces of literature which are a lecture or a collection of lectures.*

BT1 document types

**led (light emitting diodes)**

INIS: 1978-02-23; ETDE: 1978-04-27

USE light emitting diodes

**LEDGEMONT PROCESS**

2000-04-12

*An oxygen leaching process for converting pyritics in coal slurries to soluble sulfates.*

\*BT1 desulfurization  
 RT pyrite

**LEE MODEL**

\*BT1 particle models

**LEE-YANG THEORY**

- UF salam hypothesis  
 UF yang-lee distribution  
 RT beta decay  
 RT p invariance

**leed**

USE electron diffraction

**LEGAL ASPECTS**

1999-07-20

(From August 1979 till March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)

- UF coercion  
 UF insurance law  
 SF document destruction  
 SF legal incentives  
 NT1 antitrust review  
 RT administrative procedures  
 RT amendments  
 RT atomic energy control  
 RT compliance  
 RT conflicts of interest  
 RT consumer protection  
 RT eminent domain  
 RT enforcement  
 RT executive orders  
 RT financial incentives  
 RT iaea agreements  
 RT inspection  
 RT insurance  
 RT intervenors  
 RT joint ventures  
 RT land leasing  
 RT land ownership  
 RT laws  
 RT leasing  
 RT legislation  
 RT liabilities  
 RT licenses  
 RT licensing  
 RT mineral rights  
 RT ownership  
 RT patents  
 RT political aspects

- RT price-anderson act  
 RT property rights  
 RT public policy  
 RT radiation protection  
 RT recommendations  
 RT regulations  
 RT regulatory guides  
 RT repeals  
 RT rights-of-way  
 RT safeguards  
 RT safety standards  
 RT sellback  
 RT solar rights  
 RT time delay  
 RT warranties  
 RT water rights  
 RT workmens compensation

**legal incentives**

INIS: 2000-04-12; ETDE: 1979-08-07

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE government policies  
 SEE laws  
 SEE legal aspects  
 SEE regulations

**LEGENDRE POLYNOMIALS**

\*BT1 polynomials  
 RT spherical harmonics method

**LEGIONELLA ANISA**

INIS: 2000-04-12; ETDE: 1985-05-31

\*BT1 bacteria  
 RT bacterial diseases  
 RT infectious diseases

**LEGIONELLA PNEUMOPHILA**

INIS: 1993-07-15; ETDE: 1983-06-20

*The bacterium responsible for legionnaires' disease.*

\*BT1 bacteria  
 RT bacterial diseases  
 RT cooling systems  
 RT infectious diseases

**LEGISLATION**

1997-06-19

- UF legislative programs  
 RT amendments  
 RT freedom of information act  
 RT hearings  
 RT implementation  
 RT laws  
 RT legal aspects  
 RT legislative text  
 RT local government  
 RT national government  
 RT public policy  
 RT regulations  
 RT state government  
 RT toxic substances control acts  
 RT us economic recovery tax act

**legislative programs**

2000-04-12

USE legislation

**LEGISLATIVE TEXT**

INIS: 1987-09-22; ETDE: 1987-10-23

*Use only in conjunction with literary indicator Q for indexing the text of a piece of legislation.*

RT laws  
 RT legislation  
 RT regulations

**LEGNARO NATIONAL LABORATORY**

2016-12-12

UF laboratori nazionali di legnaro

RT infn

**LEGS**

\*BT1 limbs  
 NT1 feet  
 RT femur  
 RT sciatic nerve  
 RT tibia

**LEGUMINOSAE**

1997-06-17

UF honeylocust trees  
 \*BT1 magnoliopsida  
 NT1 alfalfa  
 NT1 clover  
 NT1 glycine hispida  
 NT1 lens culinaris  
 NT1 locust trees  
 NT1 mesquite  
 NT1 phaseolus  
 NT1 pisum  
 NT1 vicia  
 NT1 vigna  
 RT mimosine  
 RT peanuts  
 RT rhizobium

**LEHMANN-KAELLEN REPRESENTATION**

RT quantum field theory

**lehmann-symanzik-zimmermann method**

USE lsz theory

**LEIBSTADT REACTOR**

\*BT1 bwr type reactors

**leipzig zfi**

INIS: 1986-05-23; ETDE: 2002-03-09

USE zfi leipzig

**LEISURE TIME ACTIVITIES**

INIS: 2000-04-12; ETDE: 1978-12-28  
 (From November 1978 till March 1997 LIFE STYLES was a valid ETDE descriptor.)

SF life styles  
 RT behavior  
 RT gardening  
 RT sociology

**LEMONIZ-1 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-03

Lemoniz, Vizcaya, Spain.

\*BT1 pwr type reactors

**LEMONIZ-2 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-03

Lemoniz, Vizcaya, Spain.

\*BT1 pwr type reactors

**LEMONS**

\*BT1 fruits  
 RT citrus

**lena triga-mk-2 pulsed reactor**

1984-06-21

USE triga-2-pavia reactor

**LENDING INSTITUTIONS**

INIS: 1993-02-18; ETDE: 1981-06-17

NT1 world bank  
 RT economy  
 RT financing

**LENGTH**

1999-07-20

BT1 dimensions  
 NT1 bond lengths  
 NT1 coherence length  
 NT1 debye length  
 NT1 diffusion length  
 NT1 elementary length

NT1 extrapolation length  
 NT1 migration length  
 NT1 radiation length  
 NT1 scattering lengths  
 NT1 slowing-down length

**lenin (nuclear ship)**

USE ns lenin

**LENIN REACTOR**

UF icebreaker lenin reactor  
 UF nuclear ship lenin reactor  
 \*BT1 pwr type reactors  
 \*BT1 ship propulsion reactors  
 RT ns lenin

**LENINGRAD-1 REACTOR**

Sosnovyy bor, Leningrad, Russian Federation.

UF rbnk-1000 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**LENINGRAD-2 REACTOR**

Sosnovyy bor, Leningrad, Russian Federation.

\*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**LENINGRAD-3 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**LENINGRAD-4 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**leningrad institute of nuclear physics**

INIS: 1997-08-08; ETDE: 1977-04-12

(Until July 1997 this was a valid descriptor.)  
 USE st petersburg institute of nuclear physics

**LENINGRAD****SYNCHROCYCLOTRON**

2000-04-12

\*BT1 synchrocyclotrons

**leningrad wwr-m reactor**

INIS: 1984-06-21; ETDE: 2002-03-09

USE wwr-m-lenin reactor

**LENNARD-JONES POTENTIAL**

BT1 potentials  
 RT interatomic forces

**lens (crystalline)**

USE crystalline lens

**LENS CULINARIS**

2017-05-17

UF lentil plant  
 \*BT1 leguminosae  
 RT lentils

**LENSES**

NT1 electromagnetic lenses  
 NT1 electrostatic lenses  
 NT1 fresnel lens  
 NT1 gravitational lenses  
 RT optical systems

**lentil plant**

2017-05-17

USE lens culinaris

**LENTILS**

2017-05-17

BT1 seeds  
 RT lens culinaris

**leonid brezhnev (nuclear ship)**

INIS: 1984-08-27; ETDE: 1994-08-10

USE ns leonid brezhnev

**LEONID BREZHNEV REACTOR**

INIS: 1984-08-27; ETDE: 1994-08-10

(Prior to November 1982 known as ARKTIKA REACTOR.)

UF arktika reactor  
 UF icebreaker arktika reactor  
 UF icebreaker leonid brezhnev reactor  
 UF nuclear ship arktika reactor  
 UF nuclear ship leonid brezhnev reactor  
 \*BT1 pwr type reactors  
 \*BT1 ship propulsion reactors  
 RT ns leonid brezhnev

**LEP STORAGE RINGS**

INIS: 1995-10-05; ETDE: 1977-11-10

European Large Electron-Positron storage rings.

UF cern lep  
 BT1 storage rings  
 \*BT1 synchrotrons

**LEPIDOPTERA**

INIS: 1985-03-15; ETDE: 1981-06-16

\*BT1 insects  
 NT1 moths  
 NT2 bollworm  
 NT2 codling moth  
 NT2 lymantria dispar  
 NT2 rice stem borers  
 NT2 silkworm

**LEPROSY**

\*BT1 bacterial diseases  
 RT mycobacterium

**LEPTIN**

2003-02-10

\*BT1 peptide hormones  
 \*BT1 polypeptides  
 RT adipose tissue  
 RT fat cells  
 RT fats

**LEPTON-BARYON INTERACTIONS**

1996-10-22

(Prior to March 1997 LEPTON-HYPERON INTERACTIONS was a valid ETDE descriptor.)

UF lepton-hyperon interactions  
 \*BT1 lepton-hadron interactions  
 NT1 lepton-nucleon interactions  
 NT2 deep inelastic scattering  
 NT2 electron-nucleon interactions  
 NT3 electron-neutron interactions  
 NT3 electron-proton interactions  
 NT2 lepton-neutron interactions  
 NT3 antilepton-neutron interactions  
 NT4 antineutrino-neutron interactions  
 NT2 lepton-proton interactions  
 NT3 antilepton-proton interactions  
 NT4 antineutrino-proton interactions  
 NT2 muon-nucleon interactions  
 NT3 muon-neutron interactions  
 NT3 muon-proton interactions  
 NT2 neutrino-nucleon interactions  
 NT3 antineutrino-nucleon interactions  
 NT4 antineutrino-neutron interactions  
 NT4 antineutrino-proton interactions  
 NT3 neutrino-neutron interactions

NT4 antineutrino-neutron interactions

NT3 neutrino-proton interactions

NT4 antineutrino-proton interactions

#### LEPTON BEAMS

\*BT1 particle beams

NT1 electron beams

NT1 muon beams

NT1 neutrino beams

NT2 antineutrino beams

NT1 positron beams

#### lepton-deuteron interactions

USE deuterium target

USE lepton reactions

#### LEPTON-HADRON INTERACTIONS

\*BT1 particle interactions

NT1 lepton-baryon interactions

NT2 lepton-nucleon interactions

NT3 deep inelastic scattering

NT3 electron-nucleon interactions

NT4 electron-neutron interactions

NT4 electron-proton interactions

NT3 lepton-neutron interactions

NT4 antilepton-neutron interactions

NT5 antineutrino-neutron interactions

NT3 lepton-proton interactions

NT4 antilepton-proton interactions

NT5 antineutrino-proton interactions

NT3 muon-nucleon interactions

NT4 muon-neutron interactions

NT4 muon-proton interactions

NT3 neutrino-nucleon interactions

NT4 antineutrino-nucleon interactions

NT5 antineutrino-neutron interactions

NT5 antineutrino-proton interactions

NT4 neutrino-neutron interactions

NT5 antineutrino-neutron interactions

NT4 neutrino-proton interactions

NT5 antineutrino-proton interactions

NT1 lepton-meson interactions

NT2 electron-meson interactions

NT3 electron-pion interactions

NT2 muon-meson interactions

NT2 neutrino-meson interactions

RT electromagnetic interactions

RT weak interactions

#### lepton-hyperon interactions

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE lepton-baryon interactions

#### LEPTON-LEPTON INTERACTIONS

\*BT1 particle interactions

NT1 electron-electron interactions

NT1 electron-muon interactions

NT1 electron-positron interactions

NT1 muon-muon interactions

NT1 neutrino-electron interactions

NT2 antineutrino-electron interactions

NT1 neutrino-muon interactions

NT1 neutrino-neutrino interactions

NT1 positron-positron interactions

RT electromagnetic interactions

RT weak interactions

#### LEPTON-MESON INTERACTIONS

\*BT1 lepton-hadron interactions

NT1 electron-meson interactions

NT2 electron-pion interactions

NT1 muon-meson interactions

NT1 neutrino-meson interactions

#### LEPTON-NEUTRON INTERACTIONS

INIS: 1977-01-25; ETDE: 1977-04-13

\*BT1 lepton-nucleon interactions

NT1 antilepton-neutron interactions

NT2 antineutrino-neutron interactions

#### LEPTON-NUCLEON INTERACTIONS

\*BT1 lepton-baryon interactions

NT1 deep inelastic scattering

NT1 electron-nucleon interactions

NT2 electron-neutron interactions

NT2 electron-proton interactions

NT1 lepton-neutron interactions

NT2 antilepton-neutron interactions

NT3 antineutrino-neutron interactions

NT1 lepton-proton interactions

NT2 antilepton-proton interactions

NT3 antineutrino-proton interactions

NT1 muon-nucleon interactions

NT2 muon-neutron interactions

NT2 muon-proton interactions

NT1 neutrino-nucleon interactions

NT2 antineutrino-nucleon interactions

NT3 antineutrino-neutron interactions

NT3 antineutrino-proton interactions

NT2 neutrino-neutron interactions

NT3 antineutrino-neutron interactions

NT2 neutrino-proton interactions

NT3 antineutrino-proton interactions

#### LEPTON NUMBER

NT1 muon number

RT gauge invariance

RT leptons

#### LEPTON-PROTON INTERACTIONS

ETDE: 1975-09-11

\*BT1 lepton-nucleon interactions

NT1 antilepton-proton interactions

NT2 antineutrino-proton interactions

#### LEPTON REACTIONS

UF lepton-deuteron interactions

BT1 nuclear reactions

NT1 electron reactions

NT2 electrofission

NT1 muon reactions

NT1 neutrino reactions

NT1 positron reactions

RT emc effect

#### LEPTONIC DECAY

Weak decay in which all decay products are leptons with at least one being a neutrino.

\*BT1 weak interactions

\*BT1 weak particle decay

RT neutrinos

RT semileptonic decay

#### LEPTONS

1996-07-18

(Prior to March 1997 FEINBERG-PAIS THEORY was a valid ETDE descriptor.)

SF feynberg-pais theory

SF peratization procedure

BT1 elementary particles

BT1 fermions

NT1 antileptons

NT2 antineutrinos

NT3 electron antineutrinos

NT3 muon antineutrinos

NT2 muons plus

NT2 positrons

NT3 cosmic positrons

NT1 electrons

NT2 cosmic electrons

NT2 exoelectrons

NT2 prompt electrons

NT2 runaway electrons

NT2 solar electrons

NT2 solvated electrons

NT2 tail electrons

NT2 trapped electrons

NT1 heavy leptons

NT2 heavy neutral muons

NT2 tau neutrinos

NT2 tau particles

NT1 muons

NT2 cosmic muons

NT2 muons minus

NT2 muons plus

NT1 neutrinos

NT2 antineutrinos

NT3 electron antineutrinos

NT3 muon antineutrinos

NT2 atmospheric neutrinos

NT3 conventional neutrinos

NT3 prompt neutrinos

NT2 cosmic neutrinos

NT2 electron neutrinos

NT3 electron antineutrinos

NT2 geoneutrinos

NT2 muon neutrinos

NT3 muon antineutrinos

NT2 reactor neutrinos

NT2 solar neutrinos

NT2 sterile neutrinos

NT2 tau neutrinos

RT lepton number

RT preons

RT semileptonic decay

#### LEPTOQUARKS

2013-10-24

BT1 bosons

\*BT1 postulated particles

#### lermontovite

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE phosphate minerals

USE uranium minerals

#### LESOTHO

BT1 africa

BT1 developing countries

#### LESSER ANTILLES

INIS: 1992-06-04; ETDE: 1980-02-11

\*BT1 west indies

NT1 antigua and barbuda

NT1 barbados

NT1 grenada

NT1 martinique

NT1 netherlands antilles

NT1 saint kitts and nevis

NT1 trinidad and tobago

NT1 virgin islands

#### LET

UF linear energy transfer

BT1 energy transfer

RT biological repair

RT bragg curve

RT dose equivalents

RT energy losses

RT ionization

RT microdosimetry

RT oxygen enhancement ratio

RT quality factor

RT radiation quality

RT rbe

#### LETHAL DOSES

INIS: 1986-03-04; ETDE: 1976-04-19

UF doses (lethal)

BT1 doses

**NT1** lethal radiation dose  
*RT* hazardous materials  
*RT* toxicity

**LETHAL GENES**

**BT1** genes  
*RT* lethal mutations

**LETHAL IRRADIATION**

**BT1** irradiation  
*RT* death  
*RT* dose-response relationships  
*RT* lethal radiation dose  
*RT* mortality  
*RT* sublethal irradiation  
*RT* supralethal irradiation  
*RT* survival curves  
*RT* survival time

**LETHAL MUTATIONS**

*UF* lethals  
**BT1** mutations  
*RT* lethal genes

**LETHAL RADIATION DOSE**

*Referring to a percentage kill, frequently with a time indication.*

*UF* *ld 50*  
**\*BT1** lethal doses  
**\*BT1** radiation doses  
*RT* lethal irradiation  
*RT* sublethal irradiation  
*RT* supralethal irradiation

**lethals**

USE lethal mutations

**letters-of-credit**

*INIS: 2000-04-12; ETDE: 1983-05-21*  
 SEE financing

**LETTUCE**

**\*BT1** magnoliopsida  
**\*BT1** vegetables

**LEUCINE**

*UF* *aminoisocaproic acid-alpha*  
**\*BT1** amino acids

**leucocytes**

USE leukocytes

**leucovorin**

*INIS: 2000-04-12; ETDE: 1978-12-11*  
 USE citrovorum factor

**LEUKEMIA**

**\*BT1** immune system diseases  
**\*BT1** neoplasms  
**NT1** myeloid leukemia  
*RT* bone marrow  
*RT* leukemia viruses  
*RT* leukemogenesis  
*RT* leukocytes  
*RT* lymphatic system  
*RT* oncogenic viruses  
*RT* splenomegaly  
*RT* vinblastine

**LEUKEMIA VIRUSES**

*INIS: 1977-09-06; ETDE: 1977-10-20*  
**\*BT1** oncogenic viruses  
*RT* experimental neoplasms  
*RT* leukemia

**LEUKEMOGENESIS**

**\*BT1** carcinogenesis  
*RT* leukemia

**LEUKOCYTES**

*UF* *granulocytes*  
*UF* *leucocytes*  
*SF* *leukocytin*

**\*BT1** blood cells  
**NT1** basophils  
**NT1** eosinophils  
**NT1** lymphocytes  
**NT1** monocytes  
**NT1** natural killer cells  
**NT1** neutrophils  
*RT* aids  
*RT* leukemia  
*RT* leukopenia  
*RT* leukopoiesis  
*RT* phagocytes

**leukocytin**

*2000-04-12*

*Substance in blood that stimulates the formation of leukocytes.*

*(Prior to January 1995, this was a valid ETDE descriptor.)*

SEE blood formation  
 SEE leukocytes

**LEUKOPENIA**

**\*BT1** hemic diseases  
**\*BT1** immune system diseases  
**BT1** symptoms  
**NT1** lymphopenia  
*RT* leukocytes  
*RT* pathological changes

**LEUKOPOIESIS**

*UF* *lymphopoiesis*  
**BT1** blood formation  
*RT* immune system diseases  
*RT* leukocytes

**level density**

USE energy-level density

**LEVEL INDICATORS**

**BT1** measuring instruments  
*RT* radiometric gages

**LEVEL MIXING RESONANCE**

*INIS: 1986-08-19; ETDE: 1989-09-18*

*A resonant method which measures nuclear electric quadrupole and magnetic dipole interactions.*

**BT1** resonance  
*RT* nuclear magnetic resonance  
*RT* nuclear quadrupole resonance

**level schemes**

USE energy levels

**LEVEL WIDTHS**

*RT* energy-level density  
*RT* energy levels  
*RT* lifetime  
*RT* line widths  
*RT* porter-thomas distribution

**LEVELS**

*1996-08-05*

*Limited to vertical distance; see also ENERGY LEVELS.*

*UF* *elevation*  
**NT1** ground level  
**NT1** sea level  
**NT1** underground  
**NT1** underwater  
*RT* altitude  
*RT* height

**LEVINGER-BETHE THEORY**

*UF* *levinger method*  
*RT* nucleons  
*RT* photoproduction

**levinger method**

USE levinger-bethe theory

**LEVINSON THEOREM**

*RT* quantum mechanics  
*RT* scattering

**LEVITATED TRAINS**

*INIS: 2000-04-12; ETDE: 1975-11-11*

*UF* *magnetic levitated trains*  
**\*BT1** trains  
*RT* levitation  
*RT* railways

**LEVITATION**

*RT* levitated trains  
*RT* magnetic fields

**LEVITRON DEVICES**

**\*BT1** internal ring devices

**LEVULINIC ACID**

*UF* *acetylpropionic acid-beta*  
*UF* *ketovaleric acid-gamma*  
**\*BT1** keto acids

**levulose**

USE fructose

**levy-klein potential**

*1996-06-28*

*(Until June 1996 this was a valid descriptor.)*

USE potentials

**levy potential**

*1996-06-28*

*(Prior to July 1996 LEVY-KLEIN*

*POTENTIAL was a valid ETDE descriptor.)*

USE potentials

**LEWIS ACIDS**

*1994-06-27*

*Substances that can accept an electron pair.*

**\*BT1** inorganic acids  
*RT* broensted acids  
*RT* lewis bases

**LEWIS BASES**

*1994-06-27*

*Substances that can donate an electron pair.*

**BT1** bases  
*RT* lewis acids

**lewis effect**

USE lewis peak

**LEWIS NUMBER**

*2007-01-08*

**BT1** dimensionless numbers  
*RT* heat transfer  
*RT* mass transfer

**LEWIS PEAK**

*UF* *lewis effect*  
*RT* nuclear reactions

**LEWIS RIVER**

*INIS: 2000-04-12; ETDE: 1981-05-18*

**\*BT1** rivers  
*RT* hydroelectric power plants  
*RT* washington

**leyden event**

*INIS: 2000-04-12; ETDE: 1977-06-21*

USE anvil project

**LFR REACTOR**

*Stichting Energieonderzoek Centrum Nederland, Petten, Netherlands.*

*UF* *lage flux reaktor petten*  
*UF* *low flux reactor petten*  
*UF* *petten low flux reactor*  
**\*BT1** argonaut type reactors  
**\*BT1** research reactors  
**\*BT1** thermal reactors  
**\*BT1** training reactors

**lh (luteinizing hormone)**

ETDE: 2005-01-28

(Prior to January 2005 LH was a valid descriptor.)

USE luteinizing hormone

**LH-RH**

LH-Releasing Hormone.

\*BT1 liberins

RT luteinizing hormone

**LHCB DETECTOR**

2015-10-27

UF lhcb experiment

\*BT1 radiation detectors

RT cern

RT cern lhcb

**lhcb experiment**

2015-10-27

USE lhcb detector

**LHD DEVICE**

INIS: 1998-09-23; ETDE: 1998-07-16

Large Helical Device, National Institute for Fusion Sciences, Nagoya, Japan.

\*BT1 closed plasma devices

RT heliotron

RT torsatron stellarators

**lhr heating**

INIS: 1984-04-04; ETDE: 2002-03-28

Lower hybrid resonance heating.

USE lower hybrid heating

**LI-DRIFTED DETECTORS**

\*BT1 semiconductor detectors

NT1 li-drifted ge detectors

NT1 li-drifted junction detectors

NT1 li-drifted si detectors

**LI-DRIFTED GE DETECTORS**

UF ge(li) detectors

\*BT1 ge semiconductor detectors

\*BT1 li-drifted detectors

**LI-DRIFTED JUNCTION DETECTORS**

\*BT1 junction detectors

\*BT1 li-drifted detectors

**LI-DRIFTED SI DETECTORS**

UF si(li) detectors

\*BT1 li-drifted detectors

\*BT1 si semiconductor detectors

**LIABILITIES**

UF absolute liability

UF accountability (legal)

UF contractual liability

UF cumulative liability

UF exclusive liability

UF fault liability

UF joint liability

UF state liability

SF accountability

NT1 civil liability

NT1 nuclear liability

RT accident management

RT accidents

RT bcolons

RT exceptional natural disaster

RT financial security

RT hazards

RT indemnification agreements

RT insurance

RT joint ventures

RT legal aspects

RT liability exclusions

RT liability limitations

RT pcotpl

RT time limitations

RT victims compensation

**liability conv maritime carriage nuclear materials**

2000-04-12

USE bcoclmnm

**liability conv nuclear damage, vienna**

2000-04-12

USE vcoclnd

**liability conv on third party, brussels**

2000-04-12

USE bestpc

**liability conv on third party, paris**

2000-04-12

USE pcotpl

**liability convention on operation of nuclear ships**

ETDE: 2002-03-27

USE bcolons

**LIABILITY EXCLUSIONS**

INIS: 1976-12-08; ETDE: 1994-08-10

When under an international convention or national law the nuclear operator is not liable for the damage caused.

UF exclusions (liability)

RT liabilities

RT nuclear liability

**LIABILITY LIMITATIONS**

INIS: 1976-12-08; ETDE: 1994-08-10

When under an international convention or national law the liability of the nuclear operator for the damage caused is limited.

UF limitations (liability)

RT liabilities

RT nuclear liability

RT time limitations

**liapunov method**

INIS: 1976-09-06; ETDE: 1976-11-01

USE lyapunov method

**LIBERIA**

BT1 africa

BT1 developing countries

**LIBERINS**

INIS: 1983-02-03; ETDE: 1983-03-07

UF releasing factors

UF releasing hormones

\*BT1 pituitary hormones

NT1 lh-rh

**LIBRARIES**

INIS: 1994-08-26; ETDE: 1975-11-28

RT buildings

RT data compilation

RT educational facilities

RT information

RT information centers

RT information systems

RT nuclear data collections

RT public buildings

**libya**

1997-01-06

(Until January 1997 this was a valid descriptor.)

USE libyan arab jamahiriya

**LIBYAN ARAB JAMAHIRIYA**

INIS: 1997-01-06; ETDE: 1996-12-24

(Until January 1997 this concept was indexed to LIBYA.)

UF libya

BT1 africa

BT1 arab countries

BT1 developing countries

RT oapec

RT opec

**libyan irt-1 reactor**

2005-01-24

USE irt-1 libya reactor

**LICADO PROCESS**

INIS: 2000-04-12; ETDE: 1986-04-29

Use of liquid carbon dioxide as a non-aqueous medium for cleaning ultrafine coal.

BT1 coal preparation

BT1 separation processes

**LICENSE APPLICATIONS**

INIS: 1996-02-12; ETDE: 1980-08-25

UF permit applications

BT1 administrative procedures

RT licenses

**LICENSES**

UF commercial licenses

UF handling licenses

UF permits

UF research licenses

NT1 construction permits

NT1 decommissioning licenses

NT1 operating licenses

RT legal aspects

RT license applications

RT licensing procedures

RT licensing regulations

RT property rights

RT site approvals

**LICENSING**

NT1 reactor licensing

RT audits

RT certification

RT inspection

RT legal aspects

RT patents

RT quality assurance

RT radiation protection

RT recommendations

RT regulations

RT safety standards

RT site selection

**LICENSING PROCEDURES**

INIS: 1976-12-08; ETDE: 1992-08-17

(Prior to August 1992 this concept in ETDE was indexed to LICENSE APPLICATIONS.)

BT1 administrative procedures

RT hearings

RT licenses

RT operating licenses

**LICENSING REGULATIONS**

INIS: 1976-12-08; ETDE: 1992-10-13

\*BT1 regulations

RT licenses

RT operating licenses

RT retrofitting

RT risk assessment

RT safety analysis

RT safety reports

**LICHENS**

\*BT1 algae

\*BT1 eumycota

**LICHTENBERG ALLOY**

2000-04-12

\*BT1 bismuth base alloys

\*BT1 lead alloys

\*BT1 tin alloys

**LICHTENBERG FIGURES**

RT breakdown

RT corona discharges

RT dielectric materials

### lichtenberg process

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE coal gasification

### lidar

INIS: 1992-04-13; ETDE: 1979-01-30

USE optical radar

### LIDO REACTOR

UF *ukaea-lido reactor*

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

### LIE GROUPS

BT1 symmetry groups

NT1 anti de sitter group

NT1 conformal groups

NT1 de sitter group

NT1 graded lie groups

NT1 o groups

NT1 poincare groups

NT2 lorentz groups

NT1 sl groups

NT1 so groups

NT2 so-10 groups

NT2 so-12 groups

NT2 so-2 groups

NT2 so-3 groups

NT2 so-4 groups

NT2 so-5 groups

NT2 so-6 groups

NT2 so-8 groups

NT1 sp groups

NT1 su groups

NT2 su-2 groups

NT2 su-3 groups

NT2 su-4 groups

NT2 su-5 groups

NT2 su-6 groups

NT2 su-7 groups

NT2 su-8 groups

NT2 su-9 groups

NT1 sw groups

NT1 u groups

NT2 u-1 groups

NT2 u-12 groups

NT2 u-2 groups

NT2 u-3 groups

NT2 u-4 groups

NT2 u-5 groups

NT2 u-6 groups

RT lattice field theory

### lie superalgebra

INIS: 1978-11-24; ETDE: 1978-12-20

USE graded lie groups

### liebigite

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE carbonate minerals

USE uranium minerals

### life (service)

INIS: 2000-04-12; ETDE: 1976-08-05

USE service life

### LIFE CYCLE

RT adolescents

RT adults

RT age groups

RT aged adults

RT children

RT elderly people

RT growth

RT infants

RT life span

RT ova

RT pregnancy

RT pupae

RT reproduction

RT ripening

RT viability

### LIFE CYCLE ASSESSMENT

INIS: 2001-03-27; ETDE: 2001-04-30

UF *ecobalance*

SF *energy content*

RT energy consumption

RT environmental impacts

RT environmental policy

RT life-cycle cost

RT resource conservation

### LIFE-CYCLE COST

INIS: 1992-04-14; ETDE: 1976-04-19

*The estimated total cost of a system during its entire service life.*

BT1 cost

RT cost benefit analysis

RT cost estimation

RT economics

RT external cost

RT life cycle assessment

RT payback period

RT service life

### life shortening

USE life span

### LIFE SPAN

UF *life shortening*

RT age dependence

RT death

RT dose commitments

RT life cycle

RT mortality

### life styles

INIS: 2000-04-12; ETDE: 1978-11-14

*The manners in which the daily lives of individuals or, more generally, communities and the types of values reflected by this organization, are organized.*

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE behavior

SEE leisure time activities

SEE socio-economic factors

### LIFE SUPPORT SYSTEMS

INIS: 1999-08-04; ETDE: 1979-05-02

*Systems providing atmospheric control and monitoring.*

RT decontamination

RT diving operations

RT miners

RT protective clothing

RT respirators

### LIFETIME

UF *mean life*

NT1 carrier lifetime

NT1 service life

NT2 lifetime extension

RT charge plunger method

RT days living radioisotopes

RT decay

RT dsa method

RT half-life

RT hours living radioisotopes

RT level widths

RT microseconds living radioisotopes

RT milliseconds living radioisotopes

RT minutes living radioisotopes

RT nanoseconds living radioisotopes

RT particle properties

RT particle widths

RT seconds living radioisotopes

RT storage life

RT years living radioisotopes

### LIFETIME EXTENSION

INIS: 2004-11-26; ETDE: 2004-12-01

\*BT1 service life

RT reactor licensing

RT reactor life cycle

RT reactor operation

### LIFT CYCLES

INIS: 2000-04-12; ETDE: 1980-08-12

*Open power cycles that use lift processes to increase the potential energy of transported water which turns a hydraulic turbine for power generation.*

UF *foam-lift cycles*

UF *otec foam-lift cycle*

UF *otec lift cycles*

SF *beck cycle*

BT1 thermodynamic cycles

NT1 mist-lift cycles

RT ocean thermal power plants

RT open-cycle systems

### lifts

2006-08-23

USE elevators

### LIGAMENTS

\*BT1 connective tissue

### ligand exchange

INIS: 1984-04-04; ETDE: 2002-03-28

USE ion exchange

USE ligands

### LIGANDS

UF *ligand exchange*

RT complexes

RT coordination number

RT crown ethers

RT ligases

RT stereochemistry

### LIGASES

Code number 6.

UF *synthetases*

\*BT1 enzymes

RT biosynthesis

RT complexes

RT ligands

### light

USE visible radiation

### light (zodiacal)

USE zodiacal light

### LIGHT BULB REACTORS

\*BT1 gas fueled reactors

### LIGHT BULBS

INIS: 2000-04-12; ETDE: 1977-07-23

UF *incandescent lamps*

UF *lamps*

NT1 fluorescent lamps

RT lighting systems

### LIGHT CONE

BT1 space-time

RT cherenkov radiation

RT minkowski space

RT relativity theory

### LIGHT EMITTING DIODES

UF *led (light emitting diodes)*

\*BT1 semiconductor diodes

**light guides**

INIS: 2000-04-12; ETDE: 1982-03-29

USE optical fibers

**LIGHT IONS**

INIS: 1977-09-15; ETDE: 1977-11-10

Whenever appropriate use one of the specific terms listed under ION BEAMS.

\*BT1 ions

RT ion beams

RT ion detection

RT multicharged ions

**LIGHT NUCLEI**

For nuclei with mass 1-40.

BT1	nuclei
NT1	aluminium 21
NT1	aluminium 22
NT1	aluminium 23
NT1	aluminium 24
NT1	aluminium 25
NT1	aluminium 26
NT1	aluminium 27
NT1	aluminium 28
NT1	aluminium 29
NT1	aluminium 30
NT1	aluminium 31
NT1	aluminium 32
NT1	aluminium 33
NT1	aluminium 34
NT1	aluminium 35
NT1	aluminium 36
NT1	aluminium 37
NT1	aluminium 38
NT1	aluminium 39
NT1	aluminium 40
NT1	argon 30
NT1	argon 31
NT1	argon 32
NT1	argon 33
NT1	argon 34
NT1	argon 35
NT1	argon 36
NT1	argon 37
NT1	argon 38
NT1	argon 39
NT1	argon 40
NT1	beryllium 10
NT1	beryllium 11
NT1	beryllium 12
NT1	beryllium 13
NT1	beryllium 14
NT1	beryllium 15
NT1	beryllium 16
NT1	beryllium 5
NT1	beryllium 6
NT1	beryllium 7
NT1	beryllium 8
NT1	beryllium 9
NT1	boron 10
NT1	boron 11
NT1	boron 12
NT1	boron 13
NT1	boron 14
NT1	boron 15
NT1	boron 16
NT1	boron 17
NT1	boron 18
NT1	boron 19
NT1	boron 6
NT1	boron 7
NT1	boron 8
NT1	boron 9
NT1	calcium 34
NT1	calcium 35
NT1	calcium 36
NT1	calcium 37
NT1	calcium 38
NT1	calcium 39
NT1	calcium 40
NT1	carbon 10
NT1	carbon 11
NT1	carbon 12
NT1	carbon 13
NT1	carbon 14
NT1	carbon 15
NT1	carbon 16
NT1	carbon 17
NT1	carbon 18
NT1	carbon 19
NT1	carbon 20
NT1	carbon 21
NT1	carbon 22
NT1	carbon 8
NT1	carbon 9
NT1	chlorine 28
NT1	chlorine 29
NT1	chlorine 30
NT1	chlorine 31
NT1	chlorine 32
NT1	chlorine 33
NT1	chlorine 34
NT1	chlorine 35
NT1	chlorine 36
NT1	chlorine 37
NT1	chlorine 38
NT1	chlorine 39
NT1	chlorine 40
NT1	deuterium
NT1	fluorine 14
NT1	fluorine 15
NT1	fluorine 16
NT1	fluorine 17
NT1	fluorine 18
NT1	fluorine 19
NT1	fluorine 20
NT1	fluorine 21
NT1	fluorine 22
NT1	fluorine 23
NT1	fluorine 24
NT1	fluorine 25
NT1	fluorine 26
NT1	fluorine 27
NT1	fluorine 28
NT1	fluorine 29
NT1	fluorine 30
NT1	fluorine 31
NT1	helium 10
NT1	helium 2
NT1	helium 3
NT2	helium 3 a
NT2	helium 3 a1
NT2	helium 3 b
NT1	helium 4
NT2	helium i
NT2	helium ii
NT1	helium 5
NT1	helium 6
NT1	helium 7
NT1	helium 8
NT1	helium 9
NT1	hydrogen 1
NT1	hydrogen 4
NT1	hydrogen 5
NT1	hydrogen 6
NT1	hydrogen 7
NT1	lithium 10
NT1	lithium 11
NT1	lithium 12
NT1	lithium 13
NT1	lithium 3
NT1	lithium 4
NT1	lithium 5
NT1	lithium 6
NT1	lithium 7
NT1	lithium 8
NT1	lithium 9
NT1	magnesium 19
NT1	magnesium 20
NT1	magnesium 21
NT1	magnesium 22
NT1	magnesium 23
NT1	magnesium 24
NT1	magnesium 25
NT1	magnesium 26
NT1	magnesium 27
NT1	magnesium 28
NT1	magnesium 29
NT1	magnesium 30
NT1	magnesium 31
NT1	magnesium 32
NT1	magnesium 33
NT1	magnesium 34
NT1	magnesium 35
NT1	magnesium 36
NT1	magnesium 37
NT1	magnesium 38
NT1	magnesium 39
NT1	magnesium 40
NT1	neon 16
NT1	neon 17
NT1	neon 18
NT1	neon 19
NT1	neon 20
NT1	neon 21
NT1	neon 22
NT1	neon 23
NT1	neon 24
NT1	neon 25
NT1	neon 26
NT1	neon 27
NT1	neon 28
NT1	neon 29
NT1	neon 30
NT1	neon 31
NT1	neon 32
NT1	neon 33
NT1	neon 34
NT1	nitrogen 10
NT1	nitrogen 11
NT1	nitrogen 12
NT1	nitrogen 13
NT1	nitrogen 14
NT1	nitrogen 15
NT1	nitrogen 16
NT1	nitrogen 17
NT1	nitrogen 18
NT1	nitrogen 19
NT1	nitrogen 20
NT1	nitrogen 21
NT1	nitrogen 22
NT1	nitrogen 23
NT1	nitrogen 24
NT1	nitrogen 25
NT1	oxygen 12
NT1	oxygen 13
NT1	oxygen 14
NT1	oxygen 15
NT1	oxygen 16
NT1	oxygen 17
NT1	oxygen 18
NT1	oxygen 19
NT1	oxygen 20
NT1	oxygen 21
NT1	oxygen 22
NT1	oxygen 23
NT1	oxygen 24
NT1	oxygen 25
NT1	oxygen 26
NT1	oxygen 27
NT1	oxygen 28
NT1	phosphorus 21
NT1	phosphorus 24
NT1	phosphorus 25
NT1	phosphorus 26
NT1	phosphorus 27
NT1	phosphorus 28

**NT1** phosphorus 29  
**NT1** phosphorus 30  
**NT1** phosphorus 31  
**NT1** phosphorus 32  
**NT1** phosphorus 33  
**NT1** phosphorus 34  
**NT1** phosphorus 35  
**NT1** phosphorus 36  
**NT1** phosphorus 37  
**NT1** phosphorus 38  
**NT1** phosphorus 39  
**NT1** phosphorus 40  
**NT1** potassium 32  
**NT1** potassium 33  
**NT1** potassium 34  
**NT1** potassium 35  
**NT1** potassium 36  
**NT1** potassium 37  
**NT1** potassium 38  
**NT1** potassium 39  
**NT1** potassium 40  
**NT1** scandium 36  
**NT1** scandium 37  
**NT1** scandium 38  
**NT1** scandium 39  
**NT1** scandium 40  
**NT1** silicon 22  
**NT1** silicon 23  
**NT1** silicon 24  
**NT1** silicon 25  
**NT1** silicon 26  
**NT1** silicon 27  
**NT1** silicon 28  
**NT1** silicon 29  
**NT1** silicon 30  
**NT1** silicon 31  
**NT1** silicon 32  
**NT1** silicon 33  
**NT1** silicon 34  
**NT1** silicon 35  
**NT1** silicon 36  
**NT1** silicon 37  
**NT1** silicon 38  
**NT1** silicon 39  
**NT1** silicon 40  
**NT1** sodium 18  
**NT1** sodium 19  
**NT1** sodium 20  
**NT1** sodium 21  
**NT1** sodium 22  
**NT1** sodium 23  
**NT1** sodium 24  
**NT1** sodium 25  
**NT1** sodium 26  
**NT1** sodium 27  
**NT1** sodium 28  
**NT1** sodium 29  
**NT1** sodium 30  
**NT1** sodium 31  
**NT1** sodium 32  
**NT1** sodium 33  
**NT1** sodium 34  
**NT1** sodium 35  
**NT1** sodium 37  
**NT1** sulfur 24  
**NT1** sulfur 26  
**NT1** sulfur 27  
**NT1** sulfur 28  
**NT1** sulfur 29  
**NT1** sulfur 30  
**NT1** sulfur 31  
**NT1** sulfur 32  
**NT1** sulfur 33  
**NT1** sulfur 34  
**NT1** sulfur 35  
**NT1** sulfur 36  
**NT1** sulfur 37  
**NT1** sulfur 38  
**NT1** sulfur 39

**NT1** sulfur 40  
**NT1** titanium 38  
**NT1** titanium 39  
**NT1** titanium 40  
**NT1** tritium  
**NT1** vanadium 40  
**RT** nuclear structure

### LIGHT PIPES

**RT** scintillation counters

### LIGHT SCATTERING

1994-07-01

**BT1** scattering  
**RT** diffuse solar radiation  
**RT** optical properties  
**RT** visible radiation

### LIGHT SOURCES

**BT1** radiation sources  
**RT** advanced light source  
**RT** advanced photon source  
**RT** lasers  
**RT** nsls  
**RT** photon beams  
**RT** pohang light source  
**RT** sesame synchrotron laboratory  
**RT** swiss light source  
**RT** synchrotron radiation sources  
**RT** visible radiation

### LIGHT TRANSMISSION

1992-03-30

**BT1** transmission  
**RT** fiber optics  
**RT** opacity  
**RT** optical properties  
**RT** optoelectronic devices

### light water cooled reactors

INIS: 2000-04-12; ETDE: 1979-12-17

USE water cooled reactors

### light water moderated reactors

INIS: 2000-04-12; ETDE: 1979-12-17

USE water moderated reactors

### lighter-than-air craft

INIS: 2000-04-12; ETDE: 1980-01-15

(Prior to March 1996 AIRSHIPS was used for this concept in ETDE.)

USE aircraft

### LIGHTERING

INIS: 2000-04-12; ETDE: 1979-08-08

Transhipment of petroleum from VLCC to second vessel in order to reduce VLCC draft so that she can enter harbor.

**BT1** materials handling  
**RT** petroleum  
**RT** tanker ships  
**RT** transport

### LIGHTING LOADS

INIS: 2000-04-12; ETDE: 1981-05-18

**RT** lighting systems

### LIGHTING REQUIREMENTS

INIS: 2006-03-03; ETDE: 2006-02-24

**BT1** demand  
**RT** brightness  
**RT** daylighting  
**RT** illuminance  
**RT** lighting systems  
**RT** visible radiation

### LIGHTING SYSTEMS

1986-03-04

**UF** illumination systems  
**BT1** energy systems  
**RT** ballasts  
**RT** building technology suite

**RT** daylighting  
**RT** electrical equipment  
**RT** fluorescent lamps  
**RT** illuminance  
**RT** light bulbs  
**RT** lighting loads  
**RT** lighting requirements  
**RT** optical systems  
**RT** remote viewing equipment  
**RT** skylights  
**RT** visible radiation

### LIGHTNING

**BT1** electric discharges  
**NT1** ball lightning  
**RT** storms  
**RT** whistlers

### LIGHTNING ARRESTERS

**\*BT1** electrical equipment  
**RT** circuit breakers

### lightwood

INIS: 2000-04-12; ETDE: 1980-10-28

A coniferous wood containing oleoresins or other volatile flammable substances.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE wood

### LIGNIN

**\*BT1** polysaccharides  
**RT** bark  
**RT** biomass  
**RT** delignification  
**RT** glycosides  
**RT** hemicellulose  
**RT** polyacetals  
**RT** wood  
**RT** xylans

### LIGNITE

**SF** soft coal  
**\*BT1** brown coal  
**RT** subbituminous coal

### LIGROIN

INIS: 2000-04-12; ETDE: 1975-12-16

Any of several petroleum naphtha fractions boiling usually in the range 20 to 135 degrees C consisting chiefly of pentanes and hexanes.

**UF** benzine  
**UF** petroleum ether  
**\*BT1** naphtha  
**BT1** petroleum products

### LILIOPSIDA

INIS: 1996-07-08; ETDE: 1988-12-20

(Prior to August 1996 TRILLIUM was a valid ETDE descriptor.)

**UF** monocotyledons  
**UF** trillium  
**\*BT1** magnoliophyta  
**NT1** allium sativum  
**NT1** aloe  
**NT1** banana plants  
**NT1** buckwheat  
**NT1** cattails  
**NT1** coconut palms  
**NT1** gramineae  
**NT2** bamboo  
**NT2** cereals  
**NT3** barley  
**NT3** maize  
**NT3** millet  
**NT3** oats  
**NT3** rice  
**NT3** rye  
**NT3** sorghum  
**NT3** wheat  
**NT2** reeds



- NT3 sugar cane
- NT2 switchgrass
- NT1 liliium
- NT1 oil palms
- NT1 onions
- NT2 allium cepa
- NT1 tradescantia
- NT1 water hyacinths

**LILIUM**

- \*BT1 liliopsida

**LIMBS**

1999-04-06

- BT1 body
- NT1 arms
- NT2 hands
- NT3 fingers
- NT1 legs
- NT2 feet
- RT muscles
- RT skeleton

**LIME-LIMESTONE WET****SCRUBBING PROCESSES**

INIS: 1992-08-24; ETDE: 1977-04-12

Any processes for desulfurization of stack gases using a slurry of calcium oxide or calcium carbonate to absorb sulfur dioxide in a wet scrubber.

- UF jecco process
- UF sf nateko process
- \*BT1 desulfurization
- BT1 scrubbing
- NT1 bischoff process
- RT waste processing

**LIME-SODA SINTER PROCESS**

INIS: 2000-04-12; ETDE: 1981-03-17

A high temperature method for extracting aluminium from fly ash while also producing a by-product used in the manufacture of Portland cement.

- \*BT1 waste processing
- RT aluminium
- RT fly ash
- RT materials recovery
- RT portland cement

**LIMERICK-1 REACTOR**

Exelon Generation Co., LLC, Limerick, Pennsylvania, USA.

- UF philadelphia electric power reactor-1
- \*BT1 bwr type reactors

**LIMERICK-2 REACTOR**

Exelon Generation Co., LLC, Limerick, Pennsylvania, USA.

- UF philadelphia electric power reactor-2
- \*BT1 bwr type reactors

**LIMESTONE**

- UF chalks
- UF dolomite rock
- \*BT1 carbonate rocks
- NT1 travertine
- RT calcite
- RT calcium carbonates
- RT dolomite
- RT magnesium carbonates

**limestone dual alkali desulfurization process**

INIS: 2000-04-12; ETDE: 1982-12-01

- USE cea-adl dual alkali process

**LIMING**

INIS: 1992-03-18; ETDE: 1984-02-10

The addition of limestone or its oxidized derivatives to soil or water as a means of modifying pH.

- RT calcium carbonates
- RT calcium oxides
- RT land reclamation
- RT ph value
- RT pollution
- RT pollution control
- RT soil chemistry
- RT soils
- RT water

**LIMIT CYCLE**

1994-02-28

A periodic solution of a dynamical problem towards which all other solution curves tend, in some domain of attraction.

- BT1 attractors
- RT chemical reaction kinetics
- RT differential equations
- RT dynamics
- RT equations of motion
- RT hamiltonian function
- RT lyapunov method
- RT non-equilibrium plasma
- RT nonlinear problems
- RT orbits
- RT phase space
- RT trajectories

**limitations (liability)**

INIS: 1976-12-08; ETDE: 2002-03-28

- USE liability limitations

**LIMITER CIRCUITS**

- BT1 electronic circuits

**LIMITERS**

- UF diaphragms (thermonuclear device)
- UF insulating limiters
- NT1 pumped limiters
- RT pinch devices
- RT pinch effect
- RT plasma confinement
- RT plasma diagnostics
- RT plasma impurities
- RT thermonuclear devices

**LIMITING FRAGMENTATION**

- UF cumulative effect
- UF fragmentation (limiting)
- BT1 hypothesis
- RT asymptotic solutions
- RT inclusive interactions
- RT laboratory system
- RT lorentz transformations
- RT multiple production
- RT particle models

**LIMITING VALUES**

Upper and/or lower bounds on a physical property determined theoretically or experimentally.

- SF constraints
- RT nuclear properties
- RT particle properties
- RT thermodynamic properties

**limnanthes alba**

INIS: 1991-12-16; ETDE: 1982-03-11

- USE meadow foam

**LIMNOLOGY**

The physical, chemical, meteorological, and esp. the biological and ecological conditions in inland waters.

- RT acid neutralizing capacity
- RT aquatic ecosystems

- RT eutrophication
- RT fresh water
- RT hydrosphere
- RT oceanography
- RT sediment-water interfaces
- RT sedimentary basins

**LIMONITE**

- \*BT1 iron ores
- \*BT1 oxide minerals
- RT goethite
- RT hematite
- RT iron oxides

**LINAC-RING ACCELERATORS**

2015-09-08

- BT1 accelerators
- NT1 brookhaven erhic
- NT1 cern lhec
- RT linear accelerators
- RT storage rings

**linacs**

- USE linear accelerators

**LINDANE**

INIS: 1976-05-07; ETDE: 1976-08-04

UF gamma benzene hexachloride

UF gamma hexachlorohexane

- \*BT1 chlorinated alicyclic hydrocarbons
- \*BT1 insecticides

**LINE BROADENING**

- UF broadening (line)
- UF spectral broadening
- NT1 doppler broadening
- RT line narrowing
- RT line widths
- RT optical depth curve
- RT spectra
- RT spectroscopic curve of growth
- RT stark effect

**LINE DEFECTS**

- \*BT1 crystal defects
- NT1 crowdions
- NT1 dislocations
- NT2 edge dislocations
- NT2 screw dislocations

**line losses**

INIS: 2000-04-12; ETDE: 1979-01-30

The various energy losses occurring in a transmission line.

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE power losses
- USE power transmission lines

**LINE NARROWING**

INIS: 1976-07-16; ETDE: 1976-09-15

- UF spectral narrowing
- RT line broadening
- RT line widths
- RT spectra

**LINE WIDTHS**

- RT level widths
- RT line broadening
- RT line narrowing
- RT spectra

**lineaments**

INIS: 2000-04-12; ETDE: 1984-12-10

Linear topographic features that reveal a characteristic, as a fault or the subsurface structure.

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE geologic structures

**LINEAR ABSORPTION MODELS**

1976-02-11

Models satisfying operator equation  $a = rs$ , where  $a$  is the physical scattering amplitude,  $r$  is the product of the input regge pole amplitude, and  $s$  is a rescattering factor; and the scalar equation for partial wave projections  $a(b) = r(b)s(b)$ , where  $b = (j + 1/2)/k$  is the impact parameter.

UF absorption model  
 UF absorption models (linear)  
 UF models (linear absorption)  
 \*BT1 particle models  
 RT partial waves  
 RT regge poles  
 RT scattering amplitudes

**LINEAR ACCELERATORS**

1996-08-06

(HELAC, ING LINAC, MINNESOTA UNIV LINAC, and ZERAN LINAC have been valid ETDE descriptors.)

UF helac  
 UF ing linac  
 UF intense neutron generator linac  
 UF linacs  
 UF minnesota univ linac  
 UF zeran linac  
 BT1 accelerators  
 NT1 anu superconducting linac  
 NT1 beat wave accelerators  
 NT1 beijing electron-positron collider  
 NT1 beijing proton linac  
 NT1 brookhaven 200-mev linac  
 NT1 cebaf accelerator  
 NT1 cern linac  
 NT1 elsa linacs  
 NT1 fair accelerator complex  
 NT1 fmit linac  
 NT1 frascati linac  
 NT1 hilacs  
 NT2 atlas superconducting linac  
 NT2 superhilac  
 NT1 j-parc linac  
 NT1 jaeri linac  
 NT1 kek linac  
 NT1 kharkov linac  
 NT1 lampf linac  
 NT1 linear colliders  
 NT2 compact linear collider  
 NT2 international linear collider  
 NT2 stanford linear collider  
 NT2 tesla linear collider  
 NT1 llnl advanced test accelerator  
 NT1 lue-200 accelerator  
 NT1 mea linac  
 NT1 mit bates linac  
 NT1 nrl linac  
 NT1 orela  
 NT1 orsay linac  
 NT1 quadrupole linacs  
 NT1 rilac  
 NT1 saclay linac  
 NT1 stanford 1.2-gev linac  
 NT1 stanford 20-gev linac  
 NT1 swierk linac  
 NT1 unilac  
 NT1 wakefield accelerators  
 RT drift tubes  
 RT kek photon factory  
 RT linac-ring accelerators  
 RT pigmi facilities

**LINEAR COLLIDERS**

INIS: 1993-08-02; ETDE: 1987-12-15

\*BT1 linear accelerators  
 NT1 compact linear collider  
 NT1 international linear collider  
 NT1 stanford linear collider

NT1 tesla linear collider  
 RT colliding beams

**linear combination of atomic orbitals**

1993-11-09

USE lcao method

**linear energy transfer**

USE let

**LINEAR HARD CORE PINCH DEVICES**

UF inverse pinch devices (linear)  
 UF tubular pinch devices (linear)  
 UF unpinch devices  
 \*BT1 linear pinch devices  
 RT hard core pinch

**LINEAR MOMENTUM**

UF impulse (linear momentum)  
 UF momentum (linear)  
 NT1 longitudinal momentum  
 NT1 transverse momentum  
 RT angular momentum  
 RT dalitz plot  
 RT energy-momentum tensor  
 RT kinetic energy  
 RT linear momentum operators  
 RT linear momentum resolution  
 RT mass  
 RT motion  
 RT prism plot  
 RT velocity

**LINEAR MOMENTUM OPERATORS**

\*BT1 quantum operators  
 RT linear momentum

**LINEAR MOMENTUM RESOLUTION**

BT1 resolution  
 RT linear momentum

**LINEAR MOMENTUM TRANSFER**

UF transfer (linear momentum)  
 BT1 momentum transfer  
 RT energy transfer  
 RT four momentum transfer  
 RT straight-line path approximation

**LINEAR PINCH DEVICES**

1996-06-28

(Prior to July 1996 MEGATRON was a valid ETDE descriptor.)

UF megatron  
 \*BT1 open plasma devices  
 \*BT1 pinch devices  
 NT1 linear hard core pinch devices  
 NT1 linear screw pinch devices  
 NT1 linear theta pinch devices  
 NT2 isar devices  
 NT2 scylla devices  
 NT1 linear z pinch devices  
 RT linear pinch type reactors

**LINEAR PINCH TYPE REACTORS**

INIS: 2000-04-12; ETDE: 1976-09-15

BT1 thermonuclear reactors  
 RT linear pinch devices

**LINEAR PROGRAMMING**

1999-08-13

Optimization of operations or procedures in terms of maximized, or minimized, functions of many variables subject to constraints.

BT1 calculation methods  
 RT dynamic programming  
 RT econometrics  
 RT mathematical models  
 RT nonlinear programming  
 RT optimization

**LINEAR RATEMETERS**

\*BT1 counting ratemeters

**LINEAR SCREW PINCH DEVICES**

UF combined pinch devices (linear)  
 \*BT1 linear pinch devices  
 RT screw pinch

**linear-segmented array collector**

INIS: 2000-04-12; ETDE: 1978-10-25

USE slat type collectors

**LINEAR THETA PINCH DEVICES**

1996-07-18

UF azimuthal pinch devices (linear)  
 UF bsg devices  
 UF orthogonal pinch devices (linear)  
 UF piace devices  
 \*BT1 linear pinch devices  
 NT1 isar devices  
 NT1 scylla devices  
 RT theta pinch

**LINEAR Z PINCH DEVICES**

UF longitudinal pinch devices (linear)  
 UF z pinch devices (linear)  
 \*BT1 linear pinch devices  
 RT longitudinal pinch

**LINERS**

1977-11-21

UF linings  
 RT containers  
 RT lining processes  
 RT linus reactors  
 RT seals  
 RT shells  
 RT surface coating  
 RT tanks

**LINGAO-1 REACTOR**

2000-05-17

Shenzhen, Guangdong, China.

\*BT1 pwr type reactors

**LINGAO-2 REACTOR**

2000-05-17

Shenzhen, Guangdong, China.

\*BT1 pwr type reactors

**LINGAO-3 REACTOR**

2014-11-25

Shenzhen, Guangdong, China.

\*BT1 pwr type reactors

**LINGAO-4 REACTOR**

2014-11-25

Shenzhen, Guangdong, China.

\*BT1 pwr type reactors

**LINGEN REACTOR**

Emsland, Federal Republic of Germany.  
 Permanent shutdown since January 1977.

UF kernkraftwerk lingen  
 UF kwl reactor  
 \*BT1 bwr type reactors

**LINING PROCESSES**

RT liners  
 RT surface coating

**linings**

INIS: 1977-11-21; ETDE: 2002-03-28

USE liners

**linking (borehole)**

INIS: 2000-04-12; ETDE: 1976-11-29

USE borehole linking

**LINOLEIC ACID**

\*BT1 monocarboxylic acids

**LINOLENIC ACID**

\*BT1 monocarboxylic acids

**linotrons**

2000-04-12

*Combinations of linear and circular accelerators in which particles pass through linac alternately in one and then the other direction, turning around in special reflectors with constant magnetic fields.*

(Prior to June 1991 this was a valid ETDE descriptor.)

USE cyclic accelerators

**LINSEED OIL**

UF flaxseed oil

\*BT1 triglycerides

\*BT1 vegetable oils

RT flax plants

RT plasticizers

**linseed plants**

USE flax plants

**LINUS REACTORS**

INIS: 1981-08-31; ETDE: 1978-01-23

BT1 thermonuclear reactors

RT implosions

RT liners

RT magnetic compression

**liouville equation**

ETDE: 2002-03-28

USE boltzmann-vlasov equation

**LIOUVILLE INTEGRABILITY**

2018-02-16

BT1 integrability

**LIOUVILLE THEOREM**

RT phase space

RT statistical mechanics

**lipase**

INIS: 2000-04-12; ETDE: 1981-01-12

Code number 3.1.1.3.

(From January 1981 to January 1990, this was a valid ETDE descriptor.)

USE lipases

**LIPASES**

(From January 1981 to January 1990, this was not a valid ETDE descriptor and material from these years was indexed to LIPASE.)

UF lipase

\*BT1 carboxylesterases

**LIPIDS**

1996-10-23

UF lanolin

UF wool fat

BT1 organic compounds

NT1 glycolipids

NT2 cerebroside

NT2 gangliosides

NT1 lipopolysaccharides

NT1 lipoproteins

NT2 apolipoproteins

NT2 myelin

NT1 phospholipids

NT2 cardiolipin

NT2 lecithins

NT2 sphingomyelins

NT1 triglycerides

NT2 corn oil

NT2 linseed oil

NT2 olive oil

NT2 peanut oil

NT2 soybean oil

NT2 triolein

RT cholesterol

RT choline

RT chylomicrons

RT esters

RT fats

RT liposomes

RT lipotropic factors

RT valinomycin

**LIPIODOL**

BT1 contrast media

\*BT1 oils

\*BT1 organic iodine compounds

**lipoic acid (alpha)**

USE thioctic acid

**LIPOPOLYSACCHARIDES**

\*BT1 lipids

\*BT1 polysaccharides

**LIPOPROTEINS**

UF proteolipids

\*BT1 lipids

\*BT1 proteins

NT1 apolipoproteins

NT1 myelin

RT membrane proteins

**LIPOSOMES**

INIS: 1980-02-26; ETDE: 1979-07-18

*Lipoidal inclusions in the cytoplasm or substances prepared in vitro of alternating lipid and water layers and proposed as target-specific pharmaceutical delivery systems in organisms.*

UF multilamellar lipid vesicles

RT carriers

RT cell constituents

RT chemotherapy

RT cytoplasm

RT lipids

**LIPOTROPIC FACTORS**

BT1 drugs

NT1 betaine

NT1 choline

NT1 ethionine

NT1 inositol

NT1 methionine

NT1 phytic acid

NT1 thioctic acid

RT lipids

RT vitamin b group

**LIPPMANN-SCHWINGER EQUATION**

\*BT1 integral equations

RT blankenbecler-sugar equations

RT faddeev equations

RT quantum mechanics

RT quasipotential equation

RT schwinger variational method

**lips**

USE oral cavity

**liptinite**

INIS: 2000-04-12; ETDE: 1987-07-24

USE exinite

**LIQUEFACTION**

UF liquefying

BT1 thermochemical processes

NT1 coal liquefaction

NT2 bcl process

NT2 bergius process

NT2 catalytic hydrosolvation process

NT2 cffc process

NT2 coed process

NT2 costeam process

NT2 dow liquefaction process

NT2 exxon liquefaction process

NT2 flash hydrolysis process

NT2 h-coal process

NT2 liquid phase methanol process

NT2 occidental flash pyrolysis process

NT2 pamco process

NT2 pyrosol process

NT2 sasol-ii process

NT2 sasol process

NT2 src-ii process

NT2 synthoil process

NT2 synthol process

NT2 tsl process

NT1 in-situ liquefaction

RT melting

RT vapor condensation

**LIQUEFIED GASES**

INIS: 1992-03-10; ETDE: 1982-01-21

\*BT1 liquids

NT1 liquefied natural gas

NT1 liquefied petroleum gases

RT cryogenic fluids

**LIQUEFIED NATURAL GAS**

1992-03-10

UF lng

\*BT1 liquefied gases

\*BT1 natural gas

RT liquefied petroleum gases

RT liquid fuels

RT lng industry

RT lng plants

RT natural gas liquids

RT north star project

RT terminal facilities

**LIQUEFIED PETROLEUM GASES**

1992-03-10

UF lp-gas

\*BT1 liquefied gases

\*BT1 natural gas liquids

BT1 petroleum products

RT heating oils

RT lease condensates

RT liquefied natural gas

RT lpg industry

RT plant condensates

**liquefiers**

2000-04-12

USE vapor condensers

**liquefying**

ETDE: 2002-03-28

USE liquefaction

**liquid asphalt**

INIS: 1992-04-02; ETDE: 1976-01-23

USE petroleum residues

**LIQUID COLUMN****CHROMATOGRAPHY**

INIS: 1977-04-07; ETDE: 1977-06-03

\*BT1 chromatography

NT1 high-performance liquid chromatography

**LIQUID CONTAMINATION MONITORS**

\*BT1 radiation monitors

RT contamination

**LIQUID CRYSTALS**

BT1 crystals

\*BT1 liquids

RT pockels cell

**liquid-dominated hydrothermal convective systems**

INIS: 2000-04-12; ETDE: 1976-03-11

SEE geothermal hot-water systems

**LIQUID DROP MODEL**

- \*BT1 nuclear models
- RT neutron emission
- RT weizsaecker formula

**liquid effluents**

- USE liquid wastes

**LIQUID FLOW**

- BT1 fluid flow
- RT hydraulic conductivity
- RT hydrodynamics
- RT liquids
- RT multiphase flow
- RT thermal conductivity
- RT two-phase flow

**LIQUID FUELS**

- BT1 fuels
- NT1 alcohol fuels
  - NT2 ethanol fuels
  - NT2 methanol fuels
- NT1 biodiesel fuels
- NT1 diesel fuels
- NT1 fuel oils
  - NT2 heating oils
  - NT2 residual fuels
- NT1 fuel solutions
- NT1 gasohol
- NT1 gasoline
  - NT2 unleaded gasoline
- NT1 jet engine fuels
- NT1 kerosene
- NT1 liquid metal fuels
- NT1 molten salt fuels
- NT1 oxygenated fuels
- RT automotive fuels
- RT coal liquids
- RT liquefied natural gas

**LIQUID HOLDING RECOVERY**

- BT1 biological recovery

**LIQUID HOMOGENEOUS REACTORS**

- \*BT1 fluid fueled reactors
- \*BT1 homogeneous reactors
- NT1 aqueous homogeneous reactors
  - NT2 ai-1-77 reactor
  - NT2 argus reactor
  - NT2 ber-2 reactor
  - NT2 byu 1-77 reactor
  - NT2 cesnef reactor
  - NT2 dr-1 reactor
  - NT2 frf reactor
  - NT2 gidra reactor
  - NT2 hre-2 reactor
  - NT2 jtr-1 reactor
  - NT2 kewb reactor
  - NT2 kstr reactor
  - NT2 ncsr-1 reactor
  - NT2 nevada university reactor
  - NT2 prnc-1-77 reactor
  - NT2 supo reactor
  - NT2 wrrr reactor
- RT fuel solutions

**LIQUID ION EXCHANGERS**

- \*BT1 ion exchange materials

**LIQUID IONIZATION CHAMBERS**

- \*BT1 ionization chambers

**LIQUID LASERS**

INIS: 1999-08-16; ETDE: 1977-05-07

- BT1 lasers
- NT1 dye lasers

**liquid-liquid extraction**

INIS: 1975-10-23; ETDE: 2002-03-28

- USE solvent extraction

**liquid magnets**

INIS: 2000-04-12; ETDE: 1985-03-12  
(Prior to March 1997 MAGNETIC LIQUIDS was used for this concept in ETDE.)  
USE liquids  
USE magnetic materials

**liquid metal coolant**

- USE liquid metals

**LIQUID METAL COOLED REACTORS**

- BT1 reactors
- NT1 lead cooled reactors
  - NT2 brest-od-300 reactor
  - NT2 lead-bismuth cooled reactors
    - NT3 myrrha facility
- NT1 lithium cooled reactors
- NT1 lmfbr type reactors
  - NT2 beloyarsk-3 reactor
  - NT2 beloyarsk-4 reactor
  - NT2 bn-1200 reactor
  - NT2 bn-1600 reactor
  - NT2 bn-350 reactor
  - NT2 bor-60 reactor
  - NT2 cdfr reactor
  - NT2 clinch river breeder reactor
  - NT2 dfr reactor
  - NT2 ebr-1 reactor
  - NT2 ebr-2 reactor
  - NT2 enrico fermi-1 reactor
  - NT2 joyo reactor
  - NT2 kalpakkam lmfbr reactor
  - NT2 monju reactor
  - NT2 pfr reactor
  - NT2 phenix reactor
  - NT2 plbr reactor
  - NT2 rapsodie reactor
  - NT2 sbr-1 reactor
  - NT2 sbr-2 reactor
  - NT2 sbr-5 reactor
  - NT2 snr-2 reactor
  - NT2 snr reactor
  - NT2 superphenix reactor
  - NT2 venus reactor
- NT1 mercury cooled reactors
  - NT2 clementine reactor
  - NT2 sbr-2 reactor
- NT1 nak cooled reactors
  - NT2 ebr-1 reactor
  - NT2 s10fs-1 reactor
  - NT2 s10fs-3 reactor
  - NT2 s10fs-4 reactor
  - NT2 s2ds reactor
  - NT2 s8dr reactor
  - NT2 s8er reactor
  - NT2 ser reactor
  - NT2 snaptran reactors
- NT1 potassium cooled reactors
  - NT2 ebr-1 reactor
  - NT2 ser reactor
  - NT2 snap 10 reactor
    - NT3 s10fs-1 reactor
    - NT3 s10fs-3 reactor
    - NT3 s10fs-4 reactor
  - NT2 snap-tsf reactor
  - NT2 snaptran reactors
- NT1 sodium cooled reactors
  - NT2 beloyarsk-3 reactor
  - NT2 beloyarsk-4 reactor
  - NT2 bn-1200 reactor
  - NT2 bn-1600 reactor
  - NT2 bn-350 reactor
  - NT2 bor-60 reactor
  - NT2 cdfr reactor
  - NT2 clinch river breeder reactor
  - NT2 ebr-1 reactor
  - NT2 ebr-2 reactor
  - NT2 enrico fermi-1 reactor

- NT2 ftf reactor
- NT2 hnpf reactor
- NT2 knk-2 reactor
- NT2 knk reactor
- NT2 lampre-1 reactor
- NT2 monju reactor
- NT2 pfr reactor
- NT2 phenix reactor
- NT2 rapsodie reactor
- NT2 sbr-5 reactor
- NT2 sefor reactor
- NT2 ser reactor
- NT2 sgr type reactors
  - NT3 sre reactor
- NT2 snap 10 reactor
  - NT3 s10fs-1 reactor
  - NT3 s10fs-3 reactor
  - NT3 s10fs-4 reactor
- NT2 snap-tsf reactor
- NT2 snaptran reactors
- NT2 snr-2 reactor
- NT2 snr reactor
- NT2 superphenix reactor
- NT2 zrr reactor
- NT1 sgr type reactors
  - NT2 knk-2 reactor
  - NT2 knk reactor

**LIQUID METAL FUELS**

- \*BT1 liquid fuels
- \*BT1 nuclear fuels
- RT fluid fueled reactors

**LIQUID-METAL MHD GENERATORS**

1975-12-09

- \*BT1 closed-cycle mhd generators

**liquid metal test facilities**

2000-04-12

- USE test facilities

**liquid metal-water reactions**

INIS: 2000-04-12; ETDE: 1977-06-02

- USE molten metal-water reactions

**LIQUID METALS**

- UF liquid metal coolant
- \*BT1 liquids
- \*BT1 metals
- RT coolants

**LIQUID PENETRANT INSPECTION**

- UF fluorescent penetrant tests
- UF penetrant inspection (liquid)
- \*BT1 nondestructive testing

**LIQUID PHASE EPITAXY**

INIS: 1999-07-30; ETDE: 1982-10-20

Epitaxial growth resulting from precipitation from a supersaturated melt in contact with the substrate.

- \*BT1 epitaxy
- RT crystal growth

**liquid phase methanation process**

INIS: 2000-04-12; ETDE: 1976-05-17

Process being developed by Chem Systems, Inc., under auspices of ERDA and AGA. Overall objective is to develop practical and useful process for converting coal-derived synthesis gases to methane as major constituent of sng, using liquid fluidized beds. (Prior to March 1994, this was a valid ETDE descriptor.)

- USE coal gasification

**LIQUID PHASE METHANOL PROCESS**

*INIS: 1999-05-19; ETDE: 1983-05-21*

*Indirect coal liquefaction process developed by Chem Systems for DOE.*

\*BT1 coal liquefaction  
RT methanol

**liquid-phase sintering**

USE sintering

**LIQUID PROPORTIONAL COUNTERS**

\*BT1 proportional counters

**LIQUID SCINTILLATION DETECTORS**

\*BT1 scintillation counters  
RT liquid scintillators  
RT scintillation quenching

**LIQUID SCINTILLATORS**

BT1 phosphors  
RT liquid scintillation detectors  
RT scintillation counting  
RT terphenyls

**liquid sodium-water reactions**

*INIS: 1977-09-15; ETDE: 2002-03-28*

USE molten metal-water reactions

**LIQUID WASTES**

UF effluents (liquid)  
UF liquid effluents  
UF sewage disposal  
UF sewage treatment  
UF waste solutions  
SF emissions (industrial)  
BT1 wastes  
NT1 spent liquors  
NT1 waste water  
NT2 shale tar water  
RT acid mine drainage  
RT bioadsorbents  
RT biochemical oxygen demand  
RT biological wastes  
RT ceramic melters  
RT chemical effluents  
RT chemical oxygen demand  
RT emissions tax  
RT ground disposal  
RT ground water  
RT industrial wastes  
RT leachates  
RT organic wastes  
RT plumes  
RT radioactive effluents  
RT reinjection  
RT surface waters  
RT waste disposal  
RT waste disposal acts  
RT waste forms  
RT waste processing  
RT water  
RT water pollution monitors  
RT wet oxidation processes

**LIQUIDS**

UF ferrofluids  
UF liquid magnets  
UF magnetic liquids  
BT1 fluids  
NT1 black liquids  
NT1 coal liquids  
NT1 dnapl  
NT1 liquefied gases  
NT2 liquefied natural gas  
NT2 liquefied petroleum gases  
NT1 liquid crystals  
NT1 liquid metals

NT1 natural gas liquids  
NT2 gas condensates  
NT2 lease condensates  
NT2 liquefied petroleum gases  
NT2 plant condensates  
RT dispersions  
RT droplets  
RT hydrostatic bearings  
RT liquid flow  
RT phase diagrams  
RT pour point  
RT structure factors  
RT vapors  
RT void fraction

**LISP**

*INIS: 1994-09-13; ETDE: 1985-08-08*

BT1 programming languages  
RT artificial intelligence

**litek lamp**

*INIS: 2000-04-12; ETDE: 1977-07-23*

USE fluorescent lamps

**LITHIUM**

\*BT1 alkali metals

**LITHIUM 10**

\*BT1 light nuclei  
\*BT1 lithium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**LITHIUM 11**

\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 lithium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
RT lithium 11 beams

**LITHIUM 11 BEAMS**

*2014-04-25*

\*BT1 radioactive ion beams  
RT lithium 11

**LITHIUM 11 REACTIONS**

*INIS: 1990-01-30; ETDE: 1990-02-13*

\*BT1 heavy ion reactions

**LITHIUM 11 TARGET**

*INIS: 1998-01-27; ETDE: 1998-02-24*

BT1 targets

**LITHIUM 12**

*1992-09-22*

\*BT1 light nuclei  
\*BT1 lithium isotopes  
\*BT1 odd-odd nuclei

**LITHIUM 13**

\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 lithium isotopes  
\*BT1 odd-even nuclei

**LITHIUM 3**

\*BT1 light nuclei  
\*BT1 lithium isotopes  
\*BT1 odd-even nuclei

**LITHIUM 4**

\*BT1 light nuclei  
\*BT1 lithium isotopes  
\*BT1 odd-odd nuclei

**LITHIUM 5**

\*BT1 alpha decay radioisotopes  
\*BT1 light nuclei  
\*BT1 lithium isotopes  
\*BT1 odd-even nuclei

**LITHIUM 6**

\*BT1 light nuclei

\*BT1 lithium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 stable isotopes  
RT lithium 6 beams  
RT lithium 6 reactions

**LITHIUM 6 BEAMS**

\*BT1 ion beams  
RT lithium 6

**LITHIUM 6 REACTIONS**

\*BT1 heavy ion reactions  
RT lithium 6

**LITHIUM 6 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**LITHIUM 7**

\*BT1 light nuclei  
\*BT1 lithium isotopes  
\*BT1 odd-even nuclei  
\*BT1 stable isotopes  
RT lithium 7 beams  
RT lithium 7 reactions

**LITHIUM 7 BEAMS**

\*BT1 ion beams  
RT lithium 7

**LITHIUM 7 REACTIONS**

\*BT1 heavy ion reactions  
RT lithium 7

**LITHIUM 7 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**LITHIUM 8**

\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 lithium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
RT lithium 8 beams

**LITHIUM 8 BEAMS**

*2014-04-25*

\*BT1 radioactive ion beams  
RT lithium 8

**LITHIUM 8 REACTIONS**

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 heavy ion reactions

**LITHIUM 8 TARGET**

*INIS: 1991-10-22; ETDE: 1991-11-26*

BT1 targets

**LITHIUM 9**

\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 lithium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**LITHIUM 9 REACTIONS**

*INIS: 1991-03-22; ETDE: 1991-04-09*

\*BT1 heavy ion reactions

**LITHIUM 9 TARGET**

*INIS: 1976-03-17; ETDE: 1976-07-12*

BT1 targets

**LITHIUM ADDITIONS**

*Alloys containing not more than 1% Li are listed here.*

\*BT1 lithium alloys

**LITHIUM ALLOYS**

*Alloys containing more than 1% Li.*

BT1 alloys  
NT1 lithium additions  
NT1 lithium base alloys

**LITHIUM ARSENIDES***INIS: 2000-04-12; ETDE: 1984-09-05*

- \*BT1 arsenides
- \*BT1 lithium compounds

**LITHIUM BASE ALLOYS**

- \*BT1 lithium alloys

**LITHIUM BORIDES**

- \*BT1 borides
- \*BT1 lithium compounds

**LITHIUM BROMIDES**

- \*BT1 bromides
- \*BT1 lithium halides

**LITHIUM CARBIDES**

- \*BT1 carbides
- \*BT1 lithium compounds

**LITHIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 lithium compounds

**LITHIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 lithium halides

**LITHIUM-CHLORINE BATTERIES***2000-04-12*

- \*BT1 metal-gas batteries

**LITHIUM COMPLEXES**

- \*BT1 alkali metal complexes

**LITHIUM COMPOUNDS***1997-06-17*

- BT1 alkali metal compounds
- NT1 lithium arsenides
- NT1 lithium borides
- NT1 lithium carbides
- NT1 lithium carbonates
- NT1 lithium halides
- NT2 lithium bromides
- NT2 lithium chlorides
- NT2 lithium fluorides
- NT2 lithium iodides
- NT1 lithium hydrides
- NT2 lithium deuterides
- NT2 lithium tritides
- NT1 lithium hydroxides
- NT1 lithium nitrates
- NT1 lithium nitrides
- NT1 lithium oxides
- NT1 lithium perchlorates
- NT1 lithium phosphates
- NT1 lithium phosphides
- NT1 lithium selenides
- NT1 lithium silicates
- NT1 lithium silicides
- NT1 lithium sulfates
- NT1 lithium sulfides
- NT1 lithium tellurides
- NT1 lithium titanates
- NT1 lithium tungstates
- NT1 lithium uranates

***lithium cooled reactor experiment****2000-04-12*

- USE experimental reactors
- USE lithium cooled reactors

**LITHIUM COOLED REACTORS***1976-05-07*

- UF *lcrc reactor*
- UF *lithium cooled reactor experiment*
- \*BT1 liquid metal cooled reactors

**LITHIUM-COPPER CHLORIDE BATTERIES***INIS: 2000-04-12; ETDE: 1976-03-22*

- \*BT1 metal-nonmetal batteries

**LITHIUM DEUTERIDES**

- \*BT1 deuterides
- \*BT1 lithium hydrides

**LITHIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 lithium halides
- RT dielectric track detectors
- RT flibe
- RT thermoluminescent dosimeters

**LITHIUM HALIDES***1981-08-06*

- \*BT1 halides
- \*BT1 lithium compounds
- NT1 lithium bromides
- NT1 lithium chlorides
- NT1 lithium fluorides
- NT1 lithium iodides

**LITHIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 lithium compounds
- NT1 lithium deuterides
- NT1 lithium tritides

**LITHIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 lithium compounds

**LITHIUM IODIDES**

- \*BT1 inorganic phosphors
- \*BT1 iodides
- \*BT1 lithium halides

**LITHIUM ION BATTERIES***2015-03-13*

- \*BT1 electric batteries

**LITHIUM IONS**

- \*BT1 ions

**LITHIUM ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 lithium 10
- NT1 lithium 11
- NT1 lithium 12
- NT1 lithium 13
- NT1 lithium 3
- NT1 lithium 4
- NT1 lithium 5
- NT1 lithium 6
- NT1 lithium 7
- NT1 lithium 8
- NT1 lithium 9

**LITHIUM NITRATES**

- \*BT1 lithium compounds
- \*BT1 nitrates

**LITHIUM NITRIDES**

- \*BT1 lithium compounds
- \*BT1 nitrides

**LITHIUM OXIDES**

- \*BT1 lithium compounds
- \*BT1 oxides

**LITHIUM PERCHLORATES***INIS: 1977-10-17; ETDE: 1975-10-28*

- \*BT1 lithium compounds
- \*BT1 perchlorates

**LITHIUM PHOSPHATES**

- \*BT1 lithium compounds
- \*BT1 phosphates

**LITHIUM PHOSPHIDES***INIS: 2000-04-12; ETDE: 1984-12-26*

- \*BT1 lithium compounds
- \*BT1 phosphides

**LITHIUM-POLYMER BATTERIES***2008-07-04**Li batteries with polymeric, ion-conducting electrolyte/separators.*

- \*BT1 metal-nonmetal batteries

**LITHIUM SELENIDES**

- \*BT1 lithium compounds
- \*BT1 selenides

**LITHIUM SILICATES**

- \*BT1 lithium compounds
- \*BT1 silicates
- RT petalite

**LITHIUM SILICIDES***INIS: 2000-04-12; ETDE: 1979-02-23*

- \*BT1 lithium compounds
- \*BT1 silicides

**LITHIUM SULFATES**

- \*BT1 lithium compounds
- \*BT1 sulfates

**LITHIUM SULFIDES**

- \*BT1 lithium compounds
- \*BT1 sulfides

**LITHIUM-SULFUR BATTERIES***1993-01-28*

- \*BT1 metal-nonmetal batteries

**LITHIUM TELLURIDES***INIS: 1977-06-14; ETDE: 1976-11-29*

- \*BT1 lithium compounds
- \*BT1 tellurides

**LITHIUM TITANATES***2003-06-04*

- \*BT1 lithium compounds
- \*BT1 titanates

**LITHIUM TRITIDES***1976-02-05*

- \*BT1 lithium hydrides
- \*BT1 tritides

**LITHIUM TUNGSTATES***INIS: 1978-05-19; ETDE: 1977-06-02*

- \*BT1 lithium compounds
- \*BT1 tungstates

**LITHIUM URANATES***INIS: 1975-11-27; ETDE: 1975-08-19*

- \*BT1 lithium compounds
- \*BT1 uranates

**LITHIUM-WATER-AIR BATTERIES***INIS: 2000-04-12; ETDE: 1976-01-07*

- \*BT1 metal-gas batteries

**LITHOLOGY***1993-03-23**Description of the physical character of a rock as determined by eye or a low power magnifier and based on color, structure, mineralogic components and grain size.*

- \*BT1 petrology
- RT rocks

**LITHOTYPES***INIS: 2000-04-12; ETDE: 1978-05-03*

- RT coal
- RT macerals
- RT petrology

**LITHUANIA***INIS: 1997-08-20; ETDE: 1993-01-28**(Prior to January 1993, this was indexed by USSR.)*

- SF *soviet union*
- SF *union of soviet socialist republics*
- SF *ussr*
- \*BT1 eastern europe

**LITHUANIAN ORGANIZATIONS**

INIS: 1999-07-14; ETDE: 1999-08-30

BT1 national organizations

**litigation**

INIS: 2000-04-12; ETDE: 1978-09-13

USE lawsuits

**LITR REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1968.

UF low intensity test reactor

UF us aec low intensity test reactor

UF us aec low intensity training reactor

\*BT1 enriched uranium reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**LITTER SIZE**

RT progeny

**LITTLE BOY**

INIS: 2000-05-30; ETDE: 1984-11-29

The name of the nuclear weapon exploded over Hiroshima, Japan.

\*BT1 nuclear weapons

RT a-bomb survivors

RT atmospheric explosions

RT hiroshima

RT nuclear explosions

**LITTLE ICE AGE**

INIS: 1993-06-04; ETDE: 1987-02-13

Cold period lasting from the 15th to the 19th centuries in the northern hemisphere.

RT climates

RT paleoclimatology

**LITTLE TENNESSEE RIVER**

INIS: 2000-04-12; ETDE: 1981-05-18

\*BT1 rivers

RT hydroelectric power plants

RT tennessee

RT tennessee valley authority

RT tennessee valley region

**live time**

INIS: 1984-04-04; ETDE: 2002-03-28

Time during which equipment is actually sensitive to incoming signals.

USE dead time

**LIVER**

BT1 digestive system

\*BT1 glands

RT abdomen

RT biliary tract

RT glycogen

RT hepatectomy

RT hepatitis

RT hepatomas

RT jaundice

RT liver cells

RT liver cirrhosis

RT metabolic diseases

RT metabolism

RT peritoneum

RT portal system

RT radioembolization

RT reticuloendothelial system

**LIVER CELLS**

INIS: 1983-06-30; ETDE: 1982-06-07

UF hepatocytes

\*BT1 somatic cells

RT liver

**LIVER CIRRHOSIS**

\*BT1 digestive system diseases

RT liver

**livermore pool type reactor**

USE lptr reactor

**LIVERMORIUM**

2013-06-05

Prior to June 2013 ELEMENT 116 was used for this element.

UF eka-polonium

UF element 116

UF ununhexium

\*BT1 transactinide elements

**LIVERMORIUM 290**

2014-03-28

Prior to June 2013 ELEMENT 116 290 was used for this concept.

UF element 116 290

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 livermorium isotopes

\*BT1 milliseconds living radioisotopes

**LIVERMORIUM 291**

2014-03-28

Prior to June 2013 ELEMENT 116 291 was used for this concept.

UF element 116 291

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 livermorium isotopes

\*BT1 milliseconds living radioisotopes

**LIVERMORIUM 292**

2014-03-28

Prior to June 2013 ELEMENT 116 292 was used for this concept.

UF element 116 292

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 livermorium isotopes

**LIVERMORIUM 293**

2014-03-28

Prior to June 2013 ELEMENT 116 293 was used for this concept.

UF element 116 293

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 livermorium isotopes

**LIVERMORIUM IONS**

2018-01-24

\*BT1 ions

**LIVERMORIUM ISOTOPES**

2014-03-28

Prior to June 2013 ELEMENT 116

ISOTOPES was used for this concept.

UF element 116 isotopes

BT1 isotopes

NT1 livermorium 290

NT1 livermorium 291

NT1 livermorium 292

NT1 livermorium 293

**livestock**

USE domestic animals

**living standards**

INIS: 2000-04-12; ETDE: 1978-10-23

USE standard of living

**lixiviation**

USE leaching

**LIZARDS**

\*BT1 reptiles

**ljubljana triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-03-28

USE triga-2-ljubljana reactor

**ljungstrom process**

2000-04-12

Electrothermal production of shale oil in-situ. (Prior to January 1995, this was a valid ETDE descriptor.)

USE in-situ retorting

USE oil shales

**LLAMAS**

\*BT1 ruminants

**llnl**

INIS: 1984-04-04; ETDE: 2002-03-28

USE lawrence livermore national laboratory

**LLNL ADVANCED TEST ACCELERATOR**

INIS: 1988-05-13; ETDE: 1987-12-15

Linear induction accelerator at Lawrence Livermore Laboratory, Livermore, California, USA.

SF advanced test accelerator

\*BT1 linear accelerators

RT electron beams

RT induction

**LLOYDMINSTER DEPOSIT**

2000-04-12

\*BT1 oil sand deposits

**LM DEVICES**

Linear multipoles.

\*BT1 internal ring devices

RT multipolar configurations

**LMFBR TYPE REACTORS**

SF medec process

\*BT1 fbr type reactors

\*BT1 liquid metal cooled reactors

NT1 beloyarsk-3 reactor

NT1 beloyarsk-4 reactor

NT1 bn-1200 reactor

NT1 bn-1600 reactor

NT1 bn-350 reactor

NT1 bor-60 reactor

NT1 cdfr reactor

NT1 clinch river breeder reactor

NT1 dfr reactor

NT1 ebr-1 reactor

NT1 ebr-2 reactor

NT1 enrico fermi-1 reactor

NT1 joyo reactor

NT1 kalpakkam lmfbr reactor

NT1 monju reactor

NT1 pfr reactor

NT1 phenix reactor

NT1 plbr reactor

NT1 rapsodie reactor

NT1 sbr-1 reactor

NT1 sbr-2 reactor

NT1 sbr-5 reactor

NT1 snr-2 reactor

NT1 snr reactor

NT1 superphenix reactor

NT1 venus reactor

**lng**

2000-04-12

USE liquefied natural gas

**LNG INDUSTRY**

INIS: 1993-04-27; ETDE: 1978-06-14

\*BT1 natural gas industry

RT liquefied natural gas

RT lng plants

**LNG PLANTS**

INIS: 1993-04-27; ETDE: 1976-01-23

- BT1 industrial plants
- RT liquefied natural gas
- RT lng industry
- RT natural gas

**lng spills**

INIS: 1992-04-09; ETDE: 1980-06-06

- USE gas spills

**LNLS STORAGE RING**

1991-02-11

Brazilian Synchrotron Radiation Source.

- UF brazilian lnls synchrotron
- BT1 storage rings
- \*BT1 synchrotron radiation sources

**LO AGUIRRE RECH-2 REACTOR**

INIS: 1989-02-24; ETDE: 1989-03-20

Lo Aguirre, Santiago, Chile. permanent shutdown since 2002

- UF rech-2 reactor
- \*BT1 pool type reactors
- \*BT1 research reactors

**load (dynamic)**

INIS: 2000-04-12; ETDE: 1976-08-05

- USE dynamic loads

**LOAD ANALYSIS**

INIS: 1999-04-22; ETDE: 1981-04-17

Measurement and study of the load characteristics of the more important services rendered by the utility.

- UF analysis (load)
- UF load characteristics
- RT electric utilities
- RT gas utilities
- RT load management
- RT peak load

**load characteristics**

INIS: 1999-04-22; ETDE: 1981-04-17

- USE load analysis

**LOAD COLLECTOR RATIO**

INIS: 2000-04-12; ETDE: 1981-05-18

Ratio of building load coefficient (btu/dd) to the solar collector area (sq. Ft.).

- UF lcr
- RT buildings
- RT heating load
- RT passive solar heating systems

**LOAD MANAGEMENT**

INIS: 1977-11-21; ETDE: 1976-03-22

Management of electric power demands on a distribution grid to achieve maximum power-production efficiency.

- BT1 management
- RT capacity
- RT dispersed storage and generation
- RT electric power
- RT load analysis
- RT marginal-cost pricing
- RT off-peak energy storage
- RT peak load
- RT peak-load pricing
- RT peaking power plants
- RT time-of-use pricing

**LOADERS**

INIS: 2000-04-12; ETDE: 1985-04-09

- \*BT1 haulage equipment
- NT1 cutter loaders
- NT2 coal plows
- NT2 continuous miners
- NT2 heading machines
- NT2 shearer loaders
- RT materials handling

RT mine haulage

**LOADING**

INIS: 1997-06-05; ETDE: 1978-08-08  
(Until June 1997 this concept was indexed to MATERIALS HANDLING.)

- BT1 materials handling
- RT unloading

**loading (fission reactor)**

1982-11-29

- USE reactor fueling

**loading machines (fission reactor)**

1993-11-09

- USE reactor charging machines

**LOADING RATE**

INIS: 2000-05-02; ETDE: 1978-07-05

- RT chemical reactors

**loads (dynamic)**

INIS: 1981-02-27; ETDE: 2002-03-28

- USE dynamic loads

**loads (power demand)**

INIS: 1984-04-04; ETDE: 2002-03-28

- USE power demand

**loads (static)**

INIS: 1981-02-27; ETDE: 1976-08-05

- USE static loads

**loads (stresses)**

INIS: 1984-04-04; ETDE: 2002-03-28

- USE stresses

**LOAM**

- BT1 soils
- RT clays

**loan guarantees**

INIS: 1982-12-03; ETDE: 1981-01-27

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE financial incentives

**loans**

INIS: 2000-04-12; ETDE: 1980-04-14

(Prior to March 1996 FINANCIAL ASSISTANCE was used for this concept in ETDE.)

- USE financing

**lobachevsky-bolyai geometry**

- USE lobachevsky geometry

**LOBACHEVSKY GEOMETRY**

1999-08-24

- UF lobachevsky-bolyai geometry
- UF lobachevsky space
- \*BT1 geometry
- RT mathematical space

**lobachevsky space**

- USE lobachevsky geometry

**lobbies**

INIS: 1982-12-03; ETDE: 1980-12-08

- USE interest groups

**LOBSTERS**

INIS: 1977-04-07; ETDE: 1976-01-07

- \*BT1 decapods
- RT prawns
- RT seafood

**loca**

INIS: 2000-04-12; ETDE: 1983-03-07

- USE loss of coolant

**LOCAL AREA NETWORKS**

1994-04-12

- UF lans
- BT1 computer networks

**local boiling**

- USE subcooled boiling

**LOCAL FALLOUT**

- UF close-in fallout
- BT1 fallout
- RT civil defense
- RT external irradiation
- RT fallout shelters
- RT nuclear weapons shelters

**local galaxy**

- USE milky way

**LOCAL GOVERNMENT**

INIS: 1981-02-27; ETDE: 1977-08-09

- RT government policies
- RT legislation
- RT national government
- RT public officials
- RT regional cooperation
- RT regulations
- RT social services
- RT state government
- RT us federal assistance programs

**local group**

- USE galaxies

**LOCAL IRRADIATION**

- BT1 irradiation
- RT abscopal radiation effects
- RT external irradiation
- RT local radiation effects
- RT partial body irradiation
- RT spatial dose distributions

**LOCAL RADIATION EFFECTS**

- \*BT1 biological radiation effects
- NT1 osteoradionecrosis
- NT1 radiation burns
- NT1 radiodermatitis
- RT local irradiation

**local thermodynamic equilibrium**

- USE lte

**LOCALITY**

- RT nonlocal potential
- RT phi4-field theory
- RT quantum field theory

**localization (biological)**

- USE biological localization

**LOCK-IN AMPLIFIERS**

INIS: 2000-04-12; ETDE: 1984-03-06

Amplifiers that use some automatic synchronization with an external reference signal to measure very weak signals in the presence of very strong noise.

- \*BT1 amplifiers
- RT electronic circuits
- RT gain

**locks (security)**

- USE physical protection devices

**LOCOMOTIVES**

INIS: 1993-03-25; ETDE: 1986-01-15

- \*BT1 trains
- RT railroad cars
- RT railways

**LOCUST TREES**

INIS: 1999-07-20; ETDE: 1986-04-29

- UF robinia pseudoacacia



\*BT1 leguminosae  
 \*BT1 trees  
 RT mycorrhizas

**LOCUSTS**

\*BT1 grasshoppers

**LODOCHNIKITE**

2000-04-12

\*BT1 oxide minerals  
 \*BT1 thorium minerals  
 \*BT1 uranium minerals  
 RT thorium oxides  
 RT titanium oxides  
 RT uranium oxides

**lofa**

2017-07-18

USE loss of flow

**LOFRECO PROCESS**

INIS: 2000-04-12; ETDE: 1980-06-06

*Horizontal in-situ retorting process with low front end cost developed by Geokinetics Inc. For areas where shale bed is relatively thin and close to the surface.*

RT oil shales

**LOFT REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1985.

UF loss of fluid test reactor

\*BT1 pwr type reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors

**LOGARITHMIC RATEMETERS**

\*BT1 counting ratemeters

**logging while drilling**

INIS: 2000-04-12; ETDE: 1978-12-11

USE mwd systems

**logic (mathematics)**

INIS: 2000-04-12; ETDE: 1975-11-11

USE mathematical logic

**LOGIC CIRCUITS**

BT1 electronic circuits  
 RT gating circuits

**LOHRS**

2018-08-30

\*BT1 beyond-design-basis accidents  
 RT after-heat removal

**lollipop event**

1997-01-28

(Prior to February 1996 this was a valid ETDE descriptor.)

USE vela project

**london convention for prevention of marine pollution**

INIS: 1993-11-09; ETDE: 2002-03-28

1972 London Convention on Prevention of Marine Pollution by Dumping of Waste and other Matter.

USE lcpmpdpw

**LONDON EQUATION**

BT1 equations  
 RT superconductivity

**london safety of life at sea convention**

USE solas convention

**LONG COUNTERS**

\*BT1 moderating detectors

**LONG ISLAND SOUND**

INIS: 1992-04-08; ETDE: 1981-03-17

\*BT1 atlantic ocean

\*BT1 estuaries

RT connecticut

RT mid-atlantic bight

RT new york

**long-lens spectrometers**

USE magnetic lens spectrometers

**long-range interactions**

USE interaction range

**LONG-RANGE TRANSPORT**

INIS: 1992-09-16; ETDE: 1983-08-25

\*BT1 environmental transport

RT air pollution

RT pollutants

RT pollution

RT transfrontier pollution

RT water pollution

**LONG SHOT EVENT**

BT1 vela project

**long term intake**

USE chronic intake

**long term irradiation**

USE chronic irradiation

**LONG VALLEY**

INIS: 1992-06-04; ETDE: 1976-04-19

BT1 valleys

RT california

**LONG WAVE RADIATION**

UF low frequency radiation

\*BT1 radiowave radiation

**LONGITUDINAL MOMENTUM**

UF momentum (longitudinal)

BT1 linear momentum

RT center-of-mass system

RT nuclear reactions

RT particle interactions

RT particle rapidity

RT transverse momentum

**LONGITUDINAL PINCH**

UF zet pinch

BT1 pinch effect

NT1 belt pinch

RT linear z pinch devices

RT tlp devices

**longitudinal pinch devices (linear)**

1993-11-09

USE linear z pinch devices

**longitudinal pinch devices (toroidal)**

1993-11-09

USE tlp devices

**LONGWALL MINING**

INIS: 1992-07-21; ETDE: 1977-03-08

\*BT1 underground mining

RT coal mining

RT hydraulic mining

**LOOP QUANTUM GRAVITY**

2014-02-26

\*BT1 quantum gravity

RT general relativity theory

RT spin networks

**loops (coolant)**

USE coolant loops

**loops (in pile)**

USE in pile loops

**LOOSE PARTS MONITORING**

INIS: 1981-08-18; ETDE: 1976-12-16

*Monitoring foreign, misplaced, or loose objects in reactor cores and cooling systems.*

BT1 monitoring

RT reactor instrumentation

RT reactor monitoring systems

**LOPRA REACTOR**

Univ. of Illinois at Urbana-Champaign, Urbana, Illinois, USA. Decommissioned.

UF low power reactor assembly

UF university of illinois lopra reactor

\*BT1 triga type reactors

**LORENTZ FORCE**

RT charged particles

RT interactions

RT magnetic fields

RT ponderomotive force

**LORENTZ GAS**

UF lorentz plasma

\*BT1 fully ionized gases

**LORENTZ GROUPS**

\*BT1 poincare groups

RT anti de sitter space

RT de sitter space

**LORENTZ INVARIANCE**

BT1 invariance principles

RT lorentz transformations

RT special relativity theory

**lorentz plasma**

USE lorentz gas

**LORENTZ POLES**

UF toller poles

RT regge poles

**LORENTZ TRANSFORMATIONS**

1999-08-25

BT1 transformations

RT center-of-mass system

RT laboratory system

RT limiting fragmentation

RT lorentz invariance

RT minkowski space

RT poincare groups

RT space-time

RT special relativity theory

**LOS ALAMOS**

INIS: 1992-06-04; ETDE: 1979-03-05

\*BT1 new mexico

BT1 urban areas

**los alamos meson physics facility**

USE lampf linac

**los alamos molten plutonium reactor experiment**

1993-11-09

USE lampre-1 reactor

**los alamos national laboratory**

INIS: 1984-04-04; ETDE: 1989-06-30

USE lanl

**los alamos omega west reactor**

1993-11-09

USE owr reactor

**los alamos scientific laboratory**

1995-04-03

Name changed in 1980 to Los Alamos National Laboratory.

(Older material should have been indexed to LASL, which was a valid descriptor until March 1995.)

USE lanl

**los alamos water boiler reactor**

2000-04-12

USE supo reactor

**LOS ANGELES**

1992-07-21

\*BT1 california

BT1 urban areas

**LOSS CONE**

RT earth magnetosphere

RT loss cone instability

RT plasma

RT plasmopause

RT solar wind

**LOSS CONE INSTABILITY**

\*BT1 plasma microinstabilities

RT loss cone

**LOSS OF COOLANT**

UF loca

\*BT1 reactor accidents

NT1 lbloca

NT1 sbloca

RT blowdown

RT coolants

RT core flooding systems

RT core spray systems

RT loss of flow

RT reactor cooling systems

**LOSS OF CORE COOLING**

2017-08-25

\*BT1 reactor accidents

**loss of feedwater**

2017-07-18

SEE atws

**LOSS OF FLOW**

UF lofa

\*BT1 reactor accidents

RT flow blockage

RT loss of coolant

**loss of fluid test reactor**

USE loft reactor

**loss of heat sink**

2017-07-18

SEE atws

**loss of off-site power**

2017-07-18

SEE atws

**LOSSES**

UF lost circulation

NT1 chromosome losses

NT1 energy losses

NT2 ac losses

NT2 heat losses

NT2 power losses

NT2 relaxation losses

NT1 particle losses

RT accounting

RT inventories

RT material balance

RT material unaccounted for

RT nuclear materials management

RT safeguards

**lost circulation**

INIS: 2000-04-12; ETDE: 1981-10-24

Excessive loss of drilling fluids to exposed formations.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE drilling fluids

USE losses

**LOTUS FACILITY**

INIS: 1985-12-10; ETDE: 1986-01-16

RT breeding blankets

RT hybrid reactors

**LOUISIANA**

\*BT1 usa

RT mississippi river

RT us gulf coast

**louvain isochronous cyclotron**

INIS: 1984-01-18; ETDE: 2002-03-28

USE cyclone cyclotron

**love waves**

INIS: 2000-04-12; ETDE: 1978-07-05

(Prior to March 1997 this was a valid ETDE descriptor.)

USE seismic surface waves

**lovelace biomedical and environmental research institute**

INIS: 2000-04-12; ETDE: 1982-07-27

USE inhalation toxicology research institute

**LOVIISA-1 REACTOR**

1976-08-13

Loviisa, Finland.

UF imatran voima-1 reactor

UF imatran voima power reactor

UF loviisa reactor

\*BT1 wwer type reactors

**LOVIISA-2 REACTOR**

1976-08-13

Loviisa, Finland.

UF imatran voima-2 reactor

\*BT1 wwer type reactors

**loviisa reactor**

2000-04-12

USE loviisa-1 reactor

**LOVOZERITE**

2000-04-12

\*BT1 silicate minerals

RT sodium silicates

RT zirconium silicates

**LOVOZERO**

2000-04-12

\*BT1 russian federation

**LOW ALLOY STEELS**

INIS: 1996-11-13; ETDE: 1988-11-09

UF steel-20n14

UF steel-astm-a350 (gr 3)

UF steel-din-1-6348

UF steel-ni3mov

UF steel-ni4

\*BT1 steels

NT1 steel-astm-a350

NT1 steel-astm-a387

NT1 steel-astm-a508

NT1 steel-astm-a533

NT1 steel-cr2mo

NT2 steel-astm-a542

NT1 steel-cr2moninb

NT1 steel-cr2mov

NT1 steel-cr2nimov

NT1 steel-cr5mo

NT1 steel-cralnimo

NT1 steel-crmo

NT1 steel-crmov

NT1 steel-crni

NT1 steel-mncumo

NT2 steel-astm-a537

NT1 steel-mnmo

NT2 steel-astm-a302

NT1 steel-mnnimo

NT2 steel-astm-a533-b

NT1 steel-mnnimov

NT1 steel-ni3cr

NT1 steel-ni3crm

NT2 steel-astm-a543

NT1 steel-ni3crm

NT1 steel-ni4crw

NT1 steel-nicr

NT1 steel-nicrmo

NT1 steel-nimocr

**low-angle silicon-sheet growth method**

INIS: 2000-04-12; ETDE: 1982-07-27

USE crystal growth methods

**LOW-BETA PLASMA**

Beta from 0 to 0.01.

BT1 plasma

RT beta ratio

**LOW BTU GAS**

2000-04-12

150 to 250 btu per cubic foot.

UF pyrotek process

\*BT1 fuel gas

NT1 producer gas

RT gegas process

RT woodall-duckham process

**LOW CARBON-HIGH ALLOY STEELS**

INIS: 1996-11-13; ETDE: 1988-12-16

High alloy steels with not more than 0.05% C.

UF stainless steel-44ln

UF steel-cr13ni6mo-l

UF steel-cr26ni5mo-l

UF steel-ni17cr14moti-l

\*BT1 stainless steels

NT1 steel-cr11ni10mo2ti-l

NT1 steel-cr17cu4ni4nb-l

NT2 stainless steel-17-4ph

NT1 steel-cr17ni12mo3-l

NT2 stainless steel-316l

NT2 stainless steel-zend17-13

NT1 steel-cr18ni10-l

NT1 steel-cr19ni10-l

NT2 stainless steel-304l

NT1 steel-cr20ni11-l

NT2 stainless steel-308l

NT1 steel-ni36cr12ti3al-l

**LOW DOSE IRRADIATION**

BT1 irradiation

RT chronic irradiation

RT dose rates

RT dose-response relationships

RT radiation dose rate ranges

**LOW-EMISSION VEHICLES**

2004-11-02

Vehicles with much lower amounts of polluting emissions than usual, e.g.

ELECTRIC VEHICLES.

UF zero-emission vehicles

BT1 vehicles

RT air pollution abatement

**LOW-ENERGY BUILDINGS**

2004-02-11

Buildings using significantly less energy (e.g., for domestic water and space heating) than

*similar buildings in the same location which lack advanced energy conservation measures.*

- BT1 buildings
- RT energy audits
- RT energy conservation
- RT energy management systems

### low energy electron diffraction

- USE electron diffraction

### LOW-ENERGY LIMIT

2017-05-11

- RT asymptotic solutions
- RT cosmology
- RT energy
- RT fundamental interactions
- RT high-energy limit
- RT scattering
- RT unified field theories

### LOW-ENERGY THEOREM

- UF *soft pion theorem*
- RT current algebra

### LOW EQUATION

- BT1 equations

### low flux reactor petten

- USE lfr reactor

### low frequency radiation

- USE long wave radiation

### LOW-HEAD HYDROELECTRIC POWER PLANTS

INIS: 1992-04-06; ETDE: 1978-08-08

*Heads less than 15 meters.*

- \*BT1 hydroelectric power plants
- RT microgeneration
- RT small-scale hydroelectric power plants

### LOW INCOME GROUPS

INIS: 2000-07-24; ETDE: 1978-04-05

- UF *poor people*
- \*BT1 minority groups
- RT economics
- RT handicapped people
- RT high income groups
- RT income
- RT socio-economic factors

### low intensity test reactor

- USE litr reactor

### LOW LEVEL COUNTERS

- \*BT1 radiation detectors
- RT low level counting

### LOW LEVEL COUNTING

INIS: 1976-08-17; ETDE: 1976-11-01

- BT1 counting techniques
- RT low level counters

### LOW-LEVEL RADIOACTIVE WASTES

INIS: 1978-05-19; ETDE: 1978-01-23

*Wastes containing less than 5 x 10 exp(-5) microcuries/milliliter of radioactivity.*

- \*BT1 radioactive wastes
- RT alpha-bearing wastes
- RT bohunice radioactive waste processing center
- RT compact commissions
- RT high-level radioactive wastes
- RT intermediate-level radioactive wastes
- RT konrad ore mine
- RT mochovce liquid raw final treatment facility
- RT morsleben salt mine
- RT nuclear waste policy acts

### low power reactor assembly

2000-04-12

- USE lopra reactor

### low power test facility-nrts

- USE lptf reactor

### low pressure

(Prior to November 2003 this was a valid descriptor.)

- SEE pressure range kilo pa
- SEE pressure range pa

### low-pressure areas

2013-12-13

- USE cyclones

### LOW PRESSURE COOLANT INJECTION

1977-09-06

- UF *lpci*
- \*BT1 eccs
- RT reactor safety

### LOW-SULFUR COAL

2014-03-28

*Coal generally containing 1% or less S by weight.*

- \*BT1 coal
- RT sulfur content

### low temperature

1992-01-23

(Prior to February 1992, this was a valid ETDE descriptor.)

- USE temperature range 0065-0273 k

### lowell technical institute reactor

1993-11-09

- USE ltir reactor

### LOWER HYBRID CURRENT DRIVE

INIS: 1989-07-19; ETDE: 1989-08-01

- BT1 non-inductive current drive
- RT lower hybrid heating

### LOWER HYBRID HEATING

1983-03-15

- UF *lhr heating*
- UF *lower hybrid resonance heating*
- \*BT1 high-frequency heating
- RT lower hybrid current drive

### lower hybrid resonance heating

1983-03-15

- USE lower hybrid heating

### lp-gas

INIS: 2000-04-12; ETDE: 1977-08-24

- USE liquefied petroleum gases

### lpci

1977-09-06

(Prior to July 1985, this was a valid ETDE descriptor.)

- USE low pressure coolant injection

### LPG INDUSTRY

INIS: 1993-03-10; ETDE: 1982-12-01

- \*BT1 petroleum industry
- RT liquefied petroleum gases

### LPR REACTOR

2000-04-12

*Babcock and Wilcox, Lynchburg, Virginia, USA. Shut down in 1981.*

- UF *babcock and wilcox lpr reactor*
- UF *lynchburg pool reactor*
- \*BT1 enriched uranium reactors
- \*BT1 materials testing reactors
- \*BT1 pool type reactors
- \*BT1 research reactors

- \*BT1 thermal reactors

### LPTF REACTOR

*INEEL, Idaho Falls, Idaho, USA.*

- UF *low power test facility-nrts*
- UF *nrts-lptf reactor*
- \*BT1 zero power reactors

### LPTR REACTOR

*Univ. of California, Lawrence Livermore Laboratory, Livermore, California, USA. Shut down in 1980.*

- UF *livermore pool type reactor*
- UF *us aec lptr reactor*
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

### LR-0 REACTOR

INIS: 1998-07-07; ETDE: 1982-01-07

(Until July 1998, this was a forbidden term and this concept was indexed by LVR-15 REACTOR.)

- UF *czechoslovak lr-0 reactor*
- UF *rez lr-0 reactor*
- \*BT1 pool type reactors
- \*BT1 zero power reactors

### LSZ THEORY

UF *lehmann-symanzik-zimmermann method*

- \*BT1 axiomatic field theory

### LT-3 TOKAMAK

UF *canberra tokamak*

- \*BT1 tokamak devices

### LT-4 TOKAMAK

INIS: 1984-06-21; ETDE: 1984-07-10

- \*BT1 tokamak devices

### LTE

UF *local thermodynamic equilibrium*

- BT1 equilibrium
- RT thermodynamics

### LTH

UF *luteotropic hormone*

- UF *prolactin*
- \*BT1 gonadotropins
- RT mammary glands
- RT progesterone

### LTIR REACTOR

*Univ. of Lowell, Lowell, Massachusetts, USA.*

UF *lowell technical institute reactor*

- \*BT1 pool type reactors
- \*BT1 research reactors

### LUBRICANTS

UF *synthetic lubricants*

- SF *mineral oil*
- NT1 gas lubricants
- NT1 greases
- NT1 lubricating oils
- NT1 solid lubricants
- RT cutting fluids
- RT gears
- RT lubrication
- RT tribology

### LUBRICATING OILS

- BT1 lubricants
- \*BT1 oils
- BT1 petroleum products
- RT meadow foam
- RT tribology
- RT waste oil refineries
- RT waste oils

**lubricating properties**

INIS: 2000-04-12; ETDE: 1985-04-24  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE lubrication

**LUBRICATION**

(From April 1985 till March 1997 LUBRICATING PROPERTIES was a valid ETDE descriptor.)  
UF lubricating properties  
RT bearings  
RT gears  
RT greases  
RT hydrostatic bearings  
RT lubricants  
RT tribology

**lucas process**

INIS: 2000-04-12; ETDE: 1977-04-12  
*Low-sulfur flue gas from Claus plants is incinerated with low surplus of air, passed through a coke filter to remove sulfur trioxide, and oxygen, and hydrogen sulfide, and stripped of sulfur dioxide by absorption in aqueous alkali phosphate solution. The sulfur is recovered.*  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE desulfurization

**luccu oil**

USE olive oil

**LUCENS REACTOR**

\*BT1 carbon dioxide cooled reactors  
\*BT1 enriched uranium reactors  
\*BT1 hwcr type reactors  
\*BT1 pressure tube reactors  
\*BT1 thermal reactors

**LUCIE-1 REACTOR**

Florida Power and Light Co., Fort Pierce, Florida, USA.  
UF hutchinson island-1 reactor  
UF st lucie-1 reactor  
\*BT1 pwr type reactors

**LUCIE-2 REACTOR**

Florida Power and Light Co., Fort Pierce, Florida, USA.  
UF hutchinson island-2 reactor  
UF st lucie-2 reactor  
\*BT1 pwr type reactors

**LUCIFERASE**

\*BT1 oxidases

**LUCIFERIN**

\*BT1 albumins

**LUCITE**

\*BT1 plastics  
\*BT1 polyacrylates  
RT pmma

**LUE-200 ACCELERATOR**

2018-04-18  
*Linear electron accelerator used as a driver for the Intense Resonance Neutron Source (IREN)*  
\*BT1 linear accelerators  
RT iren facility

**LUGOL**

UF lugol solution  
RT glycerol  
RT iodine  
RT potassium iodides

**lugol solution**

USE lugol

**lumber industry**

INIS: 1992-03-10; ETDE: 1979-01-30  
USE wood products industry

**luminal**

USE phenobarbital

**LUMINESCENCE**

\*BT1 photon emission  
NT1 bioluminescence  
NT1 cathodoluminescence  
NT1 chemiluminescence  
NT1 electroluminescence  
NT1 fluorescence  
NT2 resonance fluorescence  
NT1 lyoluminescence  
NT1 phosphorescence  
NT1 photoluminescence  
NT1 radioluminescence  
NT2 radiothermoluminescence  
NT1 thermoluminescence  
NT2 radiothermoluminescence  
RT glow curve  
RT noctilucous clouds  
RT traps

**LUMINESCENT CHAMBERS**

RT phosphors  
RT scintillation counters

**LUMINESCENT CONCENTRATORS**

INIS: 2000-04-12; ETDE: 1980-02-11  
*Solar concentrators based on light absorption and reemission by luminescent molecules dispersed in a transparent medium and on light guiding by total internal reflections.*  
UF fluorescent concentrators  
\*BT1 solar concentrators  
RT phosphors

**LUMINESCENT DOSEMETERS**

\*BT1 dosimeters  
NT1 rpl dosimeters  
NT1 thermoluminescent dosimeters  
RT dielectric track detectors  
RT glass scintillators  
RT phosphors

**LUMINOL**

INIS: 2000-04-12; ETDE: 1982-01-21  
*A crystalline compound giving a bluish luminescence when oxidized.*  
UF 5-amino-2,3-dihydro-1,4-phthalazine-dione  
\*BT1 amines  
\*BT1 phthalazines  
RT chemiluminescence  
RT ketones

**LUMINOSITY**

\*BT1 optical properties  
RT brightness  
RT visibility

**luminous flux density**

INIS: 1986-07-09; ETDE: 1981-10-24  
USE illuminance

**LUMINOUS PAINTS**

\*BT1 paints  
RT dial painters

**lummus clean fuel firm coal process**

INIS: 2000-04-12; ETDE: 1981-10-24  
USE coal liquefaction

**LUNA SPACE PROBES**

INIS: 1979-02-21; ETDE: 1979-03-28  
\*BT1 space vehicles

**LUNAR ATMOSPHERE**

\*BT1 satellite atmospheres

RT lunar materials  
RT moon

**LUNAR MATERIALS**

UF materials (lunar)  
BT1 materials  
RT anorthosites  
RT apollo project  
RT dusts  
RT lunar atmosphere  
RT moon  
RT rocks

**lunar occultation**

USE eclipse

**lund synchrotron**

USE lusy

**lung cells**

INIS: 1978-11-24; ETDE: 1978-04-06  
USE respiratory tract cells

**LUNG CLEARANCE**

\*BT1 excretion  
RT exhalation  
RT lungs  
RT respiratory system

**LUNGMEN-1 REACTOR**

2017-11-09  
*New Taipei City, Taiwan, China. Under construction.*  
UF lungmen abwr  
UF lungmen advanced boiling water reactor  
UF lungmen nps  
\*BT1 bwr type reactors

**LUNGMEN-2 REACTOR**

2017-11-09  
*New Taipei City, Taiwan, China. Under construction.*  
UF lungmen abwr  
UF lungmen advanced boiling water reactor  
UF lungmen nps  
\*BT1 bwr type reactors

**lungmen abwr**

2017-11-09  
USE lungmen-1 reactor  
USE lungmen-2 reactor

**lungmen advanced boiling water reactor**

2017-11-09  
USE lungmen-1 reactor  
USE lungmen-2 reactor

**lungmen nps**

2017-11-09  
USE lungmen-1 reactor  
USE lungmen-2 reactor

**LUNGS**

UF alveoli (pulmonary)  
UF pulmonary lavage  
\*BT1 organs  
BT1 respiratory system  
RT blood circulation  
RT bronchi  
RT chest  
RT diaphragm  
RT emphysema  
RT lavage  
RT lung clearance  
RT lymphatic system  
RT pleura  
RT pneumoconioses  
RT pneumonia  
RT pneumonitis

RT respiration  
RT respiratory tract cells

**LUPUS**

\*BT1 immune system diseases  
RT skin  
RT skin diseases

**LURGI CFB GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1986-10-07

*Circulating fluidized bed gasification process.*

\*BT1 coal gasification  
RT lurgi process

**LURGI PROCESS**

2000-04-12

*A process in which noncaking coal is converted into intermediate- or high-btu gas at 1150 to 1400 degrees F and 350 to 450 psi in a moving bed gasifier. Substitution of air for oxygen will produce low-btu gas.*

\*BT1 coal gasification  
RT lurgi cfb gasification process  
RT lurgi slagging process  
RT sasol-ii process  
RT sng processes

**LURGI-RUHRGAS PROCESS**

2000-04-12

*An indirect-heat process for retorting finely crushed shale. Heat-carrier solids (sand grains, coke particles, or spent shale solids) are mixed with shale in a screw-type conveyor where retorting takes place.*

RT oil shales  
RT retorting

**LURGI SLAGGING PROCESS**

INIS: 2000-04-12; ETDE: 1979-03-29

\*BT1 coal gasification  
RT lurgi process

**LUSY**

UF lund synchrotron  
\*BT1 synchrotrons

**LUTEINIZING HORMONE**

ETDE: 2005-01-28

(Prior to January 2005 LH was used for this concept.)

UF interstitial cell stim hormone  
UF lh (luteinizing hormone)  
\*BT1 glycoproteins  
\*BT1 gonadotropins  
RT androgens  
RT estrous cycle  
RT lh-rh

**luteotropic hormone**

USE lth

**LUTETIUM**

\*BT1 rare earths

**LUTETIUM 150**

2007-02-15

\*BT1 electron capture radioisotopes  
\*BT1 lutetium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 rare earth nuclei

**LUTETIUM 151**

INIS: 1983-09-05; ETDE: 1982-07-27

\*BT1 lutetium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 rare earth nuclei

**LUTETIUM 152**

INIS: 1988-10-10; ETDE: 1987-11-24

\*BT1 lutetium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 153**

INIS: 1986-05-05; ETDE: 1986-07-03

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 lutetium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 154**

1984-11-30

\*BT1 electron capture radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 lutetium isotopes  
\*BT1 microseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**LUTETIUM 155**

INIS: 1976-01-27; ETDE: 1975-09-12

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 lutetium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 156**

INIS: 1976-11-08; ETDE: 1976-09-14

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 lutetium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 157**

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 lutetium isotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**LUTETIUM 158**

INIS: 1979-12-20; ETDE: 1980-01-24

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 lutetium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**LUTETIUM 159**

INIS: 1980-12-01; ETDE: 1981-01-09

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 lutetium isotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**LUTETIUM 160**

INIS: 1979-12-20; ETDE: 1980-01-24

\*BT1 electron capture radioisotopes  
\*BT1 lutetium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**LUTETIUM 161**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 lutetium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 162**

INIS: 1976-07-06; ETDE: 1976-04-19

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 lutetium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 163**

INIS: 1979-12-20; ETDE: 1980-01-24

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 lutetium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 164**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 lutetium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 165**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 lutetium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 166**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 lutetium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 167**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 lutetium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 168**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 lutetium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 169**

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 lutetium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 170**

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 internal conversion radioisotopes

- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 171**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 172**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 173**

- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LUTETIUM 174**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LUTETIUM 174 TARGET**

*INIS: 1975-12-19; ETDE: 1976-07-12*  
BT1 targets

**LUTETIUM 175**

- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**LUTETIUM 175 TARGET**

*ETDE: 1976-07-12*  
BT1 targets

**LUTETIUM 176**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LUTETIUM 176 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**LUTETIUM 177**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 178**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes

- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 179**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 180**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 181**

*INIS: 1982-06-09; ETDE: 1982-07-08*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 182**

*1982-06-09*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 183**

*1983-03-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LUTETIUM 184**

*INIS: 1988-03-08; ETDE: 1988-04-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LUTETIUM 187**

*INIS: 1992-09-22; ETDE: 1982-06-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM ADDITIONS**

*Alloys containing not more than 1% Lu are listed here.*

- \*BT1 lutetium alloys
- \*BT1 rare earth additions

**LUTETIUM ALLOYS**

*Alloys containing more than 1% Lu.*

- \*BT1 rare earth alloys
- NT1 lutetium additions
- NT1 lutetium base alloys

**LUTETIUM BASE ALLOYS**

- \*BT1 lutetium alloys

**LUTETIUM BORIDES**

- \*BT1 borides
- \*BT1 lutetium compounds

**LUTETIUM BROMIDES**

- \*BT1 bromides

- \*BT1 lutetium halides

**LUTETIUM CARBIDES**

- \*BT1 carbides
- \*BT1 lutetium compounds

**LUTETIUM CARBONATES**

*INIS: 2000-04-12; ETDE: 1989-05-11*

- \*BT1 carbonates
- \*BT1 lutetium compounds

**LUTETIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 lutetium halides

**LUTETIUM COMPLEXES**

- \*BT1 rare earth complexes

**LUTETIUM COMPOUNDS**

*1997-06-17*

- BT1 rare earth compounds
- NT1 lutetium borides
- NT1 lutetium carbides
- NT1 lutetium carbonates
- NT1 lutetium halides
- NT2 lutetium bromides
- NT2 lutetium chlorides
- NT2 lutetium fluorides
- NT2 lutetium iodides
- NT1 lutetium hydrides
- NT1 lutetium hydroxides
- NT1 lutetium nitrates
- NT1 lutetium oxides
- NT1 lutetium perchlorates
- NT1 lutetium phosphates
- NT1 lutetium selenides
- NT1 lutetium silicates
- NT1 lutetium silicides
- NT1 lutetium sulfates
- NT1 lutetium sulfides
- NT1 lutetium tungstates

**LUTETIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 lutetium halides

**LUTETIUM HALIDES**

*2012-07-19*

- \*BT1 halides
- \*BT1 lutetium compounds
- NT1 lutetium bromides
- NT1 lutetium chlorides
- NT1 lutetium fluorides
- NT1 lutetium iodides

**LUTETIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 lutetium compounds

**LUTETIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 lutetium compounds

**LUTETIUM IODIDES**

- \*BT1 iodides
- \*BT1 lutetium halides

**LUTETIUM IONS**

- \*BT1 ions

**LUTETIUM ISOTOPES**

- BT1 isotopes
- NT1 lutetium 150
- NT1 lutetium 151
- NT1 lutetium 152
- NT1 lutetium 153
- NT1 lutetium 154
- NT1 lutetium 155
- NT1 lutetium 156
- NT1 lutetium 157
- NT1 lutetium 158
- NT1 lutetium 159
- NT1 lutetium 160

**NT1** lutetium 161  
**NT1** lutetium 162  
**NT1** lutetium 163  
**NT1** lutetium 164  
**NT1** lutetium 165  
**NT1** lutetium 166  
**NT1** lutetium 167  
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**NT1** lutetium 180  
**NT1** lutetium 181  
**NT1** lutetium 182  
**NT1** lutetium 183  
**NT1** lutetium 184  
**NT1** lutetium 187

**LUTETIUM NITRATES**

\*BT1 lutetium compounds  
 \*BT1 nitrates

**LUTETIUM OXIDES**

\*BT1 lutetium compounds  
 \*BT1 oxides

**LUTETIUM PERCHLORATES**

1996-06-28

(From June 1996 to November 2007

LUTETIUM COMPOUNDS +  
PERCHLORATES was used for this concept.)

\*BT1 lutetium compounds  
 \*BT1 perchlorates

**LUTETIUM PHOSPHATES**

INIS: 1975-10-23; ETDE: 1975-12-16

\*BT1 lutetium compounds  
 \*BT1 phosphates

**LUTETIUM SELENIDES**

INIS: 1996-06-28; ETDE: 1975-11-28

(From June 1996 to November 2007

LUTETIUM COMPOUNDS + SELENIDES  
was used for this concept.)

\*BT1 lutetium compounds  
 \*BT1 selenides

**LUTETIUM SILICATES**

INIS: 1979-02-21; ETDE: 1977-04-12

\*BT1 lutetium compounds  
 \*BT1 silicates

**LUTETIUM SILICIDES**

INIS: 1978-07-31; ETDE: 1978-09-11

\*BT1 lutetium compounds  
 \*BT1 silicides

**LUTETIUM SULFATES**

\*BT1 lutetium compounds  
 \*BT1 sulfates

**LUTETIUM SULFIDES**

\*BT1 lutetium compounds  
 \*BT1 sulfides

**LUTETIUM TUNGSTATES**

INIS: 2000-04-12; ETDE: 1990-05-16

\*BT1 lutetium compounds  
 \*BT1 tungstates

**LUXEMBOURG**

1995-04-03

BT1 developed countries  
 \*BT1 western europe  
 RT oecd

**LVR-15 REACTOR**

1995-01-04

Nuclear Research Institute, Rez, Czech  
Republic.

UF czech wwr-s reactor  
 UF prague wwr-s reactor  
 UF wwr-c-prague reactor  
 UF wwr-s-rez reactor  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors  
 \*BT1 zero power reactors

**LWBR TYPE REACTORS**

\*BT1 breeder reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**LWGR TYPE REACTORS**

1996-02-09

UF rbmk type reactors  
 UF water cooled graphite moderated  
reactors

\*BT1 graphite moderated reactors  
 \*BT1 water cooled reactors  
**NT1** aps reactor  
**NT1** beloyarsk-1 reactor  
**NT1** beloyarsk-2 reactor  
**NT1** bilibin reactor  
**NT1** chernobylsk-1 reactor  
**NT1** chernobylsk-2 reactor  
**NT1** chernobylsk-3 reactor  
**NT1** chernobylsk-4 reactor  
**NT1** ignalina-1 reactor  
**NT1** ignalina-2 reactor  
**NT1** kursk-1 reactor  
**NT1** kursk-2 reactor  
**NT1** kursk-3 reactor  
**NT1** kursk-4 reactor  
**NT1** leningrad-1 reactor  
**NT1** leningrad-2 reactor  
**NT1** leningrad-3 reactor  
**NT1** leningrad-4 reactor  
**NT1** n-reactor  
**NT1** rpt reactor  
**NT1** smolensk-1 reactor  
**NT1** smolensk-2 reactor  
**NT1** smolensk-3 reactor  
**NT1** uwtr reactor  
 RT enriched uranium reactors  
 RT power reactors  
 RT thermal reactors

**LWOR TYPE REACTORS**

UF water moderated organic cooled  
reactors

\*BT1 organic cooled reactors  
 \*BT1 water moderated reactors  
 RT power reactors

**lwr type reactors**

INIS: 2000-04-12; ETDE: 1983-03-07

USE water cooled reactors

**LYAPUNOV METHOD**

INIS: 1976-09-06; ETDE: 1976-11-01

UF liapunov method  
**BT1** calculation methods  
 RT differential equations  
 RT limit cycle  
 RT stability

**LYASES**

Code number 4.

\*BT1 enzymes  
**NT1** carbon-carbon lyases  
**NT2** aldehyde-lyases  
**NT2** aldolases  
**NT2** carboxy-lyases  
**NT3** carboxylase

**NT3** decarboxylases

**NT3** ribulose diphosphate carboxylase

**NT1** carbon-oxygen lyases

**NT2** hyaluronidase

**NT2** hydro-lyases

**NT3** carbonic anhydrase

**NT1** cyclases

**NT1** dna methylases

RT aldehydes

RT carboxylation

RT decarboxylation

**lyman alpha emission**

USE lyman lines

**lyman alpha radiation**

USE lyman lines

**lyman continuum**

USE lyman lines

**LYMAN LINES**

Includes all aspects of the transitions  
associated with Lyman lines.

UF lyman alpha emission

UF lyman alpha radiation

UF lyman continuum

UF lyman series

RT hydrogen

RT spectra

**lyman series**

USE lyman lines

**LYMANTRIA DISPAR**

UF gypsy moth

\*BT1 moths

**LYMPH**

\*BT1 body fluids

RT lymphatic system

**LYMPH NODES**

BT1 lymphatic system

RT immune system diseases

RT lymph vessels

RT reticuloendothelial system

**LYMPH VESSELS**

UF thoracic duct

BT1 lymphatic system

RT angiomas

RT lymph nodes

RT veins

**LYMPHATIC SYSTEM**

UF appendix (vermiform)

UF bursa of fabricius

UF tonsils

**NT1** lymph nodes

**NT1** lymph vessels

**NT1** thymus

RT cardiovascular system

RT leukemia

RT lungs

RT lymph

RT lymphocytes

RT lymphomas

RT organs

RT radiation syndrome

RT reticuloendothelial system

RT spleen

RT splenectomy

**lymphoblastomas**

USE lymphomas

**LYMPHOCYTES**

UF lymphoid cells

\*BT1 connective tissue cells

\*BT1 leukocytes

RT concanavalin a

RT histocompatibility complex  
 RT hybridomas  
 RT immune system diseases  
 RT immunity  
 RT lymphatic system  
 RT lymphokines  
 RT lymphomas  
 RT lymphopenia  
 RT natural killer cells  
 RT phytohemagglutinin  
 RT plasma cells  
 RT radiation syndrome  
 RT thymus

**lymphogranuloma malignum**

USE hodgkins disease

**lymphogranulomas**

USE lymphomas

**lymphogranulomatosis**

USE hodgkins disease

**lymphoid cells**

USE lymphocytes

**LYMPHOKINES**

INIS: 1999-09-08; ETDE: 1981-01-09

Biologically active molecules released from lymphocytes stimulated by antigens of mitogens.

UF cytokines  
 UF interleukins  
 \*BT1 growth factors  
 NT1 interferon  
 RT complement  
 RT immunity  
 RT lymphocytes

**LYMPHOMAS**

UF lymphoblastomas  
 UF lymphogranulomas  
 \*BT1 immune system diseases  
 \*BT1 neoplasms  
 NT1 hodgkins disease  
 NT1 lymphosarcomas  
 RT lymphatic system  
 RT lymphocytes

**LYMPHOPENIA**

\*BT1 leukopenia  
 RT lymphocytes

**lymphopoiesis**

USE leukopoiesis

**LYMPHOSARCOMAS**

\*BT1 lymphomas  
 \*BT1 sarcomas

**lynchburg pool reactor**

2000-04-12

USE lpr reactor

**LYNDOCHITE**

2000-04-12

\*BT1 oxide minerals  
 \*BT1 thorium minerals  
 RT niobium oxides  
 RT thorium oxides

**LYNITE**

2000-04-12

\*BT1 aluminium base alloys  
 \*BT1 copper alloys  
 \*BT1 iron alloys  
 \*BT1 zinc alloys

**LYOLUMINESCENCE**

INIS: 1977-09-06; ETDE: 1977-10-19

\*BT1 chemical radiation effects  
 \*BT1 luminescence  
 RT dosimetry

**LYOPHILIZATION**

SF freeze drying  
 RT drying  
 RT freezing

**LYSERGIC ACID**

\*BT1 alkaloids  
 \*BT1 heterocyclic acids  
 \*BT1 indoles

**lysholm engine**

INIS: 2000-04-12; ETDE: 1984-07-20

USE helical rotary screw expander

**LYSIMETERS**

INIS: 1986-07-09; ETDE: 1985-11-19

Devices for measuring the percolation of water through soils and for determining the soluble constituents removed in the drainage.

BT1 measuring instruments

**LYSINE**

UF diaminocaproic acid  
 \*BT1 amino acids

**LYSIS**

INIS: 1976-05-07; ETDE: 1975-11-11

NT1 electrolysis  
 NT2 anodization  
 NT2 electrodeposition  
 NT3 electroplating  
 NT2 electropolishing  
 NT2 electrorefining  
 NT2 photoelectrolysis  
 NT1 hemolysis  
 NT1 hydrolysis  
 NT2 acid hydrolysis  
 NT2 alkaline hydrolysis  
 NT2 autohydrolysis  
 NT2 enzymatic hydrolysis  
 NT2 saccharification  
 NT2 saponification

**LYSOSOMES**

1999-04-20

RT golgi complexes  
 RT subcellular distribution

**LYSOZYME**

Code number 3.2.1.17.

\*BT1 o-glycosyl hydrolases  
 RT mucoproteins  
 RT polysaccharides

**M CAPTURE**

INIS: 1979-09-18; ETDE: 1979-08-09

\*BT1 electron capture decay

**M CENTERS**

\*BT1 color centers

**M CODES**

BT1 computer codes

**M CONVERSION**

UF m-conversion coefficient  
 \*BT1 internal conversion

**m-conversion coefficient**

USE m conversion

**m-gas process**

INIS: 2000-04-12; ETDE: 1979-02-27

Two vessel system to convert hydrocarbons to fuel gas in which steam gasification of feedstock occurs in one fluidized bed and regeneration of catalyst with combustion of coke and fuel in a separate fluidized bed. (Prior to January 1995, this was a valid ETDE descriptor.)

SEE synthetic fuels

**M SHELL**

INIS: 1976-07-06; ETDE: 1976-08-24

Atomic electron shells.  
 UF atomic shells (m)  
 BT1 electronic structure

**M-THEORY**

2007-08-13

Highly symmetric multi-dimensional theory of particles and their interactions; generalization of supergravity and related by weak-strong duality to each of the five known variations of string theory.

UF brane cosmology  
 UF brane models  
 UF brane theory  
 SF membrane theory  
 NT1 string theory  
 NT2 superstring theory  
 RT cosmological models  
 RT general relativity theory  
 RT particle interactions  
 RT particle models  
 RT quantum mechanics  
 RT standard model  
 RT supergravity  
 RT supersymmetry

**M1-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Magnetic dipole transitions.  
 UF magnetic dipole transitions  
 \*BT1 multipole transitions

**M2-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-05-01

Magnetic quadrupole transitions.  
 UF magnetic quadrupole transitions  
 \*BT1 multipole transitions

**M3-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Magnetic octupole transitions.  
 UF magnetic octupole transitions  
 \*BT1 multipole transitions

**M4-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-05-01

Magnetic hexadecapole transitions.  
 UF magnetic hexadecapole transitions  
 \*BT1 multipole transitions

**ma 754**

INIS: 2000-04-12; ETDE: 1979-08-09

USE nickel base alloys

**ma 956**

INIS: 2000-04-12; ETDE: 1979-08-09

USE iron base alloys

**MAANSHAN-1 REACTOR**

1991-10-09

Taiwan, China.

\*BT1 pwr type reactors

**MAANSHAN-2 REACTOR**

2017-10-18

Taiwan, China

\*BT1 pwr type reactors

**mac**

USE maximum acceptable contamination

**macaca**

USE macacus

**MACACUS**

UF macaca  
 UF rhesus monkeys  
 \*BT1 monkeys

**MACAO**

BT1 asia



**macedonia (the former yugoslav republic of)**

INIS: 1997-06-05; ETDE: 1998-04-10

USE the former yugoslav republic of macedonia

**MACEDONIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**MACERALS**

INIS: 1997-06-19; ETDE: 1977-06-24

Petrologic units seen in microscopic sections of coal.

NT1 exinite

NT1 inertinite

NT1 resinite

NT1 vitrinite

RT coal

RT lithotypes

RT petrology

**MACH NUMBER**

BT1 dimensionless numbers

BT1 velocity

RT aerodynamics

RT flow rate

RT shock waves

**MACH PRINCIPLE**

BT1 hypothesis

RT cosmology

RT general relativity theory

RT space-time

**MACH-ZEHNDER****INTERFEROMETER**

\*BT1 interferometers

**MACHINE PARTS**

1996-04-18

UF couplings (machine parts)

NT1 brakes

NT2 water brakes

NT1 gears

NT1 mechanical shafts

NT1 mechanical transmissions

NT1 pistons

NT1 springs

RT castings

RT rotors

RT stators

**MACHINE TOOLS**

\*BT1 tools

NT1 grinding machines

NT1 lathes

NT1 milling machines

RT computer-aided manufacturing

RT drill bits

RT machining

RT presses

**MACHINE TRANSLATIONS**

INIS: 1992-08-18; ETDE: 1976-12-15

Not for translation of computer programs, for which use TRANSLATORS.

RT computers

RT dictionaries

RT expert systems

RT standardized terminology

**MACHINERY**

INIS: 1992-01-16; ETDE: 1979-12-10

BT1 equipment

NT1 pulverizers

NT1 refrigerating machinery

NT1 turbomachinery

NT2 turbines

NT3 gas turbines

NT4 coal-fired gas turbines

NT3 hydraulic turbines

NT4 pump turbines

NT3 radial inflow turbines

NT3 radial-outflow reaction turbines

NT3 rotary separator turbines

NT3 steam turbines

NT3 wind turbines

NT4 diffuser augmented turbines

NT4 horizontal axis turbines

NT4 vertical axis turbines

NT5 giromill turbines

NT5 tornado turbines

NT4 vortex augmented turbines

NT2 turbochargers

NT2 turbodrills

NT2 turbofan engines

NT2 turbogenerators

NT2 turbojet engines

NT1 winding machines

RT manufacturing

**MACHINING**

NT1 chemical machining

NT2 electrochemical machining

NT1 cutting

NT1 electron beam machining

NT1 grinding

NT1 honing

NT1 laser beam machining

NT1 materials drilling

NT2 laser drilling

NT2 rock drilling

NT1 milling

NT1 spark machining

NT1 ultrasonic machining

RT cutting fluids

RT lathes

RT machine tools

RT materials working

RT surface finishing

RT tools

**MACKINTOSHITE**

2000-04-12

\*BT1 silicate minerals

\*BT1 thorium minerals

\*BT1 uranium minerals

RT thorium silicates

RT uranium silicates

**MACROPHAGES**

\*BT1 connective tissue cells

\*BT1 phagocytes

RT phagocytosis

RT reticuloendothelial system

RT spleen

**MADAGASCAR**

BT1 africa

BT1 developing countries

BT1 islands

NT1 malagasy republic

RT indian ocean

**MADARAS ROTORS**

INIS: 2000-04-12; ETDE: 1978-10-23

BT1 rotors

RT vertical axis turbines

**madras-1 reactor**

2018-01-26

USE kalpakkam-1 reactor

**madras-2 reactor**

2018-01-26

USE kalpakkam-2 reactor

**MAGELLANIC CLOUDS**

BT1 galaxies

**MAGIC NUCLEI**

UF magic numbers

BT1 nuclei

RT nuclear structure

RT stable isotopes

**magic numbers**

USE magic nuclei

**MAGMA**

1996-04-29

Naturally occurring mobile rock materials, generated within the earth and capable of intrusion and extrusion, from which igneous rocks are thought to have been derived by solidification and related processes.

RT igneous rocks

RT lava

RT magmatism

RT volcanism

RT volcanoes

**MAGMA SYSTEMS**

1992-03-30

A geothermal system in which the dominant heat source is a reservoir of magma.

BT1 geothermal systems

**magmamax process**

INIS: 2000-04-12; ETDE: 1977-11-29

USE binary-fluid systems

**MAGMATIC WATER**

2000-04-12

Water that exists in, or which is derived from, molten igneous rocks or magma.

\*BT1 ground water

**MAGMATISM**

INIS: 1993-01-22; ETDE: 1978-07-05

The development, movement, and solidification of magma to igneous rocks.

RT igneous rocks

RT magma

RT volcanism

**MAGNALIUM**

2000-04-12

\*BT1 aluminium base alloys

\*BT1 copper alloys

\*BT1 magnesium alloys

**MAGNESIUM**

\*BT1 alkaline earth metals

**MAGNESIUM 19**

2004-09-14

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 magnesium isotopes

\*BT1 milliseconds living radioisotopes

**MAGNESIUM 20**

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 magnesium isotopes

\*BT1 milliseconds living radioisotopes

**MAGNESIUM 21**

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 magnesium isotopes

\*BT1 milliseconds living radioisotopes

**MAGNESIUM 22**

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 magnesium isotopes

\*BT1 seconds living radioisotopes

**MAGNESIUM 23**

\*BT1 beta-plus decay radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 seconds living radioisotopes

**MAGNESIUM 23 TARGET**

*INIS: 1976-04-03; ETDE: 1976-07-12*

- BT1 targets

**MAGNESIUM 24**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 stable isotopes
- RT* magnesium 24 beams
- RT* magnesium 24 reactions

**MAGNESIUM 24 BEAMS**

*INIS: 1976-01-27; ETDE: 1976-03-12*

- \*BT1 ion beams
- RT* magnesium 24

**MAGNESIUM 24 REACTIONS**

- \*BT1 heavy ion reactions
- RT* magnesium 24

**MAGNESIUM 24 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**MAGNESIUM 25**

*1995-01-04*

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 stable isotopes
- RT* magnesium 25 beams

**MAGNESIUM 25 BEAMS**

*1995-01-04*

- \*BT1 ion beams
- RT* magnesium 25

**MAGNESIUM 25 REACTIONS**

*INIS: 1982-04-14; ETDE: 1981-08-04*

- \*BT1 heavy ion reactions

**MAGNESIUM 25 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**MAGNESIUM 26**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 stable isotopes

**MAGNESIUM 26 REACTIONS**

*INIS: 1982-06-09; ETDE: 1982-07-08*

- \*BT1 heavy ion reactions

**MAGNESIUM 26 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**MAGNESIUM 27**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 minutes living radioisotopes

**MAGNESIUM 27 TARGET**

*INIS: 1979-04-27; ETDE: 1979-05-25*

- BT1 targets

**MAGNESIUM 28**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- RT* radioisotope generators

**MAGNESIUM 28 DECAY RADIOISOTOPES**

*INIS: 1990-01-30; ETDE: 1990-02-13*

- \*BT1 heavy ion decay radioisotopes
- NT1** plutonium 236
- NT1** uranium 234
- RT* magnesium 28 emission decay

**MAGNESIUM 28 EMISSION DECAY**

*INIS: 1990-01-30; ETDE: 1990-02-13*

- \*BT1 heavy ion emission decay
- RT* magnesium 28 decay radioisotopes

**MAGNESIUM 29**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 seconds living radioisotopes

**MAGNESIUM 30**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 milliseconds living radioisotopes

**MAGNESIUM 30 EMISSION DECAY**

*INIS: 1989-10-27; ETDE: 1989-11-21*

- \*BT1 heavy ion emission decay

**MAGNESIUM 31**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 milliseconds living radioisotopes

**MAGNESIUM 32**

*INIS: 1977-10-17; ETDE: 1977-08-09*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM 33**

*INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM 34**

*INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM 35**

*INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM 36**

*INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM 37**

*2007-02-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 nanoseconds living radioisotopes

**MAGNESIUM 38**

*2006-12-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei

- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM 39**

*2006-09-04*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 nanoseconds living radioisotopes

**MAGNESIUM 40**

*2005-01-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM ADDITIONS**

*Alloys containing not more than 1% Mg are listed here.*

- \*BT1 magnesium alloys
- NT1** alloy-al95cu4
- NT2** duralumin
- NT1** bondur
- NT1** zamak

**MAGNESIUM ALLOY-AZ31B**

*2000-04-12*

- \*BT1 aluminium alloys
- \*BT1 magnesium base alloys
- \*BT1 manganese additions
- \*BT1 zinc alloys

**MAGNESIUM ALLOY-EK**

*2000-04-12*

- \*BT1 magnesium base alloys
- \*BT1 rare earth alloys
- \*BT1 zirconium additions

**MAGNESIUM ALLOY-EZ**

*2000-04-12*

- \*BT1 magnesium base alloys
- \*BT1 rare earth alloys
- \*BT1 zinc alloys
- \*BT1 zirconium additions

**MAGNESIUM ALLOY-HK31A**

*2000-04-12*

- \*BT1 magnesium base alloys
- \*BT1 thorium alloys
- \*BT1 zirconium additions

**MAGNESIUM ALLOY-ZR**

*2000-04-12*

- \*BT1 chromium alloys
- \*BT1 magnesium base alloys
- \*BT1 zinc alloys

**MAGNESIUM ALLOYS**

*Alloys containing more than 1% Mg.*

- BT1 alloys
- NT1** duralumin
- NT1** magnalium
- NT1** magnesium additions
- NT2** alloy-al95cu4
- NT3** duralumin
- NT2** bondur
- NT2** zamak
- NT1** magnesium base alloys
- NT2** magnesium alloy-az31b
- NT2** magnesium alloy-ek
- NT2** magnesium alloy-ez
- NT2** magnesium alloy-hk31a
- NT2** magnesium alloy-zr
- NT2** magnox

**MAGNESIUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1976-11-29*

- \*BT1 arsenides
- \*BT1 magnesium compounds

**MAGNESIUM BASE ALLOYS**

- \*BT1 magnesium alloys
- NT1 magnesium alloy-az31b
- NT1 magnesium alloy-ek
- NT1 magnesium alloy-ez
- NT1 magnesium alloy-hk31a
- NT1 magnesium alloy-zr
- NT1 magnox

**MAGNESIUM BORIDES**

- \*BT1 borides
- \*BT1 magnesium compounds

**MAGNESIUM BROMIDES**

- \*BT1 bromides
- \*BT1 magnesium halides

**MAGNESIUM CARBIDES**

- \*BT1 carbides
- \*BT1 magnesium compounds

**MAGNESIUM CARBONATES**

1996-06-26

- \*BT1 carbonates
- \*BT1 magnesium compounds
- RT ankerite
- RT carbonate minerals
- RT dolomite
- RT limestone

**MAGNESIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 magnesium halides
- RT carnallite
- RT halide minerals

**MAGNESIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**MAGNESIUM COMPOUNDS**

1997-06-17

- BT1 alkaline earth metal compounds
- NT1 grignard reagents
- NT1 magnesium arsenides
- NT1 magnesium borides
- NT1 magnesium carbides
- NT1 magnesium carbonates
- NT1 magnesium halides
- NT2 magnesium bromides
- NT2 magnesium chlorides
- NT2 magnesium fluorides
- NT2 magnesium iodides
- NT1 magnesium hydrides
- NT1 magnesium hydroxides
- NT1 magnesium nitrates
- NT1 magnesium nitrides
- NT1 magnesium oxides
- NT1 magnesium perchlorates
- NT1 magnesium phosphates
- NT1 magnesium silicates
- NT1 magnesium silicides
- NT1 magnesium sulfates
- NT1 magnesium sulfides
- NT1 magnesium tellurides

**MAGNESIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 magnesium halides

**MAGNESIUM HALIDES**

2012-07-19

- \*BT1 halides
- \*BT1 magnesium compounds
- NT1 magnesium bromides
- NT1 magnesium chlorides
- NT1 magnesium fluorides
- NT1 magnesium iodides

**MAGNESIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 magnesium compounds

**MAGNESIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 magnesium compounds

**MAGNESIUM IODIDES**

- \*BT1 iodides
- \*BT1 magnesium halides

**MAGNESIUM IONS**

- \*BT1 ions

**MAGNESIUM ISOTOPES**

1999-02-01

- \*BT1 alkaline earth isotopes
- NT1 magnesium 19
- NT1 magnesium 20
- NT1 magnesium 21
- NT1 magnesium 22
- NT1 magnesium 23
- NT1 magnesium 24
- NT1 magnesium 25
- NT1 magnesium 26
- NT1 magnesium 27
- NT1 magnesium 28
- NT1 magnesium 29
- NT1 magnesium 30
- NT1 magnesium 31
- NT1 magnesium 32
- NT1 magnesium 33
- NT1 magnesium 34
- NT1 magnesium 35
- NT1 magnesium 36
- NT1 magnesium 37
- NT1 magnesium 38
- NT1 magnesium 39
- NT1 magnesium 40

**MAGNESIUM NITRATES**

- \*BT1 magnesium compounds
- \*BT1 nitrates

**MAGNESIUM NITRIDES**

- \*BT1 magnesium compounds
- \*BT1 nitrides

**MAGNESIUM OXIDES**

- \*BT1 magnesium compounds
- \*BT1 oxides
- RT novacekite
- RT oxide minerals
- RT spinels

**MAGNESIUM PERCHLORATES**

- \*BT1 magnesium compounds
- \*BT1 perchlorates

**MAGNESIUM PHOSPHATES**

- \*BT1 magnesium compounds
- \*BT1 phosphates
- RT phosphate minerals
- RT salecite

**MAGNESIUM SILICATES**

- \*BT1 magnesium compounds
- \*BT1 silicates
- RT enstatite
- RT lava
- RT olivine
- RT sepiolite
- RT serpentine
- RT silicate minerals
- RT sklodowskite
- RT talc
- RT vermiculite

**MAGNESIUM SILICIDES**

INIS: 1976-10-07; ETDE: 1975-10-28

- \*BT1 magnesium compounds
- \*BT1 silicides

**MAGNESIUM SLURRY SCRUBBING PROCESS**

INIS: 2000-04-12; ETDE: 1977-04-12

Process uses magnesium oxide to absorb sulfur dioxide in a wet scrubber. Aqueous slurry of magnesium sulfite formed in the scrubber is dried and calcined to regenerate magnesium oxide and produce an sulfur dioxide-rich gas stream for recovery of sulfuric acid or elemental sulfur.

- \*BT1 desulfurization
- RT scrubbing
- RT waste processing

**MAGNESIUM SULFATES**

- \*BT1 magnesium compounds
- \*BT1 sulfates
- RT lava
- RT polyhalite
- RT sulfate minerals

**MAGNESIUM SULFIDES**

- \*BT1 magnesium compounds
- \*BT1 sulfides

**MAGNESIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1975-09-11

- \*BT1 magnesium compounds
- \*BT1 tellurides

**MAGNET COILS**

- UF coils (magnetic)
- UF magnetic coils
- \*BT1 electric coils
- NT1 pulsed magnet coils
- RT magnets
- RT septum magnets
- RT solenoids
- RT superconducting coils
- RT superconducting magnets
- RT winding machines

**MAGNET CORES**

- UF cores (magnet)
- RT magnet pole pieces
- RT magnets

**MAGNET POLE PIECES**

- RT magnet cores
- RT magnets

**MAGNET STEEL-KS**

2000-04-12

- \*BT1 chromium steels
- \*BT1 cobalt alloys
- \*BT1 tungsten alloys

**MAGNETIC AMPLIFIERS**

- \*BT1 amplifiers

**MAGNETIC ANALYZERS**

- BT1 beam analyzers
- RT beam bending magnets
- RT electromagnetic lenses
- RT electrostatic septa
- RT septum magnets

**MAGNETIC BALANCES**

- UF balances (magnetic)
- BT1 measuring instruments
- RT magnetic susceptibility

**MAGNETIC BAYS**

- UF auroral substorms
- UF bays (magnetic)
- UF polar substorms
- RT disturbances
- RT magnetic storms

**MAGNETIC BEARINGS**

- BT1 bearings

**magnetic bremsstrahlung**

USE synchrotron radiation

**MAGNETIC CIRCUITS**

UF circuits (magnetic)

RT electric coils

**MAGNETIC CIRCULAR****DICHROISM**

INIS: 1994-06-27; ETDE: 1981-07-18

BT1 dichroism

RT structural chemical analysis

**magnetic coils**

USE magnet coils

**MAGNETIC COMPRESSION**

UF pulsar concept

BT1 compression

RT linus reactors

RT magnetic fields

RT pinch effect

**MAGNETIC CONFINEMENT**

INIS: 1996-04-16; ETDE: 1989-11-02

\*BT1 plasma confinement

NT1 h-mode plasma confinement

NT1 l-mode plasma confinement

RT electron rings

RT ion rings

RT magnetic field configurations

RT rotational transform

**magnetic cooling**

INIS: 2000-04-12; ETDE: 1976-02-20

USE adiabatic demagnetization

**MAGNETIC CORES**

For the storage of information in machine-readable form only.

UF cores (magnetic)

\*BT1 magnetic storage devices

RT computers

**MAGNETIC DIPOLE MOMENTS**

BT1 dipole moments

BT1 magnetic moments

RT nuclear magnetic moments

RT particle magnetic polarizability

**magnetic dipole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28

USE m1-transitions

**MAGNETIC DIPOLES**

\*BT1 dipoles

RT magnetic fields

**MAGNETIC DISKS**

UF disks (magnetic)

\*BT1 magnetic storage devices

**MAGNETIC DRUMS**

\*BT1 magnetic storage devices

**MAGNETIC ENERGY STORAGE**

INIS: 1995-02-27; ETDE: 1977-01-28

\*BT1 energy storage

NT1 superconducting magnetic energy storage

RT magnetic energy storage equipment

RT superconducting magnets

**MAGNETIC ENERGY STORAGE****EQUIPMENT**

INIS: 1995-02-27; ETDE: 1977-09-19

\*BT1 energy storage systems

BT1 equipment

RT magnetic energy storage

RT magnets

RT peaking power plants

RT superconducting coils

RT superconducting magnets

**MAGNETIC FIELD****CONFIGURATIONS**

For pinch configurations, use the narrower terms of PINCHEFFECT.

NT1 closed configurations

NT2 minimum average-b configurations

NT2 multipolar configurations

NT3 hexapolar configurations

NT3 octupolar configurations

NT3 quadrupolar configurations

NT2 toroidal configuration

NT1 magnetic field reversal

NT1 magnetic field ripples

NT1 magnetic islands

NT1 magnetic surfaces

NT2 mode rational surfaces

NT1 open configurations

NT2 baseball seam configurations

NT2 cusped geometries

NT2 magnetic mirror configurations

NT3 tlm configurations

NT2 minimum-b configurations

RT confinement

RT divertors

RT helical configuration

RT magnetic confinement

RT magnetic fields

RT magnetic reconnection

RT pinch effect

RT plasma

RT reversed-field pinch devices

RT rotational transform

RT thermonuclear devices

**MAGNETIC FIELD REVERSAL**

INIS: 1981-08-31; ETDE: 1978-02-14

BT1 magnetic field configurations

RT magnetic fields

RT magnetic reconnection

RT reverse-field pinch

RT reversed-field mirrors

**MAGNETIC FIELD RIPPLES**

INIS: 1981-07-06; ETDE: 1978-04-06

BT1 magnetic field configurations

RT magnetic fields

RT plasma

**MAGNETIC FIELDS**

UF external magnetic fields

UF fields (magnetic)

UF magnetic force microscopy

UF magnetolectricity

UF photoelectromagnetic effect

UF photomagnetolectric effect

NT1 critical field

NT1 dynamic magnetic fields

NT1 force-free magnetic fields

NT1 geomagnetic field

NT1 interplanetary magnetic fields

NT1 interstellar magnetic fields

NT1 static magnetic fields

RT beta ratio

RT biot-savart law

RT crossed fields

RT demagnetization

RT electromagnetic fields

RT end effects

RT faraday method

RT galvanomagnetic effect

RT guiding-center approximation

RT inhomogeneous fields

RT langevin equation

RT larmor radius

RT levitation

RT lorentz force

RT magnetic compression

RT magnetic dipoles

RT magnetic field configurations

RT magnetic field reversal

RT magnetic field ripples

RT magnetic flux

RT magnetic islands

RT magnetic mirror configurations

RT magnetic mirrors

RT magnetic properties

RT magnetic reconnection

RT magnetic rigidity

RT magnetism

RT magnetization

RT magneto-thermal effects

RT mirror ratio

RT righi-leduc effect

RT rotational transform

RT shear

RT shubnikov-de haas effect

RT stoermer theory

RT tlm configurations

RT trapping

RT zeeman effect

**MAGNETIC FILTERS**

INIS: 1983-03-15; ETDE: 1979-10-23

Devices for the collection or removal of magnetic particles from a liquid or gaseous stream by magnetic fields.

BT1 filters

RT filtration

RT magnetic separators

RT separation processes

**MAGNETIC FLUX**

UF flux (magnetic)

UF flux jumps

UF flux pinning

UF fluxoids

UF foucault current

UF magnetic vortices

UF pinning force

UF vortices (magnetic)

RT aharonov-bohm effect

RT flux density

RT flux quantization

RT magnetic fields

RT skin effect

RT superconductivity

**MAGNETIC FLUX COORDINATES**

INIS: 1988-11-16; ETDE: 1988-12-05

A coordinate system for a toroidally confined plasma in which the radial coordinate is defined by the magnetic flux contained within a given magnetic flux surface.

\*BT1 curvilinear coordinates

RT magnetic surfaces

RT plasma radial profiles

RT rotational transform

**magnetic force microscopy**

INIS: 2002-09-11; ETDE: 2002-08-26

USE atomic force microscopy

USE magnetic fields

**MAGNETIC FORCE WELDING**

\*BT1 welding

RT magnetic forming

**MAGNETIC FORMING**

\*BT1 materials working

RT magnetic force welding

**MAGNETIC GRADIENT****ACCELERATORS**

INIS: 1982-10-29; ETDE: 1980-01-15

Type of macroparticle accelerator which uses a high-gradient magnetic field to accelerate a projectile. The magnetic field motion of the accelerator is synchronized with the projectile.

\*BT1 impact fusion drivers

RT impact fusion

**magnetic hexadecapole transitions**

INIS: 1978-02-23; ETDE: 1978-04-27  
USE m4-transitions

**magnetic induction logging**

INIS: 2000-04-12; ETDE: 1976-06-07  
USE induction logging

**MAGNETIC INSULATION**

Insulation of electric fields by means of magnetic fields; not for insulation of the magnetic fields themselves.

UF insulation (electrical, by magnetic fields)  
UF insulation (magnetic)  
RT confinement  
RT thermionic diodes

**MAGNETIC ISLANDS**

INIS: 1981-07-06; ETDE: 1978-04-27  
BT1 magnetic field configurations  
RT magnetic fields  
RT plasma

**MAGNETIC LENS****SPECTROMETERS**

UF intermediate image spectrometer  
UF long-lens spectrometers  
UF short-lens spectrometers  
UF slatis-siegbahn spectrometers  
\*BT1 magnetic spectrometers

**magnetic levitated trains**

INIS: 2000-04-12; ETDE: 1975-11-11  
USE levitated trains

**magnetic liquids**

INIS: 2000-04-12; ETDE: 1985-03-12  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE liquids  
USE magnetic materials

**MAGNETIC MATERIALS**

UF ferrofluids  
UF liquid magnets  
UF magnetic liquids  
UF materials (magnetic)  
BT1 materials  
NT1 antiferromagnetic materials  
NT1 ferrimagnetic materials  
NT2 ferrites  
NT1 ferromagnetic materials  
RT magnetism

**MAGNETIC MIRROR CONFIGURATIONS**

\*BT1 open configurations  
NT1 tlm configurations  
RT magnetic fields  
RT magnetic mirrors  
RT mirror ratio  
RT plasma potential

**MAGNETIC MIRROR TYPE REACTORS**

INIS: 1995-01-16; ETDE: 1976-09-15  
UF field-reversed mirror reactors  
UF frm reactors (thermonuclear)  
BT1 thermonuclear reactors  
NT1 mars reactor  
NT1 minimars reactor  
NT1 tmr reactors  
RT magnetic mirrors  
RT tmx devices

**MAGNETIC MIRRORS**

1996-07-23  
Including systems with minimum-B configuration.  
UF bsg devices

UF dcx devices  
UF elmax devices  
UF ixion  
UF mfx device  
UF mirrors (magnetic)  
UF mtse devices  
UF pr-6 device  
UF pr-7 device  
UF pr devices  
UF vgl devices  
\*BT1 open plasma devices  
NT1 2x devices

NT1 alic  
NT1 beta ii devices  
NT1 bumpy tori  
NT2 elmo bumpy torus  
NT1 burnout devices  
NT1 circe devices  
NT1 deca devices  
NT1 elmo devices  
NT2 elmo bumpy torus  
NT1 gdt device  
NT1 gol-3 device  
NT1 imp device  
NT1 mftf devices  
NT1 ogra  
NT1 phoenix devices  
NT1 pleiade device  
NT1 reversed-field mirrors  
NT1 tandem mirrors  
NT2 gamma 10 devices  
NT2 phaedrus mirror devices  
NT2 tara devices  
NT2 tmx devices  
RT magnetic fields  
RT magnetic mirror configurations  
RT magnetic mirror type reactors  
RT mirror ratio  
RT plasma potential  
RT q devices  
RT tlm configurations  
RT tmr reactors

**MAGNETIC MOMENTS**

NT1 magnetic dipole moments  
NT1 nuclear magnetic moments  
RT fermi-segre formula  
RT gyromagnetic ratio  
RT magnetism  
RT magnetization  
RT quadrupole moments

**MAGNETIC MONOPOLES**

UF dirac monopoles  
BT1 monopoles  
\*BT1 postulated particles

**magnetic octupole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28  
USE m3-transitions

**magnetic permeability**

USE magnetic susceptibility

**MAGNETIC PROBES**

BT1 probes  
RT magnetometers

**MAGNETIC PROPERTIES**

BT1 physical properties  
NT1 magnetic susceptibility  
NT1 magnetostriction  
RT abrikosov theory  
RT coercive force  
RT domain structure  
RT electrical properties  
RT electromagnets  
RT magnetic fields  
RT magnetism  
RT magnetization  
RT magneto-optical effects

RT muon spin relaxation  
RT permanent magnets

**MAGNETIC-PUMPING HEATING**

Plasma heating by a series of periodic compressions and expansions in a limited region of the confinement volume by means of an RF modulation of the confining field.

\*BT1 high-frequency heating  
NT1 acoustic heating  
NT1 collisional heating  
NT1 transit-time magnetic pumping

**magnetic quadrupole transitions**

INIS: 1978-02-23; ETDE: 1978-04-27  
USE m2-transitions

**MAGNETIC RECONNECTION**

INIS: 1987-03-24; ETDE: 1986-07-25  
A topological rearrangement of the magnetic field lines surrounding a plasma.

RT magnetic field configurations  
RT magnetic field reversal  
RT magnetic fields  
RT reverse-field pinch  
RT sawtooth oscillations  
RT solar flares  
RT solar radio bursts  
RT solar x-ray bursts

**MAGNETIC REFRIGERATORS**

INIS: 1978-08-30; ETDE: 1978-06-14  
BT1 refrigerators  
RT cryogenics  
RT cryostats  
RT refrigeration

**MAGNETIC RESONANCE**

UF abmr method  
BT1 resonance  
NT1 eldor  
NT1 electron spin resonance  
NT2 acoustic esr  
NT1 endor  
NT1 ferrimagnetic resonance  
NT1 ferromagnetic resonance  
NT1 nuclear magnetic resonance  
NT2 acoustic nmr  
NT2 td-nmr  
RT bloch equations  
RT muon spin relaxation

**MAGNETIC REYNOLDS NUMBER**

\*BT1 reynolds number  
RT magnetohydrodynamics

**MAGNETIC RIGIDITY**

RT magnetic fields  
RT stratosphere

**MAGNETIC SEMICONDUCTORS**

INIS: 1976-01-28; ETDE: 1976-03-12  
\*BT1 semiconductor materials  
RT ferromagnetic materials

**MAGNETIC SEPARATORS**

INIS: 1994-06-27; ETDE: 1977-12-22  
(Until June 1994 this concept was indexed to MAGNETIC FILTERS.)  
BT1 concentrators  
RT magnetic filters  
RT separation processes

**MAGNETIC SHIELDING**

1998-10-22  
(Until October, 1998, this concept was indexed by SHIELDING and MAGNETIC FIELDS.)  
UF screening (magnetic fields)  
BT1 shielding  
RT superconductors

**MAGNETIC SPECIFIC HEAT**

*INIS: 2000-04-12; ETDE: 1979-07-18*  
*Magnetic contribution to specific heat.*  
 \*BT1 specific heat  
 RT electronic specific heat

**MAGNETIC SPECTROMETERS**

\*BT1 spectrometers  
 NT1 flat magnetic spectrometers  
 NT1 magnetic lens spectrometers

**MAGNETIC STARS**

*UF peculiar a-stars*  
 BT1 stars  
 RT pulsars  
 RT stellar magnetospheres  
 RT variable stars

**MAGNETIC STORAGE DEVICES**

BT1 memory devices  
 NT1 magnetic cores  
 NT1 magnetic disks  
 NT1 magnetic drums  
 NT1 magnetic tapes  
 NT2 video tapes

**MAGNETIC STORMS**

*UF geomagnetic storms*  
 RT disturbances  
 RT earth magnetosphere  
 RT forrush decrease  
 RT ionospheric storms  
 RT magnetic bays  
 RT sudden commencements

**MAGNETIC SURFACES**

*INIS: 1981-05-11; ETDE: 1978-04-27*  
*UF flux surfaces*  
 BT1 magnetic field configurations  
 NT1 mode rational surfaces  
 RT divertors  
 RT equilibrium plasma  
 RT magnetic flux coordinates  
 RT plasma confinement  
 RT plasma radial profiles  
 RT rotational transform  
 RT stellarators  
 RT tokamak devices

**MAGNETIC SURVEYS**

*1979-01-18*  
 \*BT1 geophysical surveys  
 RT aerial monitoring  
 RT aerial prospecting  
 RT aerial surveying  
 RT exploration  
 RT geothermal exploration  
 RT induction logging  
 RT seismic surveys

**MAGNETIC SUSCEPTIBILITY**

*UF magnetic permeability*  
*UF permeability (magnetic)*  
*UF photomagnetic effect*  
*UF susceptibility (magnetic)*  
 \*BT1 magnetic properties  
 RT curie point  
 RT curie-weiss law  
 RT magnetic balances  
 RT neel temperature

**MAGNETIC TAPES**

\*BT1 magnetic storage devices  
 NT1 video tapes

**MAGNETIC TESTING**

\*BT1 nondestructive testing

**magnetic traps (closed)**

USE closed configurations

**magnetic traps (open)**

USE open configurations

**MAGNETIC TUNNEL JUNCTIONS**

*2016-04-19*  
 BT1 tunnel junctions

**magnetic vortices**

USE magnetic flux

**magnetic well**

USE minimum-b configurations

**MAGNETISM**

NT1 antiferromagnetism  
 NT2 mictomagnetism  
 NT1 diamagnetism  
 NT2 plasma diamagnetism  
 NT1 electromagnetism  
 NT1 ferrimagnetism  
 NT1 ferromagnetism  
 NT2 mictomagnetism  
 NT1 nuclear magnetism  
 NT1 paleomagnetism  
 NT1 paramagnetism  
 NT1 superparamagnetism  
 NT1 thermomagnetism  
 RT adiabatic demagnetization  
 RT demagnetization  
 RT magnetic fields  
 RT magnetic materials  
 RT magnetic moments  
 RT magnetic properties  
 RT magnetization  
 RT magnets  
 RT spin glass state

**MAGNETITE**

\*BT1 iron ores  
 \*BT1 oxide minerals  
 RT black sands  
 RT ferrite  
 RT iron oxides  
 RT spinels

**MAGNETIZATION**

*1976-02-11*  
*Magnetic moment of unit volume of a material.*  
 RT demagnetization  
 RT magnetic fields  
 RT magnetic moments  
 RT magnetic properties  
 RT magnetism

**MAGNETO-OPTICAL EFFECTS**

NT1 voigt effect  
 RT electro-optical effects  
 RT faraday effect  
 RT kerr effect  
 RT magnetic properties  
 RT optical properties  
 RT stark effect  
 RT zeeman effect

**MAGNETO-THERMAL EFFECTS**

*INIS: 1975-10-23; ETDE: 1975-12-16*  
 RT magnetic fields

**MAGNETOACOUSTIC WAVES**

*UF magnetosonic waves*  
 BT1 hydromagnetic waves  
 NT1 fast magnetoacoustic waves  
 RT magnetoacoustics

**MAGNETOACOUSTICS**

*1999-01-20*  
 BT1 acoustics  
 RT hydromagnetic waves  
 RT magnetoacoustic waves  
 RT sound waves

**magnetodynamics**

*2018-03-01*  
 USE dynamic magnetic fields

**magnetolectricity**

*INIS: 1984-04-04; ETDE: 2002-03-28*  
*Appearance of an electric field in certain substances when they are subjected to a static magnetic field.*  
 USE electrical properties  
 USE magnetic fields

**MAGNETOGASDYNAMICS**

\*BT1 fluid mechanics  
 RT gas flow  
 RT magnetohydrodynamics

**magneto hydrodynamic channels**

USE mhd channels

**magneto hydrodynamic generators**

USE mhd generators

**magneto hydrodynamic waves**

USE hydromagnetic waves

**MAGNETO HYDRODYNAMICS**

\*BT1 hydrodynamics  
 RT direct energy conversion  
 RT fluid flow  
 RT hartmann number  
 RT magnetic reynolds number  
 RT magnetogasdynamics  
 RT mercier criterion  
 RT mhd equilibrium  
 RT mhd generators  
 RT mhd power plants  
 RT plasma  
 RT plasma fluid equations

**MAGNETOINDUCTION SENSORS**

\*BT1 beam monitors  
 RT beam monitoring

**MAGNETOMETERS**

BT1 measuring instruments  
 NT1 fluxgate magnetometers  
 NT1 moving coil magnetometers  
 NT1 proton precession magnetometers  
 NT1 vibrating sample magnetometers  
 RT fluxmeters  
 RT magnetic probes

**MAGNETO PAUSE**

RT earth magnetosphere  
 RT international magnetospheric study  
 RT magnetosheath

**MAGNETO PLASMA COMPRESSORS**

BT1 compressors

**MAGNETO RESISTANCE**

\*BT1 electric conductivity  
 RT shubnikov-de haas effect

**MAGNETO SHEATH**

RT earth magnetosphere  
 RT geomagnetic field  
 RT international magnetospheric study  
 RT magnetopause  
 RT solar wind

**magnetosonic waves**

USE magnetoacoustic waves

**magnetosphere (earth)**

*1985-07-18*  
 USE earth magnetosphere

**magnetospheres (planetary)**

*INIS: 1985-07-18; ETDE: 2002-03-28*  
 USE planetary magnetospheres

**magnetospheres (stellar)**

INIS: 1985-07-18; ETDE: 2002-03-28

USE stellar magnetospheres

**magnetostatics**

2018-03-01

USE static magnetic fields

**MAGNETOSTRICTION**

UF electromagnetostriction

\*BT1 magnetic properties

RT deformation

**MAGNETOTAIL**

1999-04-28

\*BT1 earth magnetosphere

RT geomagnetic field

RT international magnetospheric study

RT plasma sheet

RT plasmopause

RT plasmasphere

**MAGNETOTELLURIC SURVEYS**

INIS: 1979-02-21; ETDE: 1976-04-19

*The measurement of natural electrical and magnetic fields of the earth.*

\*BT1 electromagnetic surveys

**MAGNETRON ION SOURCES**

2018-02-26

\*BT1 plasma ion sources

**MAGNETRONS**

\*BT1 microwave tubes

RT klystrons

RT rf systems

**MAGNETS**

1995-02-27

BT1 equipment

NT1 beam bending magnets

NT1 beam focusing magnets

NT1 electromagnets

NT2 superconducting magnets

NT1 kicker magnets

NT1 permanent magnets

NT1 septum magnets

NT1 wiggler magnets

RT demagnetization

RT electromagnetic lenses

RT magnet coils

RT magnet cores

RT magnet pole pieces

RT magnetic energy storage equipment

RT magnetism

**magnex process**

INIS: 2000-04-12; ETDE: 1980-09-04

USE desulfurization

**MAGNOLIOPHYTA**

INIS: 1991-12-16; ETDE: 1988-12-20

UF angiosperms

BT1 plants

NT1 liliopsida

NT2 allium sativum

NT2 aloe

NT2 banana plants

NT2 buckwheat

NT2 cattails

NT2 coconut palms

NT2 gramineae

NT3 bamboo

NT3 cereals

NT4 barley

NT4 maize

NT4 millet

NT4 oats

NT4 rice

NT4 rye

NT4 sorghum

NT4 wheat

NT3 reeds

NT4 sugar cane

NT3 switchgrass

NT2 liliium

NT2 oil palms

NT2 onions

NT3 allium cepa

NT2 tradescantia

NT2 water hyacinths

NT1 magnoliopsida

NT2 arabidopsis

NT2 beech trees

NT2 beets

NT3 sugar beets

NT2 birches

NT2 brassica

NT3 kale

NT2 buffalo gourd

NT2 cacao trees

NT2 cacti

NT2 capsicum

NT2 carnations

NT2 carrots

NT2 cassava

NT2 chenopodiaceae

NT2 chestnut trees

NT2 citrus

NT2 coffee plants

NT2 corchorus

NT3 jute

NT2 cotton plants

NT2 crepis

NT2 cucumbers

NT2 digitalis

NT2 eucalyptuses

NT2 euphorbia

NT3 castor

NT3 milkweed

NT3 rubber trees

NT4 guayule

NT4 hevea

NT2 flax plants

NT2 jatropha

NT2 jojoba

NT2 leguminosae

NT3 alfalfa

NT3 clover

NT3 glycine hispida

NT3 lens culinaris

NT3 locust trees

NT3 mesquite

NT3 phaseolus

NT3 pisum

NT3 vicia

NT3 vigna

NT2 lettuce

NT2 mangroves

NT2 maples

NT2 marihuana

NT2 meadow foam

NT2 nicotiana

NT2 oaks

NT2 olive trees

NT2 papaver somniferum

NT2 pecan trees

NT2 poplars

NT3 aspens

NT3 cottonwoods

NT2 radishes

NT2 ranunculaceae

NT2 rosaceae

NT3 strawberries

NT2 sesamum indicum

NT2 solanum

NT3 solanum tuberosum

NT2 spinach

NT2 sunflowers

NT2 sweet gums

NT2 sycamores

NT2 tea plants

NT2 willows

NT2 yams

**MAGNOLIOPSIDA**

INIS: 1996-11-13; ETDE: 1988-12-20

(TUMBLEWEEDS and the UF terms below have been valid ETDE descriptors.)

UF atropa belladonna

UF coleus

UF dicotyledons

UF rabbit brush

UF russian thistle

UF salsola kali

UF tumbleweeds

\*BT1 magnoliophyta

NT1 arabidopsis

NT1 beech trees

NT1 beets

NT2 sugar beets

NT1 birches

NT1 brassica

NT2 kale

NT1 buffalo gourd

NT1 cacao trees

NT1 cacti

NT1 capsicum

NT1 carnations

NT1 carrots

NT1 cassava

NT1 chenopodiaceae

NT1 chestnut trees

NT1 citrus

NT1 coffee plants

NT1 corchorus

NT2 jute

NT1 cotton plants

NT1 crepis

NT1 cucumbers

NT1 digitalis

NT1 eucalyptuses

NT1 euphorbia

NT2 castor

NT2 milkweed

NT2 rubber trees

NT3 guayule

NT3 hevea

NT1 flax plants

NT1 jatropha

NT1 jojoba

NT1 leguminosae

NT2 alfalfa

NT2 clover

NT2 glycine hispida

NT2 lens culinaris

NT2 locust trees

NT2 mesquite

NT2 phaseolus

NT2 pisum

NT2 vicia

NT2 vigna

NT1 lettuce

NT1 mangroves

NT1 maples

NT1 marihuana

NT1 meadow foam

NT1 nicotiana

NT1 oaks

NT1 olive trees

NT1 papaver somniferum

NT1 pecan trees

NT1 poplars

NT2 aspens

NT2 cottonwoods

NT1 radishes

NT1 ranunculaceae

NT1 rosaceae

NT2 strawberries

NT1 sesamum indicum  
 NT1 solanum  
 NT2 solanum tuberosum  
 NT1 spinach  
 NT1 sunflowers  
 NT1 sweet gums  
 NT1 sycamores  
 NT1 tea plants  
 NT1 willows  
 NT1 yams

**MAGNONS**

BT1 quasi particles  
 RT spin waves

**MAGNOX**

\*BT1 magnesium base alloys  
 RT magnox type reactors

**MAGNOX TYPE REACTORS**

\*BT1 gcr type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 power reactors  
 NT1 berkeley reactor  
 NT1 bradwell reactor  
 NT1 calder hall a-1 reactor  
 NT1 calder hall a-2 reactor  
 NT1 calder hall b-3 reactor  
 NT1 calder hall b-4 reactor  
 NT1 chapelcross-1 reactor  
 NT1 chapelcross-2 reactor  
 NT1 chapelcross-3 reactor  
 NT1 chapelcross-4 reactor  
 NT1 dungeness-a reactor  
 NT1 hinkley point-a reactor  
 NT1 hunterston-a reactor  
 NT1 latina reactor  
 NT1 oldbury-a reactor  
 NT1 sizewell-a reactor  
 NT1 tokai-mura reactor  
 NT1 trawsfynydd reactor  
 NT1 wylfa reactor  
 RT carbon dioxide cooled reactors  
 RT magnox

**mahogany trees**

USE trees

**MAHOGANY ZONE**

2000-04-12

\*BT1 colorado  
 \*BT1 green river formation  
 RT oil shales

**MAIN SEQUENCE STARS**

BT1 stars  
 NT1 carbon stars  
 NT1 sun  
 NT1 wolf-rayet stars  
 RT cno cycle  
 RT hydrogen burning

**MAINE**

\*BT1 usa  
 RT kennebec river  
 RT us east coast

**MAINE YANKEE REACTOR**

Maine Yankee Atomic Power Co., Wiscasset, Maine, USA. Shut down in 1996.

UF atomic power company main yankee  
 UF yankee maine reactor  
 \*BT1 pwr type reactors

**MAINTENANCE**

NT1 reactor maintenance  
 RT maintenance facilities  
 RT modifications  
 RT operation  
 RT outages  
 RT repair

**MAINTENANCE FACILITIES**

INIS: 1999-08-04; ETDE: 1981-01-09  
 UF facilities (maintenance)  
 UF puget sound naval shipyard  
 RT energy facilities  
 RT maintenance  
 RT nuclear facilities  
 RT storage facilities  
 RT terminal facilities

**mainz triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-03-28  
 USE triga-2-mainz reactor

**MAITLANDITE**

2000-04-12

\*BT1 silicate minerals  
 \*BT1 thorium minerals  
 RT thorium silicates

**MAIZE**

UF corn (maize)  
 UF corn stover  
 UF zea mays  
 \*BT1 cereals  
 RT cellulosic ethanol  
 RT zein

**maize oil**

USE corn oil

**MAJORANA EQUATION**

2016-05-10

SF majorana theory  
 \*BT1 wave equations  
 RT dirac equation  
 RT majorana fermions  
 RT majorana spinors

**MAJORANA FERMIONS**

2016-05-10

SF majorana theory  
 BT1 fermions  
 RT antiparticles  
 RT majorana equation  
 RT majorana spinors

**MAJORANA SPINORS**

2016-05-10

SF majorana theory  
 BT1 spinors  
 RT majorana equation  
 RT majorana fermions  
 RT neutrinoless double beta decay  
 RT neutrinos  
 RT superconductivity

**majorana theory**

2016-05-10

(prior to may 2016 this was a valid descriptor.)

SEE majorana equation  
 SEE majorana fermions  
 SEE majorana spinors

**MAJORANA-WEYL SPINORS**

2016-05-10

BT1 spinors

**MAJORONS**

2013-11-07

\*BT1 goldstone bosons

**maki parameter**

USE ginzburg-landau theory

**MALAGASY REPUBLIC**

INIS: 1992-06-04; ETDE: 1979-12-10

\*BT1 madagascar

**MALARIA**

\*BT1 parasitic diseases

RT hemic diseases  
 RT mosquitoes  
 RT plasmodium

**MALATHION**

\*BT1 carboxylic acid esters  
 \*BT1 insecticides  
 \*BT1 organic oxygen compounds  
 \*BT1 organic phosphorus compounds  
 \*BT1 thiols

**MALAWI**

BT1 africa  
 BT1 developing countries

**malaya**

USE malaysia

**MALAYSIA**

UF federation of malaya  
 UF malaya  
 BT1 asia  
 BT1 developing countries

**malaysian institute for nuclear energy research**

INIS: 2001-10-30; ETDE: 2002-03-28  
 USE mint

**MALAYSIAN ORGANIZATIONS**

1984-12-04

BT1 national organizations  
 NT1 mint  
 NT1 puspati

**MALDIVES**

2008-05-23

BT1 asia  
 BT1 developing countries  
 BT1 islands  
 RT indian ocean

**MALE GENITALS**

UF genitals (male)  
 UF seminal vesicles  
 \*BT1 organs  
 NT1 prostate  
 NT1 testes  
 RT fertility  
 RT gonads  
 RT reproduction  
 RT sex  
 RT urogenital system diseases

**MALEIC ACID**

UF maleinic acid  
 \*BT1 dicarboxylic acids

**maleinic acid**

USE maleic acid

**MALES**

NT1 men  
 RT animals  
 RT sex  
 RT sex dependence

**MALFORMATIONS**

UF abnormalities (developmental)  
 UF hydrocephalus  
 UF microcephaly  
 BT1 pathological changes  
 NT1 congenital malformations  
 NT2 downs syndrome

**MALI**

INIS: 1976-07-06; ETDE: 1976-08-24

BT1 africa  
 BT1 developing countries  
 RT niger river



**MALIBU-1 REACTOR**

2000-04-12

Los Angeles Dept. of Water and Power, USA.  
Canceled in 1972 before construction began.

UF corral canyon nuclear power reactor-1

\*BT1 pwr type reactors

**MALIC ACID**

UF hydroxysuccinic acid

\*BT1 hydroxy acids

**malignancies**

INIS: 2000-04-12; ETDE: 1981-01-30

USE neoplasms

**malnutrition**

USE nutritional deficiency

**MALONIC ACID**

\*BT1 dicarboxylic acids

**MALTA**

INIS: 1995-04-03; ETDE: 1979-12-10

BT1 islands

\*BT1 western europe

RT mediterranean sea

**MALTOSE**

\*BT1 disaccharides

**MAMMALS**

1996-11-13

(Prior to July 1996 PIKAS was a valid ETDE descriptor.)

UF cony

UF manatees

UF pikas

\*BT1 vertebrates

NT1 bats

NT1 bears

NT1 burros

NT1 cats

NT1 cetaceans

NT1 coyotes

NT1 dogs

NT2 beagles

NT1 foxes

NT1 horses

NT1 marsupials

NT1 otters

NT1 pinnipeds

NT1 primates

NT2 apes

NT2 man

NT3 children

NT4 infants

NT3 elderly people

NT3 men

NT3 women

NT2 monkeys

NT3 baboons

NT3 macacus

NT1 rabbits

NT1 rodents

NT2 gerbils

NT2 guinea pigs

NT2 hamsters

NT2 mice

NT3 transgenic mice

NT2 prairie dogs

NT2 rats

NT2 squirrels

NT2 voles

NT1 ruminants

NT2 buffalo

NT2 camels

NT2 cattle

NT3 calves

NT3 cows

NT2 deer

NT2 goats

NT2 llamas

NT2 sheep

NT1 shrews

NT1 swine

NT2 miniature swine

NT1 wolves

**MAMMARY GLANDS**

UF breasts

\*BT1 glands

RT chest

RT lactation

RT lth

RT milk

**MAN**

1997-06-17

All of mankind, of any age or of either sex.

\*BT1 primates

NT1 children

NT2 infants

NT1 elderly people

NT1 men

NT1 women

RT adolescents

RT adults

RT age groups

RT aged adults

RT anthropology

RT human populations

RT patients

RT personnel

RT reference man

RT sociology

**MAN-MACHINE SYSTEMS**

INIS: 1983-02-04; ETDE: 1982-06-07

People, machines and the processes by which they interact.

RT automation

RT communications

RT control rooms

RT control systems

RT cybernetics

RT display devices

RT graphical user interface

RT human factors

RT human factors engineering

RT mto model

RT personnel

RT remote handling

RT systems analysis

**man-technology-organization model**

2013-04-29

USE mto model

**MANAGEMENT**

(From September 1982 till March 1997

OPERATIONS RESEARCH was a valid

ETDE descriptor. From June 1981 till January

1995 SENIOR EXECUTIVE SERVICE was a valid ETDE descriptor.)

UF administration

SF operations research

SF senior executive service

NT1 accident management

NT1 data base management

NT1 energy management

NT1 knowledge management

NT2 knowledge preservation

NT1 load management

NT1 nuclear materials management

NT2 fuel management

NT1 personnel management

NT1 program management

NT2 contract management

NT1 property management

NT1 quality management

NT2 quality assurance

NT1 records management

NT1 resource management

NT1 waste management

NT2 nonradioactive waste management

NT3 nonradioactive waste disposal

NT2 radioactive waste management

NT3 radioactive waste disposal

NT3 radioactive waste processing

NT4 harvest process

NT3 radioactive waste storage

NT4 monitored retrievable storage

NT2 waste disposal

NT3 ground disposal

NT3 ground release

NT3 marine disposal

NT3 nonradioactive waste disposal

NT3 radioactive waste disposal

NT3 sanitary landfills

NT3 stack disposal

NT3 underground disposal

NT2 waste processing

NT3 activated sludge process

NT3 composting

NT3 fluidized bed refuse gasification

NT3 landgard pyrolysis system

NT3 lime-soda sinter process

NT3 materials recovery

NT3 molten salt waste gasification process

NT3 occidental flash pyrolysis process

NT3 purox pyrolysis process

NT3 radioactive waste processing

NT4 harvest process

NT3 slagging pyrolysis process

NT3 steam stripping

NT3 syngas process

NT3 unisulf process

NT3 wet oxidation processes

NT2 waste retrieval

NT2 waste storage

NT3 radioactive waste storage

NT4 monitored retrievable storage

NT2 waste transportation

RT accounting

RT allocations

RT audits

RT delphi method

RT forecasting

RT labor relations

RT organizational models

RT personnel

RT public relations

RT rangelands

RT regional cooperation

RT schedules

RT time delay

**manatees**

INIS: 1997-01-28; ETDE: 1979-03-29

(Until October 1996 this was a valid descriptor.)

USE aquatic organisms

USE mammals

**manaurite 36x**

INIS: 1997-01-28; ETDE: 1979-08-09

(Until October 1996 this was a valid descriptor.)

USE iron base alloys

**manaurite 900**

INIS: 1997-01-28; ETDE: 1979-08-09

(Until October 1996 this was a valid descriptor.)

USE chromium alloys

USE iron base alloys

USE nickel alloys

**MANCHE PLANT**

*INIS: 1993-04-19; ETDE: 1993-07-06*

\*BT1 radioactive waste facilities

***manchester liverpool university  
research reactor***

*1993-11-09*

USE urr reactor

**MANDELIC ACID**

*UF amygdalic acid*

\*BT1 hydroxy acids

**MANDELSTAM REPRESENTATION**

*1996-07-18*

(Prior to March 1997 KHURI

REPRESENTATION was a valid ETDE  
descriptor.)

*SF khuri representation*

*RT dispersion relations*

*RT s channel*

*RT t channel*

*RT u channel*

**mandible**

*INIS: 1984-04-04; ETDE: 2002-03-28*

USE jaw

**MANDREL OPERATION**

*INIS: 2000-04-12; ETDE: 1979-11-23*

\*BT1 nuclear explosions

\*BT1 underground explosions

*RT contained explosions*

**MANGANATES**

*Specific compounds should be indexed by  
coordination of a descriptor of the form  
(CATION) COMPOUNDS and the above  
anion descriptor.*

\*BT1 manganese compounds

BT1 oxygen compounds

*RT manganese oxides*

**MANGANESE**

*1996-06-28*

(Prior to July 1996 MANGANESE-BETA and  
MANGANESE-GAMMA were valid ETDE  
descriptors.)

*UF manganese-beta*

\*BT1 transition elements

**NT1** manganese-alpha

**MANGANESE 44**

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-odd nuclei

**MANGANESE 45**

*2007-02-15*

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 nanoseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

**MANGANESE 46**

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-odd nuclei

**MANGANESE 47**

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-even nuclei

**MANGANESE 48**

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**MANGANESE 49**

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**MANGANESE 50**

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**MANGANESE 51**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**MANGANESE 51 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**MANGANESE 52**

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**MANGANESE 52 TARGET**

*INIS: 1992-09-23; ETDE: 1979-06-06*

BT1 targets

**MANGANESE 53**

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-even nuclei

\*BT1 years living radioisotopes

**MANGANESE 53 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**MANGANESE 54**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-odd nuclei

**MANGANESE 54 TARGET**

*INIS: 1979-09-18; ETDE: 1977-04-12*

BT1 targets

**MANGANESE 55**

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-even nuclei

\*BT1 stable isotopes

**MANGANESE 55 REACTIONS**

*1984-11-30*

\*BT1 heavy ion reactions

**MANGANESE 55 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**MANGANESE 56**

\*BT1 beta-minus decay radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-odd nuclei

**MANGANESE 57**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**MANGANESE 58**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**MANGANESE 59**

*INIS: 1976-11-08; ETDE: 1976-09-15*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**MANGANESE 60**

*INIS: 1978-07-03; ETDE: 1978-04-06*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 manganese isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**MANGANESE 61**

*1980-11-07*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**MANGANESE 62**

*1982-06-09*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**MANGANESE 63**

*INIS: 1986-01-21; ETDE: 1986-02-21*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**MANGANESE 64**

*INIS: 1986-08-19; ETDE: 1986-09-05*

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-odd nuclei

**MANGANESE 65**

*INIS: 1986-08-19; ETDE: 1986-09-05*

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-even nuclei

**MANGANESE 66**

*2007-02-15*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**MANGANESE 67**

*2007-02-15*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

### MANGANESE 68

2007-02-15

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

### MANGANESE 69

2007-02-15

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

### MANGANESE 70

2009-06-02

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 odd-odd nuclei

### MANGANESE ADDITIONS

1996-11-13

*Alloys containing not more than 1% Mn are listed here.*

\*BT1 manganese alloys  
 NT1 alloy-al95cu4  
 NT2 duralumin  
 NT1 alloy-fe40ni35cr22  
 NT1 alloy-fe53ni29co18  
 NT2 kovar  
 NT1 alloy-hs-31  
 NT1 alloy-n28t3  
 NT1 alloy-ni66cu32  
 NT2 monel 400  
 NT1 alloy-ni78cr21  
 NT1 alloy-v-36  
 NT1 ascology  
 NT1 bondur  
 NT1 discaloy  
 NT1 duranickel  
 NT1 duriron  
 NT1 magnesium alloy-az31b  
 NT1 miduale  
 NT1 ni-hard  
 NT1 steel-cr16ni9mo2

### MANGANESE ALLOYS

1996-11-13

*Alloys containing more than 1% Mn.*

UF steel-40k14g18f  
 UF steel-40kh13n8g8  
 UF steel-cr13mn8ni8  
 \*BT1 transition element alloys  
 NT1 alloy-co43cr20fe18ni13w3  
 NT2 havar  
 NT1 alloy-mo-re-1  
 NT1 alloy-ni73cr20mn3nb3  
 NT2 inconel 82  
 NT1 alloy-ni94mn3al2  
 NT2 alumel  
 NT1 alloy-s-816  
 NT1 heusler alloys  
 NT1 manganese additions  
 NT2 alloy-al95cu4  
 NT3 duralumin  
 NT2 alloy-fe40ni35cr22  
 NT2 alloy-fe53ni29co18  
 NT3 kovar  
 NT2 alloy-hs-31  
 NT2 alloy-n28t3  
 NT2 alloy-ni66cu32  
 NT3 monel 400  
 NT2 alloy-ni78cr21  
 NT2 alloy-v-36  
 NT2 ascology  
 NT2 bondur

NT2 discaloy  
 NT2 duranickel  
 NT2 duriron  
 NT2 magnesium alloy-az31b  
 NT2 miduale  
 NT2 ni-hard  
 NT2 steel-cr16ni9mo2  
 NT1 manganese base alloys  
 NT1 manganese steels  
 NT1 manganin  
 NT1 stainless steel-zend17-13  
 NT1 steel-cr21mn9ni6  
 NT2 stainless steel-21-6-9  
 NT1 steel-mncumo  
 NT2 steel-astm-a537  
 NT1 steel-mnmo  
 NT2 steel-astm-a302  
 NT1 steel-mnnimo  
 NT2 steel-astm-a533-b  
 NT1 steel-mnnimov

### MANGANESE-ALPHA

\*BT1 manganese

### MANGANESE ARSENIDES

INIS: 1976-11-08; ETDE: 1976-12-16

\*BT1 arsenides  
 \*BT1 manganese compounds

### MANGANESE BASE ALLOYS

\*BT1 manganese alloys

### manganese-beta

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE manganese

### MANGANESE BORIDES

\*BT1 borides  
 \*BT1 manganese compounds

### MANGANESE BROMIDES

\*BT1 bromides  
 \*BT1 manganese halides

### MANGANESE CARBIDES

\*BT1 carbides  
 \*BT1 manganese compounds

### MANGANESE CARBONATES

\*BT1 carbonates  
 \*BT1 manganese compounds  
 RT ankerite  
 RT carbonate minerals

### MANGANESE CHLORIDES

\*BT1 chlorides  
 \*BT1 manganese halides

### MANGANESE COMPLEXES

\*BT1 transition element complexes

### MANGANESE COMPOUNDS

1996-07-18

BT1 transition element compounds  
 NT1 manganates  
 NT1 manganese arsenides  
 NT1 manganese borides  
 NT1 manganese carbides  
 NT1 manganese carbonates  
 NT1 manganese halides  
 NT2 manganese bromides  
 NT2 manganese chlorides  
 NT2 manganese fluorides  
 NT2 manganese iodides  
 NT1 manganese hydrides  
 NT1 manganese hydroxides  
 NT1 manganese nitrates  
 NT1 manganese nitrides  
 NT1 manganese oxides  
 NT1 manganese perchlorates  
 NT1 manganese phosphates  
 NT1 manganese phosphides

NT1 manganese selenides  
 NT1 manganese silicates  
 NT1 manganese silicides  
 NT1 manganese sulfates  
 NT1 manganese sulfides  
 NT1 manganese tellurides  
 NT1 manganese tungstates  
 NT1 permanganates

### MANGANESE FLUORIDES

\*BT1 fluorides  
 \*BT1 manganese halides

### MANGANESE HALIDES

INIS: 1991-09-16; ETDE: 1975-07-29

\*BT1 halides  
 \*BT1 manganese compounds  
 NT1 manganese bromides  
 NT1 manganese chlorides  
 NT1 manganese fluorides  
 NT1 manganese iodides

### MANGANESE HYDRIDES

INIS: 1977-10-17; ETDE: 1976-04-19

\*BT1 hydrides  
 \*BT1 manganese compounds

### MANGANESE HYDROXIDES

\*BT1 hydroxides  
 \*BT1 manganese compounds

### MANGANESE IODIDES

\*BT1 iodides  
 \*BT1 manganese halides

### MANGANESE IONS

\*BT1 ions

### MANGANESE ISOTOPES

1999-07-16

BT1 isotopes  
 NT1 manganese 44  
 NT1 manganese 45  
 NT1 manganese 46  
 NT1 manganese 47  
 NT1 manganese 48  
 NT1 manganese 49  
 NT1 manganese 50  
 NT1 manganese 51  
 NT1 manganese 52  
 NT1 manganese 53  
 NT1 manganese 54  
 NT1 manganese 55  
 NT1 manganese 56  
 NT1 manganese 57  
 NT1 manganese 58  
 NT1 manganese 59  
 NT1 manganese 60  
 NT1 manganese 61  
 NT1 manganese 62  
 NT1 manganese 63  
 NT1 manganese 64  
 NT1 manganese 65  
 NT1 manganese 66  
 NT1 manganese 67  
 NT1 manganese 68  
 NT1 manganese 69  
 NT1 manganese 70

### MANGANESE NITRATES

\*BT1 manganese compounds  
 \*BT1 nitrates

### MANGANESE NITRIDES

\*BT1 manganese compounds  
 \*BT1 nitrides

### manganese nodules

USE manganese ores

### MANGANESE ORES

UF manganese nodules  
 BT1 ores

**MANGANESE OXIDES**

- \*BT1 manganese compounds
- \*BT1 oxides
- RT manganates
- RT oxide minerals
- RT permanganates
- RT tantalite

**MANGANESE PERCHLORATES**

- 1996-07-18  
(From July 1996 to November 2007  
MANGANESE COMPOUNDS +  
PERCHLORATES was used for this concept.)
- \*BT1 manganese compounds
  - \*BT1 perchlorates

**MANGANESE PHOSPHATES**

- \*BT1 manganese compounds
- \*BT1 phosphates

**MANGANESE PHOSPHIDES**

- INIS: 1980-11-07; ETDE: 1976-03-11
- \*BT1 manganese compounds
  - \*BT1 phosphides

**MANGANESE SELENIDES**

- INIS: 1979-04-27; ETDE: 1978-11-14
- \*BT1 manganese compounds
  - \*BT1 selenides

**MANGANESE SILICATES**

- \*BT1 manganese compounds
- \*BT1 silicates
- RT helvite
- RT silicate minerals

**MANGANESE SILICIDES**

- INIS: 1977-01-26; ETDE: 1976-07-07
- \*BT1 manganese compounds
  - \*BT1 silicides

**MANGANESE STEELS**

- INIS: 1996-11-13; ETDE: 1982-11-08  
(STEEL-20M5 and STEEL VNT have been  
valid ETDE descriptors.)
- UF steel-20m5
  - UF steel vnt
  - UF vnt alloys
  - \*BT1 manganese alloys
  - \*BT1 steels

**MANGANESE SULFATES**

- \*BT1 manganese compounds
- \*BT1 sulfates

**MANGANESE SULFIDES**

- \*BT1 manganese compounds
- \*BT1 sulfides

**MANGANESE TELLURIDES**

- 1978-11-24
- \*BT1 manganese compounds
  - \*BT1 tellurides

**MANGANESE TUNGSTATES**

- INIS: 1979-09-18; ETDE: 1979-10-23
- \*BT1 manganese compounds
  - \*BT1 tungstates

**MANGANIN**

- 2000-04-12
- \*BT1 copper base alloys
  - \*BT1 manganese alloys
  - \*BT1 nickel alloys

**MANGOES**

- \*BT1 fruits

**MANGROVES**

- INIS: 1992-01-09; ETDE: 1975-11-28
- \*BT1 magnoliopsida
  - \*BT1 trees

**MANHATTAN PROJECT**

- RT nuclear weapons

**maniac computers**

- 1996-06-28  
(Until June 1996 this was a valid descriptor.)
- USE computers

**manioc**

- INIS: 2000-04-12; ETDE: 1978-11-14
- USE cassava

**MANIPULATORS**

- \*BT1 laboratory equipment
- \*BT1 remote handling equipment
- RT distance
- RT hands
- RT hot cells
- RT hot labs
- RT remote handling
- RT shielding
- RT underwater facilities
- RT underwater operations

**MANITOBA**

- \*BT1 canada
- RT williston basin

**MANIVIER CANAL**

- 2004-12-15
- UF canal manivier
  - \*BT1 inland waterways
  - RT bohunice radioactive waste  
processing center
  - RT slovakia

**mannomustine**

- USE alkylating agents

**MANNOSE**

- \*BT1 aldehydes
- \*BT1 hexoses

**manometers**

- USE pressure gages

**MANPOWER**

- INIS: 1996-05-15; ETDE: 1976-01-23  
(Until May 1996 this concept was indexed by  
PERSONNEL.)
- SF labor
  - RT employment
  - RT occupations
  - RT personnel
  - RT training

**MANUALS**

- Should be used to index all pieces of literature  
which are manuals.
- UF handbooks
  - BT1 document types
  - RT computer program documentation
  - RT education
  - RT information
  - RT recommendations

**manufactured buildings**

- INIS: 2000-04-12; ETDE: 1982-01-07
- USE prefabricated buildings

**MANUFACTURERS**

- INIS: 1992-03-30; ETDE: 1978-11-14
- RT commercialization
  - RT industry

**MANUFACTURING**

- INIS: 1992-04-14; ETDE: 1976-10-13  
Large-scale commercial fabrication; for  
fabrication of single systems or components  
use FABRICATION.
- NT1 computer-aided manufacturing
  - RT fabrication

- RT industry
- RT machinery
- RT production

**manufacturing facilities**

- INIS: 2000-04-12; ETDE: 1981-01-09
- USE industrial plants

**MANURES**

- 1991-12-11
- \*BT1 agricultural wastes
  - \*BT1 biological wastes

**MANY-BODY PROBLEM**

- 1996-04-16
- NT1 four-body problem
  - NT1 three-body problem
  - NT1 two-body problem
  - RT bethe-goldstone equation
  - RT density functional method
  - RT fsc approximation
  - RT goldstone diagrams
  - RT martin-schwinger theory
  - RT mean-field theory
  - RT molecular dynamics method
  - RT multiple scattering
  - RT percus-yevick equation
  - RT quantum monte carlo method
  - RT quasi particles
  - RT unitary pole approximation
  - RT van hove-hugenholtz theory
  - RT wick theorem

**MANY-DIMENSIONAL  
CALCULATIONS**

- More than four dimensions.
- UF calculations (many dimensions)
  - UF five-dimensional calculations
  - RT four-dimensional calculations
  - RT mathematics
  - RT three-dimensional calculations
  - RT two-dimensional calculations

**MANY-NUCLEON TRANSFER  
REACTIONS**

- More than four nucleons transferred.
- \*BT1 multi-nucleon transfer reactions

**MAPLE REACTOR**

- 2000-04-12  
Multipurpose Applied Physics Lattice  
Experimental Reactor. Permanent shutdown  
since 2008.
- \*BT1 enriched uranium reactors
  - \*BT1 heavy water moderated reactors
  - \*BT1 research and test reactors
  - \*BT1 water cooled reactors
  - \*BT1 water moderated reactors

**MAPLE TYPE REACTORS**

- INIS: 1991-12-11; ETDE: 1992-06-22  
Multipurpose Applied Physics Lattice  
Experimental Reactor.  
(Prior to January 1992, this information was  
indexed by MAPLE REACTOR.)
- UF multipurpose applied physics lattice  
reactor
  - \*BT1 enriched uranium reactors
  - \*BT1 heavy water moderated reactors
  - \*BT1 research and test reactors
  - \*BT1 water cooled reactors
  - \*BT1 water moderated reactors

**MAPLES**

- INIS: 1992-01-09; ETDE: 1979-03-27
- \*BT1 magnoliopsida
  - \*BT1 trees

**MAPPING**

- INIS: 1992-03-09; ETDE: 1978-10-23
- NT1 genetic mapping
  - NT1 topological mapping

**NT2** conformal mapping  
 RT geometry  
 RT maps

**mapping (topological)**

USE topological mapping

**MAPPING FIBRATION**

UF fibration (topological maps)  
 RT differential topology  
 RT topological mapping

**MAPS**

RT diagrams  
 RT mapping  
 RT topography

**maps-1 reactor**

2018-01-26  
 USE kalpakkam-1 reactor

**maps-2 reactor**

2018-01-26  
 USE kalpakkam-2 reactor

**mar-250 alloy**

INIS: 1979-05-28; ETDE: 1979-03-05  
 USE maraging steels

**MAR-M509 ALLOYS**

INIS: 2000-04-12; ETDE: 1979-01-30  
 UF xc-224  
 UF xc-224fe  
 \*BT1 cobalt base alloys

**MARAGING STEELS**

INIS: 1979-05-28; ETDE: 1979-03-05  
 Strong tough low-carbon martensitic steels which contain up to 25% nickel and in which hardening precipitates are formed by aging.  
 UF mar-250 alloy  
 \*BT1 martensitic steels  
 RT martensite

**MARBLE**

INIS: 1976-02-05; ETDE: 1975-10-28  
 \*BT1 metamorphic rocks  
 RT calcium carbonates

**MARBLE HILL-1 REACTOR**

INIS: 1976-05-07; ETDE: 1975-11-28  
 Public Service of Indiana, Madison, Indiana, USA. Canceled in 1985 before construction began.  
 \*BT1 pwr type reactors

**MARBLE HILL-2 REACTOR**

INIS: 1976-05-07; ETDE: 1975-11-28  
 Public Service of Indiana, Madison, Indiana, USA. Canceled in 1985 before construction began.  
 \*BT1 pwr type reactors

**MARCASITE**

INIS: 1983-09-06; ETDE: 1979-03-28  
 \*BT1 sulfide minerals  
 RT iron sulfides  
 RT pyrite

**marcoule (cea)**

USE cea marcoule

**marcoule g-1 reactor**

USE g-1 reactor

**marcoule g-2 reactor**

USE g-2 reactor

**marcoule g-3 reactor**

USE g-3 reactor

**marcoule phenix reactor**

USE phenix reactor

**MARFE**

INIS: 1990-05-17; ETDE: 1990-06-01  
 Multifaceted Asymmetric Radiation From the Edge is the result of a radiative thermal instability caused by light impurities in a peripheral plasma.

RT plasma confinement  
 RT plasma instability  
 RT plasma sheath  
 RT stellarators  
 RT tokamak devices

**MARGINAL-COST PRICING**

INIS: 1999-12-07; ETDE: 1978-04-06  
 Pricing based on addition to total cost incurred by the producer in providing one or more units.

BT1 prices  
 RT electric power  
 RT incremental-cost pricing  
 RT load management  
 RT public utilities  
 RT rolled-in pricing

**margins**

INIS: 2000-04-12; ETDE: 1979-05-03  
 USE profits

**MARIA REACTOR**

Institute of Nuclear Research, Swierk, Poland.  
 UF swierk maria reactor  
 \*BT1 beryllium moderated reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research and test reactors  
 \*BT1 thermal reactors

**MARIANA ISLANDS**

INIS: 1992-06-09; ETDE: 1979-12-17  
 \*BT1 trust territory of the pacific islands  
 NT1 guam

**mariculture**

INIS: 1991-09-18; ETDE: 1976-03-22  
 USE aquaculture

**MARIGNACITE**

2000-04-12  
 \*BT1 oxide minerals  
 RT niobium oxides  
 RT titanium oxides  
 RT zirconium oxides

**MARIHUANA**

INIS: 1991-12-16; ETDE: 1981-05-18  
 UF marijuana  
 \*BT1 herbs  
 \*BT1 magnoliopsida  
 RT hallucinogens

**marijuana**

INIS: 1991-12-16; ETDE: 1981-05-18  
 USE marihuana

**MARINAS**

INIS: 1992-06-12; ETDE: 1977-11-09  
 RT harbors  
 RT inland waterways  
 RT seas

**MARINE DISPOSAL**

UF sea disposal  
 \*BT1 waste disposal  
 RT boom clay  
 RT lcpmpdpw  
 RT oecd mcmsdrw  
 RT radioactive waste disposal

**marine ecosystems**

USE aquatic ecosystems

**marine insurance**

USE insurance

**marine pollution prevention, london convention**

INIS: 1984-06-21; ETDE: 2002-03-27  
 USE lcpmpdpw

**MARINE RISERS**

INIS: 2000-04-12; ETDE: 1977-04-12  
 Pipes through which fluid travels in an upward direction. On offshore operations the term refers to large diameter pipes which extend from the blowout preventer stack on the sea floor to under the derrick floor of an offshore platform or to a large diameter pipe or flow line carrying gas or oil.

UF drilling risers  
 UF production risers  
 \*BT1 pipes  
 RT offshore drilling  
 RT offshore platforms

**MARINE SURVEYS**

INIS: 2000-01-24; ETDE: 1976-11-17  
 UF offshore surveys  
 SF surveys  
 RT geochemical surveys  
 RT geophysical surveys

**marine vehicle accidents**

USE accidents

**MARINER SPACE PROBES**

\*BT1 space vehicles

**marit car liab conv bruss 1971**

USE bcoclmcnm

**maritime carriage liability conv brussels 1971**

2000-04-12  
 USE bcoclmcnm

**MARITIME LAWS**

1990-12-15  
 (Prior to December 1990, this descriptor was spelled MARITIME LAW.)

BT1 laws  
 RT high seas  
 RT maritime transport  
 RT nuclear ship visits  
 RT territorial waters  
 RT transport regulations

**MARITIME TRANSPORT**

INIS: 1976-12-08; ETDE: 1977-10-20  
 BT1 transport  
 RT maritime laws  
 RT ships  
 RT tanker ships

**MARIUS REACTOR**

CEA/CEN, Cadarache, St. Paul Lez Durance, France. Decommissioned since 1987.  
 UF cadarache reactor marius  
 \*BT1 graphite moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**mark v synchrotron**

USE mura synchrotron

**MARKARIAN GALAXIES**

With abnormally strong continuum in the ultraviolet spectral region.

BT1 galaxies  
 RT cosmic radio sources

**MARKET**

*The chance to buy or sell.*

- UF market shares
- NT1 spot market
- RT business
- RT cartels
- RT commercial sector
- RT commercialization
- RT cooperatives
- RT domestic supplies
- RT economics
- RT forecasting
- RT globalization
- RT gross domestic product
- RT gross national product
- RT marketers
- RT marketing
- RT monopolies
- RT resellers
- RT retailers
- RT small businesses
- RT supply and demand
- RT trade

**market life**

- USE storage life

**market shares**

- INIS: 2000-04-12; ETDE: 1979-05-03
- USE competition
- USE market

**MARKETERS**

- INIS: 1992-04-03; ETDE: 1979-10-03
- UF buyers
- UF dealers
- UF nonbranded independent marketers
- UF refiner-marketers
- UF sellers
- NT1 resellers
- NT1 retailers
- NT2 gasoline service stations
- RT commercial sector
- RT competition
- RT industry
- RT market

**MARKETING**

- INIS: 1992-03-05; ETDE: 1979-11-23
- The aggregate of functions involved in moving goods from producer to customer.*
- UF marketing research
- SF petroleum marketing practices act
- BT1 business
- RT advertising
- RT antitrust laws
- RT market
- RT retailers
- RT sales

**marketing research**

- INIS: 1995-04-07; ETDE: 1978-01-23
- Research conducted to establish the extent and location of a market or to analyze the cost of products and processes as compared with that of alternative or competitive products or processes.*
- USE marketing

**MARKOV PROCESS**

- BT1 stochastic processes
- RT chapman-kolmogorov equation
- RT failure mode analysis

**marlex**

- 2000-04-12
- (Prior to March 1996 this was a valid ETDE descriptor.)
- USE polyethylenes

**marlite**

- INIS: 2000-04-12; ETDE: 1976-07-07
- USE marlstone

**MARLSTONE**

- INIS: 1984-04-04; ETDE: 1976-07-07
- An indurated mixture of clay materials and calcium carbonate (rarely dolomite) usually containing from 25 to 75% clays.*
- UF marlite
- RT calcium carbonates
- RT clays

**marmara sea**

- 1996-06-28
- (Until June 1996 this was a valid descriptor.)
- USE seas
- USE turkey

**marmen effect**

- 1986-08-19
- USE shape memory effect

**marmora sea**

- INIS: 2000-04-12; ETDE: 1976-05-17
- (Prior to July 1996 MARMARA SEA was a valid ETDE descriptor.)
- USE seas
- USE turkey

**MARS PLANET**

- BT1 planets

**MARS REACTOR**

- INIS: 1986-03-04; ETDE: 1983-05-21
- Mars is a major design study undertaken by Lawrence Livermore Laboratory of a 1200 mw(e) commercial tandem mirror reactor.*
- UF mirror advanced reactor study
- \*BT1 magnetic mirror type reactors
- RT minimars reactor

**MARS SPACE PROBES**

- INIS: 1978-02-23; ETDE: 1978-04-28
- \*BT1 space vehicles
- RT space flight

**marsh event**

- INIS: 2000-04-12; ETDE: 1977-06-21
- USE anvil project

**MARSHAK BOUNDARY CONDITIONS**

- UF marshak conditions
- BT1 boundary conditions
- RT angular distribution
- RT milne problem
- RT spherical harmonics method

**marshak conditions**

- USE marshak boundary conditions
- USE martin-schwinger theory

**MARSHALL ISLANDS**

- \*BT1 micronesia
- NT1 bikini
- NT1 eniwetok
- RT nuclear explosions
- RT pacific ocean

**MARSHES**

- INIS: 1992-05-08; ETDE: 1976-07-07
- Transitional land-water areas, covered at least part of the time by estuarine or coastal waters and characterized by aquatic and grasslike vegetation.*
- \*BT1 wetlands
- RT cattails
- RT surface waters
- RT swamps

**MARSUPIALS**

- UF kangaroos
- UF opossum
- UF potorous
- UF rat kangaroos
- \*BT1 mammals

**MARTENSITE**

- 1996-07-18
- \*BT1 carbon additions
- \*BT1 iron alloys
- RT austenite
- RT bainite
- RT cementite
- RT ferrite
- RT iron-alpha
- RT maraging steels
- RT martensitic steels
- RT steels

**MARTENSITIC STEELS**

- INIS: 1983-11-09; ETDE: 1989-11-06
- \*BT1 steels
- NT1 maraging steels
- NT1 steel-cr10mo2
- NT1 steel-cr12
- NT2 stainless steel-403
- NT1 steel-cr12mov
- NT2 alloy-ht-9
- NT1 steel-cr13
- NT2 stainless steel-410
- NT1 steel-cr16ni
- NT1 steel-cr17cu4ni4nb-1
- NT2 stainless steel-17-4ph
- NT1 steel-cr17mo
- NT2 stainless steel-440
- NT1 steel-cr18
- RT martensite

**martin-puff-schwinger theory**

- USE martin-schwinger theory

**MARTIN-SCHWINGER THEORY**

- UF marshak conditions
- UF martin-puff-schwinger theory
- RT many-body problem

**MARTINIQUE**

- INIS: 1992-06-04; ETDE: 1980-08-12
- \*BT1 lesser antilles

**marvel event**

- 1994-10-14
- A test made under PROJECT PLOWSHARE. (Prior to September 1994, this was a valid ETDE descriptor.)*
- USE nuclear explosions
- USE underground explosions

**MARVIKEN REACTOR**

- Plan was cancelled in 1970.*
- \*BT1 bhwr type reactors
- \*BT1 enriched uranium reactors
- \*BT1 power reactors

**MARX GENERATORS**

- INIS: 1986-01-21; ETDE: 1985-08-22
- Pulsed power devices to charge capacitors in parallel and discharge them quickly in series to produce high voltage, high power pulses used in light ion fusion and in some laser fusion systems.*
- \*BT1 high-voltage pulse generators
- \*BT1 power supplies

**MARY KATHLEEN MINES**

- \*BT1 uranium mines
- RT australia

**MARYLA REACTOR**

*Institute of Nuclear Research, Academy of Mining and Metallurgy, Cracow, Poland.*

UF polish government maryla reactor

UF swierk research reactor maryla

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 zero power reactors

**MARYLAND**

1997-06-17

UF douglas point site

\*BT1 usa

RT chesapeake bay

RT potomac river

RT potomac river basin

RT susquehanna river

RT us east coast

**maryland univ. reactor**

INIS: 1984-06-21; ETDE: 2002-03-28

USE umne-1 reactor

**MASERS**

*Microwave Amplification by Stimulated Emission of Radiation.*

SF stimulated emission devices

\*BT1 microwave amplifiers

RT gasers

RT lasers

RT microwave radiation

RT quantum electronics

RT radiation sources

RT stimulated emission

**MASKING**

INIS: 1992-02-21; ETDE: 1980-03-29

*Using a covering or coating on a semiconductor or other surface to provide a masked area for selective deposition or etching.*

SF resist

RT coatings

RT coverings

RT deposition

RT etching

RT screen printing

**masks**

USE respirators

**MASS**

NT1 critical mass

NT1 effective mass

NT1 missing mass

NT1 negative mass

NT1 rest mass

NT1 thermal mass

RT dalitz plot

RT equivalence principle

RT gravitational fields

RT linear momentum

RT mass difference

RT mass distribution

RT mass formulae

RT moment of inertia

RT weight

**mass (thermal)**

INIS: 2000-04-12; ETDE: 1978-07-05

USE thermal mass

**MASS BALANCE**

UF balance (mass)

RT confinement

RT plasma

RT plasma confinement

RT thermonuclear devices

RT thermonuclear reactors

**MASS DEFECT**

*Mass lost to binding energy.*

RT binding energy

RT nuclear forces

**MASS DIFFERENCE**

*Unexpected difference between particles of the same family, e.g., between pi plus and pi minus.*

BT1 particle properties

RT mass

**MASS DISTRIBUTION**

INIS: 1984-08-24; ETDE: 1984-10-24

*The way matter is distributed in space or throughout a body.*

\*BT1 spatial distribution

RT anisotropy

RT configuration

RT density

RT mass

RT shape

**MASS DOUBLETS**

1992-05-07

RT mass spectroscopy

**MASS FORMULAE**

NT1 okubo mass formula

RT mass

RT quantum field theory

**mass loss**

INIS: 1984-04-04; ETDE: 2002-03-28

SEE mass transfer

SEE stellar winds

**MASS NUMBER**

SF atomic weight

RT mass spectroscopy

RT weizsaecker formula

**mass radius (nuclear)**

USE nuclear radii

**mass radius (particle)**

USE particle radii

**MASS REARING**

BT1 animal breeding

BT1 rearing

RT diet

RT insects

RT nutrition

RT sterile male technique

**MASS RENORMALIZATION**

BT1 renormalization

**MASS RESOLUTION**

BT1 resolution

**MASS SPECTRA**

BT1 spectra

RT icp mass spectroscopy

**MASS SPECTROMETERS**

\*BT1 spectrometers

NT1 dynamic mass spectrometers

NT2 energy balance mass spectrometers

NT2 time-of-flight mass spectrometers

NT1 spark mass spectrometers

NT1 static mass spectrometers

RT dees

RT icp mass spectroscopy

RT mass spectroscopy

RT thermal desorption spectroscopy

**mass spectrometry**

INIS: 1975-10-23; ETDE: 2002-03-28

USE mass spectroscopy

**MASS SPECTROSCOPY**

UF mass spectrometry

UF sims

BT1 spectroscopy

NT1 icp mass spectroscopy

NT1 resonance ionization mass spectroscopy

RT mass doublets

RT mass number

RT mass spectrometers

**MASS TRANSFER**

UF transfer (mass)

SF mass loss

NT1 advection

NT1 convection

NT2 forced convection

NT2 natural convection

NT2 thermosyphon effect

NT1 environmental transport

NT2 long-range transport

NT2 radionuclide migration

NT2 runoff

NT1 piston effect

RT air-biosphere interactions

RT atom transport

RT dialysis

RT diffusion

RT energy transfer

RT fluid flow

RT lewis number

RT membrane transport

RT osmosis

**MASS TRANSIT SYSTEMS**

INIS: 1992-09-09; ETDE: 1977-11-28

SF public transportation systems

BT1 transportation systems

RT rapid transit systems

RT transport

**MASSACHUSETTS**

1997-06-17

\*BT1 usa

RT connecticut river

RT connecticut river basin

RT gulf of maine

RT us east coast

**massachusetts institute of technology**

*alcatraz*

1993-11-09

USE alcatraz device

**massachusetts institute of technology**

*reactor*

1993-11-09

USE mitr reactor

**massey-mohr equation**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE equations

**massive transfer reactions**

INIS: 1985-01-18; ETDE: 2002-03-28

USE incomplete fusion reactions

**massive vector-meson model**

USE gluon model

**MASSLESS PARTICLES**

BT1 elementary particles

NT1 gravitons

NT1 neutrinos

NT2 antineutrinos

NT3 electron antineutrinos

NT3 muon antineutrinos

NT2 atmospheric neutrinos

NT3 conventional neutrinos

NT3 prompt neutrinos

- NT2 cosmic neutrinos
- NT2 electron neutrinos
- NT3 electron antineutrinos
- NT2 geoneutrinos
- NT2 muon neutrinos
- NT3 muon antineutrinos
- NT2 reactor neutrinos
- NT2 solar neutrinos
- NT2 sterile neutrinos
- NT2 tau neutrinos
- NT1 photons
- NT2 cosmic photons
- RT quantum field theory
- RT special relativity theory

**MAST CELLS**

- UF *basophils (connective tissue)*
- \*BT1 connective tissue cells
- RT heparin

**MAST TOKAMAK**

- INIS: 1999-07-26; ETDE: 1999-09-03
- Mega Amp Spherical Tokamak, Culham, UK.*
- \*BT1 spheromak devices

**MASTER METERING**

- INIS: 2000-04-12; ETDE: 1979-10-03
- Use of a single meter to record energy consumption - either gas or electricity - for an entire multifamily residence.*
- BT1 metering
- RT electric power
- RT electric utilities
- RT gas meters
- RT gas utilities
- RT measuring methods
- RT natural gas
- RT power meters

**MASTIGOPHORA**

- INIS: 1993-07-15; ETDE: 1981-06-17
- \*BT1 protozoa
- NT1 dinoflagellate
- NT1 euglena
- NT1 trypanosoma

**MASURCA REACTOR**

- UF *cadarache maquette surgeneratic reactor*
- \*BT1 air cooled reactors
- \*BT1 enriched uranium reactors
- \*BT1 fast reactors
- \*BT1 plutonium reactors
- \*BT1 zero power reactors

**masurium**

- USE technetium

**masuyite**

- 1996-07-18
- (Until July 1996 this was a valid descriptor.)
- USE oxide minerals
- USE uranium minerals

**MATAGORDA BAY**

- INIS: 2000-04-12; ETDE: 1979-11-23
- \*BT1 bays
- RT texas

**MATERIAL BALANCE**

- SF *input-output*
- RT accounting
- RT inventories
- RT losses
- RT material unaccounted for
- RT materials
- RT shipper-receiver differences

**MATERIAL BALANCE AREA**

- RT safeguards
- RT strategic points

**MATERIAL BUCKLING**

*A form of neutron density distribution in reactors. For buckling of materials, see DEFORMATION or FAILURES.*

- BT1 buckling

**MATERIAL SUBSTITUTION**

- INIS: 1993-02-18; ETDE: 1977-12-22
- RT fuel substitution
- RT interchangeability

**MATERIAL UNACCOUNTED FOR**

- UF *muf*
- RT accounting
- RT inventories
- RT losses
- RT material balance
- RT nuclear materials management
- RT safeguards
- RT shipper-receiver differences

**MATERIALS**

- 1997-06-19
- Use of a more specific term is strongly recommended.*

- UF *molding materials*
- SF *renewable resources*

- NT1 biological materials
- NT2 biological wastes
- NT3 feces
- NT3 manures
- NT3 sewage sludge
- NT3 sweat
- NT3 urine
- NT2 body fluids
- NT3 amniotic fluid
- NT3 bile
- NT3 blood
- NT4 blood cells
- NT5 blood platelets
- NT5 erythrocytes
- NT6 reticulocytes
- NT5 leukocytes
- NT6 basophils
- NT6 eosinophils
- NT6 lymphocytes
- NT6 monocytes
- NT6 natural killer cells
- NT6 neutrophils
- NT4 blood plasma
- NT5 blood serum
- NT3 cerebrospinal fluid
- NT3 gastric acid
- NT3 lymph
- NT3 milk
- NT3 saliva
- NT3 sweat
- NT3 urine
- NT2 forest litter
- NT2 plant sap
- NT2 tissue extracts
- NT1 building materials
- NT2 adobe
- NT2 bricks
- NT2 cements
- NT3 gypsum cements
- NT3 portland cement
- NT2 concrete blocks
- NT2 concretes
- NT3 prestressed concrete
- NT3 reinforced concrete
- NT1 carbonaceous materials
- NT2 bituminous materials
- NT3 kerogen
- NT3 oil sands
- NT3 oil shales
- NT4 black shales
- NT2 coal
- NT3 black coal
- NT4 anthracite

- NT4 bituminous coal
- NT3 brown coal
- NT4 lignite
- NT3 coal fines
- NT3 high-sulfur coal
- NT3 low-sulfur coal
- NT3 sapropelic coal
- NT4 boghead coal
- NT5 torbanite
- NT4 cannel coal
- NT3 subbituminous coal
- NT1 composite materials
- NT2 cermets
- NT3 td-nickel
- NT3 td-nickel chromium
- NT2 concrete-plastic composites
- NT2 fiberglass
- NT2 prestressed concrete
- NT2 reinforced concrete
- NT2 superconducting composites
- NT2 wood-plastic composites
- NT1 dielectric materials
- NT2 antiferroelectric materials
- NT2 electrets
- NT2 ferroelectric materials
- NT1 doped materials
- NT1 environmental materials
- NT1 fertile materials
- NT1 fissionable materials
- NT2 fissile materials
- NT1 glazing materials
- NT1 granular materials
- NT1 hazardous materials
- NT2 toxic materials
- NT3 toxins
- NT4 endotoxins
- NT4 mycotoxins
- NT5 aflatoxins
- NT1 heat resistant materials
- NT2 heat resisting alloys
- NT3 alloy-co36cr22ni22w15fe3
- NT4 haynes 188 alloy
- NT3 alloy-co54cr20w15ni10
- NT4 alloy-hs-25
- NT4 haynes 25 alloy
- NT3 alloy-co60cr30w4
- NT4 stellite 6
- NT3 alloy-d-979
- NT3 alloy-fe44ni33cr21
- NT4 incoloy 800h
- NT3 alloy-fe46ni33cr21
- NT4 incoloy 800
- NT4 incoloy 802
- NT3 alloy-mo99
- NT4 alloy-tzm
- NT4 alloy-zm-2a
- NT3 alloy-n-10m
- NT3 alloy-n-9m
- NT3 alloy-ni41fe40cr16nb3
- NT4 inconel 706
- NT3 alloy-ni43fe30cr22mo3
- NT4 incoloy 825
- NT3 alloy-ni43fe33cr16mo3
- NT4 nimonic pe16
- NT3 alloy-ni46cr23co19ti5al4
- NT4 alloy-in-939
- NT3 alloy-ni49cr22fe18mo9
- NT4 hastelloy x
- NT3 alloy-ni50co20cr15al5mo5
- NT4 nimonic 105
- NT3 alloy-ni50cr22fe18mo9
- NT4 hastelloy xr
- NT3 alloy-ni50mo32cr15si3
- NT3 alloy-ni51cr48
- NT4 inconel 671
- NT3 alloy-ni53cr19fe19nb5mo3
- NT4 inconel 718
- NT3 alloy-ni54cr22co13mo9
- NT4 inconel 617



- NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni60fe24cr16  
**NT4** nichrome  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni65cr25mo10  
**NT4** nimonic 86  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-nt25a5  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** alloy-zr97nb3  
**NT3** alloy-zr98sn-2  
**NT4** zircaloy 2  
**NT3** alloy-zr98sn-4  
**NT4** zircaloy 4  
**NT3** enduro  
**NT3** incoloy 901  
**NT3** rene 80  
**NT3** rene 95  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12moniv  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cr15ni15motib  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr16ni  
**NT3** steel-cr16ni13monbv  
**NT3** steel-cr16ni15mo3nb  
**NT3** steel-cr16ni16monb  
**NT3** steel-cr16ni8mo2  
**NT4** stainless steel-16-8-2  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr17ni12mo3  
**NT4** stainless steel-316  
**NT3** steel-cr17ni12mo3-l  
**NT4** stainless steel-316l  
**NT4** stainless steel-zcnd17-13  
**NT3** steel-cr17ni12monb  
**NT3** steel-cr17ni13  
**NT3** steel-cr17ni13mo2ti  
**NT3** steel-cr17ni13mo3ti  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr17ni7  
**NT4** stainless steel-301  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr18ni10-l  
**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni11  
**NT4** steel-x6crni1811  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT3** steel-cr18ni12  
**NT4** stainless steel-305  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni8  
**NT4** stainless steel-18-8  
**NT3** steel-cr18ni9  
**NT4** stainless steel-302  
**NT3** steel-cr18ni9ti  
**NT3** steel-cr19ni10  
**NT4** stainless steel-304  
**NT3** steel-cr19ni10-l  
**NT4** stainless steel-304l  
**NT3** steel-cr20ni11  
**NT4** stainless steel-308  
**NT3** steel-cr20ni11-l  
**NT4** stainless steel-308l  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr23ni14  
**NT4** stainless steel-309  
**NT4** stainless steel-309s  
**NT3** steel-cr23ni18  
**NT3** steel-cr25  
**NT4** stainless steel-446  
**NT3** steel-cr25ni20  
**NT4** alloy-hk-40  
**NT4** stainless steel-310  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni26cr15ti2movalb  
**NT4** alloy-a-286  
**NT3** steel-nimocr  
**NT3** tophet  
**NT3** tribaloy 800  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT1** ion exchange materials  
**NT2** inorganic ion exchangers  
**NT3** bentonite  
**NT3** montmorillonite  
**NT3** mullite  
**NT3** vermiculite  
**NT3** zeolites  
**NT4** clinoptilolite  
**NT4** faujasite  
**NT4** heulandite  
**NT4** laumontite  
**NT4** mordenite  
**NT4** wairakite  
**NT2** liquid ion exchangers  
**NT2** mixed bed ion exchangers  
**NT2** organic ion exchangers  
**NT3** polystyrene-dvb  
**NT1** isotope enriched materials  
**NT2** enriched uranium  
**NT3** highly enriched uranium  
**NT3** moderately enriched uranium  
**NT3** slightly enriched uranium  
**NT1** laser materials  
**NT1** lunar materials  
**NT1** magnetic materials  
**NT2** antiferromagnetic materials  
**NT2** ferrimagnetic materials  
**NT3** ferrites  
**NT2** ferromagnetic materials  
**NT1** matrix materials  
**NT1** metamaterials  
**NT1** nanomaterials  
**NT2** nanocomposites  
**NT1** phase change materials  
**NT1** photochromic materials  
**NT1** porous materials  
**NT1** potting materials  
**NT1** radioactive materials  
**NT2** fission products  
**NT2** radioactive minerals  
**NT3** baddeleyite  
**NT3** corvusite  
**NT3** fersmite  
**NT3** kainosite  
**NT3** melanovanadite  
**NT3** pascoite  
**NT3** rutile  
**NT3** thorium minerals  
**NT4** allanite  
**NT4** bastnaesite  
**NT4** brannerite  
**NT4** ekanite  
**NT4** freyalite  
**NT4** hydrothorite  
**NT4** lodochnikite  
**NT4** lyndochite  
**NT4** mackintoshite  
**NT4** mailandite  
**NT4** monazites  
**NT4** naegite  
**NT4** thorianite  
**NT4** thorite  
**NT5** jiningite  
**NT4** thucholite  
**NT4** uranothorite  
**NT3** uranium minerals  
**NT4** autunite  
**NT4** bassetite  
**NT4** becquerelite  
**NT4** billietite  
**NT4** brannerite  
**NT4** carnotite  
**NT4** clarkeite  
**NT4** coffinite  
**NT4** compregnacite  
**NT4** dewindtite  
**NT4** diderichite  
**NT4** djalmaite  
**NT4** ekanite  
**NT4** ellsworthite  
**NT4** ferghanite  
**NT4** fourmarierite  
**NT4** gastunite  
**NT4** guilleminite  
**NT4** hallimondite  
**NT4** heinrichite  
**NT4** ianthinite  
**NT4** kahlerite  
**NT4** kirchheimerite  
**NT4** lodochnikite  
**NT4** mackintoshite  
**NT4** moctezumite  
**NT4** montroseite  
**NT4** naegite  
**NT4** natroautunite  
**NT4** ningyoite  
**NT4** novacekite  
**NT4** para-schoepite  
**NT4** ranquillite  
**NT4** rauvite  
**NT4** sabugalite

**NT4** saleeite  
**NT4** schoepite  
**NT4** sengierite  
**NT4** sklodowskite  
**NT4** soddyite  
**NT4** thorianite  
**NT4** thucholite  
**NT4** torbernite  
**NT4** tyuyamunitite  
**NT4** uraninites  
**NT5** broeggerite  
**NT5** pitchblende  
**NT4** uranium black  
**NT4** uranophane  
**NT4** uranothorite  
**NT4** vesuvianite  
**NT2** radioactive wastes  
**NT3** alpha-bearing wastes  
**NT3** calcined wastes  
**NT3** high-level radioactive wastes  
**NT3** intermediate-level radioactive wastes  
**NT3** low-level radioactive wastes  
**NT3** radioactive effluents  
**NT3** waste forms  
**NT2** radiopharmaceuticals  
**NT1** raw materials  
**NT2** chemical feedstocks  
**NT1** reactor materials  
**NT2** nuclear fuels  
**NT3** accident-tolerant nuclear fuels  
**NT3** alloy nuclear fuels  
**NT4** uranium-molybdenum fuels  
**NT3** denatured fuel  
**NT3** dispersion nuclear fuels  
**NT3** fuel solutions  
**NT3** liquid metal fuels  
**NT3** mixed carbide fuels  
**NT3** mixed nitride fuels  
**NT3** mixed oxide fuels  
**NT3** molten salt fuels  
**NT3** spent fuels  
**NT2** nuclear poisons  
**NT3** burnable poisons  
**NT3** fission poisons  
**NT3** soluble poisons  
**NT1** reinforced materials  
**NT2** reinforced concrete  
**NT2** reinforced plastics  
**NT1** sealing materials  
**NT1** semiconductor materials  
**NT2** magnetic semiconductors  
**NT2** n-type conductors  
**NT2** organic semiconductors  
**NT2** p-type conductors  
**NT1** shielding materials  
**NT1** sintered materials  
**NT2** sintered aluminium powders  
**NT1** stemming materials  
**NT1** surgical materials  
**NT1** synthetic materials  
**NT2** plastics  
**NT3** aramids  
**NT3** bakelite  
**NT3** formvar  
**NT3** lucite  
**NT3** mylar  
**NT3** nylon  
**NT3** perspex  
**NT3** plexiglas  
**NT3** polystyrene  
**NT3** polyurethanes  
**NT4** halthane  
**NT3** reinforced plastics  
**NT3** tedlar  
**NT3** teflon  
**NT3** thermoplastics  
**NT2** synthetic rocks  
**NT1** thermoelectric materials

**NT1** thermonuclear reactor materials  
**NT1** tissue-equivalent materials  
**NT1** weatherstripping  
**RT** interchangeability  
**RT** material balance  
**RT** materials drilling  
**RT** materials handling  
**RT** materials testing  
**RT** materials working

#### materials (antiferroelectric)

2000-04-12

USE antiferroelectric materials

#### materials (antiferromagnetic)

2000-04-12

USE antiferromagnetic materials

#### materials (biological)

INIS: 2000-04-12; ETDE: 1981-09-22

USE biological materials

#### materials (building)

INIS: 2000-04-12; ETDE: 1981-09-22

USE building materials

#### materials (composite)

INIS: 2000-04-12; ETDE: 1981-09-22

USE composite materials

#### materials (dielectric)

INIS: 2000-04-12; ETDE: 1981-09-22

USE dielectric materials

#### materials (doped)

INIS: 2000-04-12; ETDE: 1981-09-22

USE doped materials

#### materials (environmental)

INIS: 2000-04-12; ETDE: 1981-09-22

USE environmental materials

#### materials (ferrimagnetic)

INIS: 2000-04-12; ETDE: 1981-09-22

USE ferrimagnetic materials

#### materials (ferroelectric)

2000-04-12

USE ferroelectric materials

#### materials (ferromagnetic)

2000-04-12

USE ferromagnetic materials

#### materials (lunar)

INIS: 2000-04-12; ETDE: 1981-09-22

USE lunar materials

#### materials (magnetic)

INIS: 2000-04-12; ETDE: 1981-09-22

USE magnetic materials

#### materials (porous)

INIS: 2000-04-12; ETDE: 1981-09-22

USE porous materials

#### materials (reinforced)

INIS: 2000-04-12; ETDE: 1981-09-22

USE reinforced materials

#### materials (semiconductor)

INIS: 2000-04-12; ETDE: 1981-09-22

USE semiconductor materials

#### materials (shielding)

INIS: 2000-04-12; ETDE: 1981-09-22

USE shielding materials

#### materials and minerals policy acts

INIS: 2000-04-12; ETDE: 1984-06-29

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE laws

#### MATERIALS DRILLING

UF drilling (materials)

BT1 machining

NT1 laser drilling

NT1 rock drilling

RT drill bits

RT materials

RT subterrene penetrators

#### MATERIALS HANDLING

1997-06-05

(From May 1978 to March 1997 HOISTING was a valid ETDE descriptor. From August 1979 till March 1997 RETRIEVAL SYSTEMS was a valid ETDE descriptor.)

UF handling (materials)

UF hoisting

SF retrieval systems

NT1 lightering

NT1 loading

NT1 mine haulage

NT1 unloading

RT cargo

RT contact handling

RT conveyors

RT cranes

RT delivery

RT fuel feeding systems

RT grabs

RT haulage equipment

RT hoists

RT hydraulic transport

RT loaders

RT materials

RT materials handling equipment

RT pumping

RT recycling

RT remote handling

RT sample changers

RT solids flow

RT transport

RT waste retrieval

RT winches

#### MATERIALS HANDLING EQUIPMENT

INIS: 1983-09-06; ETDE: 1980-02-11

BT1 equipment

NT1 earthmoving equipment

NT2 bucket wheel excavators

NT2 draglines

NT1 grabs

NT1 haulage equipment

NT2 conveyors

NT3 belt conveyors

NT3 chain conveyors

NT2 loaders

NT3 cutter loaders

NT4 coal plows

NT4 continuous miners

NT4 heading machines

NT4 shearer loaders

NT2 mine cars

NT1 hoists

NT1 mixers

NT1 remote handling equipment

NT2 cranes

NT2 manipulators

NT1 shredders

NT1 winches

RT contact handling

RT materials handling

RT remote handling

RT robots

RT transport

**MATERIALS PROCESSING REACTORS**

*For routine irradiation of production items to obtain desirable changes in properties.*

\*BT1 irradiation reactors

**MATERIALS RECOVERY**

INIS: 1992-05-04; ETDE: 1975-09-11

SF recovery

\*BT1 waste processing

RT lime-soda sinter process

RT recycling

RT resource recovery facilities

RT resox process

RT syngas process

**MATERIALS TESTING**

UF testing (materials)

BT1 testing

NT1 destructive testing

NT2 charpy test

NT1 indentation testing

NT1 mechanical tests

NT2 impact tests

NT3 charpy test

NT1 nondestructive testing

NT2 acoustic testing

NT3 acoustic emission testing

NT3 ultrasonic testing

NT2 electrical testing

NT2 electromagnetic testing

NT3 eddy current testing

NT2 industrial radiography

NT3 beta radiography

NT3 gamma radiography

NT4 gamma fuel scanning

NT3 neutron radiography

NT3 proton radiography

NT3 x-ray radiography

NT2 liquid penetrant inspection

NT2 magnetic testing

NT2 radiation attenuation testing

NT2 thermal testing

NT3 frost tests

RT ceramography

RT corrosion

RT emanation method

RT fmit linac

RT inspection

RT materials

RT metallography

RT photoelasticity

RT quality control

RT s-n diagram

RT stresses

**materials testing reactor idaho**

INIS: 1993-11-09; ETDE: 2002-03-28

USE mtr reactor

**materials testing reactor japan**

1993-11-09

USE jmtr reactor

**MATERIALS TESTING REACTORS**

*For testing properties of materials or equipment in a radioactive environment.*

\*BT1 irradiation reactors

NT1 atr reactor

NT1 br-2 reactor

NT1 cp-2 reactor

NT1 dido reactor

NT1 dmtr reactor

NT1 dr-3 reactor

NT1 el-3 reactor

NT1 ewg-1 reactor

NT1 frg-2 reactor

NT1 frj-2 reactor

NT1 ga siwabessy reactor

NT1 gleep reactor

NT1 hanaro reactor

NT1 hector reactor

NT1 hfetr reactor

NT1 hfr reactor

NT1 hifar reactor

NT1 hwctr reactor

NT1 hwrr reactor

NT1 igr reactor

NT1 ivv-2m reactor

NT1 jmtr reactor

NT1 jrr-3 reactor

NT1 jrr-3m reactor

NT1 jules horowitz reactor

NT1 kstr reactor

NT1 lpr reactor

NT1 merlin reactor

NT1 mtr reactor

NT1 nbsr reactor

NT1 nrx reactor

NT1 osiris reactor

NT1 pbr reactor

NT1 pluto reactor

NT1 r-2 reactor

NT1 rv-1 reactor

NT1 sm-2 reactor

NT1 taiwan research reactor

NT1 triga-1-hanford reactor

NT1 wr-1 reactor

NT1 wwr-m-kiev reactor

NT1 wwr-m-leningrad reactor

NT1 zephyr reactor

**MATERIALS WORKING**

*Covers metal and non-metal working.*

UF forming (materials)

UF working (materials)

BT1 fabrication

NT1 canning

NT1 cold working

NT2 shot peening

NT1 drawing

NT1 explosive forming

NT1 extrusion

NT2 coextrusion

NT1 forging

NT1 hot working

NT1 magnetic forming

NT1 pressing

NT2 cold pressing

NT2 hot pressing

NT1 rolling

NT1 swaging

NT1 thermomechanical treatments

RT casting

RT deformation

RT machining

RT materials

RT molding

**MATHEMATICAL EVOLUTION**

2003-06-26

*Development of an algorithm, formula, analytic function, series expansion or mathematical model from a simple approach to a more advanced, complex, sophisticated form.*

BT1 evolution

RT algorithms

RT analytic functions

RT asymptotic solutions

RT evolution equations

RT functional analysis

RT mathematical models

RT series expansion

**MATHEMATICAL LOGIC**

INIS: 1986-07-10; ETDE: 1975-11-11

UF logic (mathematics)

UF symbolic logic

NT1 algorithms

NT2 genetic algorithms

NT1 fuzzy logic

RT mathematical models

RT mathematical solutions

RT mathematics

RT system failure analysis

**MATHEMATICAL MANIFOLDS**

1997-08-20

NT1 complex manifolds

NT1 convex manifolds

NT1 smooth manifolds

RT dynamical systems

RT graph theory

RT mathematical space

RT mathematics

RT measure theory

RT topological mapping

RT topology

**MATHEMATICAL MODELS**

1996-07-23

(From September 1982 till March 1997 OPERATIONS RESEARCH was a valid ETDE descriptor.)

UF models (mathematical)

UF thermal-nelson model

SF operations research

NT1 atomic models

NT2 thomas-fermi model

NT1 box models

NT1 climate models

NT1 cosmological models

NT2 inflationary universe

NT1 crystal models

NT2 heisenberg model

NT2 hubbard model

NT2 ising model

NT1 electron-promotion model

NT1 flow models

NT1 general circulation models

NT1 harmonic oscillator models

NT1 molecular models

NT2 thermodynamic molecular model

NT1 nuclear models

NT2 black nucleus model

NT2 brueckner model

NT2 cloudy crystal ball model

NT2 cluster model

NT2 coherent tube model

NT2 collective model

NT3 rotation-vibration model

NT2 cranking model

NT2 davydov-filipov model

NT2 droplet model

NT2 elliot model

NT2 evaporation model

NT3 weisskopf model

NT2 exciton model

NT2 fermi gas model

NT2 folding model

NT2 goldberger model

NT2 lane-thomas-wigner model

NT2 liquid drop model

NT2 nilsson-mottelson model

NT2 nuclear fireball model

NT2 order-disorder model

NT2 particle-core coupling model

NT2 particle-hole model

NT2 perey-buck model

NT2 quartet model

NT2 quasiparticle-phonon model

NT2 scission-point model

NT2 shell models

NT3 governor model

NT3 interacting boson model

NT3 multi-center shell model

NT2 single-particle model

NT2 spherical model

NT2 strong-absorption model

**NT2** superfluid model  
**NT2** unified model  
**NT2** valency model  
**NT2** vibron model  
**NT2** vmi model  
**NT2** walecka model  
**NT2** weak-coupling model  
**NT1** optical models  
**NT1** particle models  
**NT2** coherent tube model  
**NT2** composite models  
**NT3** bootstrap model  
**NT3** cim model  
**NT3** quark model  
**NT4** bag model  
**NT4** color model  
**NT4** flavor model  
**NT4** string models  
**NT5** superstring models  
**NT2** correlated-particle models  
**NT2** diffraction models  
**NT2** dual absorption model  
**NT2** extended particle model  
**NT3** bag model  
**NT3** string models  
**NT4** superstring models  
**NT2** feynman gas model  
**NT2** fireball model  
**NT2** gluon model  
**NT2** hard collision models  
**NT2** higgs model  
**NT2** isobar model  
**NT2** jet model  
**NT2** lee model  
**NT2** linear absorption models  
**NT2** nova model  
**NT2** octet model  
**NT2** peripheral models  
**NT3** baryon-exchange models  
**NT3** boson-exchange models  
**NT4** obe model  
**NT5** ope model  
**NT6** electric born model  
**NT4** sigma model  
**NT3** multiperipheral model  
**NT4** cluster emission model  
**NT5** space-time model  
**NT2** strong-coupling model  
**NT2** tensor dominance model  
**NT2** thermodynamic model  
**NT3** hydrodynamic model  
**NT2** uncorrelated-particle model  
**NT2** unified gauge models  
**NT3** grand unified theory  
**NT4** standard model  
**NT3** weinberg-salam gauge model  
**NT2** van hove model  
**NT2** vector dominance model  
**NT2** veneziano model  
**NT3** dual resonance model  
**NT1** star models  
**NT1** statistical models  
**NT2** feynman gas model  
**NT2** thermodynamic model  
**NT3** hydrodynamic model  
**RT** bifurcation  
**RT** biological models  
**RT** comparative evaluations  
**RT** computer-aided design  
**RT** computer calculations  
**RT** dynamic programming  
**RT** energy models  
**RT** exact solutions  
**RT** functional models  
**RT** fuzzy logic  
**RT** hypothesis  
**RT** linear programming  
**RT** mathematical evolution  
**RT** mathematical logic

**RT** microcosms  
**RT** mockup  
**RT** nonlinear programming  
**RT** parametric analysis  
**RT** projection series  
**RT** response functions  
**RT** scaling laws  
**RT** sensitivity analysis  
**RT** simulation  
**RT** structural models  
**RT** time-series analysis  
**RT** validation

**MATHEMATICAL OPERATORS**

**UF** operators (*mathematical*)  
**NT1** casimir operators  
**NT1** differential operators  
**NT1** hermitian operators  
**NT1** laplacian  
**NT1** projection operators  
**NT1** quantum operators  
**NT2** angular momentum operators  
**NT3** orbital momentum operators  
**NT3** pauli spin operators  
**NT2** annihilation operators  
**NT2** commutators  
**NT3** current commutators  
**NT4** sigma terms  
**NT2** creation operators  
**NT2** dirac operators  
**NT2** field operators  
**NT2** hamiltonians  
**NT2** linear momentum operators  
**NT2** moshinsky transformation  
**NT2** position operators  
**NT1** superoperators  
**RT** commutation relations  
**RT** density matrix  
**RT** digital frequency analysis  
**RT** eigenvalues  
**RT** eigenvectors  
**RT** mathematics  
**RT** quantum mechanics  
**RT** transfer matrix method

**MATHEMATICAL SOLUTIONS**

*INIS: 2003-06-19; ETDE: 2003-07-29*  
**NT1** analytical solution  
**NT1** asymptotic solutions  
**NT1** exact solutions  
**NT1** numerical solution  
**NT2** collision probability method  
**NT2** extrapolation  
**NT2** finite difference method  
**NT2** finite element method  
**NT3** boundary element method  
**NT2** interpolation  
**NT2** maximum-likelihood fit  
**NT3** least square fit  
**NT2** runge-kutta method  
**RT** algorithms  
**RT** calculation methods  
**RT** equations  
**RT** mathematical logic  
**RT** mathematics

**MATHEMATICAL SPACE**

**BT1** space  
**NT1** anti de sitter space  
**NT1** banach space  
**NT2** hilbert space  
**NT1** de sitter space  
**NT1** hausdorff space  
**NT1** minkowski space  
**NT1** phase space  
**NT1** riemann space  
**NT2** euclidean space  
**RT** chaos theory  
**RT** differential geometry  
**RT** fock representation

**RT** functional analysis  
**RT** geodesics  
**RT** graph theory  
**RT** lobachevsky geometry  
**RT** mathematical manifolds  
**RT** mathematics  
**RT** measure theory  
**RT** metrics  
**RT** space dependence  
**RT** space-time

**MATHEMATICS**

**NT1** algebra  
**NT1** chaos theory  
**NT1** differential calculus  
**NT1** functional analysis  
**NT1** geometry  
**NT2** differential geometry  
**NT2** lobachevsky geometry  
**NT1** global analysis  
**NT1** graph theory  
**NT1** group theory  
**NT1** integral calculus  
**NT1** measure theory  
**NT1** numerical analysis  
**NT1** prony method  
**NT1** set theory  
**NT1** statistics  
**NT2** game theory  
**NT2** kriging  
**NT2** multivariate analysis  
**NT2** regression analysis  
**NT2** time-series analysis  
**NT1** topology  
**NT2** differential topology  
**RT** algorithms  
**RT** anharmonic oscillators  
**RT** bethe-tait method  
**RT** boundary element method  
**RT** canonical transformations  
**RT** conformal mapping  
**RT** convergence  
**RT** coordinates  
**RT** differential equations  
**RT** eigenvectors  
**RT** equations  
**RT** extrapolation  
**RT** extreme-value problems  
**RT** factorization  
**RT** finite difference method  
**RT** finite element method  
**RT** four-dimensional calculations  
**RT** fourier analysis  
**RT** functions  
**RT** galerkin-petrov method  
**RT** gamma function  
**RT** geodesy  
**RT** harmonic oscillators  
**RT** integral equations  
**RT** integral transformations  
**RT** integrals  
**RT** interpolation  
**RT** iterative methods  
**RT** many-dimensional calculations  
**RT** mathematical logic  
**RT** mathematical manifolds  
**RT** mathematical operators  
**RT** mathematical solutions  
**RT** mathematical space  
**RT** matrices  
**RT** mesh generation  
**RT** metrics  
**RT** network analysis  
**RT** newton method  
**RT** nodal expansion method  
**RT** nonlinear problems  
**RT** one-dimensional calculations  
**RT** perturbation theory  
**RT** phase space

RT polynomials  
 RT power series  
 RT quasilinear problems  
 RT queues  
 RT regge calculus  
 RT runge-kutta method  
 RT saddle-point method  
 RT scalars  
 RT series expansion  
 RT spherical harmonics  
 RT spline functions  
 RT superconvergence relations  
 RT tensors  
 RT three-dimensional calculations  
 RT two-dimensional calculations  
 RT variational methods  
 RT vectors  
 RT weierstrass functions

**MATHIEU EQUATION**

\*BT1 differential equations

**MATING**

RT behavior  
 RT reproduction  
 RT sex

**MATRICES**

NT1 density matrix  
 NT1 g matrix  
 NT1 hermitian matrix  
 NT1 k matrix  
 NT1 kobayashi-maskawa matrix  
 NT1 nuclear matrix  
 NT1 r matrix  
 NT1 s matrix  
 RT mathematics  
 RT matrix elements  
 RT metrics  
 RT secular equation

**MATRIX ELEMENTS**

RT brillouin theorem  
 RT matrices

**MATRIX ISOLATION**

INIS: 1978-08-30; ETDE: 1978-10-19  
 Method for investigating chemical, physical, spectroscopic and other properties of reactive species of atoms or molecules while trapped in matrices at low temperatures.

RT atoms  
 RT clathrates  
 RT molecular structure  
 RT molecules  
 RT spectroscopy

**MATRIX MATERIALS**

UF electrolyte tiles  
 BT1 materials  
 RT fuel cells  
 RT fuel elements  
 RT graphite  
 RT reactor materials  
 RT resins

**MATSUKAWA GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields  
 RT hachimantai  
 RT japan  
 RT vapor-dominated systems

**MATTER**

NT1 antimatter  
 NT2 antinuclei  
 NT3 antideuterons  
 NT3 antiprotons  
 NT3 antitritons  
 NT2 antiparticles  
 NT3 antibaryons

NT4 antihyperons  
 NT5 antilambda particles  
 NT5 antiomega particles  
 NT5 antisigma particles  
 NT5 antixi particles  
 NT4 antinucleons  
 NT5 antineutrons  
 NT5 antiprotons  
 NT3 antikaons  
 NT4 antikaons neutral  
 NT3 antileptons  
 NT4 antineutrinos  
 NT5 electron antineutrinos  
 NT5 muon antineutrinos  
 NT4 muons plus  
 NT4 positrons  
 NT5 cosmic positrons  
 NT3 antimesons  
 NT4 pseudoscalar antimesons  
 NT5 anti-b neutral mesons  
 NT5 anti-d neutral mesons  
 NT3 antiquarks  
 NT4 b antiquarks  
 NT4 c antiquarks  
 NT4 d antiquarks  
 NT4 s antiquarks  
 NT4 t antiquarks  
 NT4 u antiquarks

NT1 nonluminous matter  
 NT1 nuclear matter  
 NT1 organic matter  
 NT2 kerogen  
 NT2 peat  
 NT1 quark matter  
 NT1 volatile matter  
 NT1 warm dense matter  
 RT ambiplasma  
 RT cosmology  
 RT rheology

**MATTHIESSEN RULE**

RT electric conductivity  
 RT thermal conductivity

**MATURATION**

INIS: 2000-07-24; ETDE: 1977-08-09  
 UF thermal alteration  
 RT petroleum

**MAURITANIA**

BT1 africa  
 BT1 arab countries  
 BT1 developing countries

**MAURITIUS**

INIS: 1992-06-04; ETDE: 1981-05-18  
 BT1 developing countries  
 BT1 islands  
 RT indian ocean

**max-planck-institut fuer plasmaphysik**

INIS: 1993-11-09; ETDE: 2002-03-28  
 USE ipp garching

**MAXIMUM ACCEPTABLE CONTAMINATION**

UF mac  
 \*BT1 contamination regulations  
 \*BT1 safety standards  
 RT contamination

**maximum credible accident**

(Prior to March 2017 this was a valid descriptor)  
 USE design-basis accidents

**MAXIMUM INHALATION QUANTITY**

UF miq  
 \*BT1 safety standards

RT inhalation  
 RT radioactivity

**MAXIMUM-LIKELIHOOD FIT**

\*BT1 numerical solution  
 NT1 least square fit  
 RT probability  
 RT statistics

**MAXIMUM PERMISSIBLE ACTIVITY**

\*BT1 safety standards  
 RT activity levels  
 RT radioactivity

**MAXIMUM PERMISSIBLE BODY BURDEN**

UF mpbb  
 \*BT1 safety standards  
 RT body burden  
 RT radioactivity  
 RT retention

**MAXIMUM PERMISSIBLE CONCENTRATION**

UF mpc  
 \*BT1 safety standards

**MAXIMUM PERMISSIBLE DOSE**

UF mpd  
 \*BT1 safety standards  
 RT dose limits  
 RT maximum permissible exposure  
 RT radiation doses

**MAXIMUM PERMISSIBLE EXPOSURE**

UF mpe  
 \*BT1 safety standards  
 RT integral doses  
 RT maximum permissible dose  
 RT radiation doses

**MAXIMUM PERMISSIBLE INTAKE**

UF mpi  
 \*BT1 safety standards  
 RT intake  
 RT radioactivity

**MAXIMUM PERMISSIBLE LEVEL**

UF mpl  
 \*BT1 safety standards  
 RT radioactivity

**maxwell-boltzmann distribution**

USE boltzmann statistics

**maxwell-boltzmann equation**

ETDE: 2002-03-28  
 USE boltzmann equation

**maxwell-boltzmann statistics**

USE boltzmann statistics

**maxwell-boltzmann system**

INIS: 2000-04-12; ETDE: 1995-09-01  
 SEE boltzmann-vlasov equation

**maxwell distribution**

USE boltzmann statistics

**MAXWELL EQUATIONS**

\*BT1 partial differential equations  
 RT born-infeld theory  
 RT electrostatics  
 RT electromagnetic fields  
 RT field equations  
 RT poynting theorem

**maxwell statistics**

USE boltzmann statistics

**maxwell velocity distribution**

USE boltzmann statistics

**mayaguez puerto rico l-77 reactor**

1993-11-09

USE prnc-l-77 reactor

**mayaguez puerto rico pool reactor**

2000-04-12

USE prpr reactor

**MAYAK PLANT**

1996-06-26

BT1 nuclear facilities  
RT fuel reprocessing plants  
RT russian federation

**mayflies**

INIS: 1993-07-14; ETDE: 1984-02-21

USE ephemeroptera

**mbe**

INIS: 1994-06-27; ETDE: 1982-10-20

USE molecular beam epitaxy

**MBP**

INIS: 1988-08-02; ETDE: 1982-10-05

UF monobutyl phosphate

\*BT1 butyl phosphates

**MC GUIRE-1 REACTOR**

Duke Energy Co., Huntersville, North Carolina, USA.

UF w. b. mc guire-1 reactor

\*BT1 pwr type reactors

**MC GUIRE-2 REACTOR**

Duke Energy Co., Huntersville, North Carolina, USA.

UF w. b. mc guire-2 reactor

\*BT1 pwr type reactors

**mc master university nuclear reactor**

1993-11-09

USE mnr reactor

**mcdowell-wellman process**

INIS: 2000-04-12; ETDE: 1978-04-27

Gasification process in which the gasifier has a continuous automatic gravity coal feeding system, a revolving grate, and an elevated ash pit. The gas-making chamber is completely water-jacketed. The inner wall is made of one-inch thick steel plate and requires no brick lining. Waste heat in the water jacket generates the required steam.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**MCGILL SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

**mcmurdo sound medium power plant****3a**

1993-11-09

USE pm-3a reactor

**mcpp**

INIS: 2000-04-12; ETDE: 1985-05-31

SEE dual-purpose power plants

**MDPA**

UF monododecylphosphoric acid

BT1 chelating agents

\*BT1 organic acids

\*BT1 phosphoric acid esters

**mea (mercaptoethylamine)**

ETDE: 2005-02-08

(Prior to January 2005 MEA was a valid descriptor.)

USE cysteamine

**MEA LINAC**

INIS: 1976-10-07; ETDE: 1976-11-01

500 MeV linac at NIKHEF, Amsterdam.

\*BT1 linear accelerators

**MEADOW FOAM**

INIS: 1991-12-16; ETDE: 1982-03-11

UF limnanthes alba

\*BT1 herbs

\*BT1 magnoliopsida

RT hydrocarbons

RT lubricating oils

**MEAN-FIELD THEORY**

INIS: 1984-08-24; ETDE: 1984-02-10

An approach for quantum-mechanical many-body problems by definition of a mean field which is derived from the interactions of single bodies.

RT many-body problem

RT self-consistent field

RT statistical mechanics

**MEAN FREE PATH**

RT anomalous

RT cross sections

RT diffusion

RT geiger-nuttall law

**mean life**

USE lifetime

**mean radiant temperature**

2004-06-08

Parameter used in description of thermal comfort of building occupants; use one or more of the following descriptors.

SEE blackbody radiation

SEE thermal comfort

SEE thermodynamic properties

**MEASLES**

INIS: 1976-06-23; ETDE: 1976-08-24

UF german measles

UF rubeola

\*BT1 viral diseases

RT measles virus

**MEASLES VIRUS**

INIS: 1976-06-23; ETDE: 1976-08-24

UF rubella virus

UF rubeola virus

\*BT1 viruses

RT measles

**MEASURE THEORY**

Relates to the property of sigma algebras or Borel fields referred to as measure.

BT1 mathematics

RT graph theory

RT mathematical manifolds

RT mathematical space

RT metrics

RT periodicity

**measured values**

2000-03-28

USE data

**measurement while drilling**

INIS: 1992-08-13; ETDE: 1978-12-11

USE mwd systems

**MEASURING INSTRUMENTS**

Use of a more specific term is recommended.

UF instruments (measuring)

SF tensiometers

NT1 accelerometers

NT1 altimeters

NT1 anemometers

NT2 hot wire anemometers

NT2 laser doppler anemometers

NT1 bolometers

NT1 calorimeters

NT1 densimeters

NT2 pycnometers

NT1 diffractometers

NT2 gamma diffractometers

NT2 neutron diffractometers

NT2 x-ray diffractometers

NT1 displacement gages

NT1 dosimeters

NT2 albedo-neutron dosimeters

NT2 biological dosimeters

NT2 bragg gray chambers

NT2 bubble dosimeters

NT2 calorimetric dosimeters

NT2 chemical dosimeters

NT3 polymer gel dosimeters

NT2 colorimetric dosimeters

NT2 condenser ionization chambers

NT2 exoelectron dosimeters

NT2 extrapolation chambers

NT2 luminescent dosimeters

NT3 rpl dosimeters

NT3 thermoluminescent dosimeters

NT2 photographic film dosimeters

NT2 ritac dosimeters

NT2 ritad dosimeters

NT1 dynamometers

NT1 electric measuring instruments

NT2 ammeters

NT2 electrometers

NT2 electroscopes

NT2 galvanometers

NT2 potentiometers

NT2 power meters

NT2 voltmeters

NT1 ellipsometers

NT1 fire detectors

NT2 smoke detectors

NT1 fluximeters

NT1 luxmeters

NT2 squid devices

NT1 fuel gages

NT1 goniometers

NT1 interferometers

NT2 fabry-perot interferometer

NT2 mach-zehnder interferometer

NT2 michelson interferometer

NT1 ion-mobility detectors

NT1 level indicators

NT1 lysimeters

NT1 magnetic balances

NT1 magnetometers

NT2 fluxgate magnetometers

NT2 moving coil magnetometers

NT2 proton precession magnetometers

NT2 vibrating sample magnetometers

NT1 meters

NT2 activity meters

NT2 carbon meters

NT2 flowmeters

NT3 plasma eaters

NT2 gas meters

NT2 heat meters

NT2 hydrogen meters

NT2 inclinometers

NT2 oxygen meters

NT2 power meters

NT2 reactivity meters

NT2 sulfur meters

NT2 tritium meters

NT1 moisture gages

NT1 monitors

- NT2** air pollution monitors  
**NT3** condensation particle counters  
**NT2** beam monitors  
**NT3** beam scanners  
**NT3** faraday cups  
**NT3** magnetoinduction sensors  
**NT2** failed element monitors  
**NT2** radiation monitors  
**NT3** exposure ratemeters  
**NT3** liquid contamination monitors  
**NT3** neutron monitors  
**NT3** surface contamination monitors  
**NT3** survey monitors  
**NT2** water pollution monitors  
**NT1** multispectral scanners  
**NT1** neutron activation analyzers  
**NT1** noise dosimeters  
**NT1** nuclear reaction analyzers  
**NT1** odorometers  
**NT1** penetrometers  
**NT1** photometers  
**NT2** densitometers  
**NT1** porosimeters  
**NT1** potentiostats  
**NT1** pressure gages  
**NT2** barometers  
**NT2** hot-wire gages  
**NT3** pirani gages  
**NT2** vacuum gages  
**NT3** ionization gages  
**NT4** bayard-alpert gages  
**NT4** philips gages  
**NT4** radioactive ionization gages  
**NT3** knudsen gages  
**NT3** pirani gages  
**NT1** pyranometers  
**NT1** pyrhelimeters  
**NT1** pyrometers  
**NT2** optical pyrometers  
**NT1** radiation detectors  
**NT2** alice detector  
**NT2** atlas detector  
**NT2** cbm detector  
**NT2** chemical radiation detectors  
**NT2** cherenkov counters  
**NT2** cms detector  
**NT2** compass detector  
**NT2** compton diode detectors  
**NT2** corona counters  
**NT2** crystal counters  
**NT3** filament crystal counters  
**NT2** dielectric track detectors  
**NT2** directional radiation detectors  
**NT2** electron multiplier detectors  
**NT2** emanometers  
**NT2** fermilab collider detector  
**NT2** flow counters  
**NT2** four-pi detectors  
**NT2** gas track detectors  
**NT3** bubble chambers  
**NT4** cryogenic bubble chambers  
**NT4** heavy liquid bubble chambers  
**NT4** ultrasonic bubble chambers  
**NT3** cloud chambers  
**NT4** diffusion chambers  
**NT4** expansion chambers  
**NT3** spark chambers  
**NT4** filmless spark chambers  
**NT5** sonic spark chambers  
**NT5** wire spark chambers  
**NT4** projection spark chambers  
**NT4** streamer spark chambers  
**NT4** wide gap spark chambers  
**NT2** geiger-mueller counters  
**NT2** gravitational wave detectors  
**NT2** hades detector  
**NT2** ionization chambers  
**NT3** boron coated ion chambers  
**NT3** bragg gray chambers  
**NT3** condenser ionization chambers  
**NT3** extrapolation chambers  
**NT3** fission chambers  
**NT3** liquid ionization chambers  
**NT3** multiwire ionization chambers  
**NT2** lhcb detector  
**NT2** low level counters  
**NT2** neutrino detectors  
**NT3** baikal neutrino telescope  
**NT3** borexino detector  
**NT3** icecube neutrino detector  
**NT3** super-kamiokande neutrino detector  
**NT2** neutron detectors  
**NT3** activation detectors  
**NT3** bf3 counters  
**NT3** boron coated ion chambers  
**NT3** boron lined counters  
**NT3** fission chambers  
**NT3** fission foil detectors  
**NT3** fission thermocouple detectors  
**NT3** he-3 counters  
**NT3** moderating detectors  
**NT4** bonner sphere detectors  
**NT4** long counters  
**NT3** proton recoil detectors  
**NT3** self-powered neutron detectors  
**NT3** threshold detectors  
**NT2** panda detector  
**NT2** phenix detector  
**NT2** phobos detector  
**NT2** photographic film detectors  
**NT2** position sensitive detectors  
**NT2** proportional counters  
**NT3** bf3 counters  
**NT3** boron lined counters  
**NT3** he-3 counters  
**NT3** liquid proportional counters  
**NT3** multiwire proportional chambers  
**NT4** drift chambers  
**NT5** time projection chambers  
**NT3** needle chambers  
**NT2** pyroelectric detectors  
**NT2** radiometers  
**NT2** scintillation counters  
**NT3** gas scintillation detectors  
**NT3** liquid scintillation detectors  
**NT3** scintillator-photodiode detectors  
**NT3** solid scintillation detectors  
**NT4** bgo detectors  
**NT4** nai detectors  
**NT4** plastic scintillation detectors  
**NT2** secondary emission detectors  
**NT2** self-powered detectors  
**NT3** self-powered gamma detectors  
**NT3** self-powered neutron detectors  
**NT2** semiconductor detectors  
**NT3** bulk semiconductor detectors  
**NT3** cde semiconductor detectors  
**NT3** cdznte semiconductor detectors  
**NT3** ge semiconductor detectors  
**NT4** high-purity ge detectors  
**NT4** li-drifted ge detectors  
**NT3** hgi2 semiconductor detectors  
**NT3** insb semiconductor detectors  
**NT3** junction detectors  
**NT4** li-drifted junction detectors  
**NT3** li-drifted detectors  
**NT4** li-drifted ge detectors  
**NT4** li-drifted junction detectors  
**NT4** li-drifted si detectors  
**NT3** si semiconductor detectors  
**NT4** li-drifted si detectors  
**NT4** si microstrip detectors  
**NT3** surface barrier detectors  
**NT2** shower counters  
**NT2** spark counters  
**NT2** stanford linear collider detector  
**NT2** star detector  
**NT2** superconducting colloid detectors  
**NT2** tissue-equivalent detectors  
**NT2** transition radiation detectors  
**NT2** wall-less counters  
**NT2** whole-body counters  
**NT1** radiometric gages  
**NT2** electron-capture detectors  
**NT1** range finders  
**NT2** radar  
**NT3** acoustic radar  
**NT3** optical radar  
**NT2** sonar  
**NT1** riometers  
**NT1** sedimentometers  
**NT1** seismic arrays  
**NT1** seismic detectors  
**NT1** seismographs  
**NT1** spectrometers  
**NT2** alpha spectrometers  
**NT2** beta spectrometers  
**NT2** cosmic ray spectrometers  
**NT2** electron spectrometers  
**NT2** electrostatic spectrometers  
**NT2** epr spectrometers  
**NT2** fission fragment spectrometers  
**NT2** fourier transform spectrometers  
**NT2** gamma spectrometers  
**NT3** compton spectrometers  
**NT3** moessbauer spectrometers  
**NT3** pair spectrometers  
**NT2** heavy ion spectrometers  
**NT2** infrared spectrometers  
**NT3** photoacoustic spectrometers  
**NT2** magnetic spectrometers  
**NT3** flat magnetic spectrometers  
**NT3** magnetic lens spectrometers  
**NT2** mass spectrometers  
**NT3** dynamic mass spectrometers  
**NT4** energy balance mass spectrometers  
**NT4** time-of-flight mass spectrometers  
**NT3** spark mass spectrometers  
**NT3** static mass spectrometers  
**NT2** missing-mass spectrometers  
**NT2** multiparticle spectrometers  
**NT2** neutral particle analyzers  
**NT2** neutron spectrometers  
**NT3** bonner sphere spectrometers  
**NT2** nmr spectrometers  
**NT2** optical spectrometers  
**NT2** proton spectrometers  
**NT2** time-of-flight spectrometers  
**NT3** time-of-flight mass spectrometers  
**NT2** ultraviolet spectrometers  
**NT2** x-ray spectrometers  
**NT1** spectrophotometers  
**NT1** strain gages  
**NT1** thermocouples  
**NT1** thermometers  
**NT2** geothermometers  
**NT2** noise thermometers  
**NT1** thickness gages  
**NT1** time interval analyzers  
**NT2** chronotrons  
**NT1** velocimeters  
**NT1** viscosimeters  
**NT1** weight indicators  
**NT2** balances  
**NT3** microbalances  
**RT** dna sequencers  
**RT** gyroscopes  
**RT** ionosondes  
**RT** miniaturization  
**RT** nirus facility  
**RT** on-line measurement systems  
**RT** probes  
**RT** reactor instrumentation  
**RT** recording systems

RT response functions  
 RT sensors  
 RT temperature measurement  
 RT time measurement  
 RT transducers

**MEASURING METHODS**

*Important new measuring techniques only.*

NT1 ellipsometry  
 NT1 thermography  
 NT2 infrared thermography  
 RT calculation methods  
 RT comparative evaluations  
 RT dosimetry  
 RT fiducial markers  
 RT frequency measurement  
 RT master metering  
 RT metering  
 RT particle discrimination  
 RT stern-gerlach experiment

**MEAT**

UF bacon  
 UF beef  
 UF ham  
 UF pork  
 BT1 food  
 RT cattle  
 RT sheep  
 RT swine  
 RT trichinella

**MEAT INDUSTRY**

INIS: 2000-04-12; ETDE: 1977-06-21  
 \*BT1 food industry

**MECHANICAL DECLADDING**

\*BT1 decladding  
 RT cutting  
 RT milling

**mechanical draft cooling towers**

2000-04-12  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE cooling towers  
 USE forced convection

**mechanical effects**

2000-04-12  
 (Prior to September 1981, this was a valid ETDE descriptor.)  
 USE mechanical properties

**MECHANICAL EFFICIENCY**

BT1 efficiency  
 RT gears

**MECHANICAL ENERGY STORAGE EQUIPMENT**

INIS: 2000-04-12; ETDE: 1979-08-07  
 NT1 flywheels  
 NT1 hydraulic accumulators  
 RT energy storage  
 RT energy storage systems

**MECHANICAL ENGINEERING**

INIS: 1999-02-15; ETDE: 1982-07-08  
 BT1 engineering

**MECHANICAL FILTERS**

1999-07-29  
 BT1 filters  
 NT1 granular bed filters

**mechanical fragmentation**

INIS: 1995-09-08; ETDE: 2002-03-28  
 (Until August 1995 this was a valid term.)  
 USE fragmentation

**MECHANICAL HEART**

BT1 artificial organs

\*BT1 prostheses  
 RT blood circulation  
 RT cardiac pacemakers  
 RT heart  
 RT radioisotope batteries

**MECHANICAL IMPEDANCE**

INIS: 1975-11-07; ETDE: 1975-12-16  
 BT1 impedance

**mechanical kidney**

INIS: 2000-04-12; ETDE: 1977-06-02  
 (Prior to March 1996 this was a valid ETDE descriptor.)

USE artificial organs  
 USE kidneys

**MECHANICAL POLISHING**

\*BT1 polishing

**MECHANICAL PROPERTIES**

UF mechanical effects  
 UF properties (mechanical)  
 NT1 brittleness  
 NT1 compressibility  
 NT1 compression strength  
 NT1 creep  
 NT1 dilatancy  
 NT1 elasticity  
 NT2 photoelasticity  
 NT2 thermoelasticity  
 NT1 fatigue  
 NT2 corrosion fatigue  
 NT2 thermal fatigue  
 NT1 flexural strength  
 NT1 fracture properties  
 NT1 hardness  
 NT2 microhardness  
 NT1 impact strength  
 NT1 plasticity  
 NT1 poisson ratio  
 NT1 shear properties  
 NT1 tensile properties  
 NT2 ductility  
 NT2 flexibility  
 NT1 ultimate strength  
 NT1 wear resistance  
 NT1 yield strength  
 NT1 young modulus  
 RT acoustic microscopy  
 RT deformation  
 RT destructive testing  
 RT physical metallurgy  
 RT rheology  
 RT rock mechanics  
 RT stresses  
 RT thermal degradation

**MECHANICAL SHAFTS**

INIS: 1976-09-06; ETDE: 1987-02-20  
 (From January 1975 till March 1997 SHAFTS was a valid ETDE descriptor.)

UF shafts (mechanical)  
 BT1 machine parts

**MECHANICAL STRUCTURES**

UF columns (mechanical)  
 UF structures (mechanics)  
 UF towers (structures)  
 SF towers  
 NT1 bridges  
 NT1 domed structures  
 NT1 honeycomb structures  
 NT1 intake structures  
 NT1 outlet structures  
 NT1 power transmission towers  
 NT1 roofs  
 NT2 green roofs  
 NT1 supports  
 NT2 foundations  
 NT2 fuel racks

NT2 powered supports  
 NT3 shield supports  
 RT buildings  
 RT construction  
 RT modular structures  
 RT ratcheting  
 RT response functions  
 RT shells  
 RT soil-structure interactions

**MECHANICAL TESTS**

*See also descriptors for the properties tested.*

\*BT1 materials testing  
 NT1 impact tests  
 NT2 charpy test  
 RT dynamic loads  
 RT static loads  
 RT strain gages  
 RT stress intensity factors  
 RT stresses  
 RT thermal cycling  
 RT wear

**MECHANICAL TRANSMISSIONS**

1992-03-11

BT1 machine parts  
 RT automobiles  
 RT gears  
 RT vehicles

**MECHANICAL VIBRATIONS**

(From February 1976 till March 1997 PENDULUMS was a valid ETDE descriptor.)

UF vibrations (mechanical)  
 SF pendulums  
 RT amplitudes  
 RT damping  
 RT dynamic loads  
 RT harmonics  
 RT hydrodynamic mass effect  
 RT oscillations  
 RT springs  
 RT standing waves  
 RT travelling waves

**MECHANICS**

UF translation (mechanical)  
 NT1 classical mechanics  
 NT1 dynamics  
 NT2 beam dynamics  
 NT3 beam bunching  
 NT3 betatron oscillations  
 NT3 phase oscillations  
 NT3 synchrotron oscillations  
 NT1 electromechanics  
 NT1 fluid mechanics  
 NT2 aerodynamics  
 NT2 electrogasdynamics  
 NT2 hydraulics  
 NT3 thermal hydraulics  
 NT2 hydrodynamics  
 NT3 electrohydrodynamics  
 NT3 magnetohydrodynamics  
 NT2 magnetogasdynamics  
 NT2 nanofluidics  
 NT2 pneumatics  
 NT1 fracture mechanics  
 NT1 quantum mechanics  
 NT1 rock mechanics  
 NT1 soil mechanics  
 NT1 statistical mechanics  
 RT action integral  
 RT anharmonic oscillators  
 RT canonical transformations  
 RT center-of-mass system  
 RT degrees of freedom  
 RT equations of motion  
 RT galilei transformations  
 RT hamilton-jacobi equations  
 RT harmonic oscillators



RT kinetics  
 RT laboratory system  
 RT lagrange equations  
 RT lagrangian function  
 RT moment of inertia  
 RT physical metallurgy  
 RT surface forces  
 RT virial theorem

**medec process**

INIS: 2000-04-12; ETDE: 1980-08-25

A process for removal of elemental sodium from LMFBR radioactive wastes.

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE lmfbr type reactors

SEE radioactive waste processing

**MEDIASTINUM**

\*BT1 chest  
 RT aorta  
 RT esophagus  
 RT heart  
 RT pleura  
 RT thymus  
 RT trachea

**mediation**

INIS: 2000-04-12; ETDE: 1981-03-17

Intervention between conflicting parties to promote reconciliation, settlement, or compromise.

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE arbitration

SEE dispute settlements

SEE negotiation

**medical centers**

INIS: 2000-04-12; ETDE: 1977-12-22

(Prior to July 1985, this was a valid ETDE descriptor.)

USE medical establishments

**MEDICAL ESTABLISHMENTS**

INIS: 1976-12-08; ETDE: 1979-09-26

UF medical centers

NT1 hospitals  
 RT buildings  
 RT health services  
 RT public health

**MEDICAL EXAMINATIONS**

INIS: 1976-12-08; ETDE: 1978-07-05

BT1 medical surveillance  
 RT diagnosis  
 RT preventive medicine

**MEDICAL PERSONNEL**

BT1 personnel  
 NT1 radiological personnel  
 RT medicine

**MEDICAL RECORDS**

INIS: 1976-12-08; ETDE: 1979-05-25

RT medical surveillance

**medical research reactor, bnl**

INIS: 1984-06-21; ETDE: 2002-03-28

USE mrr reactor

**MEDICAL SUPPLIES**

NT1 prostheses  
 NT2 mechanical heart  
 NT1 surgical materials  
 RT drugs  
 RT isomed  
 RT medicine

**MEDICAL SURVEILLANCE**

(Prior to May 1996 SURVEILLANCE was a valid ETDE descriptor.)

UF surveillance (medical)

SF surveillance

NT1 medical examinations  
 RT contamination  
 RT delayed radiation effects  
 RT dose commitments  
 RT medical records  
 RT personnel  
 RT personnel monitoring  
 RT preventive medicine  
 RT radiation doses

**MEDICINAL PLANTS**

1996-11-13

UF atropa belladonna

BT1 plants  
 NT1 aloe  
 NT1 castor  
 NT1 digitalis  
 NT1 papaver somniferum  
 RT alkaloids  
 RT drugs

**MEDICINE**

UF internal medicine

NT1 acupuncture  
 NT1 balneology  
 NT1 dentistry  
 NT1 gynecology  
 NT1 hematology  
 NT1 industrial medicine  
 NT1 neurology  
 NT1 nuclear medicine  
 NT2 radiology  
 NT3 biomedical radiography  
 NT4 fluoroscopy  
 NT4 ionographic imaging  
 NT4 osteodensitometry  
 NT4 renography  
 NT3 radiotherapy  
 NT4 afterloading  
 NT4 brachytherapy  
 NT5 radioembolization  
 NT4 ct-guided radiotherapy  
 NT4 external beam radiation therapy  
 NT4 neutron therapy  
 NT5 neutron capture therapy  
 NT4 radioimmunotherapy  
 NT1 ophthalmology  
 NT1 pediatrics  
 NT1 preventive medicine  
 NT1 surgery  
 NT2 adrenalectomy  
 NT2 castration  
 NT2 gastrectomy  
 NT2 hepatectomy  
 NT2 hypophysectomy  
 NT2 laryngectomy  
 NT2 nephrectomy  
 NT2 plastic surgery  
 NT2 splenectomy  
 NT2 thymectomy  
 NT2 thyroidectomy  
 NT1 therapy  
 NT2 chemotherapy  
 NT2 combined therapy  
 NT2 first aid  
 NT2 gene therapy  
 NT2 immunotherapy  
 NT3 radioimmunotherapy  
 NT2 post-irradiation therapy  
 NT2 radiotherapy  
 NT3 afterloading  
 NT3 brachytherapy  
 NT4 radioembolization  
 NT3 ct-guided radiotherapy

NT3 external beam radiation therapy

NT3 neutron therapy

NT4 neutron capture therapy

NT3 radioimmunotherapy

NT2 transfusions

NT1 tropical medicine

NT1 veterinary medicine

RT anesthesia

RT biology

RT diagnosis

RT diagnostic techniques

RT diagnostic uses

RT diseases

RT hospitals

RT medical personnel

RT medical supplies

RT pathology

RT patients

RT who

**medicines**

USE drugs

**mediterranean fruit fly**

ETDE: 2000-08-10

USE ceratitis capitata

**MEDITERRANEAN SEA**

\*BT1 seas

NT1 adriatic sea

NT1 aegean sea

RT cyprus

RT malta

**MEDIUM-BETA PLASMA**

Beta from 0.01 to 0.1.

BT1 plasma

RT beta ratio

**MEDIUM-HEAD HYDROELECTRIC POWER PLANTS**

INIS: 1993-12-30; ETDE: 1978-08-08

Heads of 15 to 150 meters.

\*BT1 hydroelectric power plants

**medium-level wastes**

INIS: 1979-04-27; ETDE: 2002-03-28

USE intermediate-level radioactive wastes

**medium pressure**

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range kilo pa

SEE pressure range mega pa 01-10

**medium temperature**

1992-01-23

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 0273-0400 k

**medium vacuum**

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range milli pa

SEE pressure range pa

**MEDIUM WAVE RADIATION**

\*BT1 radiowave radiation

**MEETINGS**

1996-05-14

UF conferences

UF symposia

RT hearings

RT proceedings

**meg (mercaptoethylguanidine)**

ETDE: 2005-01-28

(Prior to January 2005 MEG was a valid descriptor.)

USE mercaptoethylguanidine

**MEGA AMP BEAM CURRENTS***INIS: 1976-10-07; ETDE: 1976-07-07**From 10 exp 6 to 10 exp 9 amp.*

\*BT1 beam currents

**MEGA BQ RANGE**

2012-05-31

BT1 radioactivity range

NT1 mega bq range 01-10

NT1 mega bq range 10-100

NT1 mega bq range 100-1000

**MEGA BQ RANGE 01-10**

2014-10-29

\*BT1 mega bq range

**MEGA BQ RANGE 10-100**

2014-10-29

\*BT1 mega bq range

**MEGA BQ RANGE 100-1000**

2014-10-29

\*BT1 mega bq range

**MEGA GY RANGE**

2014-06-27

\*BT1 absorbed dose range

**megakaryocytes**

USE bone marrow cells

**MEGALOBLASTIC ANEMIA**

\*BT1 anemias

RT erythrocytes

**megatron**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE linear pinch devices

**MEGAWATT POWER RANGE***INIS: 1988-04-15; ETDE: 1989-08-10*

BT1 power range

NT1 power range 01-10 mw

NT1 power range 10-100 mw

NT1 power range 100-1000 mw

**mehrzweck-forschungsreaktor**

USE mzfr reactor

**meinzer unit***INIS: 1983-06-30; ETDE: 2002-03-28*

USE hydraulic conductivity

**MEIOSIS**

BT1 cell division

RT crossing-over

RT gametogenesis

RT gene recombination proteins

RT mutations

**MEISSNER-OCHSENFELD EFFECT**

RT superconductivity

**MEITNERIUM**

2004-03-19

(Prior to March 2004 ELEMENT 109 was used for this element.)

UF *eka-iridium*UF *element 109*UF *unnilemium*

\*BT1 transactinide elements

**MEITNERIUM 265**

2007-03-13

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**MEITNERIUM 266**

2004-03-19

(Prior to March 2004 ELEMENT 109 266 was used for this concept.)

UF *element 109 266*

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes

\*BT1 microseconds living radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 spontaneous fission radioisotopes

**MEITNERIUM 267**

2007-03-13

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**MEITNERIUM 268**

2004-03-19

(Prior to March 2004 ELEMENT 109 268 was used for this concept.)

UF *element 109 268*

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**MEITNERIUM 270**

2007-03-13

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**MEITNERIUM 271**

2007-03-13

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**MEITNERIUM 272**

2007-03-13

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**MEITNERIUM 273**

2007-03-13

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**MEITNERIUM 274**

2007-03-13

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**MEITNERIUM 275**

2007-03-13

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**MEITNERIUM 276**

2007-03-13

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**MEITNERIUM 279**

2007-03-13

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**MEITNERIUM COMPOUNDS**

2010-01-22

UF *element 109 compounds*

\*BT1 transactinide compounds

**MEITNERIUM IONS**

2018-01-24

\*BT1 ions

**MEITNERIUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 109 ISOTOPES was used for this concept.)

UF *element 109 isotopes*

BT1 isotopes

NT1 meitnerium 265

NT1 meitnerium 266

NT1 meitnerium 267

NT1 meitnerium 268

NT1 meitnerium 270

NT1 meitnerium 271

NT1 meitnerium 272

NT1 meitnerium 273

NT1 meitnerium 274

NT1 meitnerium 275

NT1 meitnerium 276

NT1 meitnerium 279

**MELAMINE**

\*BT1 amines

\*BT1 triazines

RT organic polymers

**MELANIN**UF *melanocytes*

\*BT1 hydroxy compounds

\*BT1 organic nitrogen compounds

BT1 pigments

RT hair

RT methyl tyrosine

RT skin

RT tyrosine

**melanocytes**

USE animal cells

USE melanin

**MELANOMAS**

\*BT1 epitheliomas

**MELANOVANADITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 radioactive minerals

RT calcium oxides

RT vanadium oxides

**MELATONIN**

\*BT1 tryptamines

RT pineal gland

**melekess-arbus reactor**

USE arbus reactor

**melekess-mir reactor**

USE mir reactor

**melekess-sm-2 reactor**

USE sm-2 reactor

**melibiose**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE disaccharides

**melilotic acid**

INIS: 1996-06-28; ETDE: 2002-03-28

(Until June 1996 this was a valid descriptor.)

USE hydroxy acids

**MELLIN TRANSFORM**

\*BT1 integral transformations

**MELLITIC ACID**

\*BT1 carboxylic acids

**MELOSH TRANSFORMATION**

BT1 transformations

RT hadrons

RT quantum field theory

RT quarks

**melt refining process**

INIS: 1980-07-24; ETDE: 1979-12-10

USE pyrochemical reprocessing

**MELT-THROUGH**

2017-07-18

UF reactor pressure vessel failure

\*BT1 meltdown

RT core catchers

**MELTDOWN**

UF core melt

\*BT1 reactor accidents

\*BT1 severe accidents

NT1 melt-through

RT core catchers

RT corium

RT source terms

**MELTING**

Changing a substance from solid to liquid form by addition of heat.

UF fusion (melting)

BT1 phase transformations

NT1 electron beam melting

NT1 vacuum melting

NT1 zone melting

RT casting

RT crucibles

RT defrosting

RT freezing

RT furnaces

RT heating

RT liquefaction

RT melting points

RT metallurgical flux

RT smelting

RT solidification

RT subterrene penetrators

RT thawing

RT welding

**MELTING POINTS**

UF freezing points

\*BT1 transition temperature

RT freeze protection

RT melting

RT phase diagrams

RT supercooling

RT superheating

**MELUSINE-1 REACTOR**

CEA-Grenoble Nuclear Studies Centre, Grenoble Cedex, France. Decommissioned since 2010.

UF grenoble reactor melusine-1

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**melusine-2 reactor**

USE siloette reactor

**MEMBER STATES**

Countries participating in an international organization.

RT international organizations

**MEMBRANE PORES**

INIS: 2000-04-12; ETDE: 1985-08-22

RT cell membranes

RT membrane transport

**MEMBRANE PROTEINS**

INIS: 2000-04-12; ETDE: 1987-10-26

\*BT1 proteins

NT1 porins

NT1 receptors

NT1 thylakoid membrane proteins

NT2 phycobiliproteins

NT3 phycocyanin

RT antigens

RT gtp-ases

RT lipoproteins

RT membrane transport

**membrane theory**

2007-08-13

This term is used with different meanings in biological science and high-energy physics.

SEE cell membranes

SEE m-theory

**MEMBRANE TRANSPORT**

INIS: 1986-07-09; ETDE: 1976-03-22

RT calmodulin

RT diffusion

RT mass transfer

RT membrane pores

RT membrane proteins

RT membranes

RT osmosis

RT porins

RT supported liquid membranes

**MEMBRANES**

UF ion exchange membranes

NT1 cell membranes

NT2 myelin

NT1 fetal membranes

NT2 placenta

NT1 meninges

NT1 mucous membranes

NT2 conjunctiva

NT1 photosynthetic membranes

NT1 serous membranes

NT2 mesentery

NT2 pericardium

NT2 peritoneum

NT2 pleura

NT1 supported liquid membranes

RT dialysis

RT membrane transport

RT osmosis

RT permeability

**MEMORY DEVICES**

UF data storage devices

UF punched cards

UF storage devices (data)

NT1 cryogenic storage devices

NT1 magnetic storage devices

NT2 magnetic cores

NT2 magnetic disks

NT2 magnetic drums

NT2 magnetic tapes

NT3 video tapes

NT1 semiconductor storage devices

NT1 thin film storage devices

RT punched tapes

RT quantum cryptography

**MEMORY MANAGEMENT**

INIS: 1992-08-18; ETDE: 1987-04-24

The task of assigning a computer's main storage within a multitasking environment.

\*BT1 data processing

RT computers

RT executive codes

RT parallel processing

RT programming

**MEMS**

2014-08-20

Micro-Electro-Mechanical Systems

UF microelectromechanical systems

RT microelectronics

RT nems

**MEN**

BT1 males

\*BT1 man

RT adults

**mendelev periodic system**

USE periodic system

**MENDELEVIUM**

\*BT1 actinides

\*BT1 transplutonium elements

**MENDELEVIUM 245**

2007-11-22

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 mendelevium isotopes

\*BT1 microseconds living radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 spontaneous fission radioisotopes

**MENDELEVIUM 246**

2007-11-22

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 mendelevium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 spontaneous fission radioisotopes

**MENDELEVIUM 247**

INIS: 1986-06-09; ETDE: 1982-03-11

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 mendelevium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**MENDELEVIUM 248**

1980-07-24

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 mendelevium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**MENDELEVIUM 249**

1977-01-25

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 mendelevium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**MENDELEVIUM 250**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 mendelevium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

### MENDELEVium 251

1977-01-26

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 mendeleevium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### MENDELEVium 252

\*BT1 actinide nuclei  
 \*BT1 electron capture radioisotopes  
 \*BT1 mendeleevium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### MENDELEVium 253

INIS: 1977-01-26; ETDE: 1976-11-01

\*BT1 actinide nuclei  
 \*BT1 electron capture radioisotopes  
 \*BT1 mendeleevium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### MENDELEVium 254

\*BT1 actinide nuclei  
 \*BT1 electron capture radioisotopes  
 \*BT1 mendeleevium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### MENDELEVium 255

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 mendeleevium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### MENDELEVium 256

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 mendeleevium isotopes  
 \*BT1 odd-odd nuclei

### MENDELEVium 257

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 mendeleevium isotopes  
 \*BT1 odd-even nuclei

### MENDELEVium 258

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 mendeleevium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### MENDELEVium 259

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 mendeleevium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 spontaneous fission radioisotopes

### MENDELEVium 260

INIS: 1986-03-04; ETDE: 1985-04-09

\*BT1 actinide nuclei  
 \*BT1 mendeleevium isotopes  
 \*BT1 odd-odd nuclei

### MENDELEVium 261

INIS: 1987-02-25; ETDE: 1987-05-01

\*BT1 actinide nuclei

\*BT1 mendeleevium isotopes

\*BT1 odd-even nuclei

### MENDELEVium 262

2007-11-22

\*BT1 actinide nuclei  
 \*BT1 mendeleevium isotopes  
 \*BT1 odd-odd nuclei

### MENDELEVium ADDITIONS

2000-04-12

RT mendeleevium compounds

### MENDELEVium COMPLEXES

\*BT1 actinide complexes  
 \*BT1 transuranium complexes

### MENDELEVium COMPOUNDS

1996-06-28

BT1 actinide compounds  
 \*BT1 transplutonium compounds  
 NT1 mendeleevium oxides  
 RT mendeleevium additions

### MENDELEVium IONS

2018-01-24

\*BT1 ions

### MENDELEVium ISOTOPES

1999-07-16

BT1 isotopes  
 NT1 mendeleevium 245  
 NT1 mendeleevium 246  
 NT1 mendeleevium 247  
 NT1 mendeleevium 248  
 NT1 mendeleevium 249  
 NT1 mendeleevium 250  
 NT1 mendeleevium 251  
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 NT1 mendeleevium 261  
 NT1 mendeleevium 262

### MENDELEVium OXIDES

1996-06-28

(From June 1996 to November 2007

MENDELEVium COMPOUNDS + OXIDES was used for this concept.)

\*BT1 mendeleevium compounds  
 \*BT1 oxides

### MENDOCINO-1 REACTOR

Mendocino, California, USA. Canceled before construction began.

\*BT1 bwr type reactors

### MENDOCINO-2 REACTOR

Mendocino, California, USA. Canceled before construction began.

\*BT1 bwr type reactors

### MENDOZA

\*BT1 argentina

### MENINGES

BT1 membranes  
 RT central nervous system  
 RT meningococcus

### MENINGOCOCCUS

\*BT1 bacteria  
 RT meninges  
 RT nervous system diseases

### MENOMINEE RIVER

INIS: 2000-04-12; ETDE: 1980-12-08

\*BT1 rivers  
 RT hydroelectric power plants  
 RT michigan  
 RT wisconsin

### MENOPAUSE

RT age dependence  
 RT estrous cycle  
 RT fertility  
 RT menstrual cycle  
 RT menstruation disorders

### menorrhagia

USE menstruation disorders

### MENSTRUAL CYCLE

INIS: 1984-10-23; ETDE: 1984-11-08

RT estrous cycle  
 RT female genitals  
 RT fertility  
 RT menopause  
 RT menstruation disorders  
 RT ovulation  
 RT rhythmicity

### MENSTRUATION DISORDERS

UF amenorrhea  
 UF menorrhagia  
 \*BT1 urogenital system diseases  
 RT endocrine diseases  
 RT estrous cycle  
 RT female genitals  
 RT menopause  
 RT menstrual cycle  
 RT reproductive disorders

### MENTAL DISORDERS

UF psychoses  
 RT behavior  
 RT brain  
 RT central nervous system agents  
 RT nervous system diseases  
 RT psychotropic drugs

### meperidine

INIS: 2000-04-12; ETDE: 1981-04-20

USE pethidine

### merc process

INIS: 2000-04-12; ETDE: 1978-07-05  
 Fixed bed, high temperature gasification process (using stirring) for caking coals. (Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

### mercamine

USE cysteamine

### mercaptans

USE thiols

### mercaptoalanine-beta

USE cysteine

### mercaptoaminoisovaleric acid

USE penicillamine

### mercaptoethylamine

USE cysteamine

### MERCAPTOETHYLGUANIDINE

ETDE: 2005-01-28

(Prior to January 2005 MEG was used for this concept.)

UF meg (mercaptoethylguanidine)  
 \*BT1 carbonic acid derivatives  
 \*BT1 radioprotective substances  
 \*BT1 thiols  
 RT guanidines

**MERCAPTOPROPYLAMINE**

\*BT1 radioprotective substances

**MERCAPTOPURINE**

\*BT1 antimetabolites  
\*BT1 purines  
\*BT1 thiols

**mercaptosaline**

USE penicillamine

**MERCIER CRITERION**

*INIS: 1985-10-23; ETDE: 1985-11-19*

RT flute instability  
RT grad-shafranov equation  
RT magnetohydrodynamics  
RT plasma instability  
RT suydam criterion

**mercuric iodide detectors**

*INIS: 1975-12-09; ETDE: 2002-03-28*

USE hgi2 semiconductor detectors

**MERCURY**

\*BT1 metals

**MERCURY 171**

*2007-11-22*

\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 mercury isotopes  
\*BT1 microseconds living radioisotopes

**MERCURY 172**

*2007-11-22*

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 mercury isotopes  
\*BT1 microseconds living radioisotopes

**MERCURY 173**

*2007-11-22*

\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 mercury isotopes  
\*BT1 microseconds living radioisotopes

**MERCURY 174**

*2007-11-22*

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 mercury isotopes  
\*BT1 milliseconds living radioisotopes

**MERCURY 175**

*1983-09-01*

\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 mercury isotopes  
\*BT1 milliseconds living radioisotopes

**MERCURY 176**

*1983-09-01*

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 mercury isotopes  
\*BT1 milliseconds living radioisotopes

**MERCURY 177**

*INIS: 1976-05-07; ETDE: 1976-08-04*

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 mercury isotopes  
\*BT1 milliseconds living radioisotopes

**MERCURY 178**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 mercury isotopes  
\*BT1 milliseconds living radioisotopes

**MERCURY 179**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 mercury isotopes  
\*BT1 seconds living radioisotopes

**MERCURY 180**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 mercury isotopes  
\*BT1 seconds living radioisotopes

**MERCURY 181**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 mercury isotopes  
\*BT1 seconds living radioisotopes

**MERCURY 182**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 mercury isotopes  
\*BT1 seconds living radioisotopes

**MERCURY 183**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 mercury isotopes  
\*BT1 seconds living radioisotopes

**MERCURY 184**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 mercury isotopes  
\*BT1 seconds living radioisotopes

**MERCURY 185**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 mercury isotopes  
\*BT1 seconds living radioisotopes

**MERCURY 186**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 mercury isotopes  
\*BT1 minutes living radioisotopes

**MERCURY 187**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 mercury isotopes  
\*BT1 minutes living radioisotopes

**MERCURY 188**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 mercury isotopes  
\*BT1 minutes living radioisotopes

**MERCURY 189**

\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 mercury isotopes  
\*BT1 minutes living radioisotopes

**MERCURY 190**

\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 mercury isotopes  
\*BT1 minutes living radioisotopes

**MERCURY 191**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 mercury isotopes  
\*BT1 minutes living radioisotopes

**MERCURY 192**

\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 mercury isotopes

**MERCURY 193**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 mercury isotopes

**MERCURY 193 TARGET**

*INIS: 1992-09-23; ETDE: 1981-05-18*

BT1 targets

**MERCURY 194**

\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 mercury isotopes  
\*BT1 years living radioisotopes

**MERCURY 195**

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 mercury isotopes

**MERCURY 196**

\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 mercury isotopes  
\*BT1 stable isotopes

**MERCURY 196 TARGET***INIS: 1984-06-21; ETDE: 1984-07-10*

BT1 targets

**MERCURY 197**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 mercury isotopes

**MERCURY 198**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes  
 \*BT1 stable isotopes

**MERCURY 198 TARGET***ETDE: 1976-07-09*

BT1 targets

**MERCURY 199**

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 mercury isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 stable isotopes

**MERCURY 199 TARGET***ETDE: 1976-07-09*

BT1 targets

**MERCURY 200**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes  
 \*BT1 stable isotopes

**MERCURY 200 TARGET***ETDE: 1976-07-09*

BT1 targets

**MERCURY 201**

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 mercury isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 stable isotopes

**MERCURY 201 TARGET***ETDE: 1976-07-09*

BT1 targets

**MERCURY 202**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes  
 \*BT1 stable isotopes

**MERCURY 202 TARGET***ETDE: 1976-07-09*

BT1 targets

**MERCURY 203**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes

**MERCURY 204**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes  
 \*BT1 stable isotopes

**MERCURY 204 TARGET***ETDE: 1976-07-09*

BT1 targets

**MERCURY 205**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes  
 \*BT1 minutes living radioisotopes

**MERCURY 206**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes  
 \*BT1 minutes living radioisotopes

**MERCURY 206 TARGET***1980-05-14*

BT1 targets

**MERCURY 207**

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes

**MERCURY 208**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes

**MERCURY 209**

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes

**MERCURY 210**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes

**MERCURY 211**

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes

**MERCURY 212**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes

**MERCURY ADDITIONS***Alloys containing not more than 1% Hg are listed here.*

\*BT1 mercury alloys

**MERCURY ALLOYS***Alloys containing more than 1% Hg.**UF amalgams*

BT1 alloys

NT1 mercury additions

NT1 mercury base alloys

**MERCURY BASE ALLOYS**

\*BT1 mercury alloys

**MERCURY BROMIDES**

\*BT1 bromides

\*BT1 mercury halides

**MERCURY CARBIDES***2013-05-15*

\*BT1 carbides

BT1 mercury compounds

**MERCURY CHLORIDES**

\*BT1 chlorides

\*BT1 mercury halides

**MERCURY COMPLEXES**

BT1 complexes

**MERCURY COMPOUNDS***1997-06-17*

NT1 mercury carbides

NT1 mercury halides

NT2 mercury bromides

NT2 mercury chlorides

NT2 mercury fluorides

NT2 mercury iodides

NT1 mercury hydrides

NT1 mercury nitrates

NT1 mercury oxides

NT1 mercury perchlorates

NT1 mercury selenides

NT1 mercury sulfates

NT1 mercury sulfides

NT1 mercury tellurides

RT organic mercury compounds

**MERCURY COOLED REACTORS**

\*BT1 liquid metal cooled reactors

NT1 clementine reactor

NT1 sbr-2 reactor

**MERCURY FLUORIDES**

\*BT1 fluorides

\*BT1 mercury halides

**MERCURY HALIDES***1988-11-16*

\*BT1 halides

BT1 mercury compounds

NT1 mercury bromides

NT1 mercury chlorides

NT1 mercury fluorides

NT1 mercury iodides

**MERCURY HYDRIDES***INIS: 1987-03-24; ETDE: 1987-11-24*

\*BT1 hydrides

BT1 mercury compounds

**MERCURY IODIDES**

\*BT1 iodides

\*BT1 mercury halides

**MERCURY IONS**

\*BT1 ions

**MERCURY ISOTOPES***1999-07-16*

BT1 isotopes

NT1 mercury 171

NT1 mercury 172

NT1 mercury 173

NT1 mercury 174

NT1 mercury 175

NT1 mercury 176

NT1 mercury 177

NT1 mercury 178

NT1 mercury 179

NT1 mercury 180

NT1 mercury 181

NT1 mercury 182

NT1 mercury 183

NT1 mercury 184

NT1 mercury 185

NT1 mercury 186

NT1 mercury 187

NT1 mercury 188

NT1 mercury 189

NT1 mercury 190

NT1 mercury 191

NT1 mercury 192

NT1 mercury 193

NT1 mercury 194

NT1 mercury 195

NT1 mercury 196

NT1 mercury 197

NT1 mercury 198

NT1 mercury 199

NT1 mercury 200

NT1 mercury 201  
 NT1 mercury 202  
 NT1 mercury 203  
 NT1 mercury 204  
 NT1 mercury 205  
 NT1 mercury 206  
 NT1 mercury 207  
 NT1 mercury 208  
 NT1 mercury 209  
 NT1 mercury 210  
 NT1 mercury 211  
 NT1 mercury 212

**MERCURY NITRATES**

BT1 mercury compounds  
 \*BT1 nitrates

**MERCURY OXIDES**

BT1 mercury compounds  
 \*BT1 oxides

**MERCURY PERCHLORATES**

*INIS: 2000-04-12; ETDE: 1978-03-03*

BT1 mercury compounds  
 \*BT1 perchlorates

**MERCURY PLANET**

BT1 planets

**MERCURY SELENIDES**

*1976-03-02*

BT1 mercury compounds  
 \*BT1 selenides

**MERCURY SULFATES**

BT1 mercury compounds  
 \*BT1 sulfates

**MERCURY SULFIDES**

BT1 mercury compounds  
 \*BT1 sulfides  
 RT sulfide minerals

**MERCURY TELLURIDES**

BT1 mercury compounds  
 \*BT1 tellurides

**MERISTEMS**

UF *cambium*  
 BT1 plant tissues

**merlin-juelich reactor**

USE frj-1 reactor

**MERLIN REACTOR**

*2000-04-12*

UF *aldermaston reactor merlin*  
 UF *ukaeva-merlin reactor*

\*BT1 enriched uranium reactors  
 \*BT1 materials testing reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**MERONS**

*INIS: 1983-02-03; ETDE: 1978-10-23*

*Class of solutions of certain field equations; merons appear as particles with one-half unit of topological charge.*

BT1 quasi particles  
 RT field equations  
 RT instantons  
 RT quark model  
 RT thirring model

**MESENTERY**

UF *omentum*  
 \*BT1 serous membranes  
 RT peritoneum  
 RT small intestine

**MESH GENERATION**

*INIS: 1982-10-29; ETDE: 1979-12-10*

*Procedure of preparing coordinate grid for complex calculations, e.g. neutron transport calculations.*

RT boundary element method  
 RT computer calculations  
 RT coordinates  
 RT finite difference method  
 RT finite element method  
 RT mathematics  
 RT nodal expansion method

**MESIC ATOMS**

UF *mesoatoms*  
 \*BT1 hadronic atoms  
 NT1 kaonic atoms  
 NT1 pionic atoms  
 RT mesic molecules  
 RT mesons  
 RT muonic atoms  
 RT pi-k atoms  
 RT pi-mu atoms

**MESIC MOLECULES**

BT1 molecules  
 NT1 muonic molecules  
 RT mesic atoms  
 RT mesons

**MESITYL RADICALS**

\*BT1 aryl radicals

**MESITYLENE**

UF *1,3,5-trimethylbenzene*  
 UF *trimethylbenzene-sym*  
 \*BT1 alkylated aromatics

**mesoatoms**

USE mesic atoms

**mesocricetus**

USE hamsters

**MESODIALYTE**

*2000-04-12*

\*BT1 silicate minerals  
 RT niobium silicates  
 RT zirconium silicates

**MESON-BARYON INTERACTIONS**

\*BT1 hadron-hadron interactions  
 NT1 meson-hyperon interactions  
 NT2 kaon-hyperon interactions  
 NT2 pion-hyperon interactions  
 NT1 meson-nucleon interactions  
 NT2 kaon-nucleon interactions  
 NT3 kaon-neutron interactions  
 NT4 kaon minus-neutron interactions  
 NT4 kaon neutral-neutron interactions  
 NT4 kaon plus-neutron interactions  
 NT3 kaon-proton interactions  
 NT4 kaon minus-proton interactions  
 NT4 kaon neutral-proton interactions  
 NT4 kaon plus-proton interactions  
 NT2 pion-nucleon interactions  
 NT3 pion-neutron interactions  
 NT4 pion minus-neutron interactions  
 NT4 pion plus-neutron interactions  
 NT3 pion-proton interactions  
 NT4 pion minus-proton interactions  
 NT4 pion plus-proton interactions

**MESON BEAMS**

\*BT1 particle beams  
 NT1 eta meson beams  
 NT1 kaon beams  
 NT1 pion beams

**meson-deuteron interactions**

USE deuterium target

USE meson reactions

**meson exchange**

*INIS: 2000-04-12; ETDE: 1979-02-23*

USE boson-exchange models

**MESON FACTORIES**

BT1 accelerators  
 NT1 lampf ii synchrotron  
 NT1 lampf linac  
 NT1 pigmi facilities

**MESON-HYPERON INTERACTIONS**

\*BT1 meson-baryon interactions  
 NT1 kaon-hyperon interactions  
 NT1 pion-hyperon interactions

**MESON-MESON INTERACTIONS**

\*BT1 hadron-hadron interactions  
 NT1 kaon-kaon interactions  
 NT1 pion-kaon interactions  
 NT1 pion-pion interactions

**MESON NONETS**

\*BT1 particle multiplets  
 RT pseudoscalar mesons  
 RT tensor mesons  
 RT vector mesons

**MESON-NUCLEON INTERACTIONS**

\*BT1 meson-baryon interactions  
 NT1 kaon-nucleon interactions  
 NT2 kaon-neutron interactions  
 NT3 kaon minus-neutron interactions  
 NT3 kaon neutral-neutron interactions  
 NT3 kaon plus-neutron interactions  
 NT2 kaon-proton interactions  
 NT3 kaon minus-proton interactions  
 NT3 kaon neutral-proton interactions  
 NT3 kaon plus-proton interactions  
 NT1 pion-nucleon interactions  
 NT2 pion-neutron interactions  
 NT3 pion minus-neutron interactions  
 NT3 pion plus-neutron interactions  
 NT2 pion-proton interactions  
 NT3 pion minus-proton interactions  
 NT3 pion plus-proton interactions

**MESON OCTETS**

\*BT1 particle multiplets

**MESON REACTIONS**

UF *meson-deuteron interactions*  
 \*BT1 charged-particle reactions  
 \*BT1 hadron reactions  
 NT1 kaon reactions  
 NT2 kaon minus reactions  
 NT2 kaon neutral reactions  
 NT2 kaon plus reactions  
 NT1 pion reactions  
 NT2 pion minus reactions  
 NT2 pion plus reactions

**meson resonances**

*1988-03-08*

*(Prior to December 1987 this was a valid descriptor.)*

USE mesons

**MESON SPECTROSCOPY**

BT1 spectroscopy  
 RT mesons

**MESONS**

UF *a resonances*  
 UF *a2h-1320 resonances*  
 UF *a2l-1280 resonances*  
 UF *c-1430 resonances*  
 UF *chi-2800 resonances*  
 UF *chi-3455 resonances*  
 UF *chi resonances*  
 UF *delta resonances (meson)*

- UF *epsilon resonances*  
 UF *eta-700 resonances*  
 UF *f-1540 resonances*  
 UF *kappa-725 resonances*  
 UF *meson resonances*  
 UF *omega-1778 resonances*  
 UF *pi-1016 resonances*  
 UF *psi-4300 resonances*  
 UF *psi resonances*  
 UF *r-1650 resonances*  
 UF *rho-1500 resonances*  
 UF *rho-1700 resonances*  
 UF *s-1000 resonances*  
 UF *x-2830 resonances*  
 BT1 bosons  
 \*BT1 hadrons  
 NT1 antimesons  
   NT2 pseudoscalar antimesons  
   NT3 anti-b neutral mesons  
   NT3 anti-d neutral mesons  
 NT1 axial vector mesons  
   NT2 a1-1260 mesons  
   NT2 b1-1235 mesons  
   NT2 chi b1-9890 mesons  
   NT2 chi1-3510 mesons  
   NT2 d s-2536 mesons  
   NT2 d1-2420 mesons  
   NT2 f1-1285 mesons  
   NT2 f1-1420 mesons  
   NT2 f1-1510 mesons  
   NT2 h1-1170 mesons  
   NT2 k1-1270 mesons  
   NT2 k1-1400 mesons  
 NT1 baryonium  
 NT1 beauty mesons  
   NT2 b c mesons  
   NT2 b mesons  
     NT3 b minus mesons  
     NT3 b neutral mesons  
     NT4 anti-b neutral mesons  
   NT3 b plus mesons  
   NT2 b s mesons  
   NT2 b\*-5325 mesons  
 NT1 bottomonium  
   NT2 chi b0-10235 mesons  
   NT2 chi b0-9860 mesons  
   NT2 chi b1-10255 mesons  
   NT2 chi b1-9890 mesons  
   NT2 chi b2-10270 mesons  
   NT2 chi b2-9915 mesons  
   NT2 upsilon-10023 mesons  
   NT2 upsilon-10355 mesons  
   NT2 upsilon-10580 mesons  
   NT2 upsilon-10860 mesons  
   NT2 upsilon-11020 mesons  
   NT2 upsilon-9460 mesons  
 NT1 charmed mesons  
   NT2 b c mesons  
   NT2 d mesons  
     NT3 d minus mesons  
     NT3 d neutral mesons  
     NT4 anti-d neutral mesons  
   NT3 d plus mesons  
   NT2 d s-2536 mesons  
   NT2 d s mesons  
   NT2 d\*-2010 mesons  
   NT2 d\*2-2460 mesons  
   NT2 d\*s-2110 mesons  
   NT2 d1-2420 mesons  
 NT1 charmonium  
   NT2 chi0-3415 mesons  
   NT2 chi1-3510 mesons  
   NT2 chi2-3555 mesons  
   NT2 eta c-2980 mesons  
   NT2 eta c-3590 mesons  
   NT2 j psi-3097 mesons  
   NT2 psi-3685 mesons  
   NT2 psi-3770 mesons  
   NT2 psi-4040 mesons  
   NT2 psi-4160 mesons  
   NT2 psi-4415 mesons  
   NT2 rho-1450 mesons  
   NT2 rho-1700 mesons  
   NT2 rho-2150 mesons  
   NT2 rho-770 mesons  
   NT2 upsilon-10023 mesons  
   NT2 upsilon-10355 mesons  
   NT2 upsilon-10580 mesons  
   NT2 upsilon-10860 mesons  
   NT2 upsilon-11020 mesons  
   NT2 upsilon-9460 mesons  
 NT1 x-1700 mesons  
 NT1 x-1935 mesons  
 NT1 x-2220 mesons  
 NT1 x-3075 mesons  
 RT mesic atoms  
 RT mesic molecules  
 RT meson spectroscopy
- NT2 psi-4160 mesons  
 NT2 psi-4415 mesons  
 NT1 phi mesons  
   NT2 phi-1020 mesons  
   NT2 phi-1680 mesons  
   NT2 phi3-1850 mesons  
 NT1 pseudoscalar mesons  
   NT2 b c mesons  
   NT2 b mesons  
     NT3 b minus mesons  
     NT3 b neutral mesons  
   NT4 anti-b neutral mesons  
   NT3 b plus mesons  
   NT2 b s mesons  
   NT2 d mesons  
     NT3 d minus mesons  
     NT3 d neutral mesons  
     NT4 anti-d neutral mesons  
   NT3 d plus mesons  
   NT2 d s mesons  
   NT2 eta-1295 mesons  
   NT2 eta-1440 mesons  
   NT2 eta c-2980 mesons  
   NT2 eta mesons  
   NT2 eta prime-958 mesons  
   NT2 k-1460 mesons  
   NT2 k-1830 mesons  
   NT2 kaons  
     NT3 antikaons  
     NT4 antikaons neutral  
   NT3 cosmic kaons  
   NT3 kaons minus  
   NT3 kaons neutral  
     NT4 antikaons neutral  
     NT4 kaons neutral long-lived  
     NT4 kaons neutral short-lived  
   NT3 kaons plus  
   NT2 pi-1300 mesons  
   NT2 pi-1770 mesons  
   NT2 pions  
     NT3 cosmic pions  
     NT3 pions minus  
     NT3 pions neutral  
     NT3 pions plus  
   NT2 pseudoscalar antimesons  
     NT3 anti-b neutral mesons  
     NT3 anti-d neutral mesons  
 NT1 scalar mesons  
   NT2 a0-980 mesons  
   NT2 chi0-3415 mesons  
   NT2 f0-1240 mesons  
   NT2 f0-1300 mesons  
   NT2 f0-1590 mesons  
   NT2 f0-1730 mesons  
   NT2 f0-980 mesons  
   NT2 k\*0-1430 mesons  
 NT1 strange mesons  
   NT2 b s mesons  
   NT2 d s-2536 mesons  
   NT2 d s mesons  
   NT2 d\*s-2110 mesons  
   NT2 k-1460 mesons  
   NT2 k-1830 mesons  
   NT2 k\*-1410 mesons  
   NT2 k\*-1680 mesons  
   NT2 k\*-892 mesons  
   NT2 k\*0-1430 mesons  
   NT2 k\*2-1430 mesons  
   NT2 k\*3-1780 mesons  
   NT2 k\*4-2045 mesons  
   NT2 k1-1270 mesons  
   NT2 k1-1400 mesons  
   NT2 k2-1770 mesons  
   NT2 k2-1820 mesons  
   NT2 kaons  
     NT3 antikaons  
     NT4 antikaons neutral  
   NT3 cosmic kaons  
   NT3 kaons minus
- NT3 kaons neutral  
 NT4 antikaons neutral  
 NT4 kaons neutral long-lived  
 NT4 kaons neutral short-lived  
 NT3 kaons plus  
 NT1 strangeonium  
   NT2 f2 prime-1525 mesons  
 NT1 tensor mesons  
   NT2 a2-1320 mesons  
   NT2 a4-2040 mesons  
   NT2 a6-2450 mesons  
   NT2 chi b2-9915 mesons  
   NT2 chi2-3555 mesons  
   NT2 d\*2-2460 mesons  
   NT2 f2-1270 mesons  
   NT2 f2-1430 mesons  
   NT2 f2-1720 mesons  
   NT2 f2-1810 mesons  
   NT2 f2-2010 mesons  
   NT2 f2-2300 mesons  
   NT2 f2-2340 mesons  
   NT2 f2 prime-1525 mesons  
   NT2 f4-2050 mesons  
   NT2 f4-2300 mesons  
   NT2 f6-2510 mesons  
   NT2 k\*2-1430 mesons  
   NT2 k\*3-1780 mesons  
   NT2 k\*4-2045 mesons  
   NT2 k2-1770 mesons  
   NT2 k2-1820 mesons  
   NT2 omega3-1670 mesons  
   NT2 phi3-1850 mesons  
   NT2 pi2-1670 mesons  
   NT2 pi2-2100 mesons  
   NT2 rho3-1690 mesons  
   NT2 rho3-2250 mesons  
   NT2 rho5-2350 mesons  
 NT1 toponium  
 NT1 vector mesons  
   NT2 b\*-5325 mesons  
   NT2 d\*-2010 mesons  
   NT2 j psi-3097 mesons  
   NT2 k\*-1410 mesons  
   NT2 k\*-1680 mesons  
   NT2 k\*-892 mesons  
   NT2 omega-1420 mesons  
   NT2 omega-1600 mesons  
   NT2 omega-782 mesons  
   NT2 phi-1020 mesons  
   NT2 phi-1680 mesons  
   NT2 psi-3685 mesons  
   NT2 psi-3770 mesons  
   NT2 psi-4040 mesons  
   NT2 psi-4160 mesons  
   NT2 psi-4415 mesons  
   NT2 rho-1450 mesons  
   NT2 rho-1700 mesons  
   NT2 rho-2150 mesons  
   NT2 rho-770 mesons  
   NT2 upsilon-10023 mesons  
   NT2 upsilon-10355 mesons  
   NT2 upsilon-10580 mesons  
   NT2 upsilon-10860 mesons  
   NT2 upsilon-11020 mesons  
   NT2 upsilon-9460 mesons

## MESOPHILIC CONDITIONS

INIS: 1992-03-10; ETDE: 1977-05-09  
 Temperature range centered at 40 degrees C  
 favoring the growth of certain bacteria.  
 RT anaerobic digestion  
 RT fermentation



RT thermophilic conditions

## MESOSPHERE

BT1 earth atmosphere

## MESOZOIC ERA

INIS: 1992-04-14; ETDE: 1977-10-19

BT1 geologic ages  
 NT1 cretaceous period  
 NT1 jurassic period  
 NT1 triassic period

## MESQUITE

INIS: 2000-04-12; ETDE: 1981-05-18

\*BT1 leguminosae  
 \*BT1 trees

## MESSENGER-RNA

1995-06-09

\*BT1 rna  
 RT dna hybridization  
 RT exons  
 RT post-translation modification  
 RT rna polymerases  
 RT rna processing  
 RT transcription

## METABOLIC ACTIVATION

INIS: 1992-04-09; ETDE: 1980-01-15

BT1 metabolism  
 RT biological pathways  
 RT chemical activation  
 RT enzyme activity  
 RT stimulation

## METABOLIC DISEASES

1996-06-28

UF glycosuria  
 UF obesity  
 BT1 diseases  
 NT1 diabetes mellitus  
 NT1 rickets  
 RT biochemical reaction kinetics  
 RT endocrine diseases  
 RT gastrointestinal tract  
 RT liver  
 RT metabolism

## metabolic pathways

INIS: 1978-11-24; ETDE: 1978-12-20

USE biological pathways

## METABOLISM

NT1 anabolism  
 NT1 basal metabolism  
 NT1 catabolism  
 NT1 glycolysis  
 NT1 metabolic activation  
 RT biochemical reaction kinetics  
 RT biochemistry  
 RT biological functions  
 RT biological markers  
 RT biosynthesis  
 RT carbon cycle  
 RT carbon dioxide fixation  
 RT coenzymes  
 RT diabetes mellitus  
 RT dna adducts  
 RT enzyme activity  
 RT enzymes  
 RT fasting  
 RT glucagon  
 RT growth  
 RT hypothalamus  
 RT insulin  
 RT krebs cycle  
 RT labelled pool techniques  
 RT liver  
 RT metabolic diseases  
 RT metabolites  
 RT molecular biology  
 RT nitrogen cycle

RT nitrogen fixation  
 RT phosphoenolpyruvate  
 RT physiology  
 RT precursor  
 RT radionuclide kinetics  
 RT renal clearance  
 RT respiration  
 RT sulfur cycle  
 RT thermoregulation  
 RT thyroid hormones  
 RT vitamins

## METABOLITES

INIS: 1996-10-23; ETDE: 1977-09-19

Products of intermediate metabolism.

NT1 glucuronide conjugates  
 NT1 glutathione conjugates  
 RT antimetabolites  
 RT carboxylic acids  
 RT krebs cycle  
 RT metabolism

## metacercariae

USE larvae

## metagalaxy

USE universe

## metaiodobenzylguanidine

INIS: 1995-01-10; ETDE: 1987-04-24

USE mibg

## metal buildings

INIS: 2000-04-12; ETDE: 1982-01-07

USE prefabricated buildings

## metal castings

2000-04-12

USE castings

## METAL-GAS BATTERIES

1997-06-17

\*BT1 electric batteries  
 NT1 aluminium-air batteries  
 NT1 cadmium-air batteries  
 NT1 iron-air batteries  
 NT1 lithium-chlorine batteries  
 NT1 lithium-water-air batteries  
 NT1 nickel-hydrogen batteries  
 NT1 silver-hydrogen batteries  
 NT1 zinc-air batteries  
 NT1 zinc-chlorine batteries  
 RT fuel cells

## METAL INDUSTRY

1992-03-10

UF steel industry  
 BT1 industry  
 RT beverage industry  
 RT ceramics industry  
 RT foundries  
 RT metals  
 RT mineral industry  
 RT scrap metals  
 RT smelters

## metal-insulator-semiconductor solar cells

INIS: 2000-04-12; ETDE: 1981-07-18

USE mis solar cells

## metal-insulator solar cells

INIS: 2000-04-12; ETDE: 1981-07-18

USE mi solar cells

## METAL-METAL BATTERIES

2000-04-12

\*BT1 electric batteries

## METAL-METAL OXIDE BATTERIES

1992-10-02

\*BT1 electric batteries

NT1 iron-nickel batteries  
 NT1 nickel-cadmium batteries  
 NT1 nickel-zinc batteries  
 NT1 silver-cadmium batteries  
 NT1 silver-zinc batteries  
 NT1 zinc-manganese batteries

## METAL MODERATED REACTORS

BT1 reactors  
 NT1 beryllium moderated reactors  
 NT2 agata reactor  
 NT2 br-02 reactor  
 NT2 ebor reactor  
 NT2 ewg-1 reactor  
 NT2 maria reactor  
 NT2 nuclear furnace reactor

## METAL-NONMETAL BATTERIES

1996-06-19

\*BT1 electric batteries  
 NT1 lithium-copper chloride batteries  
 NT1 lithium-polymer batteries  
 NT1 lithium-sulfur batteries  
 NT1 sodium-sulfur batteries  
 NT1 zinc-bromine batteries

## metal oxide-semiconductor solar cells

INIS: 1992-05-29; ETDE: 1981-07-18

USE mos solar cells

## metal-semiconductor solar cells

INIS: 1992-05-29; ETDE: 1981-07-18

USE ms solar cells

## metal spraying

USE spray coating

## METAL TRANSFER PROCESS

BT1 separation processes  
 RT molten salt reactors

## METAL VAPOR LASERS

INIS: 1992-08-18; ETDE: 1981-08-21

(Until August 1992, this concept was indexed by GAS LASERS.)

UF copper vapor lasers

\*BT1 gas lasers

## metal-water reactions

INIS: 1977-09-06; ETDE: 1977-04-12

USE molten metal-water reactions

## METALLIC GLASSES

INIS: 1984-01-18; ETDE: 1983-01-21

Amorphous alloys produced by extremely rapid quenching of molten material.

UF glassy alloys  
 UF glassy metals  
 UF metglass  
 RT alloys  
 RT amorphous state  
 RT glass  
 RT vitrification

## METALLICITY

2014-03-28

The proportion of a celestial body made up of chemical elements other than hydrogen and helium.

RT chemical composition  
 RT cosmochemistry  
 RT star evolution

## METALLOGRAPHY

Limited to the branch of metallurgy concerned with the preparation and examination of the surface of metals.

RT etching  
 RT fractography  
 RT materials testing  
 RT microscopy  
 RT microstructure

RT photomicrography  
 RT polishing  
 RT surface finishing

**metalloids**

USE semimetals

**METALLOPROTEINS**

INIS: 1993-08-26; ETDE: 1981-04-17

\*BT1 proteins  
 NT1 ceruloplasmin  
 NT1 ferredoxin  
 NT1 ferritin  
 NT1 hemocyanin  
 NT1 hemosiderin  
 NT1 lactoferrin  
 NT1 metallothionein  
 NT1 rubredoxin  
 NT1 transferrin  
 RT complexes  
 RT metals

**METALLOTHIONEIN**

INIS: 1984-12-04; ETDE: 1980-11-25

*Low molecular weight metal-binding proteins controlling heavy metal detoxification.*

\*BT1 metalloproteins  
 RT metals

**METALLURGICAL EFFECTS**

1994-07-01

*The effects of an alloying element on the physical, mechanical or chemical properties of an alloy.*

UF alloying effects  
 RT metallurgy

**METALLURGICAL FLUX**

(From January 1975 till March 1997

WELDING FLUXES was a valid ETDE descriptor.)

UF flux (metallurgy)  
 UF solder fluxes  
 UF soldering fluxes  
 UF welding fluxes  
 RT melting  
 RT welding

**METALLURGY**

*Use of a more specific descriptor is recommended; see also FABRICATION.*

NT1 electrometallurgy  
 NT1 extractive metallurgy  
 NT2 hydrometallurgy  
 NT2 pyrometallurgy  
 NT3 chloride volatility process  
 NT3 fluoride volatility process  
 NT1 physical metallurgy  
 NT1 powder metallurgy  
 RT metallurgical effects  
 RT zone refining

**METALS**

BT1 elements  
 NT1 actinides  
 NT2 actinium  
 NT2 americium  
 NT2 berkelium  
 NT2 californium  
 NT2 curium  
 NT2 einsteinium  
 NT2 fermium  
 NT2 lawrencium  
 NT2 mendelevium  
 NT2 neptunium  
 NT3 neptunium-alpha  
 NT3 neptunium-gamma  
 NT2 nobelium  
 NT2 plutonium  
 NT3 plutonium-alpha  
 NT3 plutonium-beta

NT3 plutonium-delta  
 NT3 plutonium-epsilon  
 NT3 plutonium-gamma  
 NT2 protactinium  
 NT2 thorium  
 NT3 thorium-alpha  
 NT3 thorium-beta  
 NT2 uranium  
 NT3 depleted uranium  
 NT3 enriched uranium  
 NT4 highly enriched uranium  
 NT4 moderately enriched uranium  
 NT4 slightly enriched uranium  
 NT3 natural uranium  
 NT3 uranium-alpha  
 NT3 uranium-beta  
 NT3 uranium-gamma  
 NT1 alkali metals  
 NT2 cesium  
 NT2 francium  
 NT2 lithium  
 NT2 potassium  
 NT2 rubidium  
 NT2 sodium  
 NT1 alkaline earth metals  
 NT2 barium  
 NT2 beryllium  
 NT2 calcium  
 NT2 magnesium  
 NT2 radium  
 NT2 strontium  
 NT1 aluminium  
 NT1 antimony  
 NT1 bismuth  
 NT1 cadmium  
 NT1 gallium  
 NT1 germanium  
 NT2 germanene  
 NT1 heavy metals  
 NT1 indium  
 NT1 lead  
 NT1 liquid metals  
 NT1 mercury  
 NT1 polonium  
 NT1 rare earths  
 NT2 cerium  
 NT3 cerium-alpha  
 NT3 cerium-beta  
 NT3 cerium-gamma  
 NT2 dysprosium  
 NT2 erbium  
 NT2 europium  
 NT2 gadolinium  
 NT2 holmium  
 NT2 lanthanum  
 NT2 lutetium  
 NT2 neodymium  
 NT2 praseodymium  
 NT2 promethium  
 NT2 samarium  
 NT2 terbium  
 NT2 thulium  
 NT2 ytterbium  
 NT1 refractory metals  
 NT2 hafnium  
 NT3 hafnium-alpha  
 NT3 hafnium-beta  
 NT2 iridium  
 NT2 molybdenum  
 NT2 niobium  
 NT3 niobium-alpha  
 NT3 niobium-beta  
 NT2 osmium  
 NT2 rhenium  
 NT2 rhodium  
 NT2 ruthenium  
 NT2 tantalum  
 NT2 technetium  
 NT2 tungsten

NT3 tungsten-alpha  
 NT1 scrap metals  
 NT1 thallium  
 NT1 tin  
 NT1 transition elements  
 NT2 chromium  
 NT2 cobalt  
 NT2 copper  
 NT2 gold  
 NT2 hafnium  
 NT3 hafnium-alpha  
 NT3 hafnium-beta  
 NT2 iron  
 NT3 iron-alpha  
 NT3 iron-delta  
 NT3 iron-gamma  
 NT2 manganese  
 NT3 manganese-alpha  
 NT2 molybdenum  
 NT2 nickel  
 NT2 niobium  
 NT3 niobium-alpha  
 NT3 niobium-beta  
 NT2 platinum metals  
 NT3 iridium  
 NT3 osmium  
 NT3 palladium  
 NT3 platinum  
 NT3 rhodium  
 NT3 ruthenium  
 NT2 rhenium  
 NT2 scandium  
 NT2 silver  
 NT2 tantalum  
 NT2 technetium  
 NT2 titanium  
 NT3 titanium-alpha  
 NT3 titanium-beta  
 NT2 tungsten  
 NT3 tungsten-alpha  
 NT2 vanadium  
 NT2 yttrium  
 NT2 zirconium  
 NT3 zirconium-alpha  
 NT3 zirconium-beta  
 NT3 zirconium-omega

NT1 zinc  
 RT alloys  
 RT azbel-kaner resonance  
 RT carbonyls  
 RT grueneisen formula  
 RT metal industry  
 RT metalloproteins  
 RT metallothionein  
 RT semimetals  
 RT work functions

**METAMATERIALS**

2014-10-28

BT1 materials  
 RT nanomaterials  
 RT split-ring resonators

**METAMICT STATE**

INIS: 1985-06-10; ETDE: 1982-02-23

*State of a radioactive mineral, exhibiting lattice disruption due to radiation damage while the original external morphology is retained.*

RT crystal structure  
 RT minerals  
 RT physical radiation effects

**METAMORPHIC ROCKS**

UF crystalline rocks  
 UF hornfelses  
 BT1 rocks  
 NT1 amphibolites  
 NT1 gneisses  
 NT1 granulites

- NT1 marble  
 NT1 quartzites  
 NT1 schists  
 NT1 serpentinites  
 RT basement rock

**METAMORPHISM**

*The mineralogical and structural adjustment of solid rocks to physical and chemical conditions which have been imposed at depth below the surface zones of weathering and cementation, which differ from the conditions under which the rocks in question originated.*

- NT1 hydrothermal alteration  
 RT geology  
 RT hydrothermal stage  
 RT tectonics

**METAMORPHOSIS**

- RT adults  
 RT animal growth  
 RT larvae  
 RT ontogenesis  
 RT pupae

**metaphase**

- USE mitosis

**METASTABLE STATES**

*For atomic and molecular states only; for nuclear states use ISOMERIC NUCLEI.*

- \*BT1 excited states

**METASTASES**

- RT neoplasms

**meteoric water**

2000-04-12

*Water of recent atmospheric origin.*

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE ground water

**METEORITES**

- NT1 iron meteorites  
 NT1 stone meteorites  
 NT2 achondrites  
 NT2 chondrites  
 RT meteoroids  
 RT tektites

**METEORIODS**

- UF meteors  
 RT meteorites  
 RT solar system

**METEOROLOGY**

- RT acoustic radar  
 RT anticyclones  
 RT atmospheric circulation  
 RT atmospheric precipitations  
 RT buoys  
 RT climate models  
 RT climates  
 RT cloud cover  
 RT clouds  
 RT condensation nuclei  
 RT cyclones  
 RT earth atmosphere  
 RT general circulation models  
 RT seasons  
 RT site characterization  
 RT site selection  
 RT storms  
 RT temperature inversions  
 RT weather  
 RT wind  
 RT wmo

**meteors**

- USE meteoroids

**meter wave radiation**

- USE mhz range  
 USE radiowave radiation

**METERING**

INIS: 2000-02-01; ETDE: 1980-10-27

- NT1 master metering  
 RT measuring methods  
 RT power meters

**METERS**

INIS: 2000-02-01; ETDE: 1980-11-08

- BT1 measuring instruments  
 NT1 activity meters  
 NT1 carbon meters  
 NT1 flowmeters  
 NT2 plasma eaters  
 NT1 gas meters  
 NT1 heat meters  
 NT1 hydrogen meters  
 NT1 inclinometers  
 NT1 oxygen meters  
 NT1 power meters  
 NT1 reactivity meters  
 NT1 sulfur meters  
 NT1 tritium meters  
 RT metrology

**metglass**

INIS: 1984-01-18; ETDE: 2002-03-28

- USE metallic glasses

**METHACRYLATES**

- BT1 carboxylic acid salts  
 RT vinyl monomers

**METHACRYLIC ACID**

- UF methacrylic acid-alpha  
 \*BT1 monocarboxylic acids  
 RT polyacrylates  
 RT vinyl monomers

**methacrylic acid-alpha**

- USE methacrylic acid

**METHACRYLIC ACID ESTERS**

(From May 1975 till March 1997 METHYL

METHACRYLATE was a valid ETDE descriptor.)

- UF methyl methacrylate  
 \*BT1 carboxylic acid esters  
 RT pmma  
 RT vinyl monomers

**METHADONE HYDROCHLORIDE**

INIS: 1984-05-24; ETDE: 1976-12-15

- \*BT1 narcotics

**METHANATION**

2000-04-12

*Preparation of methane from carbon monoxide and hydrogen.*

- BT1 chemical reactions  
 RT beacon process  
 RT reduction  
 RT shift processes  
 RT synthesis gas

**METHANE**

- UF biogas  
 UF coalbed methane  
 UF digester gas  
 UF firedamp  
 UF gobar gas  
 \*BT1 alkanes  
 RT biothermgas process  
 RT bromoform  
 RT carbon tetrachloride  
 RT carbon tetrafluoride  
 RT chloroform  
 RT cryogenic fluids  
 RT ethyl methanesulfonate

- RT fluoroform  
 RT greenhouse gases  
 RT iodoform  
 RT landfill gas  
 RT methanotrophic bacteria  
 RT methyl bromide  
 RT methyl chloride  
 RT methyl fluoride  
 RT methyl iodide  
 RT methylene chloride  
 RT nitromethane

**methane hydrate deposits**

INIS: 2000-04-12; ETDE: 1983-01-21

- USE natural gas hydrate deposits

**methane hydrates**

INIS: 1993-01-28; ETDE: 1983-01-21

- USE gas hydrates

**methane rich gas process**

INIS: 2000-04-12; ETDE: 1976-01-26

- USE sng processes

**METHANOGENIC BACTERIA**

INIS: 1981-05-11; ETDE: 1978-03-03

*Bacteria which ferment various organic materials with the production of methane.*

- \*BT1 bacteria  
 NT1 clostridium acetobutylicum

**METHANOL**

- UF carbinol  
 UF methyl alcohol  
 UF methyl-fuel  
 UF wood alcohol  
 \*BT1 alcohols  
 RT liquid phase methanol process  
 RT methanol fuels

**METHANOL FUELS**

INIS: 1992-04-13; ETDE: 1979-09-06

*Pure methanol, methanol-water mixtures, or methanol with additives; for methanol-gasoline mixtures, use GASOHOL.*

- \*BT1 alcohol fuels  
 RT automotive fuels  
 RT gasohol  
 RT methanol

**METHANOL PLANTS**

INIS: 2000-04-12; ETDE: 1979-02-23

- BT1 industrial plants  
 RT biomass conversion plants  
 RT chemical plants  
 RT coal gasification  
 RT gasoline plants

**METHANOTROPHIC BACTERIA**

INIS: 1992-07-21; ETDE: 1983-05-21

*Gram-negative bacteria that secure growth energy by the oxidation of methane.*

- \*BT1 bacteria  
 RT cell cultures  
 RT methane

**METHEMOGLOBIN**

- \*BT1 hemoglobin  
 RT erythrocytes  
 RT heme  
 RT respiration

**methenamine**

INIS: 1984-05-24; ETDE: 1981-04-20

(Prior to April 1994, this was a valid ETDE descriptor.)

- USE antimicrobial agents

**METHIONINE**

- UF methylmercaptoaminobutyric acid  
 UF methylthioaminobutyric acid  
 \*BT1 amino acids

- \*BT1 lipotropic factors
- \*BT1 organic sulfur compounds
- RT methyl transferases

**METHOTREXATE**

- UF *amethopterin*
- \*BT1 antimetabolites

**METHOXY RADICALS**

- \*BT1 alkoxy radicals

**methoxybenzene**

- USE anisole

**METHYL ACETATE**

- INIS: 2000-04-12; ETDE: 1983-09-15
- \*BT1 acetic acid esters

**methyl alcohol**

- USE methanol

**METHYL BROMIDE**

- INIS: 1999-04-14; ETDE: 1976-11-01
- \*BT1 brominated aliphatic hydrocarbons
- RT fumigants
- RT methane

**METHYL CHLORIDE**

- INIS: 1978-07-31; ETDE: 1978-09-11
- UF *chloromethane*
- \*BT1 chlorinated aliphatic hydrocarbons
- RT methane

**METHYL ETHER**

- 1976-07-30
- UF *dimethyl ether*
- \*BT1 ethers
- RT organic solvents

**methyl ethyl diketone**

- USE 2-3-pentanedione

**METHYL FLUORIDE**

- INIS: 1978-07-31; ETDE: 1978-09-11
- \*BT1 fluorinated aliphatic hydrocarbons
- RT methane

**methyl-fuel**

- INIS: 2000-04-12; ETDE: 1976-05-13
- Trademark name for proprietary blend of methanol and controlled amounts of C2 and C4 alcohols.
- USE alcohols
- USE methanol

**methyl glyocoll**

- USE sarcosine

**METHYL IODIDE**

- \*BT1 iodinated aliphatic hydrocarbons
- RT iodox process
- RT methane

**METHYL ISOBUTYL KETONE**

- UF *mibk*
- \*BT1 ketones

**methyl methacrylate**

- See also PMMA.
- (Prior to March 1997 this was a valid ETDE descriptor.)
- USE methacrylic acid esters

**METHYL METHANESULFONATE**

- INIS: 1985-07-22; ETDE: 1976-05-17
- (Prior to August 1985 MMS was used.)
- UF *mms*
- BT1 mutagens
- \*BT1 sulfonic acid esters

**methyl nitrate**

- INIS: 2000-04-12; ETDE: 1980-11-25
- USE nitric acid esters

**METHYL NITROSOUREA**

- INIS: 2000-04-12; ETDE: 1980-07-23
- UF *mmu*
- \*BT1 carbonic acid derivatives
- BT1 mutagens
- \*BT1 nitroso compounds

**METHYL ORANGE**

- \*BT1 amines
- \*BT1 azo dyes
- BT1 indicators
- \*BT1 sulfonic acids

**methyl phenols**

- USE cresols

**methyl phenyl ether**

- USE anisole

**methyl phenyl ketone**

- USE acetophenone

**methyl pyridines**

- USE picolines

**METHYL RADICALS**

- \*BT1 alkyl radicals

**METHYL RED**

- \*BT1 amino acids
- \*BT1 azo dyes
- BT1 indicators

**METHYL TRANSFERASES**

- INIS: 1985-12-11; ETDE: 1984-06-29
- A group of enzymes that catalyze the transfer of a methyl group from one compound to another.

- \*BT1 carbon-group transferases
- RT dna methylases
- RT dna repair
- RT methionine
- RT methylation

**METHYL TYROSINE**

- INIS: 1981-08-06; ETDE: 1981-09-22
- UF *methyltyrosine*
- \*BT1 amino acids
- \*BT1 aromatics
- \*BT1 hydroxy acids
- RT melanin
- RT radiopharmaceuticals
- RT tyrosine

**METHYL VIOLET**

- UF *crystal violet*
- \*BT1 amines
- \*BT1 triphenylmethane dyes

**methyl viologen**

- INIS: 2000-04-12; ETDE: 1980-12-08
- USE bipyridines

**methylacetylene**

- USE propyne

**METHYLAL**

- UF *dimethoxymethane*
- UF *formal (methylal)*
- UF *formaldehydedimethylacetal*
- \*BT1 ethers
- RT formaldehyde

**METHYLAMINE**

- INIS: 1975-09-16; ETDE: 1975-10-28
- \*BT1 amines

**methylaminoacetic acid**

- USE sarcosine

**METHYLATION**

- BT1 chemical reactions
- RT methyl transferases

**methylbenzene**

- USE toluene

**methylbutane (2-)**

- INIS: 1983-09-06; ETDE: 2002-03-28
- USE 2-methylbutane

**METHYLENE BLUE**

- \*BT1 amines
- \*BT1 antimicrobial agents
- \*BT1 chlorides
- \*BT1 phenothiazines

**METHYLENE CHLORIDE**

- 1982-02-09
- UF *dichloromethane*
- \*BT1 organic chlorine compounds
- RT methane

**METHYLENE RADICALS**

- UF *methylidene radicals*
- BT1 radicals

**methylidene radicals**

- USE methylene radicals

**methylmercaptoaminobutyric acid**

- USE methionine

**METHYLMERCURY**

- INIS: 1999-03-03; ETDE: 1976-03-11
- \*BT1 organic mercury compounds

**METHYLNAPHTHALENES**

- INIS: 2000-04-12; ETDE: 1986-02-21
- \*BT1 alkylated aromatics
- \*BT1 polycyclic aromatic hydrocarbons

**methylpropane (2-)**

- ETDE: 2002-03-28
- USE 2-methylpropane

**methylpropanol (2-)**

- ETDE: 2002-03-28
- USE 2-methylpropanol

**methylpropene (2-)**

- ETDE: 2002-03-28
- USE 2-methylpropene

**methyltetrahydrofuran**

- 1984-06-21
- USE mthf

**methylthioaminobutyric acid**

- USE methionine

**METHYLTHYMOL BLUE**

- BT1 indicators
- \*BT1 triphenylmethane dyes

**methyltyrosine**

- INIS: 1984-04-04; ETDE: 2002-06-13
- USE methyl tyrosine

**METRIC SYSTEM**

- INIS: 2000-04-12; ETDE: 1975-12-16
- RT si units

**METRICS**

- NT1 kerr metric
- NT1 schwarzschild metric
- RT curvilinear coordinates
- RT fractals
- RT gravitational fields
- RT mathematical space
- RT mathematics
- RT matrices
- RT measure theory
- RT relativity theory
- RT space-time
- RT tensors

**METRIZAMIDE**

INIS: 1981-08-06; ETDE: 1981-09-22

UF amipaque

\*BT1 amides

BT1 contrast media

**METROLOGY**

2017-03-23

NT1 radiation metrology

NT1 radionuclide metrology

RT meters

**METRONIDAZOLE**

UF flagyl

\*BT1 alcohols

\*BT1 antineoplastic drugs

\*BT1 imidazoles

\*BT1 nitro compounds

\*BT1 radiosensitizers

**metropolitan areas**

USE urban areas

**MEV RANGE**

From 10 exp 6 to 10 exp 9 eV.

BT1 energy range

NT1 mev range 01-10

NT1 mev range 10-100

NT1 mev range 100-1000

**MEV RANGE 01-10**

\*BT1 mev range

**MEV RANGE 10-100**

\*BT1 mev range

**MEV RANGE 100-1000**

\*BT1 mev range

**MEVALONIC ACID**

\*BT1 hydroxy acids

**MEVVA ION SOURCES**

2018-02-26

\*BT1 vacuum-arc ion sources

**MEXAMINE**

\*BT1 ethers

\*BT1 radioprotective substances

**MEXICAN ORGANIZATIONS**

INIS: 1975-12-09; ETDE: 1976-01-26

BT1 national organizations

**mexican triga-mark-3 reactor**

2000-04-12

USE triga-3-salazar reactor

**mexican triga-mk-3 reactor**

INIS: 1984-06-21; ETDE: 2002-03-28

USE triga-3-salazar reactor

**MEXICO**

1997-06-19

BT1 developing countries

BT1 latin america

BT1 north america

RT cerro prieto geothermal field

RT oecd

RT pathe geothermal field

RT rio grande river

**MEYERS PROCESS**

2000-04-12

Process for removal of pyritic sulfur from coal by ferric sulfate leaching.

\*BT1 desulfurization

**MFTF DEVICES**

INIS: 1978-04-21; ETDE: 1977-10-20

Mirror Fusion Test Facility.

UF mirror fusion test facility

UF mx devices

\*BT1 magnetic mirrors

**mfx device**

2000-04-12

Mirror fusion experiment.

USE magnetic mirrors

**MH-1A REACTOR**

USA Army Corps of Engineers, Gatun Lake, Panama Canal Zone.

UF floating nuclear power plant-sturgis

UF sturgis-floating nuclear power plant

\*BT1 experimental reactors

\*BT1 mobile reactors

\*BT1 pwr type reactors

**MHD CHANNELS**

UF magnetohydrodynamic channels

RT diffusers

RT mhd generators

RT mhd power plants

RT plasma seeding

**MHD EQUILIBRIUM**

INIS: 1984-05-28; ETDE: 1984-06-14

BT1 equilibrium

RT magnetohydrodynamics

RT plasma instability

**MHD GENERATOR AEDC**

INIS: 2000-04-12; ETDE: 1980-02-11

MHD test facility at Arnold Engineering Development Center which simulates coal-fired MHD.

UF high performance demonstration experiment

UF hpde

UF mhd high performance demonstration experiment

\*BT1 mhd generators

**MHD GENERATOR AERL MARK VI**

INIS: 2000-04-12; ETDE: 1979-05-02

Oil-fired MHD test facility at AVCO Everett Research Laboratory, Massachusetts, USA.

\*BT1 mhd generators

RT mhd generator aerl mark vii

**MHD GENERATOR AERL MARK VII**

INIS: 2000-04-12; ETDE: 1985-05-07

\*BT1 mhd generators

RT mhd generator aerl mark vi

**MHD GENERATOR CDIF**

INIS: 1993-06-08; ETDE: 1979-05-02

Coal-Fired Component Development and Integration Facility, Butte, Montana, USA.

\*BT1 coal-fired mhd generators

**MHD GENERATOR CFFF**

INIS: 1993-05-04; ETDE: 1979-05-09

Coal Fired Flow Facility for MHD component testing, Tullahoma, Tennessee.

UF cfff

\*BT1 coal-fired mhd generators

**MHD GENERATOR ETF**

INIS: 2000-04-12; ETDE: 1979-05-02

Engineering test facility. DOE coal-fired combined-cycle MHD/steam demonstration plant.

\*BT1 coal-fired mhd generators

\*BT1 combined-cycle power plants

\*BT1 mhd power plants

**mhd generator etl mark v**

INIS: 2000-04-12; ETDE: 1979-05-02

Gas- or oil-fired MHD test facility at the Electrotechnical Laboratory, Japan.

(Prior to January 1995, this was a valid descriptor.)

USE mhd generators

**MHD GENERATOR U-02**

INIS: 2000-04-12; ETDE: 1979-05-02

Natural-gas fired MHD test facility in the Russian Federation.

\*BT1 mhd generators

**MHD GENERATOR U-25**

INIS: 2000-04-12; ETDE: 1979-05-02

Natural-gas fired MHD pilot plant in the Russian Federation.

\*BT1 mhd generators

**MHD GENERATOR UTSI**

INIS: 2000-04-12; ETDE: 1979-05-02

Coal-fired MHD generator at University of Tennessee Space Institute, USA.

\*BT1 coal-fired mhd generators

**MHD GENERATORS**

UF faraday generators

UF hall generators

UF magnetohydrodynamic generators

UF mhd generator etl mark v

BT1 direct energy converters

NT1 closed-cycle mhd generators

NT2 liquid-metal mhd generators

NT1 coal-fired mhd generators

NT2 mhd generator cdif

NT2 mhd generator cfff

NT2 mhd generator etf

NT2 mhd generator utsi

NT1 disk mhd generators

NT1 mhd generator aedc

NT1 mhd generator aerl mark vi

NT1 mhd generator aerl mark vii

NT1 mhd generator u-02

NT1 mhd generator u-25

NT1 open-cycle mhd generators

NT1 pulsed mhd generators

RT end effects

RT magnetohydrodynamics

RT mhd channels

RT mhd power plants

RT plasma seeding

RT seed recovery

RT seed-slag interactions

RT vapor jet ejectors

RT vapor separators

**mhd high performance****demonstration experiment**

INIS: 2000-04-12; ETDE: 1980-02-11

USE mhd generator aedc

**mhd instabilities (plasma)**

INIS: 1989-04-20; ETDE: 2002-03-28

USE plasma macroinstabilities

**MHD POWER PLANTS**

1992-03-30

BT1 power plants

NT1 mhd generator etf

RT fossil-fuel power plants

RT magnetohydrodynamics

RT mhd channels

RT mhd generators

**MHZ RANGE**

UF meter wave radiation

UF very high frequency

UF very high frequency radiation

UF vhf

UF vhf radiation

BT1 frequency range

NT1 mhz range 01-100

NT1 mhz range 100-1000

RT radioastronomy

**MHZ RANGE 01-100**

\*BT1 mhz range

**MHZ RANGE 100-1000**

- UF decimeter wave radiation (3-10dm)  
 UF uhf radiation (100-1000 mhz)  
 UF uhf radiation (lower range)  
 UF ultrahigh frequency radiation (100-1000 mhz)  
 UF ultrahigh frequency radiation (lower range)  
 \*BT1 mhz range

**MI SOLAR CELLS**

- INIS: 2000-04-12; ETDE: 1981-07-18  
 UF metal-insulator solar cells  
 \*BT1 solar cells

**MIBG**

- INIS: 1995-01-11; ETDE: 1987-04-24  
 UF metaiodobenzylguanidine  
 \*BT1 guanidines  
 \*BT1 organic iodine compounds  
 RT radiopharmaceuticals

**mibk**

- USE methyl isobutyl ketone

**MICA**

- UF paragonite  
 \*BT1 silicate minerals  
 NT1 biotite  
 NT1 muscovite  
 NT1 vermiculite  
 RT dielectric materials  
 RT dielectric track detectors  
 RT kimberlites  
 RT pegmatites

**MICE**

- \*BT1 rodents  
 NT1 transgenic mice

**micellar-polymer flooding**

- INIS: 1992-01-16; ETDE: 1976-06-07  
 USE microemulsion flooding

**MICELLAR SYSTEMS**

- INIS: 1994-07-01; ETDE: 1975-08-19  
 Submicroscopic aggregates of molecules.  
 RT colloids  
 RT microemulsions  
 RT molecules  
 RT particles

**MICHELSON INTERFEROMETER**

- INIS: 1977-03-01; ETDE: 1977-04-12  
 \*BT1 interferometers

**MICHIGAN**

- 1997-06-19  
 \*BT1 usa  
 RT au sable river  
 RT detroit river  
 RT grand river  
 RT menominee river  
 RT saginaw river  
 RT saint clair river

**michigan state triga-mk-1 reactor**

- 1976-02-11  
 (Prior to November 1990 this was a valid ETDE descriptor.)  
 USE triga-1-michigan reactor

**michigan state university cyclotrons**

- 1993-11-09  
 USE msu cyclotrons

**MICRO AMP BEAM CURRENTS**

- From 10 exp -6 to .001 amp.  
 \*BT1 beam currents

**MICRO GY RANGE**

- 2012-05-30  
 \*BT1 absorbed dose range

- NT1 micro gy range 01-10  
 NT1 micro gy range 10-100  
 NT1 micro gy range 100-1000

**MICRO GY RANGE 01-10**

- 2012-05-30  
 \*BT1 micro gy range

**MICRO GY RANGE 10-100**

- 2012-05-30  
 \*BT1 micro gy range

**MICRO GY RANGE 100-1000**

- 2012-05-30  
 \*BT1 micro gy range

**MICRO-SCALE HYDROELECTRIC POWER PLANTS**

- INIS: 1993-12-30; ETDE: 1982-05-12  
 Hydroelectric power plants producing less than 100kW.  
 \*BT1 hydroelectric power plants

**MICRO SV PER HOUR RANGE**

- 2013-01-23  
 BT1 radiation dose rate ranges  
 NT1 micro sv per hour range 01-10  
 NT1 micro sv per hour range 10-100  
 NT1 micro sv per hour range 100-1000

**MICRO SV PER HOUR RANGE 01-10**

- 2013-01-23  
 \*BT1 micro sv per hour range

**MICRO SV PER HOUR RANGE 10-100**

- 2013-01-23  
 \*BT1 micro sv per hour range

**MICRO SV PER HOUR RANGE 100-1000**

- 2013-01-23  
 \*BT1 micro sv per hour range

**MICRO SV RANGE**

- 2012-05-30  
 \*BT1 equivalent dose range

**MICROANALYSIS**

- NT1 deuteron microprobe analysis  
 NT1 electron microprobe analysis  
 NT1 ion microprobe analysis  
 NT1 proton microprobe analysis  
 RT impurities  
 RT qualitative chemical analysis  
 RT quantitative chemical analysis  
 RT trace amounts

**MICROARRAY TECHNOLOGY**

- 2006-01-26  
 Biotechnology method useful, for example, in determining how a cell can control the expression of large numbers of genes simultaneously.  
 BT1 biotechnology  
 RT gene regulation  
 RT genetic mapping  
 RT transcription

**MICROBALANCES**

- \*BT1 balances

**MICROBIAL DRUG RESISTANCE**

- 1992-06-11  
 The resistance developed by microorganisms to a drug.  
 RT drugs  
 RT microorganisms

**microbial enhanced oil recovery**

- INIS: 1992-03-10; ETDE: 1980-10-27  
 USE microbial eor

**MICROBIAL EOR**

- INIS: 1999-03-19; ETDE: 1980-10-27  
 UF microbial enhanced oil recovery  
 SF microbial processes  
 BT1 enhanced recovery  
 RT bacillus licheniformis  
 RT corynebacterium fascians  
 RT microbial leaching  
 RT microorganisms

**microbial flora**

- USE microorganisms

**MICROBIAL LEACHING**

- INIS: 1992-03-17; ETDE: 1988-10-27  
 \*BT1 leaching  
 RT microbial eor

**microbial processes**

- INIS: 1991-09-23; ETDE: 1978-01-23  
 SEE anaerobic digestion  
 SEE bioconversion  
 SEE biodegradation  
 SEE biophotolysis  
 SEE fermentation  
 SEE microbial eor

**microcephaly**

- USE malformations

**MICROCHANNEL ELECTRON MULTIPLIERS**

- INIS: 1976-02-11; ETDE: 1976-04-19  
 \*BT1 electron multipliers

**MICROCLIMATES**

- INIS: 1992-05-08; ETDE: 1981-06-13  
 The local, rather uniform, climate of a specific place or habitat, compared with the climate of the entire area of which it is a part.  
 BT1 climates  
 RT thermal comfort

**microcline**

- INIS: 2000-04-12; ETDE: 1977-06-02  
 A white to pale yellow, green, or occasionally red mineral of the feldspar group, like orthoclase or common feldspar in composition, but triclinic in form. (Prior to March 1996 this was a valid ETDE descriptor.)  
 USE feldspars

**MICROCOCCUS**

- \*BT1 bacteria  
 NT1 micrococcus luteus  
 NT1 micrococcus lysodeiacticus  
 NT1 micrococcus radiodurans

**MICROCOCCUS LUTEUS**

- INIS: 1977-10-17; ETDE: 1977-11-10  
 \*BT1 micrococcus  
 RT nucleases

**MICROCOCCUS LYSODEICTICUS**

- \*BT1 micrococcus

**MICROCOCCUS RADIODURANS**

- \*BT1 micrococcus

**MICROCOMPUTERS**

- INIS: 1988-08-02; ETDE: 1976-08-05  
 \*BT1 digital computers  
 NT1 personal computers

**MICROCOSMS**

- INIS: 1999-05-18; ETDE: 1981-07-06  
 Experimental units designed to contain important components of and to exhibit important processes occurring in a whole ecosystem.  
 RT biological models

- RT functional models  
 RT mathematical models  
 RT mockup  
 RT simulators

**MICRODOSIMETRY**

- BT1 dosimetry  
 RT energy losses  
 RT let  
 RT spatial dose distributions  
 RT wall effects

**MICROEARTHQUAKES**

1993-01-28

*Magnitude less than two on the Richter scale.*

- \*BT1 earthquakes  
 RT aftershocks

**microelectromechanical systems**

2014-08-26

- USE mems

**MICROELECTRONIC CIRCUITS**

1976-03-25

- BT1 electronic circuits  
 NT1 integrated circuits  
 NT2 cmos circuits  
 NT1 microprocessors  
 RT microelectronics  
 RT printed circuits

**MICROELECTRONICS**

- RT mems  
 RT microelectronic circuits

**MICROEMULSION FLOODING**

INIS: 1992-01-16; ETDE: 1976-06-07

- UF micellar-polymer flooding  
 SF polymer flooding  
 \*BT1 miscible-phase displacement  
 RT enhanced recovery  
 RT petroleum  
 RT well stimulation

**MICROEMULSIONS**

INIS: 1992-02-21; ETDE: 1976-07-07

*Optically isotropic, clear, and stable dispersions of oil, water, surfactant, and cosurfactant; the latter is often an alcohol.*

- \*BT1 emulsions  
 RT micellar systems  
 RT well stimulation

**microflora**

- USE microorganisms

**MICROGENERATION**

2006-05-15

*Generation of electricity or heat below approximately 50 kW.*

- BT1 power generation  
 RT fuel cell power plants  
 RT heat production  
 RT low-head hydroelectric power plants  
 RT photovoltaic power plants  
 RT small-scale hydroelectric power plants  
 RT solar thermal power plants

**MICROHARDNESS**

- \*BT1 hardness  
 RT ceramography

**MICRONESIA**

INIS: 1985-06-10; ETDE: 1978-12-11

*Islands of West Pacific Ocean east of Philippines; includes the Mariana, Palau, Caroline, Marshall, and Gilbert Islands.*

- BT1 islands  
 BT1 oceania  
 NT1 kiribati  
 NT1 marshall islands

- NT2 bikini  
 NT2 eniwetok  
 NT1 nauru  
 NT1 tuvalu  
 RT pacific ocean

**MICROORGANISMS**

- UF germs (microorganisms)  
 UF microbial flora  
 UF microflora  
 NT1 bacteria  
 NT2 actinomyces  
 NT3 frankia  
 NT2 aerobacter  
 NT2 aeromonas  
 NT2 azotobacter  
 NT2 bacillus  
 NT3 bacillus cereus  
 NT3 bacillus licheniformis  
 NT3 bacillus megaterium  
 NT3 bacillus subtilis  
 NT3 thiobacillus ferrooxidans  
 NT3 thiobacillus oxidans  
 NT2 brucella  
 NT2 clostridium  
 NT3 clostridium acetobutylicum  
 NT3 clostridium botulinum  
 NT3 clostridium butyricum  
 NT3 clostridium perfringens  
 NT3 clostridium thermocellum  
 NT3 clostridium  
 thermosaccharolyticum  
 NT2 coliforms  
 NT2 corynebacterium fascians  
 NT2 corynebacterium parvum  
 NT2 escherichia coli  
 NT2 haemophilus  
 NT2 klebsiella  
 NT2 lactobacillus  
 NT2 legionella anisa  
 NT2 legionella pneumophila  
 NT2 meningococcus  
 NT2 methanogenic bacteria  
 NT3 clostridium acetobutylicum  
 NT2 methanotrophic bacteria  
 NT2 micrococcus  
 NT3 micrococcus luteus  
 NT3 micrococcus lysodeicticus  
 NT3 micrococcus radiodurans  
 NT2 mycobacterium  
 NT3 mycobacterium tuberculosis  
 NT2 nocardia  
 NT2 photosynthetic bacteria  
 NT3 rhodospseudomonas  
 NT3 rhodospirillum  
 NT2 pneumococcus  
 NT2 proteus  
 NT2 pseudomonas  
 NT2 rhizobium  
 NT2 salmonella  
 NT3 salmonella typhimurium  
 NT2 serratia  
 NT2 shigella  
 NT2 spirochaetes  
 NT2 staphylococcus  
 NT2 streptococcus  
 NT2 streptomyces  
 NT2 sulfate-reducing bacteria  
 NT3 desulfovibrio  
 NT2 sulfur-oxidizing bacteria  
 NT3 rhodococcus  
 NT3 thiobacillus ferrooxidans  
 NT3 thiobacillus oxidans  
 NT2 thermoactinomyces  
 NT2 zymomonas mobilis  
 NT1 cyanobacteria  
 NT1 mycoplasma  
 NT2 acholeplasma laidlawii b  
 NT1 protozoa

- NT2 ciliata  
 NT3 paramecium  
 NT3 tetrahymena  
 NT2 mastigophora  
 NT3 dinoflagellate  
 NT3 euglena  
 NT3 trypanosoma  
 NT2 sarcodina  
 NT3 amoeba  
 NT3 foraminifera  
 NT2 sporozoa  
 NT3 babesidae  
 NT3 plasmodium  
 NT1 rickettsiae  
 NT1 unicellular algae  
 NT2 chlamydomonas  
 NT2 chlorella  
 NT2 euglena  
 NT2 scenedesmus  
 NT1 viruses  
 NT2 aids virus  
 NT2 bacteriophages  
 NT2 influenza viruses  
 NT2 measles virus  
 NT2 oncogenic viruses  
 NT3 adenovirus  
 NT3 leukemia viruses  
 NT3 polyoma virus  
 NT2 polio virus  
 NT2 simian virus  
 NT2 tobacco mosaic virus  
 NT2 vaccinia virus  
 NT2 zika virus  
 NT1 yeasts  
 NT2 candida  
 NT2 saccharomyces  
 NT3 saccharomyces cerevisiae  
 NT2 torula  
 RT aerobic digestion  
 RT anaerobic digestion  
 RT anti-infective agents  
 RT antibiotics  
 RT autotrophs  
 RT biology  
 RT bioremediation  
 RT cell cultures  
 RT immobilized cells  
 RT infectious diseases  
 RT microbial drug resistance  
 RT microbial eor  
 RT parasites  
 RT pathogens  
 RT photoreactivation  
 RT virulence

**MICROPROCESSORS**

INIS: 1977-03-01; ETDE: 1976-08-04

- \*BT1 microelectronic circuits  
 RT array processors  
 RT computers

**micropulsations**

- USE pulsations

**MICRORADIOGRAPHY**

INIS: 1983-03-15; ETDE: 1975-10-01

- UF radiography (micro)  
 RT biomedical radiography  
 RT industrial radiography

**MICROSCOPES**

- NT1 electron microscopes  
 NT1 ion microscopes  
 NT1 optical microscopes  
 RT microscopy

**MICROSCOPY**

- NT1 acoustic microscopy  
 NT1 atomic force microscopy  
 NT1 electron microscopy  
 NT2 scanning electron microscopy

**NT2** transmission electron microscopy  
**NT1** ion microscopy  
**NT1** optical microscopy  
**NT2** scanning light microscopy  
**NT1** scanning tunneling microscopy  
*RT* ceramography  
*RT* histological techniques  
*RT* histology  
*RT* metallography  
*RT* microscopes  
*RT* morphological changes  
*RT* photomicrography

## MICROSECONDS LIVING RADIOISOTOPES

1997-02-07

(From 10 exp -6 to 0.001 sec; prior to June 2003 MICROSEC LIVING

RADIOISOTOPES was used for this concept.)

\*BT1 radioisotopes

**NT1** actinium 216  
**NT1** actinium 218  
**NT1** actinium 219  
**NT1** astatine 215  
**NT1** astatine 216  
**NT1** bismuth 185  
**NT1** bismuth 187  
**NT1** bohrium 260  
**NT1** bohrium 263  
**NT1** cesium 112  
**NT1** cesium 113  
**NT1** chromium 64  
**NT1** copernicium 277  
**NT1** copernicium 278  
**NT1** copernicium 282  
**NT1** darmstadtium 267  
**NT1** darmstadtium 269  
**NT1** darmstadtium 273  
**NT1** dysprosium 140  
**NT1** europium 130  
**NT1** fermium 241  
**NT1** fermium 242  
**NT1** fermium 258  
**NT1** flerovium 285  
**NT1** francium 212  
**NT1** francium 213  
**NT1** francium 217  
**NT1** gold 170  
**NT1** gold 171  
**NT1** hafnium 156  
**NT1** hassium 264  
**NT1** hassium 265  
**NT1** iodine 109  
**NT1** iodine 116  
**NT1** iodine 121  
**NT1** iodine 122  
**NT1** iridium 164  
**NT1** iridium 165  
**NT1** krypton 84  
**NT1** krypton 85  
**NT1** lead 178  
**NT1** lutetium 154  
**NT1** meitnerium 266  
**NT1** mendelevium 245  
**NT1** mercury 171  
**NT1** mercury 172  
**NT1** mercury 173  
**NT1** mercury 201  
**NT1** neon 34  
**NT1** nihonium 278  
**NT1** nobelium 250  
**NT1** osmium 161  
**NT1** platinum 166  
**NT1** platinum 167  
**NT1** polonium 186  
**NT1** polonium 188  
**NT1** polonium 213  
**NT1** polonium 214  
**NT1** protactinium 218

**NT1** protactinium 221  
**NT1** radium 217  
**NT1** radium 218  
**NT1** radon 194  
**NT1** radon 215  
**NT1** radon 216  
**NT1** radon 217  
**NT1** rhenium 159  
**NT1** rhenium 160  
**NT1** rhenium 194  
**NT1** rhodium 89  
**NT1** rubidium 76  
**NT1** ruthenium 87  
**NT1** rutherfordium 253  
**NT1** rutherfordium 254  
**NT1** technetium 86  
**NT1** tellurium 106  
**NT1** terbium 135  
**NT1** thorium 217  
**NT1** thorium 219  
**NT1** thorium 220  
**NT1** thulium 144  
**NT1** thulium 145  
**NT1** tin 102  
**NT1** uranium 219  
**NT1** uranium 222  
**NT1** uranium 223  
**NT1** uranium 224  
**NT1** ytterbium 153  
*RT* half-life  
*RT* lifetime

## microseism

*INIS: 2000-04-12; ETDE: 1980-03-04*

USE seismic noise

## microseismic monitoring

*INIS: 2000-04-12; ETDE: 1978-10-30*

USE acoustic monitoring

## MICROSOMES

\*BT1 ribosomes  
*RT* mixed-function oxidases  
*RT* rna

## MICROSPHERES

*RT* dispersions  
*RT* particle size  
*RT* radiopharmaceuticals

## MICROSPORES

BT1 spores  
*RT* pollen

## MICROSTRUCTURE

1999-05-19

**NT1** cleavage  
**NT1** grain boundaries  
**NT1** grain density  
**NT1** grain orientation  
**NT1** grain size  
**NT1** pore structure  
**NT1** widmanstaetten structure  
*RT* ceramography  
*RT* crystal defects  
*RT* crystal lattices  
*RT* inclusions  
*RT* metallography  
*RT* nanostructures  
*RT* phase diagrams  
*RT* phase transformations  
*RT* solids  
*RT* twinning

## MICROTRONS

\*BT1 cyclotrons  
**NT1** racetrack microtrons

## MICROTUBULES

*INIS: 1982-02-10; ETDE: 1981-08-04*

BT1 cell constituents

*RT* proteins

## MICROWAVE AMPLIFIERS

*UF* electron cyclotron masers  
*UF* gyrotrons  
\*BT1 amplifiers  
\*BT1 microwave equipment  
**NT1** masers

## microwave discharges

USE high-frequency discharges

## MICROWAVE DRYERS

*INIS: 2000-04-19; ETDE: 1980-06-23*

BT1 dryers  
\*BT1 microwave equipment  
*RT* microwave ovens  
*RT* microwave radiation

## MICROWAVE EQUIPMENT

\*BT1 electronic equipment  
**NT1** heterodyne receivers  
**NT1** microwave amplifiers  
**NT2** masers  
**NT1** microwave dryers  
**NT1** microwave tubes  
**NT2** backward wave tubes  
**NT2** klystrons  
**NT2** lasertrons  
**NT2** magnetrons  
**NT2** travelling wave tubes  
**NT1** squid devices  
*RT* cavity resonators  
*RT* microwave radiation  
*RT* radio equipment  
*RT* resonators  
*RT* superconducting cavity resonators  
*RT* waveguides

## MICROWAVE HEATING

*INIS: 1994-01-07; ETDE: 1981-07-18*

BT1 heating  
*RT* microwave ovens  
*RT* microwave radiation  
*RT* plasma heating

## MICROWAVE ION SOURCES

2018-02-26

\*BT1 plasma ion sources

## MICROWAVE OVENS

*INIS: 2000-04-19; ETDE: 1977-06-21*

\*BT1 electric appliances  
\*BT1 ovens  
*RT* microwave dryers  
*RT* microwave heating  
*RT* microwave radiation

## MICROWAVE POWER TRANSMISSION

1995-02-27

BT1 power transmission  
*RT* power supplies  
*RT* power systems  
*RT* rectennas  
*RT* rf systems

## MICROWAVE RADIATION

*UF* ehf radiation  
*UF* extremely high frequency radiation  
\*BT1 electromagnetic radiation  
**NT1** relict radiation  
*RT* masers  
*RT* microwave dryers  
*RT* microwave equipment  
*RT* microwave heating  
*RT* microwave ovens  
*RT* microwave spectra

## MICROWAVE SPECTRA

BT1 spectra  
*RT* microwave radiation



**MICROWAVE TUBES**

- BT1 electron tubes
- \*BT1 microwave equipment
- NT1 backward wave tubes
- NT1 klystrons
- NT1 lasertrons
- NT1 magnetrons
- NT1 travelling wave tubes
- RT thermionic tubes

**MICTOMAGNETISM**

2000-04-12

A property exhibited by some alloys whereby they are superparamagnetic.

- \*BT1 antiferromagnetism
- \*BT1 ferromagnetism

**MID-ATLANTIC BIGHT**

INIS: 1997-06-19; ETDE: 1985-07-19

The portion of the Atlantic Ocean overlying the continental shelf between Cape Hatteras and Georges Bank.

- \*BT1 atlantic ocean
- NT1 new york bight
- RT chesapeake bay
- RT coastal waters
- RT continental shelf
- RT georges bank
- RT gulf stream
- RT long island sound
- RT south atlantic bight
- RT us east coast

**mid-atlantic region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982, this was a valid ETDE descriptor.)

- USE usa

**MID-ATLANTIC RIDGE**

INIS: 2000-01-21; ETDE: 1977-08-09

- RT atlantic ocean
- RT geologic structures

**midas computer**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE computers

**MIDDAY AURORAE**

- BT1 aurorae
- RT auroral oval
- RT auroral zones
- RT charged-particle precipitation
- RT electron precipitation
- RT ionosphere
- RT proton precipitation

**middle distillates**

INIS: 1992-04-01; ETDE: 1979-11-23

- USE petroleum distillates

**MIDDLE EAST**

1991-11-06

- NT1 bahrain
- NT1 cyprus
- NT1 egyptian arab republic
- NT1 iran
- NT1 iraq
- NT1 israel
- NT1 jordan
- NT1 kuwait
- NT1 lebanon
- NT1 oman
- NT1 qatar
- NT1 saudi arabia
- NT1 syria
- NT1 turkey
- NT1 yemen
- RT arab countries
- RT oapec

RT oapec

**middle gust event**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE chemical explosions
- USE surface explosions

**MIDLAND-1 REACTOR**

Consumers Power Co., Midland, Michigan, USA. Canceled in 1986 after construction began (1973).

UF consumers power company midland-1

UF consumers power company midland-1 reactor

- \*BT1 process heat reactors
- \*BT1 pwr type reactors

**MIDLAND-2 REACTOR**

Consumers Power Co., Midland, Michigan, USA. Canceled in 1986 after construction began (1973).

UF consumers power company midland-2

UF consumers power company midland-2 reactor

- \*BT1 process heat reactors
- \*BT1 pwr type reactors

**midnight discontinuity**

- USE harang discontinuity

**midtemperature solar system test facility**

INIS: 2000-04-12; ETDE: 1980-11-08

- USE msstf

**MIDUALE**

2000-04-12

- \*BT1 chromium steels
- \*BT1 manganese additions
- \*BT1 silicon additions
- \*BT1 tungsten alloys

**MIDWEST FUEL RECOVERY****PLANT**

UF morris plant

- \*BT1 fuel reprocessing plants

**midwest region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

- USE usa

**mifi irt-2000 reactor**

Moskovskij Inzhenerno-Fizicheskij Inst.

- USE irt-2000 moscow reactor

**migas process**

INIS: 2000-04-12; ETDE: 1980-11-25

Process in which excess superheated steam supplies heat of reaction to produce gas with high hydrogen to carbon monoxide ratio.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE coal gasification

**MIGDAL THEORY**

RT bremsstrahlung

**mighty epic event**

INIS: 2000-04-12; ETDE: 1977-06-21

A test made during PROJECT ANVIL.

(Prior to January 1995, this term was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**MIGMA DEVICES**

1995-09-14

Nonthermal, nonpulsed devices, in which fusion occurs among the ions of a self-colliding beam.

- BT1 thermonuclear devices
- RT ion beams
- RT precession

**MIGRATION**

INIS: 1991-08-09; ETDE: 1976-05-13

- RT fish passage facilities
- RT population dynamics

**migration (kernel)**

INIS: 1991-08-09; ETDE: 1979-03-05

- USE amoeba effect

**migration (radionuclide)**

INIS: 1991-08-09; ETDE: 1981-01-27

- USE radionuclide migration

**migration area**

- USE migration length

**MIGRATION LENGTH**

1999-07-20

- UF migration area
- \*BT1 length
- RT diffusion length
- RT slowing-down length

**MIHAMA-1 REACTOR**

KEPCO, Mihama, Fukui, Japan. Permanent shutdown since 2015.

UF kansai-1 reactor

- \*BT1 pwr type reactors

**MIHAMA-2 REACTOR**

KEPCO, Mihama, Fukui, Japan. Permanent shutdown since 2015.

UF kansai-2 reactor

- \*BT1 pwr type reactors

**MIHAMA-3 REACTOR**

KEPCO, Mihama, Fukui, Japan.

- \*BT1 pwr type reactors

**mike event**

INIS: 1996-01-24; ETDE: 1984-06-29

A test made during PROJECT IVY.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE surface explosions
- USE thermonuclear explosions

**MILAN SUPERCONDUCTING CYCLOTRON**

INIS: 1990-12-17; ETDE: 1983-03-24

(Prior to December 1990, this descriptor was spelled MILANSUPERCOND CYCLOTRON.)

- \*BT1 heavy ion accelerators
- \*BT1 isochronous cyclotrons
- \*BT1 superconducting cyclotrons

**MILDEW**

- \*BT1 eumycota
- BT1 parasites
- RT plant diseases

**MILITARY ASSISTANCE**

INIS: 2000-04-12; ETDE: 1986-02-03

- RT foreign policy
- RT international cooperation
- RT national defense

**MILITARY EQUIPMENT**

1999-02-23

(From August 1975 till March 1997

ORDNANCE was a valid ETDE descriptor.)

- UF munitions

*UF* ordnance  
*BT1* equipment  
*RT* ammunition

**MILITARY FACILITIES**

*INIS: 1998-12-30; ETDE: 1976-03-22*

*UF* facilities (military)  
**NT1** tonopah test range  
*RT* government buildings  
*RT* national defense

**MILITARY PERSONNEL**

*UF* army personnel  
*BT1* personnel  
*RT* aviation personnel

**MILITARY STRATEGY**

*INIS: 1994-08-26; ETDE: 1986-02-03*

*RT* warfare

**MILK**

\**BT1* body fluids  
*BT1* food  
*RT* beverages  
*RT* cows  
*RT* lactation  
*RT* mammary glands  
*RT* milk products  
*RT* whey

**MILK PRODUCTS**

*BT1* food  
**NT1** butter  
**NT1** cheese  
**NT1** whey  
*RT* milk

**milk sugar**

USE lactose

**MILKWEED**

*INIS: 2000-04-12; ETDE: 1980-04-14*  
*A hydrocarbon-producing plant, possible source of synthetic petroleum.*

\**BT1* euphoria

**MILKY WAY**

*UF* local galaxy  
*BT1* galaxies  
*RT* interstellar space

**MILL TAILINGS**

*INIS: 1986-03-04; ETDE: 1977-03-04*

\**BT1* tailings  
*RT* ore processing  
*RT* radioactive wastes

**MILLER INDICES**

*RT* crystal lattices

**MILLET**

\**BT1* cereals

**MILLI AMP BEAM CURRENTS**

*From .001 to 1 amp.*

\**BT1* beam currents

**MILLI BQ RANGE**

*2012-05-31*

*BT1* radioactivity range

**MILLI EV RANGE**

*1999-07-08*

*BT1* energy range

**MILLI GY RANGE**

*2012-05-30*

\**BT1* absorbed dose range  
**NT1** milli gy range 01-10  
**NT1** milli gy range 10-100  
**NT1** milli gy range 100-1000

**MILLI GY RANGE 01-10**

*2012-05-30*

\**BT1* milli gy range

**MILLI GY RANGE 10-100**

*2012-05-30*

\**BT1* milli gy range

**MILLI GY RANGE 100-1000**

*2012-05-30*

\**BT1* milli gy range

**MILLI HZ RANGE**

*BT1* frequency range

**milli k range**

*INIS: 1984-04-04; ETDE: 2002-03-28*

USE temperature range 0000-0013 k

**MILLI SV PER HOUR RANGE**

*2013-01-23*

*BT1* radiation dose rate ranges  
**NT1** milli sv per hour range 01-10  
**NT1** milli sv per hour range 10-100  
**NT1** milli sv per hour range 100-1000

**MILLI SV PER HOUR RANGE 01-10**

*2013-01-23*

\**BT1* milli sv per hour range

**MILLI SV PER HOUR RANGE 10-100**

*2013-01-23*

\**BT1* milli sv per hour range

**MILLI SV PER HOUR RANGE 100-1000**

*2013-01-23*

\**BT1* milli sv per hour range

**MILLI SV PER YEAR RANGE**

*2013-01-23*

*BT1* radiation dose rate ranges  
**NT1** milli sv per year range 01-10  
**NT1** milli sv per year range 10-100  
**NT1** milli sv per year range 100-1000

**MILLI SV PER YEAR RANGE 01-10**

*2013-01-23*

\**BT1* milli sv per year range

**MILLI SV PER YEAR RANGE 10-100**

*2013-01-23*

\**BT1* milli sv per year range

**MILLI SV PER YEAR RANGE 100-1000**

*2013-01-23*

\**BT1* milli sv per year range

**MILLI SV RANGE**

*2012-05-30*

\**BT1* equivalent dose range  
**NT1** milli sv range 01-10  
**NT1** milli sv range 10-100  
**NT1** milli sv range 100-1000

**MILLI SV RANGE 01-10**

*2012-05-30*

\**BT1* milli sv range

**MILLI SV RANGE 10-100**

*2012-05-30*

\**BT1* milli sv range

**MILLI SV RANGE 100-1000**

*2012-05-30*

\**BT1* milli sv range

**MILLING**

*For milling in the sense of pulverization, use COMMINUTION.*

*BT1* machining  
*RT* mechanical decladding  
*RT* milling machines

**MILLING MACHINES**

\**BT1* machine tools  
*RT* milling

**MILLISECONDS LIVING RADIOISOTOPES**

*1998-01-27*

(From 0.001 to 1 sec.; prior to June 2003 MILLISEC LIVING RADIOISOTOPES was used for this concept.)

\**BT1* radioisotopes

**NT1** actinium 206

**NT1** actinium 207

**NT1** actinium 208

**NT1** actinium 209

**NT1** actinium 210

**NT1** actinium 211

**NT1** actinium 212

**NT1** actinium 213

**NT1** actinium 215

**NT1** actinium 220

**NT1** actinium 221

**NT1** aluminium 22

**NT1** aluminium 23

**NT1** aluminium 24

**NT1** aluminium 31

**NT1** aluminium 32

**NT1** aluminium 34

**NT1** antimony 104

**NT1** antimony 134

**NT1** antimony 136

**NT1** argon 31

**NT1** argon 32

**NT1** argon 33

**NT1** argon 34

**NT1** argon 48

**NT1** argon 52

**NT1** argon 53

**NT1** arsenic 64

**NT1** arsenic 66

**NT1** arsenic 75

**NT1** arsenic 84

**NT1** arsenic 86

**NT1** arsenic 87

**NT1** astatine 191

**NT1** astatine 192

**NT1** astatine 193

**NT1** astatine 194

**NT1** astatine 195

**NT1** astatine 196

**NT1** astatine 197

**NT1** astatine 212

**NT1** astatine 217

**NT1** barium 114

**NT1** barium 115

**NT1** barium 116

**NT1** barium 136

**NT1** barium 147

**NT1** barium 148

**NT1** barium 149

**NT1** barium 150

**NT1** beryllium 12

**NT1** beryllium 14

**NT1** bismuth 184

**NT1** bismuth 186

**NT1** bismuth 187

**NT1** bohrium 261

**NT1** bohrium 262

**NT1** bohrium 264

**NT1** bohrium 265

**NT1** boron 12

**NT1** boron 13

**NT1** boron 14

**NT1** boron 15

**NT1** boron 17

**NT1** boron 8

**NT1** bromine 70

**NT1** bromine 91

**NT1** bromine 92

NT1	bromine 93	NT1	europium 167	NT1	krypton 94
NT1	bromine 94	NT1	fermium 243	NT1	krypton 95
NT1	cadmium 125	NT1	fermium 244	NT1	krypton 99
NT1	cadmium 126	NT1	flerovium 286	NT1	lanthanum 117
NT1	cadmium 127	NT1	flerovium 287	NT1	lanthanum 150
NT1	cadmium 128	NT1	flerovium 288	NT1	lawrencium 257
NT1	cadmium 129	NT1	fluorine 24	NT1	lead 179
NT1	cadmium 130	NT1	francium 199	NT1	lead 180
NT1	cadmium 131	NT1	francium 200	NT1	lead 181
NT1	cadmium 132	NT1	francium 201	NT1	lead 182
NT1	cadmium 95	NT1	francium 202	NT1	lead 184
NT1	cadmium 96	NT1	francium 203	NT1	lead 205
NT1	calcium 36	NT1	francium 206	NT1	lead 207
NT1	calcium 37	NT1	francium 214	NT1	lithium 10
NT1	calcium 38	NT1	francium 218	NT1	lithium 11
NT1	calcium 39	NT1	francium 219	NT1	lithium 8
NT1	calcium 53	NT1	gadolinium 134	NT1	lithium 9
NT1	carbon 16	NT1	gadolinium 168	NT1	livermorium 290
NT1	carbon 17	NT1	gallium 60	NT1	livermorium 291
NT1	carbon 18	NT1	gallium 62	NT1	lutetium 150
NT1	carbon 9	NT1	gallium 72	NT1	lutetium 151
NT1	cerium 119	NT1	gallium 82	NT1	lutetium 152
NT1	cerium 120	NT1	gallium 83	NT1	lutetium 153
NT1	cerium 156	NT1	gallium 84	NT1	lutetium 155
NT1	cerium 157	NT1	germanium 60	NT1	lutetium 156
NT1	cesium 114	NT1	germanium 61	NT1	lutetium 161
NT1	cesium 116	NT1	germanium 62	NT1	lutetium 170
NT1	cesium 145	NT1	germanium 63	NT1	magnesium 19
NT1	cesium 146	NT1	germanium 71	NT1	magnesium 20
NT1	cesium 147	NT1	germanium 73	NT1	magnesium 21
NT1	cesium 148	NT1	germanium 85	NT1	magnesium 30
NT1	cesium 149	NT1	germanium 87	NT1	magnesium 31
NT1	cesium 150	NT1	gold 172	NT1	manganese 48
NT1	cesium 151	NT1	gold 173	NT1	manganese 49
NT1	chlorine 31	NT1	gold 174	NT1	manganese 50
NT1	chlorine 32	NT1	gold 175	NT1	manganese 61
NT1	chlorine 50	NT1	gold 191	NT1	manganese 62
NT1	chromium 45	NT1	hafnium 155	NT1	manganese 63
NT1	chromium 46	NT1	hafnium 156	NT1	manganese 66
NT1	chromium 47	NT1	hafnium 157	NT1	manganese 67
NT1	chromium 60	NT1	hassium 265	NT1	manganese 68
NT1	chromium 62	NT1	hassium 266	NT1	manganese 69
NT1	chromium 63	NT1	hassium 267	NT1	meitnerium 266
NT1	chromium 64	NT1	hassium 275	NT1	meitnerium 267
NT1	chromium 65	NT1	helium 6	NT1	meitnerium 268
NT1	chromium 66	NT1	helium 8	NT1	meitnerium 270
NT1	chromium 67	NT1	holmium 140	NT1	meitnerium 275
NT1	cobalt 52	NT1	holmium 141	NT1	meitnerium 276
NT1	cobalt 53	NT1	holmium 142	NT1	mendelevium 245
NT1	cobalt 54	NT1	holmium 143	NT1	mendelevium 246
NT1	cobalt 64	NT1	holmium 144	NT1	mercury 174
NT1	cobalt 66	NT1	holmium 148	NT1	mercury 175
NT1	cobalt 67	NT1	indium 114	NT1	mercury 176
NT1	cobalt 71	NT1	indium 128	NT1	mercury 177
NT1	cobalt 72	NT1	indium 129	NT1	mercury 178
NT1	cobalt 73	NT1	indium 130	NT1	molybdenum 109
NT1	copernicium 284	NT1	indium 131	NT1	molybdenum 111
NT1	copper 55	NT1	indium 132	NT1	molybdenum 83
NT1	copper 56	NT1	indium 133	NT1	molybdenum 89
NT1	copper 57	NT1	indium 134	NT1	moscovium 287
NT1	copper 76	NT1	indium 135	NT1	moscovium 288
NT1	copper 77	NT1	indium 97	NT1	neodymium 124
NT1	copper 78	NT1	indium 98	NT1	neodymium 125
NT1	copper 79	NT1	iodine 108	NT1	neodymium 159
NT1	copper 80	NT1	iodine 110	NT1	neodymium 160
NT1	darmstadtium 270	NT1	iodine 140	NT1	neodymium 161
NT1	darmstadtium 271	NT1	iodine 141	NT1	neon 17
NT1	darmstadtium 273	NT1	iodine 142	NT1	neon 25
NT1	darmstadtium 279	NT1	iridium 166	NT1	neon 26
NT1	dysprosium 138	NT1	iridium 167	NT1	neon 31
NT1	dysprosium 139	NT1	iridium 169	NT1	neptunium 226
NT1	dysprosium 149	NT1	iridium 194	NT1	neptunium 227
NT1	erbium 151	NT1	iron 45	NT1	nickel 49
NT1	europium 131	NT1	iron 46	NT1	nickel 50
NT1	europium 132	NT1	iron 49	NT1	nickel 52
NT1	europium 133	NT1	iron 51	NT1	nickel 53
NT1	europium 134	NT1	iron 69	NT1	nickel 55
NT1	europium 165	NT1	iron 70	NT1	nickel 73
NT1	europium 166	NT1	krypton 71	NT1	nickel 75

<b>NT1</b> nickel 76	<b>NT1</b> radon 193	<b>NT1</b> silver 95
<b>NT1</b> nickel 80	<b>NT1</b> radon 195	<b>NT1</b> sodium 19
<b>NT1</b> nihonium 283	<b>NT1</b> radon 197	<b>NT1</b> sodium 20
<b>NT1</b> nihonium 284	<b>NT1</b> radon 198	<b>NT1</b> sodium 24
<b>NT1</b> niobium 107	<b>NT1</b> radon 199	<b>NT1</b> sodium 27
<b>NT1</b> niobium 108	<b>NT1</b> radon 213	<b>NT1</b> sodium 28
<b>NT1</b> niobium 109	<b>NT1</b> radon 218	<b>NT1</b> sodium 29
<b>NT1</b> niobium 110	<b>NT1</b> rhenium 161	<b>NT1</b> sodium 30
<b>NT1</b> niobium 111	<b>NT1</b> rhenium 162	<b>NT1</b> sodium 31
<b>NT1</b> niobium 113	<b>NT1</b> rhenium 163	<b>NT1</b> sodium 32
<b>NT1</b> niobium 81	<b>NT1</b> rhenium 164	<b>NT1</b> sodium 33
<b>NT1</b> niobium 82	<b>NT1</b> rhodium 115	<b>NT1</b> sodium 34
<b>NT1</b> nitrogen 12	<b>NT1</b> rhodium 116	<b>NT1</b> sodium 35
<b>NT1</b> nitrogen 18	<b>NT1</b> rhodium 118	<b>NT1</b> strontium 100
<b>NT1</b> nitrogen 19	<b>NT1</b> rhodium 120	<b>NT1</b> strontium 101
<b>NT1</b> nobelium 251	<b>NT1</b> rhodium 121	<b>NT1</b> strontium 102
<b>NT1</b> nobelium 254	<b>NT1</b> rhodium 122	<b>NT1</b> strontium 75
<b>NT1</b> nobelium 258	<b>NT1</b> rhodium 92	<b>NT1</b> strontium 97
<b>NT1</b> osmium 162	<b>NT1</b> roentgenium 272	<b>NT1</b> strontium 98
<b>NT1</b> osmium 164	<b>NT1</b> roentgenium 273	<b>NT1</b> strontium 99
<b>NT1</b> osmium 165	<b>NT1</b> roentgenium 274	<b>NT1</b> sulfur 26
<b>NT1</b> osmium 166	<b>NT1</b> roentgenium 279	<b>NT1</b> sulfur 28
<b>NT1</b> osmium 167	<b>NT1</b> rubidium 100	<b>NT1</b> sulfur 29
<b>NT1</b> oxygen 13	<b>NT1</b> rubidium 74	<b>NT1</b> tantalum 156
<b>NT1</b> oxygen 24	<b>NT1</b> rubidium 95	<b>NT1</b> tantalum 157
<b>NT1</b> palladium 117	<b>NT1</b> rubidium 96	<b>NT1</b> tantalum 158
<b>NT1</b> palladium 119	<b>NT1</b> rubidium 97	<b>NT1</b> tantalum 159
<b>NT1</b> palladium 120	<b>NT1</b> rubidium 98	<b>NT1</b> tantalum 182
<b>NT1</b> palladium 92	<b>NT1</b> rubidium 99	<b>NT1</b> technetium 110
<b>NT1</b> phosphorus 26	<b>NT1</b> ruthenium 114	<b>NT1</b> technetium 111
<b>NT1</b> phosphorus 27	<b>NT1</b> ruthenium 115	<b>NT1</b> technetium 112
<b>NT1</b> phosphorus 28	<b>NT1</b> ruthenium 116	<b>NT1</b> technetium 113
<b>NT1</b> phosphorus 38	<b>NT1</b> ruthenium 117	<b>NT1</b> technetium 114
<b>NT1</b> platinum 168	<b>NT1</b> ruthenium 118	<b>NT1</b> technetium 115
<b>NT1</b> platinum 169	<b>NT1</b> rutherfordium 254	<b>NT1</b> technetium 116
<b>NT1</b> platinum 170	<b>NT1</b> rutherfordium 256	<b>NT1</b> technetium 117
<b>NT1</b> platinum 171	<b>NT1</b> rutherfordium 258	<b>NT1</b> technetium 85
<b>NT1</b> platinum 172	<b>NT1</b> rutherfordium 260	<b>NT1</b> technetium 86
<b>NT1</b> platinum 173	<b>NT1</b> rutherfordium 262	<b>NT1</b> tellurium 107
<b>NT1</b> platinum 174	<b>NT1</b> samarium 128	<b>NT1</b> terbium 136
<b>NT1</b> platinum 184	<b>NT1</b> samarium 129	<b>NT1</b> terbium 137
<b>NT1</b> plutonium 230	<b>NT1</b> samarium 164	<b>NT1</b> terbium 138
<b>NT1</b> polonium 187	<b>NT1</b> samarium 165	<b>NT1</b> terbium 142
<b>NT1</b> polonium 189	<b>NT1</b> scandium 40	<b>NT1</b> terbium 146
<b>NT1</b> polonium 190	<b>NT1</b> scandium 41	<b>NT1</b> terbium 171
<b>NT1</b> polonium 191	<b>NT1</b> scandium 42	<b>NT1</b> thallium 176
<b>NT1</b> polonium 192	<b>NT1</b> scandium 50	<b>NT1</b> thallium 177
<b>NT1</b> polonium 193	<b>NT1</b> scandium 56	<b>NT1</b> thallium 178
<b>NT1</b> polonium 194	<b>NT1</b> scandium 57	<b>NT1</b> thallium 179
<b>NT1</b> polonium 211	<b>NT1</b> scandium 58	<b>NT1</b> thallium 183
<b>NT1</b> polonium 215	<b>NT1</b> scandium 59	<b>NT1</b> thorium 209
<b>NT1</b> polonium 216	<b>NT1</b> scandium 60	<b>NT1</b> thorium 210
<b>NT1</b> potassium 35	<b>NT1</b> seaborgium 258	<b>NT1</b> thorium 211
<b>NT1</b> potassium 36	<b>NT1</b> seaborgium 259	<b>NT1</b> thorium 212
<b>NT1</b> potassium 50	<b>NT1</b> seaborgium 260	<b>NT1</b> thorium 213
<b>NT1</b> potassium 51	<b>NT1</b> seaborgium 261	<b>NT1</b> thorium 214
<b>NT1</b> potassium 52	<b>NT1</b> seaborgium 262	<b>NT1</b> thorium 216
<b>NT1</b> potassium 53	<b>NT1</b> seaborgium 263	<b>NT1</b> thorium 221
<b>NT1</b> potassium 54	<b>NT1</b> seaborgium 264	<b>NT1</b> thorium 222
<b>NT1</b> praseodymium 157	<b>NT1</b> selenium 65	<b>NT1</b> thorium 223
<b>NT1</b> praseodymium 158	<b>NT1</b> selenium 66	<b>NT1</b> thulium 146
<b>NT1</b> praseodymium 159	<b>NT1</b> selenium 67	<b>NT1</b> thulium 147
<b>NT1</b> protactinium 212	<b>NT1</b> selenium 89	<b>NT1</b> thulium 150
<b>NT1</b> protactinium 213	<b>NT1</b> selenium 91	<b>NT1</b> tin 135
<b>NT1</b> protactinium 214	<b>NT1</b> silicon 24	<b>NT1</b> tin 136
<b>NT1</b> protactinium 215	<b>NT1</b> silicon 25	<b>NT1</b> tin 137
<b>NT1</b> protactinium 216	<b>NT1</b> silicon 35	<b>NT1</b> tin 99
<b>NT1</b> protactinium 217	<b>NT1</b> silicon 36	<b>NT1</b> titanium 39
<b>NT1</b> protactinium 222	<b>NT1</b> silver 120	<b>NT1</b> titanium 40
<b>NT1</b> protactinium 223	<b>NT1</b> silver 121	<b>NT1</b> titanium 41
<b>NT1</b> protactinium 224	<b>NT1</b> silver 123	<b>NT1</b> titanium 42
<b>NT1</b> radium 203	<b>NT1</b> silver 124	<b>NT1</b> titanium 43
<b>NT1</b> radium 204	<b>NT1</b> silver 125	<b>NT1</b> titanium 58
<b>NT1</b> radium 205	<b>NT1</b> silver 126	<b>NT1</b> titanium 59
<b>NT1</b> radium 206	<b>NT1</b> silver 127	<b>NT1</b> titanium 60
<b>NT1</b> radium 213	<b>NT1</b> silver 128	<b>NT1</b> titanium 61
<b>NT1</b> radium 215	<b>NT1</b> silver 129	<b>NT1</b> tungsten 157
<b>NT1</b> radium 219	<b>NT1</b> silver 130	<b>NT1</b> tungsten 159
<b>NT1</b> radium 220	<b>NT1</b> silver 94	<b>NT1</b> tungsten 160

**NT1** tungsten 161  
**NT1** uranium 217  
**NT1** uranium 218  
**NT1** uranium 225  
**NT1** uranium 226  
**NT1** vanadium 42  
**NT1** vanadium 44  
**NT1** vanadium 45  
**NT1** vanadium 46  
**NT1** vanadium 64  
**NT1** vanadium 65  
**NT1** xenon 109  
**NT1** xenon 110  
**NT1** xenon 111  
**NT1** xenon 143  
**NT1** xenon 145  
**NT1** xenon 147  
**NT1** ytterbium 148  
**NT1** ytterbium 149  
**NT1** ytterbium 154  
**NT1** ytterbium 175  
**NT1** yttrium 100  
**NT1** yttrium 101  
**NT1** yttrium 102  
**NT1** yttrium 103  
**NT1** yttrium 104  
**NT1** yttrium 107  
**NT1** yttrium 108  
**NT1** yttrium 78  
**NT1** yttrium 88  
**NT1** yttrium 93  
**NT1** yttrium 97  
**NT1** yttrium 98  
**NT1** zinc 57  
**NT1** zinc 59  
**NT1** zinc 80  
**NT1** zinc 81  
**NT1** zirconium 105  
**NT1** zirconium 79  
**NT1** zirconium 90  
**RT** half-life  
**RT** lifetime

#### MILLIWATT POWER RANGE

*INIS: 1988-04-15; ETDE: 1990-11-05*  
**UF** power range milli w  
**BT1** power range  
**NT1** power range 01-10 milli w  
**NT1** power range 10-100 milli w  
**NT1** power range 100-1000 milli w

#### MILLSTONE-1 REACTOR

*Dominion Nuclear Connecticut, Inc.,  
 Waterford, Connecticut, USA. Shut down in  
 1995; permanently closed in 1998.*  
**\*BT1** bwr type reactors

#### MILLSTONE-2 REACTOR

*Dominion Nuclear Connecticut, Inc.,  
 Waterford, Connecticut, USA.*  
**\*BT1** pwr type reactors

#### MILLSTONE-3 REACTOR

*Dominion Nuclear Connecticut, Inc.,  
 Waterford, Connecticut, USA.*  
**\*BT1** pwr type reactors

#### MILNE PROBLEM

**RT** angular distribution  
**RT** marshak boundary conditions  
**RT** neutron transport theory

#### milrow event

*1994-10-14*  
*A test made during OPERATION MANDREL.*  
 (Prior to September 1994, this was a valid  
 ETDE descriptor.)  
**USE** nuclear explosions  
**USE** underground explosions

#### MIM JUNCTIONS

*Metal-Insulator-Metal junctions.*  
**BT1** semiconductor junctions  
**BT1** tunnel junctions

#### mimic

*2000-04-12*  
 (Prior to January 1995, this was a valid ETDE  
 descriptor.)  
**USE** programming languages

#### MIMOSINE

**\*BT1** amino acids  
**RT** leguminosae  
**RT** toxicity

#### minami ambiguity

*1996-06-28*  
 (Until June 1996 this was a valid descriptor.)  
**SEE** angular distribution  
**SEE** parity

#### minas gerais university triga reactor

*INIS: 1993-11-09; ETDE: 2002-03-28*  
**USE** triga-brazil reactor

#### MINE CARS

*INIS: 2000-04-12; ETDE: 1980-05-23*  
**\*BT1** haulage equipment  
**BT1** vehicles  
**RT** mining  
**RT** transport

#### MINE DRAINING

*INIS: 1992-04-08; ETDE: 1977-06-24*  
**RT** acid mine drainage  
**RT** coal mines  
**RT** drainage  
**RT** underground mining  
**RT** water influx

#### MINE DRIVAGE

*INIS: 2000-04-12; ETDE: 1988-11-23*  
*Driving a drift for development or for use as  
 an underground road.*  
**RT** construction  
**RT** mine roadways  
**RT** tunnels  
**RT** underground mining

#### MINE HAULAGE

*INIS: 2000-04-12; ETDE: 1977-06-24*  
**BT1** materials handling  
**RT** chain conveyors  
**RT** haulage equipment  
**RT** loaders

#### mine-mouth generating plants

*INIS: 2000-04-12; ETDE: 1979-12-10*  
**USE** coal mines  
**USE** fossil-fuel power plants

#### MINE RESCUE

*INIS: 2000-04-12; ETDE: 1978-05-03*  
**BT1** rescue operations  
**RT** accidents  
**RT** evacuation  
**RT** mines  
**RT** safety

#### MINE ROADWAYS

*INIS: 1993-03-15; ETDE: 1978-05-03*  
**UF** roadways (mines)  
**\*BT1** tunnels  
**RT** mine drivage  
**RT** underground mining

#### mine safety and health administration

*INIS: 2000-04-12; ETDE: 1982-02-08*  
**USE** us msha

#### MINE SHAFTS

*INIS: 1991-12-18; ETDE: 1981-04-17*  
 (Prior to January 1992, this concept was  
 indexed to SHAFT EXCAVATIONS.)  
**UF** shafts (mine)  
**BT1** shaft excavations  
**NT1** abandoned shafts  
**RT** cavities  
**RT** openings  
**RT** underground mining

#### mine site rehabilitation

*INIS: 2000-03-28; ETDE: 1990-10-09*  
**SEE** land reclamation  
**SEE** remedial action

#### mine tailings

*INIS: 1981-02-27; ETDE: 2002-03-28*  
**USE** tailings

#### mine wastes

*INIS: 1993-06-08; ETDE: 2002-03-28*  
**USE** mineral wastes

#### mineral acids

**USE** inorganic acids

#### MINERAL CYCLING

*INIS: 1992-02-18; ETDE: 1976-08-24*  
*The cyclic movement of elemental mineral  
 nutrients in ecosystems.*  
**RT** air-biosphere interactions  
**RT** biogeochemistry  
**RT** carbon cycle  
**RT** carbon sinks  
**RT** ecological concentration  
**RT** ecosystems  
**RT** nitrogen cycle  
**RT** sulfur cycle

#### MINERAL INDUSTRY

*INIS: 1993-08-04; ETDE: 1976-11-01*  
**UF** mining industry  
**BT1** industry  
**RT** ceramics industry  
**RT** coal industry  
**RT** metal industry  
**RT** oil sand industry  
**RT** oil shale industry  
**RT** petroleum industry

#### MINERAL-INSULATED CABLES

*2008-07-04*  
**\*BT1** electric cables  
**RT** buildings  
**RT** fire prevention

#### mineral oil

*INIS: 2000-04-12; ETDE: 1976-03-11*  
**SEE** lubricants  
**SEE** petroleum

#### MINERAL RESOURCES

*1995-04-07*  
*The totality of the discovered and  
 undiscovered quantities of a particular  
 mineral or similar commodity, i.e., its crustal  
 abundance.*  
**BT1** resources  
**NT1** coal deposits  
**NT2** coal seams  
**NT1** natural gas deposits  
**NT2** natural gas fields  
**NT3** gas condensate fields  
**NT1** oil shale deposits  
**NT2** us naval oil shale reserves  
**NT1** petroleum deposits  
**NT2** gas condensate fields  
**NT2** oil fields  
**NT3** weyburn field  
**NT2** us naval petroleum reserves

NT1 uranium deposits  
 NT2 blizzard deposit  
 NT2 erzgebirge deposit  
 NT2 jabiluka deposit  
 NT2 koongarra deposit  
 NT2 nabarlek deposit  
 NT2 ranger deposit  
 NT2 ranstad deposit  
 NT2 roxby downs deposit  
 NT2 south alligator deposit  
 NT2 yeelirrie deposit  
 RT mineral rights  
 RT minerals  
 RT resource management  
 RT resource potential  
 RT royalties  
 RT uranium reserves

**MINERAL RIGHTS**

INIS: 2000-04-12; ETDE: 1979-07-24

UF mining rights  
 RT land ownership  
 RT land use  
 RT legal aspects  
 RT mineral resources  
 RT mining laws  
 RT ownership

**MINERAL SPRINGS**

2000-01-26

BT1 water springs  
 RT hot springs  
 RT thermal springs

**mineral virginia north anna-1 reactor**

INIS: 1993-11-09; ETDE: 2002-03-28  
 USE north anna-1 reactor

**mineral virginia north anna-2 reactor**

INIS: 1993-11-09; ETDE: 2002-03-28  
 USE north anna-2 reactor

**mineral virginia north anna-3 reactor**

INIS: 1993-11-09; ETDE: 2002-03-28  
 USE north anna-3 reactor

**mineral virginia north anna-4 reactor**

INIS: 2002-04-03; ETDE: 2002-03-28  
 USE north anna-4 reactor

**MINERAL WASTES**

INIS: 1993-06-08; ETDE: 1976-01-23

UF mine wastes  
 \*BT1 solid wastes  
 NT1 culm  
 RT dredge spoil  
 RT spoil banks  
 RT tailings

**MINERAL WOOL**

INIS: 2000-04-12; ETDE: 1976-11-01

RT fibers  
 RT thermal insulation

**MINERALIZATION**

RT crystallization  
 RT mineralogy  
 RT plutonic rocks

**MINERALOCORTICOIDS**

1996-10-23

(Prior to March 1997 DOCA was a valid ETDE descriptor.)

UF desoxycorticosterone acetate  
 UF doca  
 \*BT1 corticosteroids  
 NT1 aldosterone

**MINERALOGY**

RT mineralization  
 RT minerals  
 RT petrochemistry

**MINERALS**

(From May 1982 till February 1997

ELEMENTAL MINERALS was a valid ETDE descriptor.)

UF elemental minerals  
 UF lead minerals  
 UF sodium minerals  
 UF vanadium minerals  
 NT1 black sands  
 NT1 carbonate minerals  
 NT2 ankerite  
 NT2 aragonite  
 NT2 calcite  
 NT2 dawsonite  
 NT2 diderichite  
 NT2 dolomite  
 NT2 nahcolite  
 NT2 shortite  
 NT2 siderite  
 NT2 trona

NT1 diamonds  
 NT1 graphite  
 NT1 halide minerals  
 NT2 carnallite  
 NT2 fluorite  
 NT2 halite  
 NT1 oxide minerals  
 NT2 baddeleyite  
 NT2 bastnaesite  
 NT2 becquerelite  
 NT2 billietite  
 NT2 brannerite  
 NT2 chrysoberyl  
 NT2 clarkeite  
 NT2 compreignacite  
 NT2 corundum  
 NT3 ruby  
 NT3 sapphire  
 NT2 corvusite  
 NT2 cristobalite  
 NT2 ellsworthite  
 NT2 ferghanite  
 NT2 ferrite garnets  
 NT2 gibbsite  
 NT2 goethite  
 NT2 guilleminite  
 NT2 hallimondite  
 NT2 heinrichite  
 NT2 hematite  
 NT2 hollandite  
 NT2 ianthinite  
 NT2 ilmenite  
 NT2 kahlerite  
 NT2 kaolin  
 NT2 kirchheimerite  
 NT2 limonite  
 NT2 lodochnikite  
 NT2 lyndochite  
 NT2 magnetite  
 NT2 marignacite  
 NT2 melanovanadite  
 NT2 moctezumite  
 NT2 mullite  
 NT2 naegite  
 NT2 nogizawalite  
 NT2 nordstrandite  
 NT2 novacekite  
 NT2 para-schoepite  
 NT2 pascoite  
 NT2 perovskite  
 NT2 quartz  
 NT2 rauvite  
 NT2 rutile  
 NT2 schoepite

NT2 sengierite  
 NT2 silica  
 NT3 opals  
 NT2 spinels  
 NT2 stishovite  
 NT2 tantalite  
 NT2 tapiolite  
 NT2 thorianite  
 NT2 tyuyamunite  
 NT2 uraninites  
 NT3 broeggerite  
 NT3 pitchblende  
 NT2 uranium black  
 NT2 wolframite  
 NT2 zirconolite  
 NT1 perovskites  
 NT2 perovskite  
 NT1 phosphate minerals  
 NT2 apatites  
 NT2 autunite  
 NT2 monazites  
 NT2 ningyoite  
 NT2 saleeite  
 NT2 torbernite  
 NT2 xenotime  
 NT1 pyrochlore  
 NT1 radioactive minerals  
 NT2 baddeleyite  
 NT2 corvusite  
 NT2 fersmite  
 NT2 kainosite  
 NT2 melanovanadite  
 NT2 pascoite  
 NT2 rutile  
 NT2 thorium minerals  
 NT3 allanite  
 NT3 bastnaesite  
 NT3 brannerite  
 NT3 ekanite  
 NT3 freyalite  
 NT3 hydrothorite  
 NT3 lodochnikite  
 NT3 lyndochite  
 NT3 mackintoshite  
 NT3 maitlandite  
 NT3 monazites  
 NT3 naegite  
 NT3 thorianite  
 NT3 thorite  
 NT4 jiningite  
 NT3 thucholite  
 NT3 uranorthorite  
 NT2 uranium minerals  
 NT3 autunite  
 NT3 bassetite  
 NT3 becquerelite  
 NT3 billietite  
 NT3 brannerite  
 NT3 carnotite  
 NT3 clarkeite  
 NT3 coffinite  
 NT3 compreignacite  
 NT3 dewindite  
 NT3 diderichite  
 NT3 djalmaite  
 NT3 ekanite  
 NT3 ellsworthite  
 NT3 ferghanite  
 NT3 fourmarierite  
 NT3 gastunite  
 NT3 guilleminite  
 NT3 hallimondite  
 NT3 heinrichite  
 NT3 ianthinite  
 NT3 kahlerite  
 NT3 kirchheimerite  
 NT3 lodochnikite  
 NT3 mackintoshite  
 NT3 moctezumite

NT3 montroseite  
 NT3 naegite  
 NT3 natroautunite  
 NT3 ningyosite  
 NT3 novacekite  
 NT3 para-schoepite  
 NT3 ranquillite  
 NT3 rauvite  
 NT3 sabugalite  
 NT3 salecite  
 NT3 schoepite  
 NT3 sengierite  
 NT3 sklodowskite  
 NT3 soddyite  
 NT3 thorianite  
 NT3 thucholite  
 NT3 torbernite  
 NT3 tyuyamunite  
 NT3 uraninites  
   NT4 broeggerite  
   NT4 pitchblende  
 NT3 uranium black  
 NT3 uranophane  
 NT3 uranothorite  
 NT3 vesuvianite  
 NT1 silicate minerals  
 NT2 alamosite  
 NT2 allanite  
 NT2 alvite  
 NT2 amphibole  
   NT3 hornblende  
 NT2 beryl  
 NT2 chlorite minerals  
 NT2 clays  
   NT3 attapulgite  
   NT3 bentonite  
   NT3 boom clay  
   NT3 clinoptilolite  
   NT3 fullers earth  
   NT3 illite  
   NT3 kaolin  
   NT3 montmorillonite  
   NT3 opalinus clay  
   NT3 sepiolite  
   NT3 smectite  
 NT2 coffinite  
 NT2 cristobalite  
 NT2 diopside  
 NT2 ekanite  
 NT2 enstatite  
 NT2 epidotes  
 NT2 feldspars  
   NT3 anorthite  
   NT3 orthoclase  
 NT2 freyalite  
 NT2 garnets  
 NT2 hedenbergite  
 NT2 helvite  
 NT2 hydrothorite  
 NT2 ilvaite  
 NT2 kainosite  
 NT2 kaolinite  
 NT2 lavenite  
 NT2 lovozerite  
 NT2 mackintoshite  
 NT2 maitlandite  
 NT2 mesodialyte  
 NT2 mica  
   NT3 biotite  
   NT3 muscovite  
   NT3 vermiculite  
 NT2 olivine  
 NT2 petalite  
 NT2 pollucite  
 NT2 pyrophyllite  
 NT2 ranquillite  
 NT2 serpentinite  
 NT2 sklodowskite  
 NT2 soddyite

NT2 talc  
 NT2 thorite  
   NT3 jiningite  
 NT2 titanite  
 NT2 tourmaline  
 NT2 uranophane  
 NT2 uranothorite  
 NT2 zeolites  
   NT3 clinoptilolite  
   NT3 faujasite  
   NT3 heulandite  
   NT3 laumontite  
   NT3 mordenite  
   NT3 wairakite  
 NT2 zircon  
 NT1 sulfate minerals  
   NT2 alunite  
   NT2 anhydrite  
   NT2 barite  
   NT2 gypsum  
   NT2 polyhalite  
 NT1 sulfide minerals  
   NT2 chalcopyrite  
   NT2 galena  
   NT2 marcasite  
   NT2 pyrite  
   NT2 pyrrhotite  
   NT3 troilite  
 RT concretions  
 RT environmental materials  
 RT geobarometry  
 RT metamict state  
 RT mineral resources  
 RT mineralogy  
 RT ores  
 RT rocks  
 RT tektites  
 RT torbanite  
 RT translocation

## MINERS

BT1 personnel  
 NT1 coal miners  
 RT life support systems

## MINERVE REACTOR

CEA/CEN Cadarache, St. Paul Lez Durance, France.

UF french minerve reactor  
 UF zero power critical experiment minerve  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

## MINES

1997-06-17

BT1 underground facilities  
 NT1 asse salt mine  
 NT1 coal mines  
 NT1 konrad ore mine  
 NT1 uranium mines  
   NT2 beaverlodge mine  
   NT2 cluff lake mine  
   NT2 key lake mine  
   NT2 mary kathleen mines  
   NT2 olympic dam mine  
   NT2 osamu utsumi mine  
   NT2 rum jungle mine  
   NT2 stanleigh mine  
 RT abandoned shafts  
 RT backfilling  
 RT mine rescue  
 RT mining  
 RT shaft excavations  
 RT surface mining  
 RT tunnels  
 RT underground mining

RT water influx

## mini-serve stations

INIS: 2000-04-12; ETDE: 1979-05-09  
 USE gasoline service stations

## miniata event

2000-04-12

A test made during OPERATION GROMMET. (Prior to January 1995, this was a valid ETDE descriptor.)

USE nuclear explosions  
 USE underground explosions

## miniature neutron source reactors

2004-03-15

USE mnsr type reactors

## MINIATURE SWINE

\*BT1 swine

## MINIATURIZATION

RT electrical equipment  
 RT electronic equipment  
 RT measuring instruments  
 RT semiconductor devices

## MINIMARS REACTOR

INIS: 2000-04-12; ETDE: 1986-04-11

\*BT1 magnetic mirror type reactors  
 RT mars reactor

## MINIMIZATION

INIS: 1983-06-30; ETDE: 1982-08-11

BT1 optimization  
 RT augmentation

## MINIMUM AVERAGE-B CONFIGURATIONS

UF average magnetic well  
 \*BT1 closed configurations  
 RT internal ring devices

## MINIMUM-B CONFIGURATIONS

UF magnetic well  
 \*BT1 open configurations  
 RT ion rings  
 RT tlm configurations

## MINING

1996-01-24

NT1 auger mining  
 NT1 coal mining  
 NT1 hydraulic mining  
 NT1 oil sand mining  
 NT1 oil shale mining  
 NT1 solution mining  
 NT1 surface mining  
 NT1 underground mining  
   NT2 advance mining  
   NT2 caving mining  
   NT2 longwall mining  
   NT2 retreat mining  
   NT2 room and pillar mining  
   NT2 shortwall mining  
   NT2 slice mining  
 RT acid mine drainage  
 RT belt conveyors  
 RT contained explosions  
 RT cratering explosions  
 RT excavation  
 RT explosive fracturing  
 RT heading machines  
 RT industry  
 RT landslides  
 RT mine cars  
 RT mines  
 RT ore composition  
 RT overburden  
 RT resource exploitation  
 RT rock bursts  
 RT rock mechanics

RT shaft excavations  
 RT shield supports  
 RT underground explosions  
 RT uranium ores  
 RT working faces

**MINING ENGINEERING**

INIS: 1993-02-18; ETDE: 1979-09-06

BT1 engineering  
 RT auger mining  
 RT coal mining  
 RT hydraulic mining  
 RT oil shale mining  
 RT surface mining  
 RT underground mining

**MINING EQUIPMENT**

1994-06-27

BT1 equipment  
 NT1 bucket wheel excavators  
 NT1 cutting machines  
 NT2 cutter loaders  
 NT3 coal plows  
 NT3 continuous miners  
 NT3 heading machines  
 NT3 shearer loaders  
 NT1 roof bolts  
 RT auger mining  
 RT chain conveyors  
 RT conveyors  
 RT draglines  
 RT earthmoving equipment  
 RT haulage equipment  
 RT supports  
 RT tunneling machines

**mining industry**

INIS: 1993-08-04; ETDE: 2002-03-28

USE mineral industry

**MINING LAWS**

1990-12-15

(Prior to December 1990, this descriptor was spelled MINING LAW.)

BT1 laws  
 NT1 surface mining acts  
 RT mineral rights

**mining research method**

INIS: 2000-04-12; ETDE: 1977-03-04

USE desulfurization

**mining rights**

INIS: 2000-04-12; ETDE: 1979-07-24

USE mineral rights

**MINKOWSKI SPACE**

\*BT1 mathematical space  
 RT light cone  
 RT lorentz transformations  
 RT relativity theory

**MINNESOTA**

\*BT1 usa

RT mississippi river

**minnesota univ linac**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE linear accelerators

**MINORITY GROUPS**

INIS: 1999-04-30; ETDE: 1978-02-14

Coordinate with a descriptor for the geographical area involved.

UF ethnic groups  
 UF racial groups  
 \*BT1 human populations  
 NT1 american indians  
 NT1 black americans  
 NT1 elderly people

NT1 handicapped people  
 NT1 high income groups  
 NT1 hispanic americans  
 NT1 low income groups  
 NT1 oriental americans  
 NT1 sami people  
 RT assimilation  
 RT interest groups  
 RT sociology  
 RT us affirmative action program

**MINSK COMPUTERS**

BT1 computers

**MINT**

1999-02-25

Malaysian Institute for Nuclear Technology Research.

UF malaysian institute for nuclear energy research

\*BT1 malaysian organizations

**MINUS-PLUS RATIO**

UF charge ratio

UF plus-minus ratio

BT1 dimensionless numbers

RT electric charges

**MINUTES LIVING RADIOISOTOPES**

1997-02-07

\*BT1 radioisotopes

NT1 actinium 222

NT1 actinium 223

NT1 actinium 230

NT1 actinium 231

NT1 actinium 232

NT1 actinium 233

NT1 aluminium 28

NT1 aluminium 29

NT1 americium 233

NT1 americium 234

NT1 americium 235

NT1 americium 236

NT1 americium 244

NT1 americium 246

NT1 americium 247

NT1 americium 248

NT1 americium 249

NT1 antimony 111

NT1 antimony 113

NT1 antimony 114

NT1 antimony 115

NT1 antimony 116

NT1 antimony 118

NT1 antimony 120

NT1 antimony 122

NT1 antimony 124

NT1 antimony 126

NT1 antimony 128

NT1 antimony 129

NT1 antimony 130

NT1 antimony 131

NT1 antimony 132

NT1 antimony 133

NT1 argon 43

NT1 argon 44

NT1 arsenic 68

NT1 arsenic 69

NT1 arsenic 70

NT1 arsenic 79

NT1 astatine 201

NT1 astatine 202

NT1 astatine 203

NT1 astatine 204

NT1 astatine 205

NT1 astatine 206

NT1 astatine 220

NT1 astatine 221

NT1 barium 122

NT1 barium 123

NT1 barium 124  
 NT1 barium 125  
 NT1 barium 127  
 NT1 barium 131  
 NT1 barium 137  
 NT1 barium 141  
 NT1 barium 142  
 NT1 berkelium 238  
 NT1 berkelium 239  
 NT1 berkelium 240  
 NT1 berkelium 242  
 NT1 berkelium 251  
 NT1 berkelium 252  
 NT1 berkelium 253  
 NT1 berkelium 254  
 NT1 bismuth 193  
 NT1 bismuth 194  
 NT1 bismuth 195  
 NT1 bismuth 196  
 NT1 bismuth 197  
 NT1 bismuth 198  
 NT1 bismuth 199  
 NT1 bismuth 200  
 NT1 bismuth 201  
 NT1 bismuth 211  
 NT1 bismuth 212  
 NT1 bismuth 213  
 NT1 bismuth 214  
 NT1 bismuth 215  
 NT1 bismuth 216  
 NT1 bohrium 275  
 NT1 bromine 72  
 NT1 bromine 73  
 NT1 bromine 74  
 NT1 bromine 77  
 NT1 bromine 78  
 NT1 bromine 80  
 NT1 bromine 82  
 NT1 bromine 84  
 NT1 bromine 85  
 NT1 cadmium 100  
 NT1 cadmium 101  
 NT1 cadmium 102  
 NT1 cadmium 103  
 NT1 cadmium 104  
 NT1 cadmium 105  
 NT1 cadmium 111  
 NT1 cadmium 118  
 NT1 cadmium 119  
 NT1 calcium 49  
 NT1 californium 240  
 NT1 californium 241  
 NT1 californium 242  
 NT1 californium 243  
 NT1 californium 244  
 NT1 californium 245  
 NT1 californium 256  
 NT1 carbon 11  
 NT1 cerium 128  
 NT1 cerium 129  
 NT1 cerium 130  
 NT1 cerium 131  
 NT1 cerium 145  
 NT1 cerium 146  
 NT1 cesium 120  
 NT1 cesium 121  
 NT1 cesium 122  
 NT1 cesium 123  
 NT1 cesium 125  
 NT1 cesium 126  
 NT1 cesium 128  
 NT1 cesium 130  
 NT1 cesium 135  
 NT1 cesium 138  
 NT1 cesium 139  
 NT1 cesium 140  
 NT1 chlorine 34  
 NT1 chlorine 38  
 NT1 chlorine 39



NT1	chlorine 40	NT1	gold 189	NT1	lead 192
NT1	chromium 49	NT1	gold 190	NT1	lead 193
NT1	chromium 55	NT1	gold 200	NT1	lead 194
NT1	chromium 56	NT1	gold 201	NT1	lead 195
NT1	cobalt 54	NT1	hafnium 164	NT1	lead 196
NT1	cobalt 60	NT1	hafnium 165	NT1	lead 197
NT1	cobalt 62	NT1	hafnium 166	NT1	lead 199
NT1	copernicium 283	NT1	hafnium 167	NT1	lead 201
NT1	copernicium 285	NT1	hafnium 168	NT1	lead 211
NT1	copper 59	NT1	hafnium 169	NT1	lead 213
NT1	copper 60	NT1	hafnium 177	NT1	lead 214
NT1	copper 62	NT1	hassium 274	NT1	lutetium 161
NT1	copper 66	NT1	holmium 150	NT1	lutetium 162
NT1	copper 68	NT1	holmium 152	NT1	lutetium 163
NT1	copper 69	NT1	holmium 153	NT1	lutetium 164
NT1	curium 233	NT1	holmium 154	NT1	lutetium 165
NT1	curium 234	NT1	holmium 155	NT1	lutetium 166
NT1	curium 235	NT1	holmium 156	NT1	lutetium 167
NT1	curium 236	NT1	holmium 157	NT1	lutetium 168
NT1	curium 237	NT1	holmium 158	NT1	lutetium 169
NT1	curium 251	NT1	holmium 159	NT1	lutetium 171
NT1	dubnium 264	NT1	holmium 160	NT1	lutetium 172
NT1	dubnium 265	NT1	holmium 162	NT1	lutetium 178
NT1	dubnium 266	NT1	holmium 164	NT1	lutetium 180
NT1	dysprosium 147	NT1	holmium 168	NT1	lutetium 181
NT1	dysprosium 148	NT1	holmium 169	NT1	lutetium 182
NT1	dysprosium 149	NT1	holmium 170	NT1	lutetium 187
NT1	dysprosium 150	NT1	indium 103	NT1	magnesium 27
NT1	dysprosium 151	NT1	indium 104	NT1	manganese 50
NT1	dysprosium 165	NT1	indium 105	NT1	manganese 51
NT1	dysprosium 167	NT1	indium 106	NT1	manganese 52
NT1	dysprosium 168	NT1	indium 107	NT1	manganese 57
NT1	einsteinium 245	NT1	indium 108	NT1	manganese 58
NT1	einsteinium 246	NT1	indium 109	NT1	meitnerium 265
NT1	einsteinium 247	NT1	indium 111	NT1	meitnerium 279
NT1	einsteinium 248	NT1	indium 112	NT1	mendelevium 251
NT1	einsteinium 256	NT1	indium 114	NT1	mendelevium 252
NT1	erbium 154	NT1	indium 116	NT1	mendelevium 253
NT1	erbium 155	NT1	indium 117	NT1	mendelevium 254
NT1	erbium 156	NT1	indium 118	NT1	mendelevium 255
NT1	erbium 157	NT1	indium 119	NT1	mendelevium 258
NT1	erbium 159	NT1	indium 121	NT1	mercury 186
NT1	erbium 173	NT1	iodine 115	NT1	mercury 187
NT1	erbium 174	NT1	iodine 117	NT1	mercury 188
NT1	europium 142	NT1	iodine 118	NT1	mercury 189
NT1	europium 143	NT1	iodine 119	NT1	mercury 190
NT1	europium 154	NT1	iodine 120	NT1	mercury 191
NT1	europium 158	NT1	iodine 122	NT1	mercury 199
NT1	europium 159	NT1	iodine 128	NT1	mercury 205
NT1	fermium 249	NT1	iodine 130	NT1	mercury 206
NT1	fermium 250	NT1	iodine 134	NT1	molybdenum 101
NT1	fluorine 17	NT1	iodine 136	NT1	molybdenum 102
NT1	francium 210	NT1	iridium 179	NT1	molybdenum 103
NT1	francium 211	NT1	iridium 180	NT1	molybdenum 104
NT1	francium 212	NT1	iridium 181	NT1	molybdenum 88
NT1	francium 221	NT1	iridium 182	NT1	molybdenum 89
NT1	francium 222	NT1	iridium 183	NT1	molybdenum 91
NT1	francium 223	NT1	iridium 192	NT1	neodymium 132
NT1	francium 224	NT1	iridium 197	NT1	neodymium 133
NT1	francium 225	NT1	iron 53	NT1	neodymium 134
NT1	francium 227	NT1	iron 61	NT1	neodymium 135
NT1	gadolinium 142	NT1	iron 62	NT1	neodymium 136
NT1	gadolinium 143	NT1	krypton 74	NT1	neodymium 137
NT1	gadolinium 144	NT1	krypton 75	NT1	neodymium 139
NT1	gadolinium 145	NT1	krypton 89	NT1	neodymium 141
NT1	gadolinium 161	NT1	lanthanum 125	NT1	neodymium 151
NT1	gadolinium 162	NT1	lanthanum 126	NT1	neodymium 152
NT1	gadolinium 163	NT1	lanthanum 127	NT1	neon 24
NT1	gallium 64	NT1	lanthanum 128	NT1	neptunium 229
NT1	gallium 65	NT1	lanthanum 129	NT1	neptunium 230
NT1	gallium 70	NT1	lanthanum 130	NT1	neptunium 231
NT1	gallium 74	NT1	lanthanum 131	NT1	neptunium 232
NT1	gallium 75	NT1	lanthanum 132	NT1	neptunium 233
NT1	germanium 64	NT1	lanthanum 134	NT1	neptunium 240
NT1	germanium 67	NT1	lanthanum 136	NT1	neptunium 241
NT1	gold 185	NT1	lanthanum 136	NT1	neptunium 242
NT1	gold 186	NT1	lanthanum 143	NT1	neptunium 243
NT1	gold 187	NT1	lawrencium 260	NT1	neptunium 244
NT1	gold 188	NT1	lead 190	NT1	niobium 85
		NT1	lead 191		

NT1 niobium 86	NT1 protactinium 236	NT1 silver 101
NT1 niobium 87	NT1 protactinium 237	NT1 silver 102
NT1 niobium 88	NT1 protactinium 238	NT1 silver 104
NT1 niobium 94	NT1 radium 213	NT1 silver 105
NT1 niobium 98	NT1 radium 227	NT1 silver 106
NT1 niobium 99	NT1 radium 229	NT1 silver 108
NT1 nitrogen 13	NT1 radium 231	NT1 silver 111
NT1 nobelium 253	NT1 radium 232	NT1 silver 113
NT1 nobelium 255	NT1 radon 204	NT1 silver 115
NT1 nobelium 259	NT1 radon 205	NT1 silver 116
NT1 osmium 175	NT1 radon 206	NT1 silver 117
NT1 osmium 176	NT1 radon 207	NT1 silver 99
NT1 osmium 177	NT1 radon 208	NT1 strontium 78
NT1 osmium 178	NT1 radon 209	NT1 strontium 79
NT1 osmium 179	NT1 radon 212	NT1 strontium 81
NT1 osmium 180	NT1 radon 221	NT1 strontium 93
NT1 osmium 181	NT1 radon 223	NT1 strontium 94
NT1 osmium 190	NT1 radon 225	NT1 sulfur 37
NT1 osmium 195	NT1 radon 226	NT1 tantalum 167
NT1 osmium 196	NT1 rhenium 173	NT1 tantalum 168
NT1 osmium 197	NT1 rhenium 174	NT1 tantalum 169
NT1 oxygen 14	NT1 rhenium 175	NT1 tantalum 170
NT1 oxygen 15	NT1 rhenium 176	NT1 tantalum 171
NT1 palladium 109	NT1 rhenium 177	NT1 tantalum 172
NT1 palladium 111	NT1 rhenium 178	NT1 tantalum 178
NT1 palladium 113	NT1 rhenium 179	NT1 tantalum 182
NT1 palladium 114	NT1 rhenium 180	NT1 tantalum 185
NT1 palladium 96	NT1 rhenium 188	NT1 tantalum 186
NT1 palladium 97	NT1 rhenium 190	NT1 tantalum 187
NT1 palladium 98	NT1 rhenium 191	NT1 technetium 101
NT1 palladium 99	NT1 rhodium 100	NT1 technetium 102
NT1 phosphorus 30	NT1 rhodium 103	NT1 technetium 104
NT1 platinum 182	NT1 rhodium 104	NT1 technetium 105
NT1 platinum 183	NT1 rhodium 107	NT1 technetium 91
NT1 platinum 184	NT1 rhodium 108	NT1 technetium 92
NT1 platinum 185	NT1 rhodium 109	NT1 technetium 93
NT1 platinum 199	NT1 rhodium 94	NT1 technetium 94
NT1 platinum 201	NT1 rhodium 95	NT1 technetium 96
NT1 plutonium 232	NT1 rhodium 96	NT1 tellurium 112
NT1 plutonium 233	NT1 rhodium 97	NT1 tellurium 113
NT1 plutonium 235	NT1 rhodium 98	NT1 tellurium 114
NT1 polonium 198	NT1 rubidium 77	NT1 tellurium 115
NT1 polonium 199	NT1 rubidium 78	NT1 tellurium 131
NT1 polonium 200	NT1 rubidium 79	NT1 tellurium 133
NT1 polonium 201	NT1 rubidium 81	NT1 tellurium 134
NT1 polonium 202	NT1 rubidium 82	NT1 terbium 147
NT1 polonium 203	NT1 rubidium 84	NT1 terbium 148
NT1 polonium 218	NT1 rubidium 86	NT1 terbium 149
NT1 potassium 38	NT1 rubidium 88	NT1 terbium 150
NT1 potassium 44	NT1 rubidium 89	NT1 terbium 152
NT1 potassium 45	NT1 rubidium 90	NT1 terbium 162
NT1 potassium 46	NT1 ruthenium 107	NT1 terbium 163
NT1 praseodymium 131	NT1 ruthenium 108	NT1 terbium 164
NT1 praseodymium 132	NT1 ruthenium 92	NT1 terbium 165
NT1 praseodymium 133	NT1 ruthenium 93	NT1 thallium 188
NT1 praseodymium 134	NT1 ruthenium 94	NT1 thallium 189
NT1 praseodymium 135	NT1 rutherfordium 261	NT1 thallium 190
NT1 praseodymium 136	NT1 rutherfordium 263	NT1 thallium 191
NT1 praseodymium 138	NT1 samarium 138	NT1 thallium 192
NT1 praseodymium 140	NT1 samarium 139	NT1 thallium 193
NT1 praseodymium 142	NT1 samarium 140	NT1 thallium 194
NT1 praseodymium 144	NT1 samarium 141	NT1 thallium 206
NT1 praseodymium 146	NT1 samarium 143	NT1 thallium 207
NT1 praseodymium 147	NT1 samarium 155	NT1 thallium 208
NT1 praseodymium 148	NT1 samarium 157	NT1 thallium 209
NT1 praseodymium 149	NT1 samarium 158	NT1 thallium 210
NT1 promethium 136	NT1 scandium 49	NT1 thorium 225
NT1 promethium 137	NT1 scandium 50	NT1 thorium 226
NT1 promethium 138	NT1 seaborgium 270	NT1 thorium 233
NT1 promethium 139	NT1 seaborgium 271	NT1 thorium 235
NT1 promethium 140	NT1 selenium 68	NT1 thorium 236
NT1 promethium 141	NT1 selenium 70	NT1 thorium 237
NT1 promethium 152	NT1 selenium 71	NT1 thulium 156
NT1 promethium 153	NT1 selenium 73	NT1 thulium 157
NT1 promethium 154	NT1 selenium 79	NT1 thulium 158
NT1 protactinium 226	NT1 selenium 81	NT1 thulium 159
NT1 protactinium 227	NT1 selenium 83	NT1 thulium 160
NT1 protactinium 234	NT1 selenium 84	NT1 thulium 161
NT1 protactinium 235	NT1 silver 100	NT1 thulium 162

NT1 thulium 164  
 NT1 thulium 174  
 NT1 thulium 175  
 NT1 thulium 176  
 NT1 thulium 177  
 NT1 tin 106  
 NT1 tin 107  
 NT1 tin 108  
 NT1 tin 109  
 NT1 tin 111  
 NT1 tin 113  
 NT1 tin 123  
 NT1 tin 125  
 NT1 tin 127  
 NT1 tin 128  
 NT1 tin 129  
 NT1 tin 130  
 NT1 tin 131  
 NT1 titanium 51  
 NT1 titanium 52  
 NT1 tungsten 170  
 NT1 tungsten 171  
 NT1 tungsten 172  
 NT1 tungsten 173  
 NT1 tungsten 174  
 NT1 tungsten 175  
 NT1 tungsten 179  
 NT1 tungsten 185  
 NT1 tungsten 189  
 NT1 tungsten 190  
 NT1 uranium 227  
 NT1 uranium 228  
 NT1 uranium 229  
 NT1 uranium 235  
 NT1 uranium 239  
 NT1 uranium 241  
 NT1 uranium 242  
 NT1 vanadium 47  
 NT1 vanadium 52  
 NT1 vanadium 53  
 NT1 xenon 117  
 NT1 xenon 118  
 NT1 xenon 119  
 NT1 xenon 120  
 NT1 xenon 121  
 NT1 xenon 127  
 NT1 xenon 135  
 NT1 xenon 137  
 NT1 xenon 138  
 NT1 ytterbium 158  
 NT1 ytterbium 159  
 NT1 ytterbium 160  
 NT1 ytterbium 161  
 NT1 ytterbium 162  
 NT1 ytterbium 163  
 NT1 ytterbium 165  
 NT1 ytterbium 167  
 NT1 ytterbium 179  
 NT1 ytterbium 180  
 NT1 yttrium 81  
 NT1 yttrium 83  
 NT1 yttrium 84  
 NT1 yttrium 86  
 NT1 yttrium 91  
 NT1 yttrium 94  
 NT1 yttrium 95  
 NT1 zinc 60  
 NT1 zinc 61  
 NT1 zinc 63  
 NT1 zinc 69  
 NT1 zinc 71  
 NT1 zinc 74  
 NT1 zirconium 81  
 NT1 zirconium 82  
 NT1 zirconium 84  
 NT1 zirconium 85  
 NT1 zirconium 89  
 RT half-life  
 RT lifetime

**MIOCENE EPOCH**

INIS: 1992-04-14; ETDE: 1977-10-20

\*BT1 tertiary period  
 RT geologic history

**miq**

USE maximum inhalation quantity

**MIR ORBITAL STATION**

INIS: 1989-10-30; ETDE: 1989-11-21

BT1 satellites  
 \*BT1 space vehicles

**MIR REACTOR**

UF melekess-mir reactor

\*BT1 experimental reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**mirror advanced reactor study**

INIS: 2000-04-12; ETDE: 1983-06-20

USE mars reactor

**mirror fusion test facility**

INIS: 2000-04-12; ETDE: 1977-10-19

USE mftf devices

**MIRROR NUCLEI**

BT1 nuclei  
 RT isobaric nuclei

**MIRROR RATIO**

INIS: 1975-08-20; ETDE: 1975-10-01

BT1 dimensionless numbers  
 RT magnetic fields  
 RT magnetic mirror configurations  
 RT magnetic mirrors

**MIRRORS**

1975-10-09

(From January 1975 until March 1996 FLAT MIRRORS was a valid ETDE descriptor.)

UF flat mirrors  
 NT1 electrostatic mirrors  
 NT1 fresnel reflectors  
 NT1 heat mirrors  
 NT1 laser mirrors  
 RT optical properties  
 RT optical systems  
 RT parabolic reflectors  
 RT reflection  
 RT solar concentrators  
 RT solar reflectors  
 RT telescopes

**mirrors (magnetic)**

USE magnetic mirrors

**MIS SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

UF metal-insulator-semiconductor solar cells  
 \*BT1 solar cells  
 RT mis transistors  
 RT schottky barrier solar cells

**MIS TRANSISTORS**

1997-06-17

Metal Insulator Silicon transistors.

\*BT1 transistors  
 RT mis solar cells

**MISCH METAL**

\*BT1 cerium base alloys  
 \*BT1 lanthanum alloys

**miscibility**

INIS: 2000-04-12; ETDE: 1979-07-18

USE solubility

**miscible flooding**

INIS: 1992-01-15; ETDE: 1976-03-11

USE miscible-phase displacement

**MISCIBLE-PHASE DISPLACEMENT**

INIS: 1992-01-15; ETDE: 1976-03-11

UF miscible flooding  
 BT1 fluid injection  
 NT1 carbon dioxide injection  
 NT1 microemulsion flooding  
 RT enhanced recovery  
 RT petroleum

**MISCO METAL**

2000-04-12

\*BT1 chromium alloys  
 \*BT1 iron alloys  
 \*BT1 nickel alloys

**misgurnus**

USE fishes

**MISONIDAZOLE**

INIS: 1981-08-06; ETDE: 1981-01-09

UF 2-nitroimidazole  
 UF ro-07-0582  
 \*BT1 alcohols  
 \*BT1 antineoplastic drugs  
 \*BT1 imidazoles  
 \*BT1 nitro compounds  
 \*BT1 radiosensitizers  
 RT chemotherapy

**MISSILE LAUNCHING SITES**

INIS: 2000-04-12; ETDE: 1980-01-15

RT launching  
 RT missiles  
 RT rockets

**MISSILE PROTECTION**

1975-10-23

RT impact shock  
 RT reactor accidents  
 RT reactor protection systems  
 RT reactor safety

**MISSILE SILOS**

2000-04-12

RT missiles  
 RT national defense

**MISSILES**

NT1 cruise missiles  
 RT ammunition  
 RT flight testing  
 RT launching  
 RT missile launching sites  
 RT missile silos  
 RT propulsion systems  
 RT reentry  
 RT reentry vehicles  
 RT rockets  
 RT thrusters

**MISSING MASS**

The unobserved mass resulting from neutral particles in a particle-particle interaction.

BT1 mass  
 RT missing-mass spectra  
 RT missing-mass spectrometers  
 RT neutral particles

**MISSING-MASS SPECTRA**

BT1 spectra  
 RT abc effect  
 RT missing mass  
 RT missing-mass spectrometers

**MISSING-MASS SPECTROMETERS**

\*BT1 spectrometers  
 RT missing mass  
 RT missing-mass spectra

RT neutral particles

### mission analysis

INIS: 2000-04-12; ETDE: 1979-12-10

A systematic approach to evaluation of the potential feasible applications of a generic new technology. See also MANAGEMENT. (Prior to March 1997 this was a valid ETDE descriptor.)

USE feasibility studies  
USE technology utilization

### MISSISSIPPI

\*BT1 usa  
RT chattanooga formation  
RT mississippi river  
RT us gulf coast

### MISSISSIPPI RIVER

\*BT1 rivers  
RT arkansas  
RT illinois  
RT iowa  
RT kentucky  
RT louisiana  
RT minnesota  
RT mississippi  
RT mississippi river basin  
RT missouri  
RT tennessee  
RT wisconsin

### MISSISSIPPI RIVER BASIN

INIS: 1992-01-14; ETDE: 1977-04-12  
BT1 watersheds  
RT mississippi river

### mississippian period

INIS: 1992-05-22; ETDE: 1977-10-19  
(Prior to April 1990 this was a valid ETDE descriptor.)  
USE carboniferous period

### MISSOURI

\*BT1 usa  
RT chattanooga formation  
RT kansas city plant  
RT mississippi river  
RT missouri river  
RT missouri river basin  
RT white river basin

### MISSOURI RIVER

1997-06-17  
\*BT1 rivers  
RT iowa  
RT kansas  
RT missouri  
RT missouri river basin  
RT montana  
RT nebraska  
RT north dakota  
RT south dakota

### MISSOURI RIVER BASIN

INIS: 2000-04-12; ETDE: 1977-06-24  
BT1 watersheds  
RT missouri  
RT missouri river

### missouri school of mines reactor

INIS: 1993-11-09; ETDE: 2002-03-28  
USE umrr reactor

### missouri university/columbia research reactor

1993-11-09  
USE murr reactor

### missouri university/rolla research reactor

1993-11-09  
USE umrr reactor

### MIST EXTRACTORS

INIS: 2000-04-12; ETDE: 1977-03-08  
Devices that remove liquid mist or droplets from a gas stream via impingement, flow-direction change, velocity change, centrifugal force, filters, or coalescing packs.  
UF entrainment separators  
\*BT1 extraction apparatuses

### MIST-LIFT CYCLES

INIS: 2000-04-12; ETDE: 1980-08-12  
UF otec mist-lift cycle  
SF beck cycle  
\*BT1 lift cycles

### MIT BATES LINAC

INIS: 1977-11-21; ETDE: 1978-03-08  
Bates Electron Linear Accelerator Facility at MIT.  
UF bates linac mit  
\*BT1 linear accelerators

### MITES

\*BT1 arachnids  
RT disease vectors  
RT parasites  
RT pest control

### MITIGATION

INIS: 1985-09-09; ETDE: 1983-07-20  
Abatement or diminution of something painful, injurious, severe, or calamitous.  
RT control  
RT modifications  
RT optimization  
RT pollution abatement

### MITOCHONDRIA

BT1 cell constituents  
RT cytoplasm  
RT krebs cycle  
RT subcellular distribution

### MITOGENS

INIS: 1981-10-15; ETDE: 1978-11-14  
Substances that induce cell division or stimulate cells to undergo blastogenic activity.  
NT1 erythropoietin  
NT1 growth factors  
NT2 lymphokines  
NT3 interferon  
NT1 phytohemagglutinin  
RT cell division  
RT immunology  
RT response modifying factors  
RT stimulation  
RT tissue extracts

### MITOMYCIN

\*BT1 antibiotics  
\*BT1 antimetabolic drugs  
\*BT1 antineoplastic drugs

### MITOSIS

1995-01-27  
UF anaphase  
UF metaphase  
UF prophase  
UF telophase  
BT1 cell division  
RT antimetabolic drugs  
RT centromeres  
RT chromosomes  
RT concanavalin a  
RT crossing-over  
RT human chromosomes

RT mitotic delay  
RT mitotic index  
RT phytohemagglutinin

### MITOTIC DELAY

RT mitosis

### MITOTIC INDEX

RT mitosis

### MITR REACTOR

Massachusetts Institute of Technology, Nuclear Research Lab., Cambridge Massachusetts, USA.  
UF massachusetts institute of technology reactor  
\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

### mius (modular integrated utility systems)

INIS: 2000-04-12; ETDE: 2005-02-10  
(Prior to January 2005 MIUS was a valid descriptor.)  
USE modular integrated utility systems

### MIXED BED ION EXCHANGERS

\*BT1 ion exchange materials

### MIXED CARBIDE FUELS

INIS: 1982-09-21; ETDE: 1982-02-23  
Index also the specific carbides if important.  
\*BT1 nuclear fuels  
\*BT1 solid fuels  
RT coral reprocessing plant  
RT plutonium carbides  
RT uranium carbides

### mixed-function oxidase systems

INIS: 2000-04-12; ETDE: 1980-01-15  
(Prior to January 1981, this was a valid ETDE descriptor.)  
USE mixed-function oxidases

### MIXED-FUNCTION OXIDASES

INIS: 2000-04-12; ETDE: 1981-01-30  
UF mixed-function oxidase systems  
\*BT1 oxygenases  
RT aryl 4-monooxygenase  
RT cytochrome oxidase  
RT cytochromes  
RT microsomes

### mixed media

USE mixed solvents

### MIXED NITRIDE FUELS

1988-10-10  
Uranium nitride mixed with plutonium nitride or other nitrides. Index other nitrides if important.  
\*BT1 nuclear fuels  
\*BT1 solid fuels  
RT ceramics  
RT plutonium nitrides  
RT uranium nitrides

### MIXED OXIDE FUEL FABRICATION PLANTS

1994-08-12  
(Until August 1994 this descriptor was spelled MIXED OXIDE FUEL PLANT.)  
UF mixed oxide fuel plant  
UF uranium oxide fuel plant  
\*BT1 fuel fabrication plants

**mixed oxide fuel plant**

INIS: 1994-08-12; ETDE: 2002-03-28

USE mixed oxide fuel fabrication plants

**MIXED OXIDE FUELS**

INIS: 1980-04-02; ETDE: 1980-05-07

Uranium dioxide mixed with other oxide(s); index also the other oxide(s) if important.

\*BT1 nuclear fuels

\*BT1 solid fuels

RT ceramics

**MIXED SOLVENTS**

UF mixed media

\*BT1 mixtures

BT1 solvents

**MIXED SPECTRUM REACTORS**

UF br-3-vn reactor

UF fast-mixed spectrum reactor

BT1 reactors

NT1 acpr reactor

NT1 browns ferry-1 reactor

NT1 browns ferry-2 reactor

NT1 browns ferry-3 reactor

NT1 diorit reactor

NT1 nsrr reactor

NT1 omre reactor

NT1 rpt reactor

**MIXED STATE**

1994-07-01

A state of partial penetration of magnetic fields in orderly arrays of magnetic flux in vortices, usually thought of as a state of Type-II superconductivity only.

RT superconductivity

**MIXED STATES**

2011-01-25

Quantum states which can be described only as a blend of several pure states.

BT1 quantum states

RT density matrix

**MIXER-SETTLERS**

\*BT1 extraction apparatuses

RT laboratory equipment

RT mixers

RT mixing

**MIXERS**

INIS: 1992-09-04; ETDE: 1976-01-23

UF blenders

SF mullers

\*BT1 materials handling equipment

RT mixer-settlers

**MIXING**

Not for the concept covered by CONFIGURATION MIXING.

UF blending

RT aeration

RT diffusion

RT mixer-settlers

RT mixtures

RT solubility

RT stirring

RT turbulence

**mixing (genetic)**

USE hybridization

**MIXING ANGLE**

2015-11-27

NT1 neutrino mixing angle

NT1 weinberg angle

RT mixing ratio

**MIXING HEAT**

UF heat of mixing

\*BT1 enthalpy

RT solution heat

**mixing matrix (kobayashi-maskawa)**

INIS: 1984-01-18; ETDE: 2002-03-28

USE kobayashi-maskawa matrix

**MIXING RATIO**

BT1 dimensionless numbers

RT branching ratio

RT decay

RT energy-level transitions

RT mixing angle

RT multipolarity

RT multipoles

RT neutrino oscillation

RT particle production

RT weinberg angle

**MIXTURES**

BT1 dispersions

NT1 binary mixtures

NT1 homogeneous mixtures

NT2 solutions

NT3 aqueous solutions

NT3 fuel solutions

NT3 hypertonic solutions

NT3 isotonic solutions

NT3 leachates

NT3 process solutions

NT3 solid solutions

NT1 mixed solvents

NT1 slurries

NT2 fuel slurries

RT compatibility

RT mixing

**ML-1 REACTOR**

2000-04-12

INEEL, Idaho Falls, Idaho, USA. Shut down in 1964.

UF mobile low power plant-1

\*BT1 enriched uranium reactors

\*BT1 mobile reactors

\*BT1 nitrogen cooled reactors

\*BT1 power reactors

\*BT1 water moderated reactors

**mlis**

2010-02-24

Molecular Laser Isotope Separation

USE laser isotope separation

**mm-0011**

INIS: 2000-04-12; ETDE: 1978-12-20

USE nickel base alloys

**mms**

INIS: 1985-07-22; ETDE: 1976-05-17

(Prior to August 1985 this was a valid descriptor.)

USE methyl methanesulfonate

**mn-21**

INIS: 2000-04-12; ETDE: 1978-12-20

USE alloy-mn-21

**MNR REACTOR**

McMaster Univ., Hamilton, Ontario, Canada.

UF mc master university nuclear reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

**mns reactor**

1991-02-11

(Prior to March 2004 this was a valid descriptor.)

USE mnsr-ciae reactor

**MNSR-CIAE REACTOR**

2004-03-15

CIAE, Beijing, China.

(Prior to March 2004 the descriptor MNS REACTOR was used for this reactor.)

UF beijing miniature neutron source reactor

UF mns reactor

\*BT1 mnsr type reactors

RT ciae

**MNSR-SD REACTOR**

2004-03-15

Research Institute of Geological Science, Shandong, China. Decommissioned since 2011.

UF shandong miniature neutron source reactor

\*BT1 mnsr type reactors

**MNSR-SH REACTOR**

2004-03-15

Shanghai Testing and Research Institute, China. Decommissioned since 2008

UF shanghai miniature neutron source reactor

\*BT1 mnsr type reactors

**MNSR-SZ REACTOR**

2004-03-15

Shenzhen Univ., China.

UF shenzhen miniature neutron source reactor

\*BT1 mnsr type reactors

**MNSR TYPE REACTORS**

2004-03-15

UF miniature neutron source reactors

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

NT1 entc mnsr reactor

NT1 gharr-1 reactor

NT1 mnsr-ciae reactor

NT1 mnsr-sd reactor

NT1 mnsr-sh reactor

NT1 mnsr-sz reactor

NT1 nirr-1 reactor

NT1 parr-2 reactor

NT1 srr-1 reactor

**mnu**

INIS: 2000-04-12; ETDE: 1980-07-23

USE methyl nitrosourea

**mo-re 1**

INIS: 2000-04-12; ETDE: 1979-08-09

USE alloy-mo-re-1

**mo-re 2**

INIS: 2000-04-12; ETDE: 1979-10-23

USE alloy-mo-re-2

**MOATA REACTOR**

Australian Atomic Energy Commission Research Establishment, Lucas Heights, Australia. Decommissioned, shutdown since 1995.

UF australian moata reactor

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 training reactors

**MOBIL M-GASOLINE PROCESS**

INIS: 2000-04-12; ETDE: 1976-12-16  
 One-step catalytic conversion of methanol to gasoline. Crude methanol is produced from coal gasification synthesis gas or natural gas.  
 RT gasoline  
 RT gasoline plants  
 RT synthetic fuels  
 RT synthetic petroleum

**MOBILE HOMES**

2000-04-12  
 \*BT1 residential buildings  
 RT households  
 RT houses  
 RT prefabricated buildings  
 RT residential sector  
 RT vehicles

**mobile low power plant-1**

2000-04-12  
 USE ml-1 reactor

**MOBILE PHONES**

2015-04-16  
 BT1 telephones

**MOBILE POLLUTANT SOURCES**

INIS: 1992-03-09; ETDE: 1978-04-05  
 Use for general articles when sources are not named. See also specific mobile sources e.g., AUTOMOBILES.

BT1 pollution sources  
 RT air pollution  
 RT point pollutant sources  
 RT pollution  
 RT stationary pollutant sources

**MOBILE REACTORS**

Designed to be movable while in operation.  
 SF 710 reactor  
 BT1 reactors  
 NT1 mh-1a reactor  
 NT1 ml-1 reactor  
 NT1 slc prototype reactor  
 NT1 space power reactors  
 NT2 snap reactors  
 NT3 snap 10 reactor  
 NT4 s10fs-1 reactor  
 NT4 s10fs-3 reactor  
 NT4 s10fs-4 reactor  
 NT3 snap 2 reactor  
 NT4 s2ds reactor  
 NT3 snap 50 reactor  
 NT3 snap 8 reactor  
 NT4 s8dr reactor  
 NT4 s8er reactor  
 NT2 space propulsion reactors  
 NT3 kiwi reactors  
 NT4 kiwi-tnt reactor  
 NT3 nerva reactor  
 NT3 nrx-a1 reactor  
 NT3 nrx-a2 reactor  
 NT3 nrx-a3 reactor  
 NT3 nrx-a4-est reactor  
 NT3 nrx-a5 reactor  
 NT3 nrx-a6 reactor  
 NT3 nrx-a7 reactor  
 NT3 pewee-1 reactor  
 NT3 pewee-2 reactor  
 NT3 pewee-3 reactor  
 NT3 pewee-4 reactor  
 NT3 phoebus-1a reactor  
 NT3 phoebus-1b reactor  
 NT3 phoebus-2a reactor  
 NT3 rover reactors  
 NT3 twmr reactor  
 NT3 xe-2 reactor  
 RT thermionic reactors

**MOBILITY**

For material movement use TRANSPORT.

NT1 carrier mobility  
 NT1 hole mobility  
 NT1 particle mobility  
 NT2 electron mobility  
 NT2 ion mobility

**MOCHOVCE-1 REACTOR**

INIS: 1984-10-19; ETDE: 1984-11-06  
 \*BT1 wwer type reactors

**MOCHOVCE-2 REACTOR**

1994-09-30  
 \*BT1 wwer type reactors

**MOCHOVCE LIQUID RAW FINAL TREATMENT FACILITY**

2012-11-27  
 Incineration, cementation and bituminization plant for low-level and intermediate-level liquid radioactive wastes in Mochovce, Slovakia.

UF fs krao mochovce  
 BT1 nuclear facilities  
 \*BT1 radioactive waste facilities  
 RT intermediate-level radioactive wastes  
 RT javys  
 RT low-level radioactive wastes  
 RT slovakia

**MOCHOVCE RADIOACTIVE WASTE REPOSITORY**

2002-12-17  
 UF national radioactive waste repository in mochovce  
 UF republikove uloziste radioaktivnych odpadov v mochovciach  
 \*BT1 radioactive waste facilities

**MOCKUP**

BT1 structural models  
 NT1 phantoms  
 RT biological models  
 RT functional models  
 RT mathematical models  
 RT microcosms  
 RT pilot plants  
 RT scale models  
 RT simulators  
 RT test facilities

**MOCTEZUMITE**

2000-04-12  
 \*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT lead oxides  
 RT tellurium oxides  
 RT uranium oxides

**MODE CONTROL**

INIS: 1984-05-28; ETDE: 1978-03-08  
 BT1 control  
 RT lasers  
 RT mode selection  
 RT oscillation modes  
 RT wave propagation

**MODE CONVERSION**

INIS: 1991-03-22; ETDE: 1991-04-09  
 Transformation of an electromagnetic wave from one mode of propagation to another.  
 RT oscillation modes  
 RT plasma heating  
 RT resonance  
 RT wave propagation

**MODE LOCKING**

RT lasers  
 RT mode selection

**MODE RATIONAL SURFACES**

INIS: 1991-03-22; ETDE: 1991-04-09  
 UF rational surfaces  
 \*BT1 magnetic surfaces  
 RT stellarators  
 RT tokamak devices

**MODE SELECTION**

INIS: 1992-08-11; ETDE: 1978-02-14  
 BT1 tuning  
 RT frequency selection  
 RT lasers  
 RT mode control  
 RT mode locking  
 RT oscillation modes

**modeling**

INIS: 1976-09-06; ETDE: 2002-03-28  
 USE simulation

**models (atomic)**

USE atomic models

**models (biological)**

USE biological models

**models (cosmological)**

USE cosmological models

**models (crystal)**

USE crystal models

**models (flow)**

USE flow models

**models (functional)**

USE functional models

**models (linear absorption)**

INIS: 1976-02-11; ETDE: 2002-03-28  
 USE linear absorption models

**models (mathematical)**

USE mathematical models

**models (nuclear)**

USE nuclear models

**models (optical)**

USE optical models

**models (organizational)**

INIS: 1975-11-07; ETDE: 1975-12-16  
 USE organizational models

**models (particle)**

USE particle models

**models (plasma)**

USE plasma simulation

**models (scale)**

INIS: 1980-07-24; ETDE: 1980-08-12  
 USE scale models

**models (shell)**

USE shell models

**models (star)**

INIS: 1975-10-23; ETDE: 1975-12-16  
 USE star models

**models (statistical)**

USE statistical models

**models (structural)**

USE structural models

**MODERATELY ENRICHED URANIUM**

5 - 80 per cent.  
 \*BT1 enriched uranium

**MODERATING DETECTORS**

- \*BT1 neutron detectors
- NT1 bonner sphere detectors
- NT1 long counters
- RT activation detectors
- RT bf3 counters

**MODERATING RATIO**

- BT1 dimensionless numbers
- RT moderators

**MODERATOR-FUEL RATIO**

- BT1 dimensionless numbers
- RT moderators

**MODERATOR PELLETS**

- INIS: 1975-09-01; ETDE: 1975-10-01
- BT1 pellets
- RT moderators
- RT pelletizing

**MODERATORS**

See also descriptors for specific moderator materials.

- NT1 hydride moderators
- NT1 hydroxide moderators
- NT1 organic moderators
- RT beryllium
- RT beryllium alloys
- RT beryllium compounds
- RT beryllium oxides
- RT configuration control
- RT graphite
- RT heavy water
- RT moderating ratio
- RT moderator-fuel ratio
- RT moderator pellets
- RT neutron slowing-down theory
- RT reactor cores
- RT reactor materials
- RT sigma piles
- RT thermal columns
- RT water

**modes (optical)**

- USE optical modes

**modes (oscillation)**

- USE oscillation modes

**modes (single-particle)**

- USE single-particle modes

**MODIFICATIONS**

- 1985-01-17
- RT construction
- RT corrections
- RT maintenance
- RT mitigation
- RT optimization
- RT retrofitting
- RT specifications
- RT variations

**MODIFIED IN-SITU PROCESSES**

2000-04-12  
Combination of some underground mining and surface retorting with in-situ retorting techniques.

- NT1 integrated in-situ process
- NT1 oxy modified in-situ process
- NT1 rise
- RT in-situ processing
- RT retorting
- RT underground mining

**modified surface delta potential**

- INIS: 1975-09-09; ETDE: 1976-05-19
- USE surface delta potential

**modular cogeneration power plants**

- INIS: 2000-04-12; ETDE: 1985-05-31
- SEE dual-purpose power plants

**modular construction**

- INIS: 1983-09-06; ETDE: 1979-10-23
- USE modular structures

**MODULAR INTEGRATED UTILITY SYSTEMS**

- INIS: 2000-04-12; ETDE: 2005-02-10
- Small plant located within housing developments or communities to provide all utility services.
- (Prior to January 2005 MIUS was used for this concept.)

UF mius (modular integrated utility systems)

- \*BT1 integrated energy utility systems
- RT central heating plants
- RT ices program
- RT public utilities
- RT total energy systems

**MODULAR STRUCTURES**

- INIS: 1983-09-06; ETDE: 1979-10-23
- UF modular construction
- RT camac system
- RT construction
- RT construction industry
- RT distributed structures
- RT energy facilities
- RT fabrication
- RT industrial plants
- RT mechanical structures
- RT nuclear instrument modules
- RT small modular reactors

**MODULATION**

- NT1 frequency modulation
- RT periodicity
- RT variations

**MOELLER SCATTERING**

- \*BT1 elastic scattering
- RT bhabha scattering
- RT quantum electrodynamics

**MOESSBAUER EFFECT**

- RT recoilless fraction
- RT recoils
- RT resonance fluorescence
- RT structural chemical analysis

**MOESSBAUER SPECTROMETERS**

- UF moessbauer spectroscopy
- \*BT1 gamma spectrometers

**moessbauer spectroscopy**

- INIS: 1984-04-04; ETDE: 2002-03-28
- USE moessbauer spectrometers

**MOHAWK RIVER**

- \*BT1 rivers
- RT new york

**mohole project**

- 1996-07-18
- (Until July 1996 this was a valid descriptor.)
- SEE earth crust
- SEE earth mantle

**MOISTURE**

- 1993-03-09
- (Until March 1993, this concept was indexed by HUMIDITY.)
- SF water content
- NT1 humidity
- RT moisture gages
- RT water

**MOISTURE GAGES**

(From September 1976 till March 1997 TENSIO METERS was a valid ETDE descriptor.)

- UF neutron moisture meters
- SF tensiometers
- BT1 measuring instruments
- RT humidity
- RT hygrometry
- RT moisture
- RT neutron probes
- RT radiometric gages

**moisture separators**

- INIS: 2000-04-12; ETDE: 1975-08-19
- USE vapor separators

**MOLASSES**

- INIS: 1992-05-12; ETDE: 1977-04-12
- UF syrups
- BT1 food
- RT animal feeds
- RT saccharides
- RT sugar cane

**molдавites**

- USE tektites

**MOLDING**

- UF molding materials
- BT1 fabrication
- NT1 briquetting
- NT1 pelletizing
- RT casting
- RT casting molds
- RT materials working

**molding materials**

- INIS: 2000-04-12; ETDE: 1976-11-17
- (Prior to March 1997 this was a valid ETDE descriptor.)
- USE materials
- USE molding

**MOLDOVA**

- INIS: 1997-08-20; ETDE: 1993-04-08
- (Until January 1993, this was indexed by USSR.)
- SF soviet union
- SF union of soviet socialist republics
- SF ussr
- \*BT1 eastern europe
- RT black sea

**molds**

- USE fungi

**molds (casting)**

- USE casting molds

**MOLECULAR BEAM EPITAXY**

- INIS: 1994-06-27; ETDE: 1982-10-05
- Epitaxy induced by molecular beams for the production of thin films.
- UF mbe
- \*BT1 epitaxy
- RT crystal growth

**MOLECULAR BEAMS**

- BT1 beams
- RT molecules

**MOLECULAR BIOLOGY**

- RT biological effects
- RT biological evolution
- RT biological pathways
- RT biophysics
- RT biosynthesis
- RT biotechnology
- RT dna sequencing
- RT genetic engineering
- RT metabolism

RT molecules  
 RT physiology  
 RT radiobiology  
 RT strand breaks

**MOLECULAR CLUSTERS**

INIS: 1992-10-19; ETDE: 1992-11-04  
 RT cluster beams

**MOLECULAR CRYSTALS**

BT1 crystals

**MOLECULAR DYNAMICS METHOD**

1996-04-16  
 BT1 calculation methods  
 RT computerized simulation  
 RT many-body problem

**molecular fluorescence spectroscopy**

2000-04-12  
 USE fluorescence spectroscopy

**MOLECULAR ION BEAM INJECTION**

\*BT1 ion beam injection

**MOLECULAR IONS**

INIS: 1975-11-11; ETDE: 1975-12-16  
 Coordinate the above descriptor with a descriptor for the specific ion.  
 UF ions (molecular)  
 \*BT1 ions  
 NT1 hydrogen ions 2 plus  
 NT1 hydrogen ions 3 plus  
 NT1 oxonium ions

**MOLECULAR MODELS**

BT1 mathematical models  
 NT1 thermodynamic molecular model

**MOLECULAR ORBITAL METHOD**

BT1 calculation methods  
 RT electronic structure  
 RT lcao method  
 RT molecular structure

**molecular orbital model**

USE atomic models  
 USE molecules

**MOLECULAR SIEVE PROCESS**

2000-04-12  
 Process to dehydrate and to remove carbon dioxide and sulfur compounds from natural gas.  
 \*BT1 desulfurization

**MOLECULAR SIEVES**

BT1 adsorbents  
 RT adsorption

**MOLECULAR STRUCTURE**

UF structure (molecular)  
 NT1 amino acid sequence  
 RT biological repair  
 RT bond lengths  
 RT configuration interaction  
 RT conformational changes  
 RT dissociation energy  
 RT dna sequencing  
 RT helical configuration  
 RT interatomic distances  
 RT lcao method  
 RT matrix isolation  
 RT molecular orbital method  
 RT molecules  
 RT nucleic acid denaturation  
 RT optical activity  
 RT photoelectron spectroscopy  
 RT photoreactivation  
 RT protein denaturation  
 RT protein structure  
 RT stereochemistry

RT structural chemical analysis  
 RT structure-activity relationships

**MOLECULAR WEIGHT**

RT cryoscopy  
 RT depolymerization  
 RT molecules  
 RT osmosis  
 RT polymerization  
 RT weight

**MOLECULE COLLISIONS**

BT1 collisions  
 NT1 atom-molecule collisions  
 NT1 electron-molecule collisions  
 NT1 ion-molecule collisions  
 NT1 molecule-molecule collisions  
 NT1 photon-molecule collisions  
 NT1 positron-molecule collisions

**MOLECULE-MOLECULE COLLISIONS**

\*BT1 molecule collisions

**MOLECULES**

UF molecular orbital model  
 UF polyatomic molecules  
 NT1 dendrimers  
 NT1 mesic molecules  
 NT2 muonic molecules  
 RT jahn-teller effect  
 RT kihara potential  
 RT matrix isolation  
 RT micellar systems  
 RT molecular beams  
 RT molecular biology  
 RT molecular structure  
 RT molecular weight  
 RT van der waals forces

**MOLIERE THEORY**

RT multiple scattering

**MOLLIER DIAGRAMS**

1999-08-18  
 \*BT1 diagrams  
 RT steam  
 RT thermodynamics

**MOLLUSCS**

UF gasteropods  
 BT1 aquatic organisms  
 \*BT1 invertebrates  
 NT1 clams  
 NT1 mussels  
 NT1 oysters  
 NT1 snails  
 RT benthos

**MOLNIYA SATELLITES**

BT1 satellites

**MOLTEN CARBONATE FUEL CELLS**

INIS: 1992-02-21; ETDE: 1980-06-23  
 (Prior to June 1980 this information was indexed by the descriptors HIGH-TEMPERATURE FUEL CELLS + MOLTEN SALTS + CARBONATES.)  
 \*BT1 high-temperature fuel cells

**molten carbonate process**

INIS: 2000-04-12; ETDE: 1976-08-04  
 Process for removal of sulfur dioxide from flue gas using ternary eutectic alkali metal carbonate melt; reduction of sulfite and sulfate reaction products with petroleum coke; and reaction of resulting sulfide with steam and carbon dioxide to regenerate carbonate and form hydrogen sulfide, which can be converted to sulfur.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**MOLTEN IRON PUREGAS PROCESS**

INIS: 2000-04-12; ETDE: 1985-06-04  
 Gasification of coal using oxygen, top and bottom blowing, and a liquid iron bath to produce very pure synthesis gas.  
 \*BT1 coal gasification

**MOLTEN METAL-WATER REACTIONS**

INIS: 1977-09-06; ETDE: 1977-04-12  
 Combined physical-chemical explosions produced by sudden contact between high temperature metals and water.  
 UF liquid metal-water reactions  
 UF liquid sodium-water reactions  
 UF metal-water reactions  
 UF sodium-water reactions  
 UF sodium(liquid)-water reactions  
 RT chemical reactions  
 RT explosions  
 RT fuel-coolant interactions  
 RT reactor accidents  
 RT reactor safety

**MOLTEN SALT COAL****GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1975-10-01  
 Crushed and dried coal in preheated steam-oxygen stream is fed with sodium carbonate into gasifier. Raw gas (330 btu/scf) is shifted, purified, methanated, and dehydrated.  
 UF atomics international molten salt process  
 UF molten salt process (atomic international)  
 SF rockwell international process  
 \*BT1 coal gasification  
 RT molten salt waste gasification process

**molten salt coolants**

USE molten salts

**MOLTEN SALT COOLED****REACTORS**

\*BT1 molten salt reactors  
 NT1 msre reactor

**MOLTEN SALT FUELED REACTORS**

\*BT1 fluid fueled reactors  
 \*BT1 molten salt reactors

**MOLTEN SALT FUELS**

UF fused salt fuels  
 \*BT1 liquid fuels  
 \*BT1 nuclear fuels  
 RT molten salt reactors

**molten salt process (atomic international)**

INIS: 2000-04-12; ETDE: 1975-10-01  
 USE molten salt coal gasification process

**molten salt process (kellogg)**

2000-04-12  
 USE kellogg process



**molten salt reactor experiment**

USE msre reactor

**MOLTEN SALT REACTORS**

BT1 reactors

NT1 molten salt cooled reactors

NT2 msre reactor

NT1 molten salt fueled reactors

RT metal transfer process

RT molten salt fuels

RT reductive extraction

**MOLTEN SALT WASTE****GASIFICATION PROCESS**

INIS: 1996-04-18; ETDE: 1981-07-18

SF rockwell international process

\*BT1 waste processing

RT molten salt coal gasification process

RT molten salts

**MOLTEN SALTS**

UF fused salts

UF ionic liquids

UF molten salt coolants

BT1 salts

NT1 flibe

RT coolants

RT molten salt waste gasification process

**MOLTING**

INIS: 1981-07-06; ETDE: 1977-09-19

*The shedding of an outer covering as a part of a periodic process of growth.*

UF moulting

RT animal growth

**MOLTOX OXYGEN PROCESS**

INIS: 2000-04-12; ETDE: 1986-11-20

*Air products and chemicals process for oxygen production.*

RT oxygen plants

**moluranite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

**MOLYBDATES***Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 molybdenum compounds

BT1 oxygen compounds

RT molybdenum oxides

**MOLYBDENUM**

\*BT1 refractory metals

\*BT1 transition elements

**MOLYBDENUM 100**

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 molybdenum isotopes

\*BT1 stable isotopes

**MOLYBDENUM 100 REACTIONS**

INIS: 1984-06-21; ETDE: 1984-08-20

\*BT1 heavy ion reactions

**MOLYBDENUM 100 TARGET**

ETDE: 1976-07-09

BT1 targets

**MOLYBDENUM 101**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 molybdenum isotopes

**MOLYBDENUM 102**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 molybdenum isotopes

**MOLYBDENUM 103**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 molybdenum isotopes

**MOLYBDENUM 104**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 molybdenum isotopes

**MOLYBDENUM 105**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 molybdenum isotopes

\*BT1 seconds living radioisotopes

**MOLYBDENUM 106**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 molybdenum isotopes

\*BT1 seconds living radioisotopes

**MOLYBDENUM 107**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 molybdenum isotopes

\*BT1 seconds living radioisotopes

**MOLYBDENUM 108**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 molybdenum isotopes

\*BT1 seconds living radioisotopes

**MOLYBDENUM 109**

1998-01-27

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 molybdenum isotopes

**MOLYBDENUM 110**

2004-02-16

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 molybdenum isotopes

\*BT1 seconds living radioisotopes

**MOLYBDENUM 111**

2007-06-06

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 molybdenum isotopes

**MOLYBDENUM 112**

2007-06-06

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 molybdenum isotopes

**MOLYBDENUM 113**

2007-06-06

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 molybdenum isotopes

**MOLYBDENUM 114**

2007-06-06

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 molybdenum isotopes

**MOLYBDENUM 115**

2007-06-06

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 molybdenum isotopes

**MOLYBDENUM 83**

2007-06-06

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 molybdenum isotopes

**MOLYBDENUM 84**

INIS: 1991-03-22; ETDE: 1991-04-09

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 molybdenum isotopes

**MOLYBDENUM 85**

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 molybdenum isotopes

**MOLYBDENUM 86**

INIS: 1994-12-22; ETDE: 1995-01-03

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 molybdenum isotopes

\*BT1 seconds living radioisotopes

**MOLYBDENUM 87**

1977-11-02

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 molybdenum isotopes

\*BT1 seconds living radioisotopes

**MOLYBDENUM 88**

INIS: 1976-11-08; ETDE: 1976-09-15

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 molybdenum isotopes

**MOLYBDENUM 89**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 molybdenum isotopes

**MOLYBDENUM 90**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hours living radioisotopes

- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 91**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 92**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 molybdenum isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 stable isotopes

**MOLYBDENUM 92 REACTIONS**

1983-10-14

- \*BT1 heavy ion reactions

**MOLYBDENUM 92 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 93**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 molybdenum isotopes
- \*BT1 years living radioisotopes

**MOLYBDENUM 94**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 molybdenum isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 stable isotopes

**MOLYBDENUM 94 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 95**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 95 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 96**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 96 REACTIONS**

1989-12-08

- \*BT1 heavy ion reactions

**MOLYBDENUM 96 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 97**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 97 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 98**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 98 REACTIONS**

INIS: 1987-05-26; ETDE: 1988-12-05

- \*BT1 heavy ion reactions

**MOLYBDENUM 98 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- RT radioisotope generators

**MOLYBDENUM ADDITIONS**

1996-11-13

Alloys containing not more than 1% Mo are listed here.

- \*BT1 molybdenum alloys

- NT1 alloy-ti90al6
- NT1 steel-cr12moniv
- NT1 steel-cr12mov
- NT2 alloy-ht-9
- NT1 steel-cr17mo
- NT2 stainless steel-440
- NT1 steel-cr2mo
- NT2 steel-astm-a542
- NT1 steel-cr2moninb
- NT1 steel-cr2mov
- NT1 steel-cr2nimov
- NT1 steel-cr5mo
- NT1 steel-cr9mo
- NT1 steel-cralnimo
- NT1 steel-crmo
- NT1 steel-crmov
- NT1 steel-mncumo
- NT2 steel-astm-a537
- NT1 steel-mnmo
- NT2 steel-astm-a302
- NT1 steel-mnnimo
- NT2 steel-astm-a533-b
- NT1 steel-mnnimov
- NT1 steel-ni3crmo
- NT2 steel-astm-a543
- NT1 steel-ni3crmov
- NT1 steel-nicrmo
- NT1 steel-nimocr

**MOLYBDENUM ALLOYS**

1996-11-13

Alloys containing more than 1% Mo.

- UF alloy-ehp-496
- UF alloy-ehp-567
- UF alloy-n55m20v25
- UF alloy-n65m20v15
- UF alloy-ni65mo16cr15w4
- UF alloy-ni80fe16mo4
- UF refractaloy
- UF stainless steel-44ln
- UF steel-cr26ni5mo-1
- \*BT1 transition element alloys
- NT1 alloy-b-1900
- NT1 alloy-co43cr20fe18ni13w3
- NT2 havar
- NT1 alloy-d-979
- NT1 alloy-in-102
- NT1 alloy-khn50mbvyu
- NT1 alloy-mar-m246
- NT1 alloy-mn-21
- NT1 alloy-mp35n
- NT1 alloy-n-10m
- NT1 alloy-n-9m

- NT1 alloy-ni43fe30cr22mo3
- NT2 incoloy 825
- NT1 alloy-ni43fe33cr16mo3
- NT2 nimonic pe16
- NT1 alloy-ni49cr22fe18mo9
- NT2 hastelloy x
- NT1 alloy-ni50co20cr15al5mo5
- NT2 nimonic 105
- NT1 alloy-ni50cr22fe18mo9
- NT2 hastelloy xr
- NT1 alloy-ni50mo32cr15si3
- NT1 alloy-ni53cr19fe19nb5mo3
- NT2 inconel 718
- NT1 alloy-ni54cr22co13mo9
- NT2 inconel 617
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni55co17cr15mo5al4ti4
- NT2 astroloy
- NT1 alloy-ni55cr19co11mo10ti3
- NT2 rene 41
- NT1 alloy-ni58cr20co14mo4ti3
- NT2 waspaloy
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni61cr22mo9nb4fe3
- NT2 inconel 625
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 alloy-ni65cr25mo10
- NT2 nimonic 86
- NT1 alloy-ni70mo17cr7fe5
- NT2 hastelloy n
- NT2 inor-8
- NT1 alloy-ni74cr13al6mo4
- NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
- NT2 inconel 713lc
- NT1 alloy-ni79fe16mo4
- NT1 alloy-nx-188
- NT1 alloy-ra-333
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-ti78cr11mo7al3
- NT1 alloy-ti88mo8al3
- NT1 alloy-ti89al6mo3
- NT1 alloy-ti90al6mo3
- NT1 alloy-ti90mo7al2
- NT1 alloy-ti91al4mo3
- NT1 alloy-ti91al5cr2
- NT1 alloy-v-36
- NT1 chlorimet
- NT1 chromium-molybdenum steels
- NT2 chromium-nickel-molybdenum steels
- NT3 alloy-m-813
- NT3 steel-cr11ni10mo2ti-1
- NT3 steel-cr15ni15motib
- NT3 steel-cr16ni13monbv
- NT3 steel-cr16ni15mo3nb
- NT3 steel-cr16ni16monb
- NT3 steel-cr16ni8mo2
- NT4 stainless steel-16-8-2
- NT3 steel-cr16ni9mo2
- NT3 steel-cr17ni12mo3
- NT4 stainless steel-316
- NT3 steel-cr17ni12mo3-1
- NT4 stainless steel-316l
- NT4 stainless steel-zend17-13
- NT3 steel-cr17ni12monb
- NT3 steel-cr17ni13mo2ti
- NT3 steel-cr17ni13mo3ti
- NT3 steel-ni26cr15ti2movalb
- NT4 alloy-a-286
- NT1 discaloy
- NT1 illium
- NT1 incoloy 901

**NT1** molybdenum additions

- NT2** alloy-ti90al6
- NT2** steel-cr12moniv
- NT2** steel-cr12mov
- NT3** alloy-ht-9
- NT2** steel-cr17mo
- NT3** stainless steel-440
- NT2** steel-cr2mo
- NT3** steel-astm-a542
- NT2** steel-cr2moninb
- NT2** steel-cr2mov
- NT2** steel-cr2nimov
- NT2** steel-cr5mo
- NT2** steel-cr9mo
- NT2** steel-cralnimo
- NT2** steel-crmo
- NT2** steel-crmov
- NT2** steel-mncumo
- NT3** steel-astm-a537
- NT2** steel-mnmo
- NT3** steel-astm-a302
- NT2** steel-mnnimo
- NT3** steel-astm-a533-b
- NT2** steel-mnnimov
- NT2** steel-ni3crmo
- NT3** steel-astm-a543
- NT2** steel-ni3crmov
- NT2** steel-nicrmo
- NT2** steel-nimocr
- NT1** molybdenum base alloys
- NT2** alloy-mo99
- NT3** alloy-tzm
- NT3** alloy-zm-2a
- NT2** alloy-mo99b
- NT1** ni-o-nel
- NT1** nimonic 115
- NT1** rene-100
- NT1** rene 80
- NT1** rene 95
- NT1** sicromo 9m
- NT1** stainless steel m-50
- NT1** steel-cd-4mcu
- NT1** steel-cr10mo2
- NT1** steel-cr17ni4mo3
- NT1** steel-cr9monbv
- NT1** steel-in-787
- NT1** timken alloys
- NT1** tribaloy 400
- NT1** tribaloy 800
- NT1** udimet alloys
- NT2** alloy-ni53co19cr15mo5al4ti3
- NT3** udimet 700
- NT2** udimet 500
- NT1** vitallium

**MOLYBDENUM ARSENIDES***INIS: 2000-04-12; ETDE: 1976-03-11*

- \*BT1 arsenides
- \*BT1 molybdenum compounds

**MOLYBDENUM BASE ALLOYS**

- SF alloy-tzc*
- \*BT1 molybdenum alloys
- NT1** alloy-mo99
- NT2** alloy-tzm
- NT2** alloy-zm-2a
- NT1** alloy-mo99b

**MOLYBDENUM BLUE**

- \*BT1 molybdenum oxides
- BT1 pigments

**MOLYBDENUM BORIDES**

- \*BT1 borides
- \*BT1 molybdenum compounds

**MOLYBDENUM BROMIDES**

- \*BT1 bromides
- \*BT1 molybdenum halides

**MOLYBDENUM CARBIDES**

- \*BT1 carbides
- \*BT1 molybdenum compounds

**MOLYBDENUM CARBONATES***INIS: 1979-01-18; ETDE: 1979-02-23*

- \*BT1 carbonates
- \*BT1 molybdenum compounds

**MOLYBDENUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 molybdenum halides

**MOLYBDENUM COMPLEXES**

- \*BT1 transition element complexes

**MOLYBDENUM COMPOUNDS***1997-06-17*

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1** molybdates
- NT1** molybdenum arsenides
- NT1** molybdenum borides
- NT1** molybdenum carbides
- NT1** molybdenum carbonates
- NT1** molybdenum halides
- NT2** molybdenum bromides
- NT2** molybdenum chlorides
- NT2** molybdenum fluorides
- NT2** molybdenum iodides
- NT1** molybdenum hydrides
- NT1** molybdenum hydroxides
- NT1** molybdenum nitrates
- NT1** molybdenum nitrides
- NT1** molybdenum oxides
- NT2** molybdenum blue
- NT1** molybdenum phosphates
- NT1** molybdenum phosphides
- NT1** molybdenum selenides
- NT1** molybdenum silicates
- NT1** molybdenum silicides
- NT1** molybdenum sulfates
- NT1** molybdenum sulfides
- NT1** molybdenum tellurides
- NT1** molybdic acid
- NT1** molybdophosphates
- NT1** molybdophosphoric acid

**MOLYBDENUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 molybdenum halides

**MOLYBDENUM HALIDES***2012-07-19*

- \*BT1 halides
- \*BT1 molybdenum compounds
- NT1** molybdenum bromides
- NT1** molybdenum chlorides
- NT1** molybdenum fluorides
- NT1** molybdenum iodides

**MOLYBDENUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 molybdenum compounds

**MOLYBDENUM HYDROXIDES***ETDE: 1975-08-19*

- \*BT1 hydroxides
- \*BT1 molybdenum compounds

**MOLYBDENUM IODIDES**

- \*BT1 iodides
- \*BT1 molybdenum halides

**MOLYBDENUM IONS**

- \*BT1 ions

**MOLYBDENUM ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1** molybdenum 100
- NT1** molybdenum 101

**NT1** molybdenum 102

- NT1** molybdenum 103
- NT1** molybdenum 104
- NT1** molybdenum 105
- NT1** molybdenum 106
- NT1** molybdenum 107
- NT1** molybdenum 108
- NT1** molybdenum 109
- NT1** molybdenum 110
- NT1** molybdenum 111
- NT1** molybdenum 112
- NT1** molybdenum 113
- NT1** molybdenum 114
- NT1** molybdenum 115
- NT1** molybdenum 83
- NT1** molybdenum 84
- NT1** molybdenum 85
- NT1** molybdenum 86
- NT1** molybdenum 87
- NT1** molybdenum 88
- NT1** molybdenum 89
- NT1** molybdenum 90
- NT1** molybdenum 91
- NT1** molybdenum 92
- NT1** molybdenum 93
- NT1** molybdenum 94
- NT1** molybdenum 95
- NT1** molybdenum 96
- NT1** molybdenum 97
- NT1** molybdenum 98
- NT1** molybdenum 99

**MOLYBDENUM NITRATES***INIS: 1996-07-18; ETDE: 1976-12-16*

(From July 1996 to November 2007

MOLYBDENUM COMPOUNDS +

NITRATES was used for this concept.)

- \*BT1 molybdenum compounds
- \*BT1 nitrates

**MOLYBDENUM NITRIDES**

- \*BT1 molybdenum compounds
- \*BT1 nitrides

**MOLYBDENUM ORES**

- BT1 ores

**MOLYBDENUM OXIDES***1996-07-23*

- \*BT1 molybdenum compounds
- \*BT1 oxides
- NT1** molybdenum blue
- RT* molybdates
- RT* molybdophosphoric acid
- RT* oxide minerals

**MOLYBDENUM PHOSPHATES**

- \*BT1 molybdenum compounds
- \*BT1 phosphates

**MOLYBDENUM PHOSPHIDES***INIS: 1978-07-03; ETDE: 1976-07-07*

- \*BT1 molybdenum compounds
- \*BT1 phosphides

**MOLYBDENUM SELENIDES**

- \*BT1 molybdenum compounds
- \*BT1 selenides

**MOLYBDENUM SILICATES**

- \*BT1 molybdenum compounds
- \*BT1 silicates

**MOLYBDENUM SILICIDES***1975-10-09*

- \*BT1 molybdenum compounds
- \*BT1 silicides

**MOLYBDENUM SULFATES**

- \*BT1 molybdenum compounds
- \*BT1 sulfates

**MOLYBDENUM SULFIDES**

- \*BT1 molybdenum compounds
- \*BT1 sulfides

**MOLYBDENUM TELLURIDES**

- \*BT1 molybdenum compounds
- \*BT1 tellurides

**MOLYBDIC ACID**

2000-04-12

- \*BT1 inorganic acids
- \*BT1 molybdenum compounds

**MOLYBDOPHOSPHATES**

INIS: 1985-09-09; ETDE: 1985-10-11

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 molybdenum compounds
- BT1 oxygen compounds
- BT1 phosphorus compounds
- RT phosphates

**MOLYBDOPHOSPHORIC ACID**

1980-05-14

- UF *phosphomolybdic acid*
- \*BT1 inorganic acids
- \*BT1 molybdenum compounds
- BT1 oxygen compounds
- BT1 phosphorus compounds
- RT heteropolyanions
- RT molybdenum oxides
- RT phosphoric acid

**MOMENT OF INERTIA**

- UF *inertia*
- RT backbending
- RT kinetic energy
- RT mass
- RT mechanics
- RT rotation
- RT vmi model
- RT yrast states

**MOMENTS METHOD**

- BT1 calculation methods
- RT plasma fluid equations
- RT transport theory

**momentum (angular)**

- USE angular momentum

**momentum (linear)**

- USE linear momentum

**momentum (longitudinal)**

- USE longitudinal momentum

**momentum (transverse)**

- USE transverse momentum

**MOMENTUM COOLING**

INIS: 1982-04-13; ETDE: 1982-05-07

*Gradual reduction of emittance of coasting charged-particle beams by feedback sensing and correcting statistical fluctuations of beam momentum.*

- UF *stochastic momentum cooling*
- \*BT1 stochastic cooling

**MOMENTUM TRANSFER**

INIS: 1978-02-23; ETDE: 1978-11-14

- UF *transfer (momentum)*
- NT1 angular momentum transfer
- NT1 four momentum transfer
- NT1 linear momentum transfer

**MOMOTOMBO GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1983-07-20

- BT1 geothermal fields

RT nicaragua

**MONACO**

1995-04-03

- BT1 developed countries
- \*BT1 western europe

**MONACO MARINE ENVIRONMENT LABORATORY**

INIS: 2004-06-11; ETDE: 2004-07-08

*(Prior to June 2004 ILMR was used for this research institute.)*

- UF *iaea marine environment laboratory, monaco*
- UF *ilmr*
- \*BT1 iaea

**MONAZITES**

- UF *cheralite*
- \*BT1 phosphate minerals
- \*BT1 thorium minerals
- RT thorium phosphates

**MONEL**

- \*BT1 nickel base alloys
- NT1 alloy-ni66cu32
- NT2 monel 400

**MONEL 400**

INIS: 1993-10-03; ETDE: 1978-12-20

- \*BT1 alloy-ni66cu32

**monel r-405**

INIS: 1983-11-07; ETDE: 2002-03-28

- USE alloy-ni66cu32

**mongolia**

INIS: 1995-01-24; ETDE: 2002-06-13

- USE mongolian peoples republic

**MONGOLIAN PEOPLES REPUBLIC**

INIS: 1995-01-24; ETDE: 1979-09-27

- UF *mongolia*
- BT1 asia
- RT centrally planned economies

**mongolism**

- USE downs syndrome

**mongrels**

INIS: 2000-04-12; ETDE: 1981-06-15

- USE dogs

**monilia**

- USE candida

**monique event**

1994-10-14

*(Prior to September 1994, this was a valid ETDE descriptor.)*

- USE contained explosions
- USE nuclear explosions

**monitor codes**

INIS: 1988-11-16; ETDE: 1983-08-25

- USE executive codes

**MONITORED RETRIEVABLE STORAGE**

INIS: 1994-07-01; ETDE: 1984-02-10

*The long-term isolation of spent fuel and high-level radioactive waste in facilities that permit continuous monitoring, ready retrieval and periodic maintenance as necessary to assure containment of radioactive materials.*

- \*BT1 radioactive waste storage
- \*BT1 spent fuel storage
- RT high-level radioactive wastes
- RT spent fuels

**MONITORING**

*Use of a more specific term is recommended.*

- UF *monitoring network*

SF *surveillance*

- NT1 acoustic monitoring
- NT1 aerial monitoring
- NT1 air pollution monitoring
- NT2 aerosol monitoring
- NT1 beam monitoring
- NT1 loose parts monitoring
- NT1 radiation monitoring
- NT2 personnel monitoring
- NT1 temperature monitoring
- RT control
- RT detection
- RT reactor monitoring systems
- RT water pollution monitors

**monitoring (beam)**

2000-04-12

- USE beam monitoring

**monitoring (radiation)**

2000-04-12

- USE radiation monitoring

**monitoring network**

- USE monitoring

**MONITORS**

INIS: 1984-12-04; ETDE: 1980-11-08

*Use of a more specific term is recommended.*

- BT1 measuring instruments
- NT1 air pollution monitors
- NT2 condensation particle counters
- NT1 beam monitors
- NT2 beam scanners
- NT2 faraday cups
- NT2 magnetoinduction sensors
- NT1 failed element monitors
- NT1 radiation monitors
- NT2 exposure ratemeters
- NT2 liquid contamination monitors
- NT2 neutron monitors
- NT2 surface contamination monitors
- NT2 survey monitors
- NT1 water pollution monitors
- RT reactor monitoring systems

**monitors (air pollution)**

INIS: 1991-09-18; ETDE: 1976-07-07

- USE air pollution monitors

**monitors (beam)**

INIS: 2000-04-12; ETDE: 1983-11-09

- USE beam monitors

**monitors (failed elements)**

2000-04-12

- USE failed element monitors

**monitors (radiation)**

INIS: 2000-04-12; ETDE: 1983-11-09

- USE radiation monitors

**monitors (reactor)**

2000-03-28

- USE reactor monitoring systems

**monitors (water pollution)**

INIS: 1992-01-15; ETDE: 2002-03-28

- USE water pollution monitors

**monju**

2018-04-05

- USE monju reactor

**MONJU REACTOR**

*JNC, Tsuruga, Fukui, Japan. Permanent shutdown since 2017.*

- UF *fast prototype reactor japan*
- UF *japan prototype fast reactor*
- UF *jpfr reactor*
- UF *monju*
- UF *prototype fast reactor japan*

- \*BT1 lmfbr type reactors
- \*BT1 power reactors
- \*BT1 sodium cooled reactors

**MONKEYS**

- \*BT1 primates
- NT1 baboons
- NT1 macacous
- RT apes

**monobutyl phosphate**

INIS: 1988-08-02; ETDE: 1982-10-05  
USE mbp

**MONOCARBOXYLIC ACIDS**

1996-10-23

- UF ioglycamic acid
- \*BT1 carboxylic acids
- NT1 abscisic acid
- NT1 acetic acid
- NT1 acrylic acid
- NT1 arachidonic acid
- NT1 benzoic acid
- NT1 butyric acid
- NT1 chlorambucil
- NT1 cinnamic acid
- NT1 crotonic acid
- NT1 decanoic acid
- NT1 dodecanoic acid
- NT1 eicosanoic acid
- NT1 formic acid
- NT1 glycolic acid
- NT1 heptanoic acid
- NT1 hexadecanoic acid
- NT1 hexanoic acid
- NT1 isobutyric acid
- NT1 isovaleric acid
- NT1 linoleic acid
- NT1 linolenic acid
- NT1 methacrylic acid
- NT1 nicotinic acid
- NT1 nonanoic acid
- NT1 octadecanoic acid
- NT1 octanoic acid
- NT1 oleic acid
- NT1 pethidine
- NT1 pivalic acid
- NT1 propionic acid
- NT1 sorbic acid
- NT1 tetradecanoic acid
- NT1 trichloroacetic acid
- NT1 uronic acids
- NT1 valeric acid

**monochloroethylene**

INIS: 1992-03-17; ETDE: 1984-05-08  
USE vinyl chloride

**MONOCHROMATIC RADIATION**

INIS: 1978-02-23; ETDE: 1978-04-28  
\*BT1 electromagnetic radiation  
RT laser radiation  
RT visible radiation

**MONOCHROMATORS**

- RT beam analyzers
- RT beam optics
- RT spectrometers

**MONOCLINIC LATTICES**

- \*BT1 three-dimensional lattices

**MONOCLONAL ANTIBODIES**

INIS: 1982-09-21; ETDE: 1982-01-21  
BT1 antibodies  
RT clone cells  
RT hybridomas  
RT radioimmunoscintigraphy  
RT radioimmunotherapy

**monocotyledons**

INIS: 1991-12-16; ETDE: 1988-12-21  
USE liliopsida

**MONOCRYSTALS**

- UF single crystals
- BT1 crystals
- NT1 whiskers
- RT dendritic web growth method
- RT heat exchanger method
- RT verneuil method

**MONOCYTES**

- \*BT1 leukocytes

**monododecylphosphoric acid**

USE mdpa

**MONOMERS**

- NT1 vinyl monomers
- RT dimers
- RT polymerization
- RT polymers

**MONONGAHELA RIVER BASIN**

INIS: 1992-01-14; ETDE: 1977-07-23  
BT1 watersheds  
RT pennsylvania  
RT west virginia

**MONOPOLES**

- NT1 magnetic monopoles
- RT multipoles

**MONOPOLES**

INIS: 1993-02-19; ETDE: 1978-03-09  
Exclusive control of the supply of goods or services by groups or individuals.  
RT antitrust laws  
RT cartels  
RT cooperatives  
RT market  
RT trade

**MONORAILS**

INIS: 2000-04-12; ETDE: 1980-11-08  
BT1 railways  
RT rail transport

**MONOSACCHARIDES**

1996-01-24  
\*BT1 saccharides  
NT1 erythritol  
NT1 hexoses  
NT2 fructose  
NT2 galactose  
NT2 glucose  
NT2 hexosamines  
NT3 glucosamine  
NT2 mannose  
NT2 sorbose  
NT1 inositols  
NT2 inositol  
NT1 pentoses  
NT2 arabinose  
NT2 deoxyribose  
NT2 ribose  
NT2 ribulose  
NT2 xylose  
NT1 sorbitol  
RT gluconic acid

**MONOTECTICS**

- RT eutectics
- RT phase diagrams

**MONOTECTOIDS**

- RT eutectoids
- RT phase diagrams

**monsanto system**

INIS: 2000-04-12; ETDE: 1976-01-23  
USE landgard pyrolysis system

**MONSOONS**

INIS: 1992-03-31; ETDE: 1986-07-08  
BT1 storms  
RT hurricanes  
RT rain

**MONTAGUE-1 REACTOR**

Northeast Nuclear Energy Co., Montague, Massachusetts, USA. Canceled in 1980 before construction began.  
\*BT1 bwr type reactors

**MONTAGUE-2 REACTOR**

Northeast Nuclear Energy Co., Montague, Massachusetts, USA. Canceled in 1980 before construction began.  
\*BT1 bwr type reactors

**MONTALTO DI CASTRO-1 REACTOR**

INIS: 1985-03-15; ETDE: 1985-04-09  
Latium, Italy. Construction cancelled in 1988.  
UF alto lazio-1 reactor  
UF enel-6 reactor  
\*BT1 bwr type reactors

**MONTALTO DI CASTRO-2 REACTOR**

INIS: 1985-03-15; ETDE: 1985-04-09  
Latium, Italy. Construction cancelled in 1988.  
UF alto lazio-2 reactor  
UF enel-8 reactor  
\*BT1 bwr type reactors

**montan waxes**

INIS: 2000-04-12; ETDE: 1977-06-24  
USE waxes

**MONTANA**

- \*BT1 usa
- NT1 powder river basin
- RT missouri river
- RT western us overthrust belt
- RT williston basin
- RT yellowstone national park

**MONTE AMIATA GEOTHERMAL FIELD**

2000-04-12  
BT1 geothermal fields  
RT italy

**MONTE CARLO METHOD**

- BT1 calculation methods
- NT1 quantum monte carlo method
- NT2 diffusion monte carlo method
- NT2 variational monte carlo method
- RT fault tree analysis
- RT neutron transport theory
- RT probability
- RT randomness
- RT stochastic processes
- RT transport theory

**montecuccolino rb-1 reactor**

USE rb-1 reactor

**montecuccolino rb-2 reactor**

USE rb-2 reactor

**montecuccolino rb-3 reactor**

USE rb-3 reactor

**MONTENEGRO**

2006-11-20  
SF serbia and montenegro  
SF yugoslavia  
BT1 developing countries

\*BT1 eastern europe

## MONTHLY VARIATIONS

INIS: 1979-09-18; ETDE: 1978-04-06

BT1 variations

## MONTICELLO REACTOR

Nuclear Management Co., LLC, Monticello, Minnesota, USA.

UF northern states monticello reactor

\*BT1 bwr type reactors

## MONTMORILLONITE

Clay minerals.

UF hectorite

\*BT1 clays

\*BT1 inorganic ion exchangers

RT bentonite

## montreal university slowpoke reactor

INIS: 1993-11-09; ETDE: 2002-03-28

USE slowpoke-montreal reactor

## MONTROSEITE

2000-04-12

\*BT1 uranium minerals

RT sandstones

## monts d'arree reactor

2010-08-17

USE el-4 reactor

## MOON

BT1 satellites

RT apollo project

RT lunar atmosphere

RT lunar materials

## MOORINGS

INIS: 2000-04-12; ETDE: 1976-08-04

RT deep water oil terminals

RT harbors

## MORAINES

BT1 geologic deposits

## morbidity

INIS: 2000-04-12; ETDE: 1981-07-06

USE disease incidence

## MORDENITE

1993-03-10

A zeolite mineral.

\*BT1 zeolites

## MORGANTOWN ENERGY TECHNOLOGY CENTER

INIS: 1993-06-07; ETDE: 1980-09-05

\*BT1 us doe

## MORIN

BT1 dyes

\*BT1 flavones

\*BT1 polyphenols

BT1 reagents

## MOROCCAN ORGANIZATIONS

2004-03-31

BT1 national organizations

## MOROCCO

BT1 africa

BT1 arab countries

BT1 developing countries

## MORPHINE

1999-01-25

\*BT1 alkaloids

\*BT1 opium

NT1 thebaine

RT codeine

RT heroin

RT papaver somniferum

## MORPHOGENESIS

INIS: 1996-04-30; ETDE: 1996-05-03

RT morphology

RT ontogenesis

RT organs

RT shape

## MORPHOLINES

\*BT1 amines

\*BT1 ethers

\*BT1 heterocyclic compounds

\*BT1 organic nitrogen compounds

## MORPHOLOGICAL CHANGES

NT1 ultrastructural changes

RT animal tissues

RT biological effects

RT microscopy

RT morphology

RT plant breeding

## MORPHOLOGY

INIS: 1996-04-30; ETDE: 1978-01-23

Study of structure or form.

RT configuration

RT crystal structure

RT morphogenesis

RT morphological changes

RT shape

RT structural models

## morris plant

INIS: 2000-04-12; ETDE: 1978-09-13

USE midwest fuel recovery plant

## MORRISON RULE

An empirical rule for pomeron exchange.

RT exchange interactions

RT parity

RT particle interactions

RT pomeranchuk particles

RT spin

## MORSE POTENTIAL

BT1 potentials

RT interatomic forces

## MORSLEBEN SALT MINE

INIS: 1992-02-04; ETDE: 1991-11-25

\*BT1 radioactive waste facilities

RT intermediate-level radioactive wastes

RT low-level radioactive wastes

RT salt caverns

RT salt deposits

RT underground disposal

## MORTALITY

RT death

RT lethal irradiation

RT life span

RT supralethal irradiation

RT survival curves

RT time dependence

## MORTARS

RT building materials

RT cements

RT concretes

RT grouting

## MOS SOLAR CELLS

INIS: 1992-05-29; ETDE: 1981-07-18

UF metal oxide-semiconductor solar cells

\*BT1 solar cells

## MOS TRANSISTORS

Metal Oxide Silicon transistors.

\*BT1 transistors

NT1 mosfet

## MOSAICISM

NT1 chimeras

NT2 radiation chimeras

NT1 parabiosis

RT genetic effects

RT mutations

## MOSCOVIUM

2017-04-11

Prior to March 2017 ELEMENT 115 was used for this element.

UF eka-bismuth

UF ununpentium

\*BT1 transactinide elements

## MOSCOVIUM 287

2017-04-11

Prior to March 2017 ELEMENT 115 287 was used for this concept.

UF element 115 287

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 moscovium isotopes

\*BT1 odd-even nuclei

## MOSCOVIUM 288

2017-04-11

Prior to March 2017 ELEMENT 115 288 was used for this concept.

UF element 115 288

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 moscovium isotopes

\*BT1 odd-even nuclei

## MOSCOVIUM IONS

2018-01-24

\*BT1 ions

## MOSCOVIUM ISOTOPES

2017-04-11

Prior to March 2017 ELEMENT 115 ISOTOPES was used for this concept.

UF element 115 isotopes

BT1 isotopes

NT1 moscovium 287

NT1 moscovium 288

## moscow irt-2000 reactor

INIS: 1984-07-20; ETDE: 2002-03-28

USE irt-2000 moscow reactor

## moscow research reactor

2000-04-12

USE mr reactor

## moscow wwr-s reactor

INIS: 1984-06-21; ETDE: 2002-03-28

USE wwr-s-moscow reactor

## MOSFET

Metal Oxide Semiconductor Field Effect Transistors.

(Metal Oxide Silicon Field Effect Transistors)

\*BT1 field effect transistors

\*BT1 mos transistors

RT cmos circuits

## MOSHINSKY TRANSFORMATION

2000-04-12

Coefficients for transforming wave functions between laboratory and center-of-mass systems on the basis of the harmonic oscillator.

\*BT1 orthogonal transformations

\*BT1 quantum operators

## MOSQUITOES

UF aedes

UF anopheles

\*BT1 diptera

RT malaria

RT zika virus

## MOSSES

1986-03-04

\*BT1 bryophyta

## motels

INIS: 2000-04-12; ETDE: 1979-12-17

USE hotels

## MOTHS

\*BT1 lepidoptera

NT1 bollworm

NT1 codling moth

NT1 lymantria dispar

NT1 rice stem borers

NT1 silkworm

## MOTION

NT1 ground motion

NT1 proper motion

NT1 rotation

RT angular momentum

RT brownian movement

RT guiding-center approximation

RT kinetic energy

RT kinetics

RT linear momentum

RT trajectories

RT velocity

## MOTION DETECTION SYSTEMS

INIS: 1999-01-25; ETDE: 1979-07-24

BT1 alarm systems

RT detection

RT intrusion detection systems

RT nuclear materials diversion

RT physical protection devices

RT safeguards

RT security

## motor inns

INIS: 2000-04-12; ETDE: 1979-12-17

USE hotels

## MOTOR VEHICLE ACCIDENTS

BT1 accidents

RT road transport

RT vehicles

## MOTOR VEHICLE OPERATORS

INIS: 1993-02-09; ETDE: 1980-03-04

BT1 personnel

RT automobiles

RT occupants

RT operation

RT vehicles

## motor vehicles

ETDE: 2002-03-28

USE vehicles

## MOTORBOATS

INIS: 2000-04-12; ETDE: 1982-06-07

RT recreational vehicles

RT ships

## MOTORCYCLES

INIS: 2000-04-12; ETDE: 1977-06-21

BT1 vehicles

## MOTORS

1999-07-06

BT1 engines

NT1 electric motors

NT2 superconducting motors

NT1 pneumatic motors

## MOTT SCATTERING

\*BT1 elastic scattering

## mottelson-nilsson model

USE nilsson-mottelson model

## moulting

INIS: 1981-07-06; ETDE: 1981-08-04

USE molting

## MOUND LABORATORY

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT ohio

## MOUNTAINS

1996-06-26

(Prior to June 1996 CARRIZO MOUNTAINS was a valid ETDE descriptor.)

UF carrizo mountains

NT1 alps

NT1 andes

NT1 appalachian mountains

NT2 adirondack mountains

NT1 appennines

NT1 cascade mountains

NT2 mt baker

NT2 mt hood

NT2 mt st helens

NT1 colorado plateau

NT1 himalayay

NT1 jemez mountains

NT1 rocky mountains

NT1 san bernardino mountains

NT1 sierra nevada colorado

NT1 urals

NT1 witwatersrand

NT1 yucca mountain

RT canyons

RT complex terrain

RT ice caps

RT orogenesis

RT valleys

## mouth

USE oral cavity

## MOVING-BOUNDARY CONDITIONS

BT1 boundary conditions

## MOVING-BURDEN PROCESS

2000-04-12

A three-vessel fluidized bed process for the gasification of coal.

\*BT1 coal gasification

## MOVING COIL MAGNETOMETERS

\*BT1 magnetometers

## MOZAMBIQUE

BT1 africa

BT1 developing countries

## mp tandem accelerator

INIS: 1976-06-23; ETDE: 2002-03-28

USE crnl mp tandem accelerator

## mp35n

INIS: 2000-04-12; ETDE: 1979-01-30

USE alloy-mp35n

## mpbb

USE maximum permissible body burden

## mpc

USE maximum permissible concentration

## mpd

USE maximum permissible dose

## mpe

USE maximum permissible exposure

## MPG

INIS: 1981-12-23; ETDE: 1982-02-09

UF 2-mercaptopropionylglycine

\*BT1 amino acids

\*BT1 radioprotective substances

\*BT1 thiols

## mpi

USE maximum permissible intake

## mpl

USE maximum permissible level

## mr-2 moscow reactor

USE rpt reactor

## MR REACTOR

2000-04-12

UF moscow research reactor

\*BT1 research reactors

## mrg process

INIS: 2000-04-12; ETDE: 1976-01-23

USE sng processes

## MRR REACTOR

Association of Universities Inc., Upton, New York, USA.

UF brookhaven medical research reactor

UF medical research reactor, bnl

UF us aec mrr

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

## MS JUNCTIONS

2016-04-19

BT1 semiconductor junctions

RT ms solar cells

## MS SOLAR CELLS

INIS: 1992-05-29; ETDE: 1981-07-18

UF metal-semiconductor solar cells

\*BT1 solar cells

RT ms junctions

## msgtr

2017-07-18

USE multiple steam generator tube rupture

## mslb

2017-07-18

USE steam line break accidents

## msmr reactor

Missouri School of Mines, Rolla.

USE umr reactor

## MSRE REACTOR

ORNL, Oak Ridge, Tennessee, USA.

UF molten salt reactor experiment

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 graphite moderated reactors

\*BT1 molten salt cooled reactors

\*BT1 power reactors

\*BT1 thermal reactors

## MSSTF

INIS: 2000-04-12; ETDE: 1980-11-08

Mid-temperature Solar System Test Facility at Sandia Laboratories which includes the subsystem test facility and the collector module test facility.

UF collector module test facility

UF midtemperature solar system test facility

UF subsystem test facility

BT1 test facilities

RT distributed collector power plants

RT sttfua

**MST DEVICE**

1994-03-15

*Madison Symmetric Torus at the University of Wisconsin at Madison, Wisconsin, USA.*\*BT1 reversed-field pinch devices  
RT reverse-field pinch**MSU CYCLOTRONS***Includes 56 MeV proton cyclotron and heavy ion K500 and K800 superconducting cyclotrons.*UF michigan state university cyclotrons  
\*BT1 isochronous cyclotrons**MT-1 TOKAMAK**

INIS: 1989-11-24; ETDE: 1989-12-08

*Hungarian Academy of Sciences, Budapest, Hungary.*

\*BT1 tokamak devices

**MT BAKER**

INIS: 1992-06-12; ETDE: 1976-08-24

\*BT1 cascade mountains  
RT washington**MT HOOD**

INIS: 2000-04-12; ETDE: 1982-09-10

\*BT1 cascade mountains  
\*BT1 oregon**MT ST HELENS**

INIS: 1992-06-12; ETDE: 1981-08-04

\*BT1 cascade mountains  
RT volcanoes  
RT washington**mta atommagkutato intezete**

INIS: 1986-04-03; ETDE: 2002-03-28

USE atomki

**MTHF**

2000-04-04

UF methyltetrahydrofuran

\*BT1 tetrahydrofuran

**MTO MODEL**

2013-04-29

*Model in which a system is regarded as a whole, including the human-related, technical, and organizational elements of the system.*UF man-technology-organization model  
RT human factors  
RT institutional factors  
RT man-machine systems  
RT risk assessment**MTR REACTOR***INEEL, Idaho Falls, Idaho, USA. Shut down in 1970.*UF idaho materials testing reactor  
UF materials testing reactor idaho  
UF us aec materials testing reactor-idaho\*BT1 enriched uranium reactors  
\*BT1 materials testing reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors**mtse devices**

2000-04-12

*(Prior to June 1991 this was a valid ETDE descriptor.)*

USE magnetic mirrors

**MTX TOKAMAK**

1993-08-09

*Microwave Tokamak eXperiment, Lawrence Livermore Laboratory, USA.*

\*BT1 tokamak devices

**mu sr**

INIS: 1988-02-02; ETDE: 1986-11-20

USE muon spin relaxation

**MUCOPOLYSACCHARIDES**\*BT1 amines  
\*BT1 polysaccharides  
NT1 chitin  
NT1 chondroitin  
NT1 heparin  
NT1 hyaluronic acid  
RT glycoproteins**MUCOPROTEINS**\*BT1 polysaccharides  
\*BT1 proteins  
NT1 haptoglobins  
NT1 intrinsic factor  
NT1 phytohemagglutinin  
RT chondroitin  
RT glycoproteins  
RT lysozyme**mucosa**

USE mucous membranes

**MUCOUS MEMBRANES**UF mucosa  
BT1 membranes  
NT1 conjunctiva  
RT epithelium**MUEHLEBERG REACTOR***Muehleberg, Bern, Switzerland.*

UF akm muehleberg reactor

UF akm reactor

UF atomkraftwerk muehleberg

\*BT1 bwr type reactors

**MUELHEIM-KAERLICH REACTOR**

ETDE: 1975-09-11

*Muehlheimkaerlich, Rheinlandpfalz, Federal Republic of Germany. Permanent shutdown since 1988.*

\*BT1 pwr type reactors

**muenster event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**muf**

USE material unaccounted for

**MUFFIN-TIN POTENTIAL**BT1 potentials  
RT electronic structure  
RT wave functions**mulberry alloy**

1997-01-28

*(Until October 1996 this was a valid descriptor.)*

USE alloy-u90nb7zr3

**mule deer**

USE deer

**mullers**

INIS: 2000-04-12; ETDE: 1976-09-14

*Equipment used for agitating, grinding, and mixing.**(Prior to April 1994, this was a valid ETDE descriptor.)*

SEE grinding machines

SEE mixers

**MULLITE**\*BT1 inorganic ion exchangers  
\*BT1 oxide minerals**MULTI-CENTER SHELL MODEL**

INIS: 1981-11-27; ETDE: 1982-01-07

UF multicenter shell model

\*BT1 shell models

**MULTI-CHANNEL ANALYZERS**

UF multichannel analyzers

\*BT1 pulse analyzers

**multi-charged ions**

INIS: 1984-07-20; ETDE: 2002-03-28

USE multicharged ions

**MULTI-CUSP ION SOURCES**

2018-02-26

\*BT1 plasma ion sources

**MULTI-ELEMENT ANALYSIS**

1996-01-15

*For analysis of two or more elements or isotopes of different elements.*

UF multielement analysis

BT1 chemical analysis

**MULTI-ELEMENT SEPARATION***For mutual separation of 2 or more elements or isotopes of different elements.*

UF multielement separation

BT1 separation processes

**multi-level analysis**

INIS: 1984-07-20; ETDE: 2002-03-28

USE multilevel analysis

**MULTI-NUCLEON TRANSFER REACTIONS***More than one nucleon transferred.*

UF multinucleon transfer reactions

\*BT1 transfer reactions

NT1 four-nucleon transfer reactions

NT2 alpha-transfer reactions

NT1 many-nucleon transfer reactions

NT1 three-nucleon transfer reactions

NT1 two-nucleon transfer reactions

**MULTI-PARAMETER ANALYSIS**

UF multiparameter analysis

RT data processing

RT parametric analysis

**multi-particle spectrometers**

INIS: 1984-07-20; ETDE: 2002-03-28

USE multiparticle spectrometers

**MULTI-PHOTON PROCESSES**

INIS: 1983-03-15; ETDE: 1981-11-10

UF multiphoton processes

RT energy-level transitions

RT lasers

RT photon emission

**multi-purpose detector**

2018-04-20

USE nica mpd detector

**multi-wire ionization chambers**

INIS: 1984-07-20; ETDE: 2002-03-28

USE multiwire ionization chambers

**multi-wire proportional chambers**

INIS: 1993-11-09; ETDE: 2002-03-28

USE multiwire proportional chambers

**multicenter shell model**

INIS: 1984-07-20; ETDE: 2002-03-28

USE multi-center shell model

**multichannel analyzers**

INIS: 1984-07-20; ETDE: 2002-03-28

USE multi-channel analyzers

**MULTICHARGED IONS***With charge 3 and above.*

UF multi-charged ions

\*BT1 ions

RT heavy ions



*RT* light ions

**multielement analysis**  
*INIS: 1984-07-20; ETDE: 2002-03-28*  
*USE* multi-element analysis

**multielement separation**  
*INIS: 1984-07-20; ETDE: 2002-03-28*  
*USE* multi-element separation

**MULTIGROUP THEORY**  
*\*BT1* neutron transport theory  
*RT* group constants

**multilamellar lipid vesicles**  
*INIS: 2000-04-12; ETDE: 1979-07-18*  
*USE* liposomes

**MULTILATERAL AGREEMENTS**  
*\*BT1* international agreements  
*NT1* bcoclmnm  
*NT1* bcolons  
*NT1* bcstpc  
*NT1* canare  
*NT1* cenna  
*NT1* cppnm  
*NT1* cscnd  
*NT1* international convention on nuclear safety  
*NT1* kyoto protocol  
*NT1* lcpmpdpw  
*NT1* paris agreement  
*NT1* pcotpl  
*NT1* rio declaration  
*NT1* solas convention  
*NT1* unfccc  
*NT1* vcoclnd

**multilateral consultation mechanism, oecd**  
*INIS: 1978-08-14; ETDE: 2002-03-28*  
*Multilateral Consultation and surveillance Mechanism for Sea Dumping of Radioactive Waste.*  
*USE* oecd memsdrw

**MULTILEVEL ANALYSIS**  
*UF* multi-level analysis  
*RT* breit-wigner formula  
*RT* cross sections  
*RT* r matrix  
*RT* resonance

**multinational companies**  
*INIS: 2000-06-27; ETDE: 1978-04-05*  
*USE* multinational enterprises

**MULTINATIONAL ENTERPRISES**  
*INIS: 2000-06-27; ETDE: 1978-04-05*  
*UF* multinational companies  
*UF* multinational ownership  
*RT* international cooperation

**multinational ownership**  
*INIS: 2000-06-27; ETDE: 1977-12-22*  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
*USE* multinational enterprises  
*USE* ownership

**multinucleon transfer reactions**  
*INIS: 1993-11-09; ETDE: 2002-03-28*  
*USE* multi-nucleon transfer reactions

**multiparameter analysis**  
*INIS: 1984-07-20; ETDE: 2002-03-28*  
*USE* multi-parameter analysis

**MULTIPARTICLE SPECTROMETERS**  
*UF* multi-particle spectrometers  
*\*BT1* spectrometers

**MULTIPERIPHERAL MODEL**  
*UF* diffractive dissociation  
*\*BT1* peripheral models  
*NT1* cluster emission model  
*NT2* space-time model  
*RT* abfst equation

**MULTIPHASE FLOW**  
*INIS: 1981-08-06; ETDE: 1976-03-11*  
*Simultaneous flow of more than two fluid phases in the same flow channel or pipe.*  
*BT1* fluid flow  
*RT* gas flow  
*RT* liquid flow

**multiphoton processes**  
*INIS: 1984-07-20; ETDE: 2002-03-28*  
*USE* multi-photon processes

**MULTIPLE COLLISION METHOD**  
*BT1* calculation methods  
*RT* multiple scattering

**MULTIPLE-HEARTH FURNACES**  
*INIS: 2000-04-12; ETDE: 1981-12-14*  
*BT1* furnaces

**MULTIPLE PRODUCTION**  
*BT1* particle production  
*NT1* pionization  
*RT* centauro-type events  
*RT* charge distribution  
*RT* cluster emission model  
*RT* coherent tube model  
*RT* correlated-particle models  
*RT* limiting fragmentation  
*RT* multiplicity  
*RT* particle decay  
*RT* particle interactions

**MULTIPLE SCATTERING**  
*BT1* scattering  
*RT* faddeev equations  
*RT* glauber theory  
*RT* many-body problem  
*RT* moliere theory  
*RT* multiple collision method

**MULTIPLE STEAM GENERATOR TUBE RUPTURE**  
*2017-07-18*  
*UF* msgtr  
*\*BT1* reactor accidents  
*RT* steam generators

**MULTIPLETS**  
*NT1* particle multiplets  
*NT2* baryon decuplets  
*NT2* baryon octets  
*NT2* meson nonets  
*NT2* meson octets  
*NT1* supermultiplets  
*NT1* triplets

**MULTIPLEXERS**  
*\*BT1* electronic equipment  
*RT* data transmission  
*RT* remote multiplexing systems

**MULTIPLICATION FACTORS**  
*BT1* dimensionless numbers  
*RT* criticality  
*RT* disadvantage factor  
*RT* fast fission factor  
*RT* fission neutrons  
*RT* resonance escape probability  
*RT* thermal fission factor  
*RT* thermal utilization

**MULTIPLICITY**  
*RT* eigenvalues  
*RT* multiple production

*RT* quantum numbers

**multiplier tubes**  
*USE* electron multipliers

**MULTIPOLAR CONFIGURATIONS**  
*\*BT1* closed configurations  
*NT1* hexapolar configurations  
*NT1* octupolar configurations  
*NT1* quadrupolar configurations  
*RT* fm devices  
*RT* internal ring devices  
*RT* lm devices

**MULTIPOLARITY**  
*RT* mixing ratio  
*RT* multipole radiation  
*RT* multipoles

**MULTIPOLE RADIATION**  
*UF* octupole radiation  
*\*BT1* electromagnetic radiation  
*RT* multipolarity  
*RT* multipoles

**MULTIPOLE TRANSITIONS**  
*INIS: 1978-02-23; ETDE: 1978-04-28*  
*BT1* energy-level transitions  
*NT1* e0-transitions  
*NT1* e1-transitions  
*NT1* e2-transitions  
*NT1* e3-transitions  
*NT1* e4-transitions  
*NT1* m1-transitions  
*NT1* m2-transitions  
*NT1* m3-transitions  
*NT1* m4-transitions

**MULTIPOLES**  
*NT1* dipoles  
*NT2* electric dipoles  
*NT2* magnetic dipoles  
*NT1* hexadecapoles  
*NT1* hexapoles  
*NT1* octupoles  
*NT1* quadrupoles  
*RT* mixing ratio  
*RT* monopoles  
*RT* multipolarity  
*RT* multipole radiation  
*RT* sternheimer formula

**multiprocessing**  
*INIS: 2000-04-12; ETDE: 1986-06-12*  
*USE* parallel processing

**multiprocessors**  
*INIS: 2000-04-12; ETDE: 1985-08-08*  
*USE* array processors

**multipurpose applied physics lattice reactor**  
*INIS: 1993-11-09; ETDE: 2002-03-28*  
*USE* maple type reactors

**multipurpose vhtr reactor**  
*INIS: 1978-01-16; ETDE: 2002-03-28*  
*USE* vhtr reactor

**MULTISPECTRAL PHOTOGRAPHY**  
*INIS: 1992-09-16; ETDE: 1980-04-14*  
*UF* thematic mapping  
*BT1* photography  
*RT* remote sensing  
*RT* spectroscopy

**MULTISPECTRAL SCANNERS**  
*INIS: 1998-10-13; ETDE: 1980-04-14*  
*Instruments for the simultaneous scanning of more than one, usually several, spectral bands of various wavelengths.*  
*BT1* measuring instruments

*RT* spectra  
*RT* spectroscopy

**multisphere neutron detectors**

USE bonner sphere detectors

**multistory buildings**

2005-07-05

USE high-rise buildings

**MULTIVARIATE ANALYSIS**

*INIS*: 1992-03-30; *ETDE*: 1981-04-17

\*BT1 statistics  
*RT* correlations

**MULTIVIBRATORS**

*UF* schmitt trigger circuits  
 \*BT1 pulse circuits  
 NT1 flip-flop circuits  
*RT* pulse generators

**multiwire drift chambers**

USE drift chambers

**MULTIWIRE IONIZATION CHAMBERS**

*UF* multi-wire ionization chambers  
 \*BT1 ionization chambers

**MULTIWIRE PROPORTIONAL CHAMBERS**

*UF* charpak chambers  
*UF* multi-wire proportional chambers  
*UF* mwpc  
 \*BT1 proportional counters  
 NT1 drift chambers  
 NT2 time projection chambers  
*RT* ionization chambers  
*RT* projection spark chambers  
*RT* wire spark chambers

**mungbean plants**

*INIS*: 1992-05-07; *ETDE*: 1993-01-20

USE vigna

**MUNGBEANS**

*INIS*: 1981-08-06; *ETDE*: 1981-09-22

\*BT1 beans  
 BT1 seeds  
*RT* phaseolus  
*RT* vigna

**MUNICH COMPACT CYCLOTRON**

*INIS*: 1983-06-01; *ETDE*: 1991-03-19

(Prior to March 1991, this concept in ETDE was indexed to MUNICH CYCLOTRON.)

*UF* munich cyclotron  
 \*BT1 isochronous cyclotrons

**munich cyclotron**

*INIS*: 2000-04-12; *ETDE*: 1983-03-24

(Prior to March 1991 this was a valid ETDE descriptor.)

USE munich compact cyclotron

**munich research reactor**

USE frm reactor

**munich superconducting sector cyclotron**

*INIS*: 1993-11-09; *ETDE*: 1984-08-20

USE munich suse cyclotron

**MUNICH SUSE CYCLOTRON**

*INIS*: 1984-07-20; *ETDE*: 1984-08-20

*UF* munich superconducting sector cyclotron  
*UF* suse cyclotron (munich)  
 \*BT1 heavy ion accelerators  
 \*BT1 isochronous cyclotrons

**municipal buildings**

*INIS*: 2000-04-12; *ETDE*: 1981-01-09

USE public buildings

**municipal law**

*INIS*: 1990-12-15; *ETDE*: 2002-03-28  
 (Prior to December 1990, this was a valid descriptor.)

USE laws

**municipal sludge**

*INIS*: 1977-11-21; *ETDE*: 2002-03-28

USE sewage sludge

**MUNICIPAL WASTES**

*INIS*: 1985-07-18; *ETDE*: 1975-11-11  
 Wastes generated in households, commercial and business establishments, schools, hospitals, etc. It excludes industrial and biological wastes, abandoned automobiles, ashes, street sweepings, construction and demolition debris, and sewage sludge. See also INDUSTRIAL WASTES, BIOLOGICAL WASTES, ASHES, and SEWAGE SLUDGE. (Prior to August 1985 DOMESTIC WASTES was a valid descriptor.)

*UF* domestic wastes  
 BT1 wastes  
*RT* chemical wastes  
*RT* pollutants  
*RT* refuse derived fuels  
*RT* scrap  
*RT* solid wastes

**municipal wastes (biological)**

*INIS*: 1985-07-18; *ETDE*: 2002-03-28

USE biological wastes

**municipal wastes (industrial)**

*INIS*: 1985-07-18; *ETDE*: 2002-03-28

USE industrial wastes

**munitions**

*INIS*: 2000-04-12; *ETDE*: 1975-08-19  
 (Prior to March 1997 ORDNANCE was used for this concept in ETDE.)  
 USE military equipment

**MUNTZ METAL**

2000-04-12

\*BT1 copper base alloys  
 \*BT1 zinc alloys  
*RT* brass

**MUON ANTINEUTRINOS**

\*BT1 antineutrinos  
 \*BT1 muon neutrinos

**MUON-ATOM COLLISIONS**

*INIS*: 1986-01-21; *ETDE*: 1986-03-04

\*BT1 atom collisions

**MUON BEAMS**

\*BT1 lepton beams  
*RT* muon probes

**MUON-CATALYZED FUSION**

*INIS*: 1985-04-22; *ETDE*: 1985-05-07

\*BT1 thermonuclear reactions  
*RT* deuterium tritide  
*RT* muonic molecules  
*RT* muons minus

**MUON DETECTION**

\*BT1 charged particle detection  
*RT* cosmic ray detection  
*RT* dumand project

**muon-deuteron interactions**

(Prior to March 1996 this was a valid ETDE descriptor.)

USE muon-neutron interactions

USE muon-proton interactions

**MUON-MESON INTERACTIONS**

(From December 1977 until March 1996 MUON-PION INTERACTIONS was a valid ETDE descriptor.)

*UF* muon-pion interactions  
 \*BT1 lepton-meson interactions

**MUON-MUON INTERACTIONS**

\*BT1 lepton-lepton interactions

**MUON NEUTRINOS**

*UF* neutrettos  
 \*BT1 neutrinos  
 NT1 muon antineutrinos

**MUON-NEUTRON INTERACTIONS**

(From February 1975 until March 1996 MUON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

*UF* muon-deuteron interactions  
 \*BT1 muon-nucleon interactions

**MUON-NUCLEON INTERACTIONS**

\*BT1 lepton-nucleon interactions  
 NT1 muon-neutron interactions  
 NT1 muon-proton interactions

**MUON NUMBER**

*INIS*: 1978-02-23; *ETDE*: 1978-04-28

BT1 lepton number  
*RT* muons

**MUON PAIRS**

*INIS*: 1975-09-16; *ETDE*: 1975-10-28

*RT* muons minus  
*RT* muons plus  
*RT* pair production

**muon-pion interactions**

*INIS*: 2000-04-12; *ETDE*: 1977-12-22

(Prior to March 1996 this was a valid ETDE descriptor.)

USE muon-meson interactions  
 USE pions

**MUON PROBES**

*INIS*: 1975-08-22; *ETDE*: 1976-08-24

*Polarized positive muon beams used to investigate properties of condensed matter.*

BT1 probes  
*RT* muon beams  
*RT* muon spin relaxation  
*RT* muonium  
*RT* muons plus

**MUON-PROTON INTERACTIONS**

(From February 1975 until March 1996 MUON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

*UF* muon-deuteron interactions  
 \*BT1 muon-nucleon interactions

**MUON REACTIONS**

\*BT1 charged-particle reactions  
 \*BT1 lepton reactions

**MUON SPIN RELAXATION**

*INIS*: 1988-02-02; *ETDE*: 1986-11-20

*A means of studying the magnetic properties of a material by stopping polarized muons in the material and measuring the muon spin dynamics there.*

*UF* mu sr  
*UF* muon spin resonance  
*UF* muon spin rotation  
 BT1 relaxation  
*RT* crystal lattices  
*RT* magnetic properties  
*RT* magnetic resonance  
*RT* muon probes  
*RT* spin orientation

**muon spin resonance**

INIS: 1988-02-02; ETDE: 1986-11-20

USE muon spin relaxation

**muon spin rotation**

INIS: 1988-02-02; ETDE: 1986-11-20

USE muon spin relaxation

**MUONIC ATOMS**

1999-03-18

BT1 atoms  
 RT mesic atoms  
 RT muonic ions  
 RT muonic molecules  
 RT muons minus  
 RT pi-mu atoms

**MUONIC IONS**

INIS: 1978-01-13; ETDE: 1978-03-03

\*BT1 ions  
 RT muonic atoms  
 RT muonic molecules

**MUONIC MOLECULES**

\*BT1 mesic molecules  
 RT muon-catalyzed fusion  
 RT muonic atoms  
 RT muonic ions  
 RT muons minus  
 RT muons plus

**MUONIUM**

RT atoms  
 RT charmonium  
 RT electrons  
 RT kaonium  
 RT muon probes  
 RT muons plus  
 RT pionium  
 RT positronium  
 RT protonium

**MUONS**

\*BT1 leptons  
 NT1 cosmic muons  
 NT1 muons minus  
 NT1 muons plus  
 RT electron-muon-tau universality  
 RT electron-muon universality  
 RT heavy neutral muons  
 RT muon number  
 RT pi-mu atoms

**muons, heavy neutral**

INIS: 2000-04-12; ETDE: 1979-08-09

USE heavy neutral muons

**MUONS MINUS**

\*BT1 muons  
 RT muon-catalyzed fusion  
 RT muon pairs  
 RT muonic atoms  
 RT muonic molecules

**MUONS PLUS**

UF antimuons  
 \*BT1 antileptons  
 \*BT1 muons  
 RT muon pairs  
 RT muon probes  
 RT muonic molecules  
 RT muonium

**MURA SYNCHROTRON**

UF mark v synchrotron

\*BT1 synchrotrons

**murexide**

1996-07-18

Also known as purpuric acid.

(Until July 1996 this was a valid descriptor.)

USE dyes

USE organic oxygen compounds

USE pyrimidines

**MURR REACTOR**

Univ. of Missouri, Columbia, Missouri, USA.

UF columbia missouri research reactor

UF missouri university/columbia

research reactor

UF university of missouri/columbia

research reactor

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 training reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**musashi institute of technology triga reactor**

1993-11-09

USE triga-2-musashi reactor

**MUSCLES**

UF muscular tissue

NT1 diaphragm

NT1 myoblasts

NT1 myocardium

RT actin

RT exercise

RT limbs

RT myoglobin

RT myosarcomas

RT radiation syndrome

RT sarcoplasmic reticulum

RT tendons

RT tongue

RT trichinosis

RT tropomyosin

**MUSCOVITE**

A mineral of the mica group.

\*BT1 mica

**musculamine**

USE spermine

**muscular tissue**

(Prior to April 1996 TISSUES was used instead of ANIMAL TISSUES.)

USE animal tissues

USE muscles

**museum objects**

INIS: 1984-04-04; ETDE: 2002-03-28

USE cultural objects

**museums**

INIS: 1983-06-30; ETDE: 1979-07-24

USE educational facilities

**MUSHROOMS**

\*BT1 fungi

**MUSSELS**

INIS: 1992-03-10; ETDE: 1981-06-17

\*BT1 molluscs

**mustard**

USE brassica

**mustard (nitrogen)**

USE nitrogen mustard

**MUTAGEN SCREENING**

INIS: 1992-03-10; ETDE: 1978-11-14

UF ames test

UF screening (mutagen)

RT biological indicators

RT carcinogen screening

RT cell cultures

RT mutagenesis

RT mutagens

RT mutants

RT mutations

RT teratogen screening

RT testing

**MUTAGENESIS**

RT dna adducts

RT doxorubicin

RT genetic control

RT genotype

RT mutagen screening

RT mutagens

RT mutants

RT mutations

**mutagenic pathways**

INIS: 1978-11-24; ETDE: 1978-12-20

USE biological pathways

**MUTAGENS**

For both chemical and physical agents.

UF chemical mutagens

NT1 ethyl methanesulfonate

NT1 methyl methanesulfonate

NT1 methyl nitrosourea

NT1 proflavine

RT antibiotics

RT antimetabolic drugs

RT carcinogens

RT dna adducts

RT drugs

RT environmental exposure

RT ionizing radiations

RT mutagen screening

RT mutagenesis

RT neocarzinostatin

RT nitrogen mustard

RT nitrosamines

RT occupational exposure

RT pesticides

RT plant breeding

RT polycyclic aromatic hydrocarbons

RT radiation equivalence

RT radiomimetic drugs

RT teratogens

RT tumor promoters

RT viruses

**MUTANTS**

NT1 radiation induced mutants

NT1 revertants

RT adventitious bud technique

RT disease resistance

RT hereditary diseases

RT mutagen screening

RT mutagenesis

RT mutations

RT plant breeding

**MUTATION FREQUENCY**

UF aberration yield

RT mutations

**mutation induction pathways**

INIS: 1978-11-24; ETDE: 1978-12-20

USE biological pathways

**MUTATIONS**

NT1 chromosomal aberrations

NT2 chromosome breakage

NT2 sister chromatid exchanges

NT1 dominant mutations

NT1 gene mutations

NT1 genome mutations

NT1 lethal mutations

NT1 recessive mutations

NT1 somatic mutations

NT1 spontaneous mutations

RT adventitious bud technique

RT congenital malformations

RT dna base transitions

RT dna mismatch  
 RT genetic control  
 RT genetic effects  
 RT hereditary diseases  
 RT meiosis  
 RT mosaicism  
 RT mutagen screening  
 RT mutagenesis  
 RT mutants  
 RT mutation frequency  
 RT plant breeding  
 RT pyrimidine dimers  
 RT reproduction  
 RT revertants

**mutsu (nuclear ship)**

USE ns mutsu

**MUTSU REACTOR**

JAERI, Mutsu, Aomori, Japan.  
 UF japan ship reactor mutsu  
 UF nuclear ship mutsu reactor  
 UF ship reactor mutsu  
 \*BT1 pwr type reactors  
 \*BT1 ship propulsion reactors  
 RT ns mutsu

**mutualism**

INIS: 1984-12-04; ETDE: 1980-01-15  
 USE symbiosis

**MWD SYSTEMS**

INIS: 1992-08-13; ETDE: 1978-12-11  
*Sensors and data transmission equipment for real-time measurements while drilling.*  
 UF downhole information systems  
 UF logging while drilling  
 UF measurement while drilling  
 SF signalog  
 BT1 real time systems  
 RT drilling  
 RT offshore drilling  
 RT on-line systems  
 RT telemetry  
 RT well drilling  
 RT well logging  
 RT well logging equipment

**mwpc**

USE multiwire proportional chambers

**mx devices**

INIS: 2000-04-12; ETDE: 1977-10-20  
 USE mftf devices

**MYANMAR**

1999-01-26  
 (Until January 1999 this concept was indexed by BURMA.)  
 UF burma  
 BT1 asia  
 BT1 developing countries

**MYCELIUM**

BT1 plant tissues  
 RT fungi

**MYCOBACTERIUM**

\*BT1 bacteria  
 NT1 mycobacterium tuberculosis  
 RT leprosy

**MYCOBACTERIUM TUBERCULOSIS**

\*BT1 mycobacterium  
 RT tuberculosis

**MYCOPLASMA**

BT1 microorganisms  
 NT1 acholeplasma laidlawii b  
 RT bacteria

**MYCORRHIZAS**

INIS: 1999-10-21; ETDE: 1977-06-02  
*A symbiotic association of fungi and the roots of plants.*

BT1 symbiosis  
 RT frankia  
 RT fungi  
 RT locust trees

**MYCOSES**

\*BT1 fungal diseases  
 RT fungi

**MYCOTOXINS**

INIS: 1992-09-09; ETDE: 1994-08-10  
 \*BT1 toxins  
 NT1 aflatoxins  
 RT fungi  
 RT toxicity

**MYELIN**

\*BT1 cell membranes  
 \*BT1 lipoproteins  
 RT cholesterol  
 RT nerve cells  
 RT nerves

**MYELITIS**

\*BT1 nervous system diseases  
 NT1 poliomyelitis  
 RT spinal cord

**MYELOID LEUKEMIA**

\*BT1 leukemia  
 RT philadelphia chromosome  
 RT polycythemia

**MYLAR**

\*BT1 plastics  
 \*BT1 polyethylene terephthalate  
 RT glycols

**MYLERAN**

UF busulfan  
 BT1 alkylating agents

**MYOBLASTS**

BT1 muscles  
 RT myocardium

**MYOCARDIAL INFARCTION**

\*BT1 cardiovascular diseases  
 RT blood circulation  
 RT coronaries  
 RT ischemia  
 RT myocardium

**MYOCARDIUM**

\*BT1 heart  
 BT1 muscles  
 RT coronaries  
 RT myoblasts  
 RT myocardial infarction

**MYOGLOBIN**

\*BT1 globins  
 BT1 pigments  
 \*BT1 porphyrins  
 RT muscles

**myometrium**

USE uterus

**MYOSARCOMAS**

\*BT1 sarcomas  
 NT1 rhabdomyosarcomas  
 RT muscles

**MYOSIN**

\*BT1 globulins  
 RT tropomyosin

**myristic acid**

USE tetradecanoic acid

**MYRRHA FACILITY**

2016-07-11  
*Planned Multipurpose Hybrid Research Reactor for High Tech Applications; nuclear reactor coupled to a proton accelerator, critical or sub-critical configuration possible.*  
 Mol, Belgium.  
 UF myrrha reactor  
 \*BT1 accelerator-driven subcritical systems  
 \*BT1 fast reactors  
 \*BT1 lead-bismuth cooled reactors  
 \*BT1 research reactors

**myrrha reactor**

2016-07-11  
 USE myrrha facility

**myxedema**

USE hypothyroidism

**MYXOMYCETES**

UF slime fungi  
 \*BT1 fungi

**MZFR REACTOR**

*Forschungszentrum Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany. Permanent shutdown since 1986.*  
 UF mehrzweck-forschungsreaktor  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 \*BT1 power reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**n,n-ethylenebis(2-(o-hydroxyphenyl)glycine)**

INIS: 2000-04-12; ETDE: 1976-06-07  
 USE eddha

**n-1150 resonances**

INIS: 1988-03-08; ETDE: 2002-04-19  
 (Prior to December 1987 this was a valid descriptor.)  
 SEE n\*baryons

**N-1440 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11  
 (Prior to December 1987 this concept was indexed by N-1470RESONANCES.)  
 UF n-1470 resonances  
 UF roper resonance  
 \*BT1 n baryons

**n-1470 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE n-1440 baryons

**N-1520 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11  
 (Prior to December 1987 this concept was indexed by N-1520RESONANCES.)  
 UF n-1520 resonances  
 \*BT1 n baryons

**n-1520 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE n-1520 baryons

**N-1535 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11  
 (Prior to December 1987 this concept was indexed by N-1535RESONANCES.)  
 UF n-1535 resonances  
 \*BT1 n baryons

**n-1535 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1535 baryons

**N-1650 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

\*BT1 n baryons

**N-1675 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

\*BT1 n baryons

**N-1680 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

(Prior to December 1987 this concept was indexed by N-1680RESONANCES.)

UF n-1680 resonances

UF n-1688 resonances

\*BT1 n baryons

**n-1680 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1680 baryons

**n-1688 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1680 baryons

**N-1700 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

(Prior to December 1987 this concept was indexed by N-1700RESONANCES.)

UF n-1700 resonances

\*BT1 n baryons

**n-1700 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1700 baryons

**N-1710 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

\*BT1 n baryons

**N-1720 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

\*BT1 n baryons

**n-1780 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

SEE n\*baryons

**n-1860 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

SEE n\*baryons

**N-1960 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**N-1990 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

(Prior to December 1987 this concept was indexed by N-1990RESONANCES.)

UF n-1990 resonances

\*BT1 n baryons

**n-1990 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1990 baryons

**N-2000 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**n-2040 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

SEE n\*baryons

**N-2080 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**N-2100 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**N-2190 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

(Prior to December 1987 this concept was indexed by N-2190RESONANCES.)

UF n-2190 resonances

\*BT1 n baryons

**n-2190 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-2190 baryons

**N-2250 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**N-3000 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

(Prior to December 1987 this concept was indexed by N-3030RESONANCES.)

UF n-3030 resonances

\*BT1 n baryons

**n-3030 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-3000 baryons

**N BARYONS**

INIS: 1995-07-17; ETDE: 1988-03-11

\*BT1 n\*baryons

NT1 n-1440 baryons

NT1 n-1520 baryons

NT1 n-1535 baryons

NT1 n-1650 baryons

NT1 n-1675 baryons

NT1 n-1680 baryons

NT1 n-1700 baryons

NT1 n-1710 baryons

NT1 n-1720 baryons

NT1 n-1960 baryons

NT1 n-1990 baryons

NT1 n-2000 baryons

NT1 n-2080 baryons

NT1 n-2100 baryons

NT1 n-2190 baryons

NT1 n-2250 baryons

NT1 n-3000 baryons

**N CODES**

BT1 computer codes

**N-D METHOD**

BT1 calculation methods

RT dispersion relations

RT partial waves

**n-ethyl maleimide**

INIS: 1976-05-07; ETDE: 1976-08-24

USE nem

**n-o-iodobenzoylaminoacetate**

INIS: 1975-10-23; ETDE: 2002-04-16

USE hippuran

**N-REACTOR**

US DOE, Hanford Reservation, Richland, Washington, USA. Shut down in 1988; being cocooned.

UF npr reactor

UF power-plutonium production reactor richland

UF richland npr reactor

UF richland power-plutonium production reactor

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 plutonium production reactors

\*BT1 power reactors

RT wnp-1 reactor

**N SHELL**

INIS: 1979-11-02; ETDE: 1978-10-23

Atomic electron shells.

UF atomic shells (n)

BT1 electronic structure

**N-TYPE CONDUCTORS**

\*BT1 semiconductor materials

RT p-n junctions

**N\*BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by N\*RESONANCES.)

UF delta resonances (baryon)

UF isobars (nucleon)

UF n\*resonances

UF nucleon isobars

SF delta-1877 resonances

SF n-1150 resonances

SF n-1780 resonances

SF n-1860 resonances

SF n-2040 resonances

\*BT1 baryons

NT1 delta baryons

NT2 delta-1232 baryons

NT2 delta-1600 baryons

NT2 delta-1620 baryons

NT2 delta-1700 baryons

NT2 delta-1900 baryons

NT2 delta-1905 baryons

NT2 delta-1910 baryons

NT2 delta-1920 baryons

NT2 delta-1930 baryons

NT2 delta-1950 baryons

NT2 delta-2000 baryons

NT2 delta-2150 baryons

NT2 delta-2200 baryons

NT2 delta-2400 baryons

NT2 delta-2420 baryons

NT2 delta-3000 baryons

NT1 n baryons

NT2 n-1440 baryons

NT2 n-1520 baryons

NT2 n-1535 baryons

NT2 n-1650 baryons

NT2 n-1675 baryons

NT2 n-1680 baryons

NT2 n-1700 baryons

NT2 n-1710 baryons

NT2 n-1720 baryons

NT2 n-1960 baryons

NT2 n-1990 baryons

NT2 n-2000 baryons

NT2 n-2080 baryons

NT2 n-2100 baryons

NT2 n-2190 baryons

NT2 n-2250 baryons

NT2 n-3000 baryons

RT fractional-parentage coefficients

**n\*resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n\*baryons

**naa**

2002-11-25

USE neutron activation analysis

**NABARLEK DEPOSIT**

INIS: 1978-07-03; ETDE: 1978-08-07

\*BT1 uranium deposits

RT northern territory

RT uranium ores

**NAC CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-07-07

*Separated-sector cyclotron of the National Accelerator Centre, Faure, Republic of South Africa.*

UF faure cyclotron

UF nacssc

UF national accelerator center (south africa) cyclotron

UF south africa nac cyclotron

\*BT1 heavy ion accelerators

\*BT1 isochronous cyclotrons

**nacssc**

INIS: 1984-04-04; ETDE: 1983-03-24

*Separated-sector cyclotron of the National Accelerator Centre, Faure, Republic of South Africa.*

USE nac cyclotron

**NAD***Nicotinamide-Adenine Dinucleotide.*

UF coenzyme i

UF nicotinamide-adenine dinucleotide

BT1 coenzymes

\*BT1 nucleotides

RT nicotinamide

RT pyridines

**NADH2**

UF diphosphodihydropyridine nucleotide

UF reduced nicotinamide-adenine dinucleotide

BT1 coenzymes

\*BT1 nucleotides

RT nicotinamide

**NADP***Nicotinamide-Adenine Dinucleotide Phosphate.*

UF coenzyme ii

UF nicotinamide-adenine dinucleotide phosphate

BT1 coenzymes

\*BT1 nucleotides

RT nicotinamide

**NAEGITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 thorium minerals

\*BT1 uranium minerals

RT thorium oxides

RT uranium oxides

RT zirconium oxides

**NAGASAKI**

\*BT1 japan

RT a-bomb survivors

RT nuclear explosions

RT nuclear weapons

**NAHCOLITE**

2000-04-12

*White monoclinic mineral consisting of natural sodium bicarbonate.*

\*BT1 carbonate minerals

RT integrated in-situ process

RT sodium carbonates

**NAI DETECTORS**

INIS: 1979-09-18; ETDE: 1979-02-05

UF sodium iodide detectors

\*BT1 solid scintillation detectors

**NAILS**

\*BT1 skin

RT fingers

**nak**

INIS: 1986-03-04; ETDE: 2002-04-16

USE potassium alloys

USE sodium alloys

**NAK COOLED REACTORS**

1986-03-04

(Prior to March 1986 this concept was indexed by coordination of POTASSIUM COOLED REACTORS and SODIUM COOLED REACTORS.)

\*BT1 liquid metal cooled reactors

NT1 ebr-1 reactor

NT1 s10fs-1 reactor

NT1 s10fs-3 reactor

NT1 s10fs-4 reactor

NT1 s2ds reactor

NT1 s8dr reactor

NT1 s8er reactor

NT1 ser reactor

NT1 snaptran reactors

RT potassium cooled reactors

RT sodium cooled reactors

**nal synchrotron**

INIS: 1990-12-07; ETDE: 1975-11-12

(Prior to December 1990, this was a valid descriptor.)

USE fermilab accelerator

**NAMAFJALL GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields

RT iceland

**NAMIBIA**

INIS: 1992-04-24; ETDE: 1984-06-29

*Until July 1984 this country was known as South West Africa and older material is so indexed.*

UF south west africa

UF southwest africa

BT1 africa

RT south africa

**NANO AMP BEAM CURRENTS**

INIS: 1976-02-11; ETDE: 1975-10-28

*From 10 exp -9 to 10 exp -6 amp.*

\*BT1 beam currents

**NANO GY RANGE**

2012-05-30

\*BT1 absorbed dose range

**NANO SV PER HOUR RANGE**

2013-01-23

BT1 radiation dose rate ranges

**NANOCHEMISTRY**

2014-10-28

BT1 chemistry

RT nanotechnology

**NANOCOMPOSITES**

2014-10-28

\*BT1 nanomaterials

**nanoelectromechanical systems**

2014-08-26

USE nems

**NANO ELECTRONICS**

2014-08-20

RT electronic circuits

RT nanotechnology

RT nems

**NANOFIBERS**

2014-10-28

BT1 nanostructures

**NANOFLUIDICS**

2014-10-28

*Study of the dynamics of fluids confined to structures of dimensions in the nanometer range.*

\*BT1 fluid mechanics

RT nanotechnology

**NANOFLUIDS**

2014-10-28

*Fluids containing nanometer-sized particles.*

BT1 fluids

\*BT1 suspensions

RT nanoparticles

RT nanotechnology

**NANOMATERIALS**

2014-10-28

*Materials containing particles where, for most of the particles, one or more external dimensions are in the size range 1 nm - 100 nm.*

(See also NANOSTRUCTURES.)

BT1 materials

NT1 nanocomposites

RT dendrimers

RT metamaterials

RT nanoparticles

**NANOPARTICLES**

2014-08-20

*Particles with an aerodynamic diameter from 1 to 100 nm.*

BT1 particles

RT nanofluids

RT nanomaterials

**NANOSECONDS LIVING RADIOISOTOPES**

1980-11-07

(From 10 exp -9 to 10 exp -6 sec; prior to June 2003 NANOSEC LIVING RADIOISOTOPES was used for this concept.)

\*BT1 radioisotopes

NT1 actinium 217

NT1 aluminium 40

NT1 antimony 113

NT1 antimony 117

NT1 argon 30

NT1 astatine 213

NT1 astatine 214

NT1 barium 138

NT1 bismuth 211

NT1 bromine 83

NT1 calcium 34

NT1 carbon 21

NT1 chlorine 29

NT1 chlorine 30

NT1 chromium 65

NT1 chromium 66

NT1 cobalt 49

NT1 fermium 256

NT1 fluorine 18

**NT1** fluorine 28  
**NT1** fluorine 30  
**NT1** fluorine 31  
**NT1** francium 211  
**NT1** francium 212  
**NT1** francium 213  
**NT1** francium 215  
**NT1** francium 216  
**NT1** gadolinium 136  
**NT1** gadolinium 147  
**NT1** gadolinium 148  
**NT1** germanium 86  
**NT1** germanium 88  
**NT1** germanium 89  
**NT1** krypton 86  
**NT1** krypton 97  
**NT1** lead 194  
**NT1** lead 200  
**NT1** magnesium 37  
**NT1** magnesium 39  
**NT1** manganese 45  
**NT1** molybdenum 92  
**NT1** molybdenum 94  
**NT1** neon 33  
**NT1** neptunium 237  
**NT1** osmium 182  
**NT1** oxygen 25  
**NT1** oxygen 26  
**NT1** oxygen 27  
**NT1** phosphorus 25  
**NT1** plutonium 237  
**NT1** polonium 210  
**NT1** polonium 212  
**NT1** potassium 40  
**NT1** protactinium 219  
**NT1** protactinium 220  
**NT1** radium 216  
**NT1** radon 210  
**NT1** radon 211  
**NT1** radon 214  
**NT1** rhodium 90  
**NT1** rhodium 91  
**NT1** rubidium 85  
**NT1** scandium 38  
**NT1** selenium 64  
**NT1** sodium 22  
**NT1** tellurium 105  
**NT1** thorium 218  
**NT1** titanium 58  
**NT1** titanium 59  
**NT1** vanadium 61  
**NT1** vanadium 62  
**NT1** vanadium 63  
**NT1** zirconium 109  
*RT* half-life  
*RT* lifetime

## NANOSTRUCTURES

*INIS: 2003-03-18; ETDE: 2003-11-03*

*Components, devices, or structures in the nanometer size range, where quantum effects are often seen. Coordinate with other descriptors as appropriate.*

(From March to October 2003

NANOSTRUCTURE was used for this concept.)

**NT1** nanofibers  
**NT1** nanotubes  
**NT2** carbon nanotubes  
**NT1** nanowires  
**NT1** quantum dots  
**NT1** quantum wells  
**NT1** quantum wires  
*RT* electronic structure  
*RT* electrons  
*RT* microstructure  
*RT* nanotechnology  
*RT* semiconductor materials  
*RT* solids

## NANOTECHNOLOGY

*2003-11-03*

*RT* nanochemistry  
*RT* nanoelectronics  
*RT* nanofluidics  
*RT* nanofluids  
*RT* nanostructures

## NANOTUBES

*2003-11-03*

**BT1** nanostructures  
**NT1** carbon nanotubes

## NANOWIRES

*2014-10-28*

**BT1** nanostructures

## NAP-M STORAGE RING

*INIS: 1975-08-22; ETDE: 1975-10-01*

**BT1** storage rings

## napap

*INIS: 2000-04-12; ETDE: 1984-12-10*

(Prior to October 1991, this was a valid ETDE descriptor.)

USE us napap

## NAPHTHA

*2000-04-12*

*Fraction of coal tar oil distilling in range 160-220C; petroleum distilling in range 175-204C.*

**BT1** distillates  
**NT1** ligroin  
*RT* petroleum products

## NAPHTHALENE

**\*BT1** polycyclic aromatic hydrocarbons  
*RT* acenaphthene  
*RT* decalin  
*RT* tetralin

## naphthalic acid

USE phthalic acid

## naphthenes

*INIS: 2000-04-12; ETDE: 1977-03-08*

USE hydroaromatics

## NAPHTHOLS

*1996-10-22*

*UF* acid chrome dyes  
*UF* beryllon  
*UF* dsnadns  
*UF* hydroxynaphthalenes  
*UF* naphthols-alpha  
*UF* naphthols-beta  
**\*BT1** phenols

**NT1** 1-nitroso-2-naphthol  
**NT1** nitroso-r salt  
**NT1** pyridylazonaphthol  
**NT1** thorin  
**NT1** trypan blue

## naphthols-alpha

USE naphthols

## naphthols-beta

USE naphthols

## NAPHTHYL RADICALS

**\*BT1** aryl radicals

## NARCOTICS

*1996-07-08*

*UF* opiates  
**\*BT1** central nervous system depressants  
**NT1** heroin  
**NT1** methadone hydrochloride  
**NT1** opium  
**NT2** morphine  
**NT3** thebaine  
**NT1** pethidine

*RT* analgesics  
*RT* anesthetics  
*RT* enkephalins  
*RT* hypnotics and sedatives

## NARORA-1 REACTOR

*Narora, Uttar Pradesh, India.*

**\*BT1** natural uranium reactors  
**\*BT1** phwr type reactors  
**\*BT1** power reactors

## NARORA-2 REACTOR

*Narora, Uttar Pradesh, India.*

**\*BT1** natural uranium reactors  
**\*BT1** phwr type reactors  
**\*BT1** power reactors

## NASA

*UF* national aeronautics and space administration

**\*BT1** us organizations

## nasa (argentina)

*2009-03-30*

USE argentine nasa

## nasa-test reactor

*Plum Brook Reactor Facility.*

USE pbr reactor

## nasa-tr reactor

*Plum Brook Reactor Facility.*

USE pbr reactor

## nasopharynx

USE pharynx

## national accelerator center (south africa) cyclotron

*INIS: 1993-11-09; ETDE: 2002-04-16*

USE nac cyclotron

## national accelerator laboratory

*2000-04-12*

USE fermilab accelerator

## national acid precipitation assessment program

*INIS: 2000-04-12; ETDE: 1984-12-10*

USE us napap

## national aeronautics and space administration

*1993-11-09*

USE nasa

## national bureau of standards

*INIS: 1979-02-21; ETDE: 1978-04-06*

USE us nbs

## national bureau of standards reactor

*1993-11-09*

USE nbsr reactor

## national center of systems reliability

*INIS: 1993-11-09; ETDE: 2002-04-16*

*National Centre of Systems Reliability.*

USE ncsr

## NATIONAL COAL MODEL

*INIS: 2000-04-12; ETDE: 1980-08-12*

**BT1** energy models

*RT* coal

## NATIONAL CONTROL

**\*BT1** atomic energy control  
*RT* reactor commissioning  
*RT* reactor decommissioning  
*RT* reactor dismantling

**national council on radiation protection/measurements (us)**

USE us ncrp

**NATIONAL DEFENSE**

UF defense  
 SF defense production act  
 NT1 ballistic missile defense  
 NT1 civil defense  
 RT military assistance  
 RT military facilities  
 RT missile silos  
 RT nuclear weapons  
 RT space weapons  
 RT warfare

**national electric reliability councils**

INIS: 2000-04-12; ETDE: 1979-09-27

USE electric reliability councils

**NATIONAL ENERGY ACTS**

INIS: 1994-08-22; ETDE: 1993-08-10

(Prior to February 1992 this was a valid ETDE descriptor. From February 1992 to August 1993 this concept in ETDE was indexed to US NATIONAL ENERGY ACT.)

UF us national energy act  
 BT1 laws  
 NT1 us energy tax act  
 NT1 us national energy conservation policy act  
 NT1 us natural gas policy act  
 NT1 us power plant and industrial fuel use act  
 NT1 us public utility regulatory policies act  
 RT national energy plans  
 RT us national energy plan  
 RT us national program plans

**NATIONAL ENERGY****CONSERVATION INCENTIVES ACT**

INIS: 2000-04-12; ETDE: 1979-11-23

BT1 laws  
 RT energy conservation  
 RT financial incentives

**national energy conservation policy act**

INIS: 2000-04-12; ETDE: 1981-05-18

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us national energy conservation policy act

**NATIONAL ENERGY PLANS**

INIS: 1992-08-27; ETDE: 1992-09-11

\*BT1 energy policy  
 NT1 us national energy plan  
 RT energy conservation  
 RT national energy acts

**national energy security corporation**

INIS: 2000-04-12; ETDE: 1980-07-23

USE synthetic fuels corporation

**national enterprises**

INIS: 2000-04-12; ETDE: 1979-07-24

USE public enterprises

**national environmental policy act**

2000-04-12

(Prior to January 1992 this was a valid ETDE descriptor.)

USE us national environmental policy act

**NATIONAL GOVERNMENT**

INIS: 1980-11-07; ETDE: 1978-03-09

Use only when needed to make a distinction with the terms local government and/or state government.

UF federal expenditures  
 UF federal government  
 RT centrally planned economies  
 RT government policies  
 RT institutional sector  
 RT legislation  
 RT local government  
 RT national organizations  
 RT public officials  
 RT regulations  
 RT state government  
 RT us federal assistance programs

**national ignition facility**

INIS: 2000-04-12; ETDE: 1997-05-21

Facility for inertial confinement fusion.

USE us national ignition facility

**national institute for occupational safety and health**

INIS: 2000-04-12; ETDE: 1980-03-29

USE us niosh

**national institute for petroleum and energy research**

INIS: 1993-11-09; ETDE: 1984-06-29

USE us niper

**national institute of radiological science cyclotron**

INIS: 1993-11-09; ETDE: 1980-01-24

USE nirs cyclotron

**national instituut voor kernfysica en hogeenergiefysica**

INIS: 1993-11-09; ETDE: 1977-10-19

USE nikhef

**national oceanic and atmospheric administration**

INIS: 2000-04-12; ETDE: 1980-01-24

USE us noaa

**NATIONAL ORGANIZATIONS**

NT1 afghan organizations  
 NT1 albanian organizations  
 NT1 algerian organizations  
 NT1 argentine organizations  
 NT2 argentine arm  
 NT2 argentine cnea  
 NT2 argentine invap  
 NT2 argentine nasa  
 NT1 armenian organizations  
 NT1 australian organizations  
 NT2 ansto  
 NT2 arpansa  
 NT1 austrian organizations  
 NT2 seibersdorf research centre  
 NT1 bangladesh organizations  
 NT1 belgian organizations  
 NT1 brazilian organizations  
 NT2 brazilian cnen  
 NT2 brazilian lnls  
 NT2 nuclebras  
 NT1 bulgarian organizations  
 NT1 canadian organizations  
 NT2 atomic energy of canada ltd  
 NT3 chalk river nuclear labs  
 NT3 wnre  
 NT2 canadian aecb  
 NT1 chilean organizations  
 NT1 chinese organizations  
 NT2 chinese nnsa  
 NT2 ciae

NT1 colombian organizations  
 NT2 ian  
 NT1 croatian organizations  
 NT1 cuban organizations  
 NT1 czech organizations  
 NT2 sujb  
 NT2 uvjv  
 NT2 uvvvr  
 NT1 danish organizations  
 NT2 danish atomic energy commission  
 NT2 risoe national laboratory  
 NT3 risoe research establishment  
 NT1 egyptian organizations  
 NT2 egyptian atomic energy commission  
 NT1 estonian organizations  
 NT1 finnish organizations  
 NT1 french organizations  
 NT2 areva nc  
 NT3 areva nc la hague  
 NT3 areva nc malvesi  
 NT3 areva nc marcoule  
 NT3 areva nc miramas  
 NT3 areva nc pierrelatte  
 NT2 cea  
 NT3 cea bruyeres-le-chatel  
 NT3 cea cadarache  
 NT3 cea fontenay-aux-roses  
 NT3 cea grenoble  
 NT3 cea la hague  
 NT3 cea marcoule  
 NT3 cea pierrelatte  
 NT3 cea saclay  
 NT2 electricite de france  
 NT1 german fr organizations  
 NT2 bundesamt fuer strahlenschutz  
 NT2 forschungszentrum juelich  
 NT2 forschungszentrum karlsruhe  
 NT2 gesellschaft fuer anlagen- und reaktorsicherheit  
 NT2 ipp garching  
 NT2 reaktorsicherheitskommission  
 NT2 strahlenschutzkommission  
 NT2 wak  
 NT2 zfi leipzig  
 NT2 zfk rossendorf  
 NT1 ghanaian organizations  
 NT1 greek organizations  
 NT1 hungarian organizations  
 NT2 atomki  
 NT1 indian organizations  
 NT2 barc  
 NT2 igcar  
 NT1 indonesian organizations  
 NT1 iranian organizations  
 NT2 iranian atomic energy organization  
 NT2 tehran nuclear research centre  
 NT1 iraqi organizations  
 NT2 iraqi atomic energy commission  
 NT3 iraqi nuclear research centre  
 NT1 israeli organizations  
 NT2 israel atomic energy commission  
 NT3 negev nuclear research center  
 NT3 soreq nuclear research center  
 NT1 italian organizations  
 NT2 cise  
 NT2 infn  
 NT2 italian enea  
 NT3 cnen  
 NT2 italian enel  
 NT1 japanese organizations  
 NT2 j-parc center  
 NT2 jaea  
 NT2 jaeri  
 NT2 jnc  
 NT2 jnes  
 NT2 jnsda  
 NT2 kek  
 NT2 pnc  
 NT1 jordanian organizations



- NT1** kazakhstan organizations  
**NT1** korean organizations  
**NT2** kaeri  
**NT1** latvian organizations  
**NT1** lebanese organizations  
**NT1** lithuanian organizations  
**NT1** macedonian organizations  
**NT1** malaysian organizations  
**NT2** mint  
**NT2** puspati  
**NT1** mexican organizations  
**NT1** moroccan organizations  
**NT1** netherlands organizations  
**NT2** ecn  
**NT3** rcn  
**NT2** iko  
**NT2** iri  
**NT2** kvi  
**NT2** nikhef  
**NT1** new zealand organizations  
**NT1** norwegian organizations  
**NT1** pakistani organizations  
**NT1** paraguay organizations  
**NT2** paraguay cnea  
**NT1** philippine organizations  
**NT2** philippine nuclear research institute  
**NT3** philippine atomic energy commission  
**NT3** philippine atomic research center  
**NT1** polish organizations  
**NT2** panstwowa agencja atomistyki  
**NT1** portuguese organizations  
**NT1** romanian organizations  
**NT1** russian organizations  
**NT2** gosatomnadzor rossii  
**NT2** nrc kurchatov institute  
**NT3** ihep  
**NT3** itep  
**NT3** st petersburg institute of nuclear physics  
**NT2** rosatom  
**NT1** slovak organizations  
**NT2** cyclotron center of the slovak republic  
**NT2** javys  
**NT2** ujd  
**NT2** vuje  
**NT1** slovenian organizations  
**NT1** south african organizations  
**NT1** spanish organizations  
**NT1** swedish organizations  
**NT1** swiss organizations  
**NT1** syrian organizations  
**NT1** thai organizations  
**NT1** tunisian organizations  
**NT1** turkish organizations  
**NT2** turkish atomic energy authority  
**NT1** ukrainian organizations  
**NT1** united kingdom organizations  
**NT2** bnfl  
**NT2** british coal  
**NT2** ncsr  
**NT2** nrpb  
**NT2** uk national physical laboratory  
**NT2** uk nii  
**NT2** ukaea  
**NT3** aere  
**NT3** culham laboratory  
**NT1** uruguayan organizations  
**NT1** us organizations  
**NT2** federal radiation council  
**NT2** nasa  
**NT2** national science foundation  
**NT2** naval research laboratory  
**NT2** orau  
**NT2** orins  
**NT2** synthetic fuels corporation  
**NT2** tennessee valley authority  
**NT2** us acda  
**NT2** us aec  
**NT3** ames laboratory  
**NT3** anl  
**NT3** bettis  
**NT3** bnl  
**NT3** feed materials production center  
**NT3** hapo  
**NT3** idaho chemical processing plant  
**NT3** kapl  
**NT3** lawrence berkeley laboratory  
**NT3** lawrence livermore laboratory  
**NT3** mound laboratory  
**NT3** ornl  
**NT3** paducah plant  
**NT3** rocky flats plant  
**NT3** sandia laboratories  
**NT3** savannah river plant  
**NT3** sequoyah uf6 production plant  
**NT3** y-12 plant  
**NT2** us ceq  
**NT2** us cia  
**NT2** us department of treasury  
**NT3** us irs  
**NT2** us doa  
**NT3** us forest service  
**NT3** us rea  
**NT2** us doc  
**NT3** us nbs  
**NT2** us dod  
**NT3** us corps of engineers  
**NT2** us doe  
**NT3** alaska power administration  
**NT3** ames laboratory  
**NT3** anl  
**NT3** atomics international canoga park plant  
**NT3** bartlesville energy technology center  
**NT3** battelle pacific northwest laboratories  
**NT3** bettis  
**NT3** bnl  
**NT3** bonneville power administration  
**NT3** economic regulatory administration  
**NT3** environmental measurements laboratory  
**NT3** feed materials production center  
**NT3** fermilab  
**NT3** hanford engineering development laboratory  
**NT3** hanford reservation  
**NT3** hapo  
**NT3** idaho chemical processing plant  
**NT3** idaho national laboratory  
**NT3** inhalation toxicology research institute  
**NT3** kansas city plant  
**NT3** kapl  
**NT3** lanl  
**NT3** laramie energy research center  
**NT3** laramie energy technology center  
**NT3** lawrence berkeley laboratory  
**NT3** lawrence livermore national laboratory  
**NT4** lawrence livermore laboratory  
**NT3** morgantown energy technology center  
**NT3** mound laboratory  
**NT3** national renewable energy laboratory  
**NT3** nevada test site  
**NT3** oak ridge reservation  
**NT3** orgdp  
**NT3** ornl  
**NT3** paducah plant  
**NT3** pantex plant  
**NT3** pinellas plant  
**NT3** pittsburgh energy technology center  
**NT3** portsmouth centrifuge enrichment plant  
**NT3** portsmouth gaseous diffusion plant  
**NT3** rocky flats plant  
**NT3** sandia national laboratories  
**NT4** sandia laboratories  
**NT3** savannah river plant  
**NT3** sequoyah uf6 production plant  
**NT3** southeastern power administration  
**NT3** southwestern power administration  
**NT3** stanford linear accelerator center  
**NT3** us doe field offices  
**NT3** us doe inspector general  
**NT3** us energy extension service  
**NT3** us energy information administration  
**NT3** us ferc  
**NT3** us msha  
**NT3** us niper  
**NT3** usur  
**NT3** western area power administration  
**NT3** wipp  
**NT3** y-12 plant  
**NT2** us doi  
**NT3** us bureau of mines  
**NT3** us bureau of reclamation  
**NT3** us fws  
**NT3** us gs  
**NT3** us osm  
**NT2** us doj  
**NT3** federal bureau of investigation  
**NT2** us dol  
**NT3** us osha  
**NT2** us dos  
**NT2** us dot  
**NT3** us coast guard  
**NT3** us faa  
**NT2** us epa  
**NT2** us erda  
**NT3** ames laboratory  
**NT3** anl  
**NT3** atomics international canoga park plant  
**NT3** battelle columbus laboratory  
**NT3** battelle pacific northwest laboratories  
**NT3** bettis  
**NT3** bnl  
**NT3** feed materials production center  
**NT3** hanford reservation  
**NT3** hapo  
**NT3** idaho chemical processing plant  
**NT3** kansas city plant  
**NT3** kapl  
**NT3** laramie energy research center  
**NT3** lawrence berkeley laboratory  
**NT3** lawrence livermore laboratory  
**NT3** mound laboratory  
**NT3** oak ridge reservation  
**NT3** orgdp  
**NT3** ornl  
**NT3** paducah plant  
**NT3** pantex plant  
**NT3** pinellas plant  
**NT3** portsmouth gaseous diffusion plant  
**NT3** rocky flats plant  
**NT3** sandia laboratories  
**NT3** savannah river plant  
**NT3** sequoyah uf6 production plant  
**NT3** stanford linear accelerator center  
**NT3** y-12 plant  
**NT2** us fea  
**NT2** us federal power commission  
**NT2** us fema

**NT2** us gao  
**NT2** us gsa  
**NT2** us hew  
**NT3** us fda  
**NT2** us hud  
**NT2** us jcae  
**NT2** us national academy of science  
**NT2** us ncrp  
**NT2** us niosh  
**NT2** us noaa  
**NT2** us nrc  
**NT2** us nuclear data network  
**NT2** us ota  
**NT2** us postal service  
**NT2** us veterans administration  
**NT1** uzbek organizations  
**NT1** vietnamese organizations  
**RT** international organizations  
**RT** national government  
**RT** nuclear operators

### ***national program plans***

*INIS: 2000-04-12; ETDE: 1979-09-26*  
 (Prior to February 1992 this was a valid ETDE descriptor.)

USE us national program plans

### ***national radioactive waste repository in mochowce***

2002-12-17  
 USE mochowce radioactive waste repository

### ***national radiological protection board***

*INIS: 1993-11-09; ETDE: 1980-01-24*  
 USE nrpb

### ***national reactor testing station***

USE idaho national laboratory

### ***national reactor testing station burst facility***

1993-11-09  
 USE pbf reactor

### **NATIONAL RENEWABLE ENERGY LABORATORY**

*INIS: 1994-06-13; ETDE: 1994-04-29*  
 (Until June 1994 this was indexed by SOLAR ENERGY RESEARCH INSTITUTE.)

UF nrel  
 UF seri  
 UF solar energy research institute  
 \*BT1 us doe  
 RT solar energy

### **NATIONAL SCIENCE FOUNDATION**

\*BT1 us organizations

### **NATIONAL SECURITY**

*INIS: 1984-04-04; ETDE: 1979-12-10*  
**BT1** security  
**RT** ballistic missile defense  
**RT** classified information  
**RT** nuclear deterrence  
**RT** radiological dispersal devices  
**RT** security violations

### ***national synchrotron light source***

*INIS: 1979-09-18; ETDE: 1979-04-11*  
 USE nsls

### **NATIONALIZATION**

*INIS: 1986-03-04; ETDE: 1980-06-06*  
*Takeover by government, with or without compensation, of a public or private activity.*  
**RT** centrally planned economies  
**RT** economic policy  
**RT** government policies

### **NATO**

*INIS: 1987-06-29; ETDE: 1976-02-19*  
*North Atlantic Treaty Organization.*  
 UF north atlantic treaty organization  
**BT1** international organizations

### **NATROAUTUNITE**

2000-04-12  
 \*BT1 uranium minerals  
**RT** uranium phosphates

### ***natural activity***

USE natural radioactivity

### **NATURAL ANALOGUE**

*INIS: 1993-09-17; ETDE: 1993-11-08*  
 UF geologic natural analogue  
**RT** geologic formations  
**RT** geologic structures  
**RT** radioactive waste disposal  
**RT** radionuclide migration  
**RT** uranium deposits  
**RT** uranium mines

### **NATURAL ATTENUATION**

2005-07-06  
*Reduction in the amount of pollution or contamination by naturally occurring physical, chemical, and/or biological processes.*

**RT** chemical spills  
**RT** decontamination  
**RT** hazardous materials spills  
**RT** land pollution control  
**RT** land reclamation  
**RT** oil spills  
**RT** remedial action  
**RT** water pollution control

### **NATURAL BRIDGES NATIONAL MONUMENT**

*INIS: 2000-04-12; ETDE: 1981-09-08*  
**BT1** public lands  
**RT** photovoltaic power supplies  
**RT** utah

### ***natural circulation***

USE natural convection

### **NATURAL CONVECTION**

*Heat transfer by natural convection.*  
 UF free convection  
 UF natural circulation  
 UF natural draft cooling towers  
 UF natural ventilation  
 \*BT1 convection  
**RT** displacement ventilation  
**RT** grashof number  
**RT** rayleigh number  
**RT** thermosyphons

### ***natural depletion***

*INIS: 2000-04-12; ETDE: 1979-02-23*  
 USE primary recovery

### ***natural disaster (exceptional)***

*INIS: 1985-12-10; ETDE: 2002-01-30*  
 USE exceptional natural disaster

### **NATURAL DISASTERS**

*INIS: 1999-02-24; ETDE: 1996-03-28*  
*Occurrences such as large-scale drought, glacier movement, floods, fires, storms, etc.*  
 (From June 1978 until March 1996 DISASTERS was used for this concept in ETDE.)  
**SF** disasters  
**NT1** exceptional natural disaster  
**RT** explosions  
**RT** fires  
**RT** floods

**RT** rain  
**RT** snow  
**RT** storms  
**RT** tsunamis  
**RT** weather  
**RT** wind

### ***natural draft cooling towers***

2000-04-12  
 (Prior to March 1997 this was a valid ETDE descriptor.)

USE cooling towers  
 USE natural convection

### **NATURAL GAS**

\*BT1 fossil fuels  
 \*BT1 fuel gas  
**NT1** abiogenic gas  
**NT1** compressed natural gas  
**NT1** liquefied natural gas  
**RT** alaska gas pipeline  
**RT** arctic gas pipelines  
**RT** deregulation  
**RT** flaring  
**RT** gas heat pumps  
**RT** gas hydrates  
**RT** gas meters  
**RT** gas spills  
**RT** gasbuggy event  
**RT** lng plants  
**RT** master metering  
**RT** natural gas deposits  
**RT** natural gas distribution systems  
**RT** natural gas industry  
**RT** natural gas wells  
**RT** petrochemistry  
**RT** polar gas project  
**RT** primary recovery  
**RT** public utilities  
**RT** refinery gases  
**RT** rio blanco event  
**RT** storage facilities  
**RT** wasatch formation

### ***natural gas appliances***

*INIS: 2000-04-12; ETDE: 1977-06-21*  
 USE gas appliances

### **NATURAL GAS DEPOSITS**

*INIS: 1991-08-12; ETDE: 1975-09-30*  
**BT1** geologic deposits  
 \*BT1 mineral resources  
**NT1** natural gas fields  
**NT2** gas condensate fields  
**RT** acidization  
**RT** geologic traps  
**RT** geophysical surveys  
**RT** geopressured systems  
**RT** natural gas  
**RT** petroleum geology  
**RT** powder river basin  
**RT** reserves  
**RT** seeps  
**RT** wasatch formation  
**RT** well logging equipment  
**RT** western us overthrust belt

### **NATURAL GAS DISTRIBUTION SYSTEMS**

*INIS: 1992-02-19; ETDE: 1976-11-01*  
 UF natural gas gathering systems  
**SF** energy transport  
**SF** transport (energy)  
**BT1** energy systems  
**RT** ferc gas areas  
**RT** gas utilities  
**RT** natural gas  
**RT** pipelines

**NATURAL GAS FIELDS**

INIS: 1992-02-19; ETDE: 1976-03-11  
Surface boundaries of areas from which commercially valuable natural gas is obtained.

- UF gas fields
- \*BT1 natural gas deposits
- NT1 gas condensate fields
- RT field production equipment
- RT natural gas wells
- RT reservoir fluids
- RT reservoir rock
- RT well injection equipment
- RT well recovery equipment
- RT well spacing

**NATURAL GAS FUEL CELLS**

1992-05-20

- \*BT1 fuel cells

**natural gas gathering systems**

INIS: 1992-02-19; ETDE: 1977-01-28  
USE natural gas distribution systems

**NATURAL GAS HYDRATE DEPOSITS**

INIS: 2000-04-12; ETDE: 1983-01-21  
UF methane hydrate deposits

- BT1 geologic deposits
- RT arctic regions
- RT gas hydrates

**NATURAL GAS INDUSTRY**

INIS: 1991-12-17; ETDE: 1975-11-28

- BT1 industry
- NT1 lng industry
- RT ferc gas areas
- RT gas utilities
- RT natural gas
- RT natural gas processing plants
- RT us natural gas policy act

**NATURAL GAS LIQUIDS**

1992-04-14

Liquid hydrocarbon mixtures that are gaseous at reservoir temperatures and pressures, but are recoverable by condensation or absorption.

- UF natural gasoline
- UF ngl
- \*BT1 liquids
- NT1 gas condensates
- NT1 lease condensates
- NT1 liquefied petroleum gases
- NT1 plant condensates
- RT liquefied natural gas

**natural gas policy act**

INIS: 2000-04-12; ETDE: 1980-05-06  
(Prior to February 1992 this was a valid ETDE descriptor.)

- USE us natural gas policy act

**NATURAL GAS PROCESSING PLANTS**

INIS: 1992-04-13; ETDE: 1976-07-07  
UF natural gasoline plants

- BT1 industrial plants
- RT natural gas industry

**NATURAL GAS WELLS**

INIS: 1992-01-16; ETDE: 1975-10-01  
UF gas wells

- BT1 wells
- RT abandoned wells
- RT blowout preventers
- RT drill stem testing
- RT dry holes
- RT exploratory wells
- RT field production equipment
- RT gas condensate wells

- RT hydraulic equipment
- RT interstitial water
- RT natural gas
- RT natural gas fields
- RT perforation
- RT propping agents
- RT rod pumps
- RT sand consolidation
- RT water influx
- RT well completion
- RT well injection equipment
- RT well pressure
- RT well recovery equipment
- RT well servicing
- RT well stimulation
- RT wellhead prices
- RT wellheads

**natural gasoline**

INIS: 1992-04-14; ETDE: 1976-07-07  
USE natural gas liquids

**natural gasoline plants**

INIS: 1992-04-13; ETDE: 1976-07-07  
USE natural gas processing plants

**NATURAL KILLER CELLS**

INIS: 1992-01-28; ETDE: 1992-02-14  
UF nk cells

- \*BT1 leukocytes
- RT immunity
- RT lymphocytes

**natural language**

INIS: 2000-04-12; ETDE: 1985-09-24  
Human language as spoken. English, French, or German are examples of natural languages. Restricted to computer technology. (Prior to March 1997 this was a valid ETDE descriptor.)  
USE programming languages

**natural lighting**

INIS: 2000-04-12; ETDE: 1981-01-09  
USE daylighting

**natural mutations**

INIS: 1978-02-23; ETDE: 1978-05-01  
USE spontaneous mutations

**NATURAL NUCLEAR REACTORS**

INIS: 1979-01-18; ETDE: 1979-02-23

- NT1 oklo phenomenon
- RT chain reactions
- RT criticality
- RT reactors
- RT uranium ores

**NATURAL OCCURRENCE**

1985-07-18

- RT earth crust
- RT element abundance
- RT geochemistry
- RT isotope ratio
- RT ore composition
- RT radioisotopes

**NATURAL RADIOACTIVITY**

For unspecified naturally occurring radioisotopes only.

- UF natural activity
- BT1 radioactivity
- RT background radiation
- RT daughter products
- RT gamma logging
- RT polonium
- RT potassium 40
- RT radium
- RT radon
- RT thorium
- RT uranium

**natural reactor oklo**

INIS: 1976-01-28; ETDE: 2002-04-16  
USE oklo phenomenon

**NATURAL RUBBER**

1997-06-17

- UF rubber (natural)
- \*BT1 rubbers
- RT dielectric materials
- RT guayule
- RT latex
- RT rubber trees

**NATURAL STEAM**

1992-05-12

Geothermal steam containing incondensable gases such as carbon dioxide and hydrogen sulfide with minor amounts of other gases.

- UF geothermal steam
- \*BT1 geothermal fluids
- BT1 steam

**NATURAL UNITS**

Based on fundamental constants.

- BT1 units
- NT1 uniton
- RT fundamental constants

**NATURAL URANIUM**

- \*BT1 uranium

**NATURAL URANIUM REACTORS**

Reactors primarily fueled with natural uranium.

- BT1 reactors
- NT1 agesta reactor
- NT1 aquilon reactor
- NT1 atucha-1 reactor
- NT1 atucha-2 reactor
- NT1 bepo reactor
- NT1 bohunice a-1 reactor
- NT1 bohunice a-2 reactor
- NT1 br-1 reactor
- NT1 bruce-1 reactor
- NT1 bruce-2 reactor
- NT1 bruce-3 reactor
- NT1 bruce-4 reactor
- NT1 bruce-5 reactor
- NT1 bruce-6 reactor
- NT1 bruce-7 reactor
- NT1 bruce-8 reactor
- NT1 cernavoda-1 reactor
- NT1 cernavoda-2 reactor
- NT1 cesar reactor
- NT1 cirus reactor
- NT1 cordoba reactor
- NT1 cp-2 reactor
- NT1 cp-3 reactor
- NT1 darlington-1 reactor
- NT1 darlington-2 reactor
- NT1 darlington-3 reactor
- NT1 darlington-4 reactor
- NT1 dhruva reactor
- NT1 diorit reactor
- NT1 douglas point ontario reactor
- NT1 eco reactor
- NT1 el-1 reactor
- NT1 el-2 reactor
- NT1 essor reactor
- NT1 f-1 reactor
- NT1 fr-2 reactor
- NT1 gentilly-1 reactor
- NT1 gentilly-2 reactor
- NT1 gleep reactor
- NT1 hew-305 reactor
- NT1 hwzpr reactor
- NT1 jatp reactor
- NT1 jrr-3 reactor
- NT1 kaiga-1 reactor
- NT1 kaiga-2 reactor

**NT1** kakrapar-1 reactor  
**NT1** kakrapar-2 reactor  
**NT1** kalpakkam-1 reactor  
**NT1** kalpakkam-2 reactor  
**NT1** kanupp reactor  
**NT1** magnox type reactors  
**NT2** berkeley reactor  
**NT2** bradwell reactor  
**NT2** calder hall a-1 reactor  
**NT2** calder hall a-2 reactor  
**NT2** calder hall b-3 reactor  
**NT2** calder hall b-4 reactor  
**NT2** chapelcross-1 reactor  
**NT2** chapelcross-2 reactor  
**NT2** chapelcross-3 reactor  
**NT2** chapelcross-4 reactor  
**NT2** dungeness-a reactor  
**NT2** hinkley point-a reactor  
**NT2** hunterston-a reactor  
**NT2** latina reactor  
**NT2** oldbury-a reactor  
**NT2** sizewell-a reactor  
**NT2** tokai-mura reactor  
**NT2** trawsfynydd reactor  
**NT2** wylfa reactor  
**NT1** marius reactor  
**NT1** mzfr reactor  
**NT1** narora-1 reactor  
**NT1** narora-2 reactor  
**NT1** npd reactor  
**NT1** nru reactor  
**NT1** nrx reactor  
**NT1** pickering-1 reactor  
**NT1** pickering-2 reactor  
**NT1** pickering-3 reactor  
**NT1** pickering-4 reactor  
**NT1** pickering-5 reactor  
**NT1** pickering-6 reactor  
**NT1** pickering-7 reactor  
**NT1** pickering-8 reactor  
**NT1** point lepreau-1 reactor  
**NT1** point lepreau-2 reactor  
**NT1** pse reactor  
**NT1** r-1 reactor  
**NT1** r-b reactor  
**NT1** rajasthan-1 reactor  
**NT1** rajasthan-2 reactor  
**NT1** rajasthan-3 reactor  
**NT1** rajasthan-4 reactor  
**NT1** taiwan research reactor  
**NT1** windscale production reactors  
**NT1** wolsung-1 reactor  
**NT1** wolsung-2 reactor  
**NT1** wolsung-3 reactor  
**NT1** wolsung-4 reactor  
**NT1** x-10 reactor  
**NT1** zed-2 reactor  
**NT1** zeep reactor  
**NT1** zephyr reactor  
**RT** ebr-1 reactor  
**RT** eole reactor  
**RT** nora reactor  
**RT** pdp reactor

**natural uranium target**

*INIS: 1984-04-04; ETDE: 2002-04-16*  
 USE uranium 238 target

**natural ventilation**

2004-05-28  
 USE natural convection  
 USE ventilation

**nature conservation**

2004-08-26  
 USE environmental protection

**NATURE RESERVES**

*INIS: 1992-03-30; ETDE: 1978-08-07*  
 UF environmental parks

UF protected areas  
 UF wilderness areas  
 BT1 resources  
 RT biosphere  
 RT ecosystems  
 RT environment  
 RT land use  
 RT wilderness protection acts

**NAURU**

*INIS: 1987-03-24; ETDE: 1987-11-24*  
 \*BT1 micronesia  
 RT pacific ocean

**NAUSEA**

BT1 symptoms  
 RT digestive system diseases

**naval oil shale reserves**

*INIS: 2000-03-28; ETDE: 1983-03-23*  
 (Prior to February 1992 this was a valid ETDE descriptor.)  
 USE us naval oil shale reserves

**naval petroleum reserve**

*INIS: 2000-04-12; ETDE: 1979-10-03*  
 (Prior to February 1992 this was a valid ETDE descriptor.)  
 USE us naval petroleum reserves

**naval reactors**

*INIS: 2000-04-12; ETDE: 1980-04-14*  
 USE ship propulsion reactors

**NAVAL RESEARCH LABORATORY**

\*BT1 us organizations

**naval research laboratory cyclotron**

*INIS: 1984-06-21; ETDE: 2002-04-16*  
 USE nrl cyclotron

**naval research laboratory linac**

*INIS: 1984-06-21; ETDE: 2002-04-16*  
 USE nrl linac

**NAVIER-STOKES EQUATIONS**

1982-12-08  
 (The form NAVIER-STOKES EQUATION was used by ETDE prior to August 1980 and by INIS prior to January 1983.)

\*BT1 partial differential equations  
 RT equations of motion  
 RT fluid mechanics  
 RT incompressible flow  
 RT viscous flow

**NAVIGATION**

*INIS: 1992-04-01; ETDE: 1982-03-29*  
*Steering a course.*  
 RT aircraft  
 RT barges  
 RT ships  
 RT transport

**NAVIGATIONAL INSTRUMENTS**

RT aircraft  
 RT buoys  
 RT electronic guidance  
 RT global positioning system  
 RT inertial guidance  
 RT rockets  
 RT ships  
 RT space vehicles

**NBI CYCLOTRON**

*INIS: 1985-06-10; ETDE: 1985-07-19*  
 UF niels bohr institute cyclotron  
 \*BT1 cyclotrons

**nbs (us)**

*INIS: 1984-06-21; ETDE: 2002-04-16*  
 USE us nbs

**nbs synchrotron ultraviolet radiation facility**

*INIS: 1993-11-09; ETDE: 1984-08-20*  
 USE surf ii storage ring

**NBSR REACTOR**

*National Inst. of Standards and Technology, Washington, DC, USA.*  
 UF national bureau of standards reactor  
 UF us nbs reactor  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**ncrp (us)**

*INIS: 1984-06-21; ETDE: 2002-04-16*  
*US National Council on Radiation Protection and Measurements.*  
 USE us ncrp

**NCSCR-1 REACTOR**

*North Carolina State College, Raleigh, North Carolina, USA.*  
 UF north carolina state college research reactor-1  
 UF raleigh-ncsc research reactor-1  
 \*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**NCSR**

*INIS: 1975-11-11; ETDE: 1976-06-07*  
*National Centre of Systems Reliability.*  
 UF national center of systems reliability  
 \*BT1 united kingdom organizations  
 RT systems analysis

**ncuspr reactor**

USE pulstar-raleigh reactor

**nda remote experiment station**

USE prr reactor

**ndpp**

*ETDE: 2002-04-16*  
*P-nitro-3-dimethylaminopropiophenone-HCl.*  
 USE amines  
 USE aromatics  
 USE ketones  
 USE nitro compounds

**NEA**

1995-03-31  
*Nuclear Energy Agency of the OECD; until April 1972 known as European Nuclear Energy Agency.*  
 UF enea  
 UF european nuclear energy agency  
 UF nuclear energy agency  
 UF nuclear energy agency (oecd)  
 \*BT1 oecd

**NEAR INFRARED RADIATION**

Wavelength range 0.8-2.5 microns.  
 \*BT1 infrared radiation

**near-surface disposal**

2013-11-27  
 USE ground disposal

**NEAR ULTRAVIOLET RADIATION**

Wavelength range 4000-2000 A.  
 \*BT1 ultraviolet radiation

**NEBRASKA**

1997-06-17  
 \*BT1 usa

*RT* missouri river  
*RT* north platte river basin

**NEBULAE**

**NT1** crab nebula  
**NT1** planetary nebulae  
**NT1** solar nebula  
*RT* cosmic dust  
*RT* cosmic gases  
*RT* galaxies  
*RT* h2 regions  
*RT* herbig-haro objects

**NEC COMPUTERS**

*INIS: 1992-08-18; ETDE: 1984-10-24*  
*Computers manufactured by Nippon Electric Company Ltd.*  
**BT1** computers  
*RT* supercomputers

**NECK**

*1999-04-06*  
**BT1** body  
*RT* carotid arteries  
*RT* larynx  
*RT* parathyroid glands  
*RT* pharynx  
*RT* thyroid

**NECKAR-1 REACTOR**

*INIS: 1992-03-11; ETDE: 1992-06-22*  
*Permanent shutdown since 2011.*  
 (Until March 1992, this information was indexed by NECKAR REACTOR.)  
*UF gemeinschaftskernkraftwerk neckar*  
*UF gkn-1 reactor (neckar)*  
*UF neckar reactor*  
*SF gkn reactor (neckar)*  
 \***BT1** pwr type reactors

**NECKAR-2 REACTOR**

*1979-11-02*  
*UF gkn-2 reactor (neckar)*  
*SF gkn reactor (neckar)*  
 \***BT1** pwr type reactors

**neckar reactor**

*1992-05-28*  
 (Prior to June 1992, this was a valid ETDE descriptor.)  
 USE neckar-1 reactor

**NECROSIS**

**BT1** pathological changes  
**NT1** gangrene  
**NT1** osteoradionecrosis  
*RT* fistulae  
*RT* ischemia  
*RT* ulcers  
*RT* wounds

**NEEDLE CHAMBERS**

\***BT1** proportional counters

**neel point**

USE neel temperature

**NEEL TEMPERATURE**

*UF neel point*  
 \***BT1** transition temperature  
*RT* antiferromagnetism  
*RT* magnetic susceptibility

**NEGATIVE ENERGY STATES**

**BT1** energy levels

**negative ions**

USE anions

**NEGATIVE MASS**

**BT1** hypothesis  
**BT1** mass  
*RT* special relativity theory

**NEGATIVE MASS EFFECT**

*RT* beam dynamics  
*RT* negative mass instability  
*RT* plasma instability

**NEGATIVE MASS INSTABILITY**

\***BT1** plasma microinstabilities  
*RT* negative mass effect

**negatons**

USE electrons

**negatrons**

USE electrons

**NEGEV NUCLEAR RESEARCH CENTER**

*INIS: 1979-12-20; ETDE: 1979-11-23*  
 \***BT1** israel atomic energy commission

**NEGOTIATION**

*INIS: 1993-03-12; ETDE: 1987-07-09*  
*Action or process of conferring with others through conference, discussion, and compromise.*  
 (From March 1981 till March 1997 MEDIATION was a valid ETDE descriptor.)  
*SF mediation*  
*RT* agreements  
*RT* treaties

**NELKIN THEORY**

**BT1** transport theory

**NELSON RIVER**

*INIS: 2000-04-12; ETDE: 1975-10-28*  
 \***BT1** rivers  
*RT* canada

**NEM**

*INIS: 1976-05-07; ETDE: 1976-08-24*  
*N-ethyl maleimide.*  
*UF n-ethyl maleimide*  
 \***BT1** antimitotic drugs  
 \***BT1** imides  
 \***BT1** radiosensitizers

**nemata**

*INIS: 2000-04-12; ETDE: 1985-05-31*  
 USE nematodes

**NEMATODES**

*1996-11-13*  
*UF nemata*  
*UF worms (round)*  
*SF aschelminthes*  
 \***BT1** invertebrates  
**NT1** ascaridae  
**NT2** ascaris  
**NT1** dictyocaulus  
**NT1** hookworm  
**NT1** trichinella  
*RT* filariasis  
*RT* parasites

**NEMBUTAL**

*UF pentobarbital*  
 \***BT1** barbiturates

**NEMS**

*2014-08-20*  
*Nano-Electro-Mechanical Systems.*  
*UF nanoelectromechanical systems*  
*RT* mems  
*RT* nanoelectronics

**NEOCARCINOSTATIN**

*INIS: 1979-12-20; ETDE: 1980-01-24*  
 \***BT1** antibiotics  
 \***BT1** antineoplastic drugs  
 \***BT1** radiomimetic drugs  
*RT* antimitotic drugs  
*RT* chemotherapy

*RT* mutagens  
*RT* neoplasms

**NEOCLASSICAL TRANSPORT THEORY**

*INIS: 1982-11-30; ETDE: 1979-01-30*  
 \***BT1** charged-particle transport theory  
*RT* banana regime  
*RT* bootstrap current  
*RT* pfirsch-schlueter regime  
*RT* plasma  
*RT* plateau regime

**neocupferron**

*2000-04-12*  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE amines

**NEODYMIUM**

\***BT1** rare earths

**NEODYMIUM 124**

*2007-03-13*  
 \***BT1** even-even nuclei  
 \***BT1** milliseconds living radioisotopes  
 \***BT1** neodymium isotopes  
 \***BT1** rare earth nuclei

**NEODYMIUM 125**

*2004-12-15*  
 \***BT1** electron capture radioisotopes  
 \***BT1** even-odd nuclei  
 \***BT1** milliseconds living radioisotopes  
 \***BT1** neodymium isotopes  
 \***BT1** rare earth nuclei

**NEODYMIUM 126**

*2007-03-13*  
 \***BT1** electron capture radioisotopes  
 \***BT1** even-even nuclei  
 \***BT1** neodymium isotopes  
 \***BT1** rare earth nuclei

**NEODYMIUM 127**

*INIS: 1984-10-19; ETDE: 1984-11-06*  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** even-odd nuclei  
 \***BT1** neodymium isotopes  
 \***BT1** rare earth nuclei  
 \***BT1** seconds living radioisotopes

**NEODYMIUM 128**

*INIS: 1984-10-19; ETDE: 1984-11-06*  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** even-even nuclei  
 \***BT1** neodymium isotopes  
 \***BT1** rare earth nuclei

**NEODYMIUM 129**

*INIS: 1977-06-14; ETDE: 1977-10-20*  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** even-odd nuclei  
 \***BT1** neodymium isotopes  
 \***BT1** rare earth nuclei  
 \***BT1** seconds living radioisotopes

**NEODYMIUM 130**

\***BT1** beta-plus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** even-even nuclei  
 \***BT1** neodymium isotopes  
 \***BT1** rare earth nuclei  
 \***BT1** seconds living radioisotopes

**NEODYMIUM 131**

*INIS: 1977-06-14; ETDE: 1977-10-20*  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** even-odd nuclei  
 \***BT1** neodymium isotopes  
 \***BT1** rare earth nuclei

\*BT1 seconds living radioisotopes

### NEODYMIUM 132

*INIS: 1977-06-14; ETDE: 1977-10-20*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 133

*INIS: 1977-06-14; ETDE: 1977-10-20*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 134

*1976-01-27*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 135

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 136

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 137

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### NEODYMIUM 138

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 139

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 140

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 141

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 142

\*BT1 even-even nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### NEODYMIUM 142 REACTIONS

*1984-02-23*

\*BT1 heavy ion reactions

### NEODYMIUM 142 TARGET

*ETDE: 1976-07-09*

BT1 targets

### NEODYMIUM 143

\*BT1 even-odd nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### NEODYMIUM 143 TARGET

*ETDE: 1976-07-09*

BT1 targets

### NEODYMIUM 144

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 years living radioisotopes

### NEODYMIUM 144 TARGET

*ETDE: 1976-07-09*

BT1 targets

### NEODYMIUM 145

\*BT1 even-odd nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### NEODYMIUM 145 TARGET

*ETDE: 1976-07-09*

BT1 targets

### NEODYMIUM 146

\*BT1 even-even nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### NEODYMIUM 146 TARGET

*ETDE: 1976-07-09*

BT1 targets

### NEODYMIUM 147

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 147 TARGET

*INIS: 1980-07-24; ETDE: 1980-08-12*

BT1 targets

### NEODYMIUM 148

\*BT1 even-even nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### NEODYMIUM 148 TARGET

*ETDE: 1976-07-09*

BT1 targets

### NEODYMIUM 149

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 149 TARGET

*INIS: 1980-07-24; ETDE: 1980-08-12*

BT1 targets

### NEODYMIUM 150

\*BT1 even-even nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes  
*RT* neodymium 150 reactions

### NEODYMIUM 150 REACTIONS

\*BT1 heavy ion reactions  
*RT* neodymium 150

### NEODYMIUM 150 TARGET

*ETDE: 1976-07-09*

BT1 targets

### NEODYMIUM 151

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 152

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 153

*INIS: 1987-08-27; ETDE: 1987-10-02*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### NEODYMIUM 154

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### NEODYMIUM 155

*INIS: 1987-08-27; ETDE: 1987-09-18*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### NEODYMIUM 156

*INIS: 1987-08-27; ETDE: 1987-10-02*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### NEODYMIUM 157

*2007-03-13*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 158

*2007-03-13*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 neodymium isotopes

\*BT1 rare earth nuclei

### NEODYMIUM 159

2007-03-13

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 160

2007-03-13

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM 161

2007-03-13

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

### NEODYMIUM ADDITIONS

*Alloys containing not more than 1% Nd are listed here.*

\*BT1 neodymium alloys  
 \*BT1 rare earth additions

### NEODYMIUM ALLOYS

*Alloys containing more than 1% Nd.*

\*BT1 rare earth alloys  
 NT1 neodymium additions  
 NT1 neodymium base alloys

### NEODYMIUM BASE ALLOYS

\*BT1 neodymium alloys

### NEODYMIUM BORIDES

\*BT1 borides  
 \*BT1 neodymium compounds

### NEODYMIUM BROMIDES

\*BT1 bromides  
 \*BT1 neodymium halides

### NEODYMIUM CARBIDES

\*BT1 carbides  
 \*BT1 neodymium compounds

### NEODYMIUM CARBONATES

\*BT1 carbonates  
 \*BT1 neodymium compounds

### NEODYMIUM CHLORIDES

\*BT1 chlorides  
 \*BT1 neodymium halides

### NEODYMIUM COMPLEXES

\*BT1 rare earth complexes

### NEODYMIUM COMPOUNDS

BT1 rare earth compounds  
 NT1 neodymium borides  
 NT1 neodymium carbides  
 NT1 neodymium carbonates  
 NT1 neodymium halides  
 NT2 neodymium bromides  
 NT2 neodymium chlorides  
 NT2 neodymium fluorides  
 NT2 neodymium iodides  
 NT1 neodymium hydrides  
 NT1 neodymium hydroxides  
 NT1 neodymium nitrates  
 NT1 neodymium nitrides  
 NT1 neodymium oxides  
 NT1 neodymium perchlorates  
 NT1 neodymium phosphates  
 NT1 neodymium silicates  
 NT1 neodymium silicides

NT1 neodymium sulfates  
 NT1 neodymium sulfides  
 NT1 neodymium tellurides  
 NT1 neodymium tungstates

### NEODYMIUM FLUORIDES

\*BT1 fluorides  
 \*BT1 neodymium halides

### NEODYMIUM HALIDES

2012-07-20

\*BT1 halides  
 \*BT1 neodymium compounds  
 NT1 neodymium bromides  
 NT1 neodymium chlorides  
 NT1 neodymium fluorides  
 NT1 neodymium iodides

### NEODYMIUM HYDRIDES

\*BT1 hydrides  
 \*BT1 neodymium compounds

### NEODYMIUM HYDROXIDES

\*BT1 hydroxides  
 \*BT1 neodymium compounds

### NEODYMIUM IODIDES

\*BT1 iodides  
 \*BT1 neodymium halides

### NEODYMIUM IONS

\*BT1 ions

### NEODYMIUM ISOTOPES

BT1 isotopes  
 NT1 neodymium 124  
 NT1 neodymium 125  
 NT1 neodymium 126  
 NT1 neodymium 127  
 NT1 neodymium 128  
 NT1 neodymium 129  
 NT1 neodymium 130  
 NT1 neodymium 131  
 NT1 neodymium 132  
 NT1 neodymium 133  
 NT1 neodymium 134  
 NT1 neodymium 135  
 NT1 neodymium 136  
 NT1 neodymium 137  
 NT1 neodymium 138  
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 NT1 neodymium 140  
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 NT1 neodymium 148  
 NT1 neodymium 149  
 NT1 neodymium 150  
 NT1 neodymium 151  
 NT1 neodymium 152  
 NT1 neodymium 153  
 NT1 neodymium 154  
 NT1 neodymium 155  
 NT1 neodymium 156  
 NT1 neodymium 157  
 NT1 neodymium 158  
 NT1 neodymium 159  
 NT1 neodymium 160  
 NT1 neodymium 161

### NEODYMIUM LASERS

\*BT1 solid state lasers  
 RT gdl facility  
 RT gekko facility  
 RT nova facility  
 RT novette facility  
 RT octal 82 facility  
 RT omega facility

RT phebus facility  
 RT shiva facility  
 RT trident facility  
 RT vulcan facility

### NEODYMIUM NITRATES

\*BT1 neodymium compounds  
 \*BT1 nitrates

### NEODYMIUM NITRIDES

\*BT1 neodymium compounds  
 \*BT1 nitrides

### NEODYMIUM OXIDES

\*BT1 neodymium compounds  
 \*BT1 oxides

### NEODYMIUM PERCHLORATES

\*BT1 neodymium compounds  
 \*BT1 perchlorates

### NEODYMIUM PHOSPHATES

\*BT1 neodymium compounds  
 \*BT1 phosphates

### NEODYMIUM SILICATES

\*BT1 neodymium compounds  
 \*BT1 silicates

### NEODYMIUM SILICIDES

\*BT1 neodymium compounds  
 \*BT1 silicides

### NEODYMIUM SULFATES

\*BT1 neodymium compounds  
 \*BT1 sulfates

### NEODYMIUM SULFIDES

\*BT1 neodymium compounds  
 \*BT1 sulfides

### NEODYMIUM TELLURIDES

1976-03-17

\*BT1 neodymium compounds  
 \*BT1 tellurides

### NEODYMIUM TUNGSTATES

*INIS: 1980-02-26; ETDE: 1977-06-02*

\*BT1 neodymium compounds  
 \*BT1 tungstates

### neogene period

*INIS: 2000-04-12; ETDE: 1977-10-20*

USE tertiary period

### NEOHYDRIN

UF chlormerodrin  
 \*BT1 diuretics

### NEOMYCIN

*INIS: 1999-02-26; ETDE: 1981-04-20*

(Until February 1999, this concept was indexed by the broader term ANTIBIOTICS.)

\*BT1 antibiotics

### NEON

\*BT1 rare gases

### NEON 16

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes

### NEON 17

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 neon isotopes

### NEON 18

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes

\*BT1 seconds living radioisotopes

### NEON 19

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes  
 \*BT1 seconds living radioisotopes

### NEON 19 BEAMS

*INIS: 1988-11-16; ETDE: 1988-12-02*  
 \*BT1 radioactive ion beams

### NEON 20

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes  
 \*BT1 stable isotopes  
*RT* neon 20 beams  
*RT* neon 20 reactions

### NEON 20 BEAMS

\*BT1 ion beams  
*RT* neon 20

### NEON 20 REACTIONS

\*BT1 heavy ion reactions  
*RT* neon 20

### NEON 20 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

### NEON 21

\*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes  
 \*BT1 stable isotopes

### NEON 21 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

### NEON 22

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes  
 \*BT1 stable isotopes  
*RT* neon 22 beams  
*RT* neon 22 reactions

### NEON 22 BEAMS

\*BT1 ion beams  
*RT* neon 22

### NEON 22 REACTIONS

\*BT1 heavy ion reactions  
*RT* neon 22

### NEON 22 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

### NEON 23

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes  
 \*BT1 seconds living radioisotopes

### NEON 24

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 neon isotopes

### NEON 24 DECAY RADIOISOTOPES

*INIS: 1986-03-04; ETDE: 1989-06-23*  
 \*BT1 heavy ion decay radioisotopes  
 NT1 protactinium 231  
 NT1 thorium 230  
 NT1 uranium 232  
 NT1 uranium 233

NT1 uranium 234

*RT* neon 24 emission decay

### NEON 24 EMISSION DECAY

*INIS: 1986-03-04; ETDE: 1989-06-23*  
 \*BT1 heavy ion emission decay  
*RT* neon 24 decay radioisotopes

### NEON 25

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 neon isotopes

### NEON 26

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 neon isotopes

### NEON 27

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes

### NEON 28

*INIS: 1979-09-18; ETDE: 1979-04-11*  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes

### NEON 29

*1985-10-22*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes

### NEON 29 REACTIONS

*INIS: 1992-09-23; ETDE: 1985-07-23*  
 \*BT1 heavy ion reactions

### NEON 30

*1985-10-22*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes

### NEON 31

*2007-03-13*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 neon isotopes

### NEON 32

*INIS: 1990-07-24; ETDE: 1990-08-06*  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes

### NEON 33

*2007-03-13*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 neon isotopes

### NEON 34

*2007-03-13*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 neon isotopes

### NEON BROMIDES

*2013-05-15*  
 \*BT1 bromides  
 \*BT1 neon halides

### NEON CHLORIDES

\*BT1 chlorides  
 \*BT1 neon halides

### NEON COMPLEXES

BT1 complexes

### NEON COMPOUNDS

*1996-06-28*  
 BT1 rare gas compounds  
 NT1 neon halides  
 NT2 neon bromides  
 NT2 neon chlorides  
 NT2 neon fluorides  
 NT2 neon iodides  
 NT1 neon hydrides  
 NT1 neon oxides

### NEON FLUORIDES

\*BT1 fluorides  
 \*BT1 neon halides

### NEON HALIDES

*2012-07-20*  
 \*BT1 halides  
 \*BT1 neon compounds  
 NT1 neon bromides  
 NT1 neon chlorides  
 NT1 neon fluorides  
 NT1 neon iodides

### NEON HYDRIDES

\*BT1 hydrides  
 \*BT1 neon compounds

### NEON IODIDES

\*BT1 iodides  
 \*BT1 neon halides

### NEON IONS

\*BT1 ions

### NEON ISOTOPES

*1999-07-16*  
 BT1 isotopes  
 NT1 neon 16  
 NT1 neon 17  
 NT1 neon 18  
 NT1 neon 19  
 NT1 neon 20  
 NT1 neon 21  
 NT1 neon 22  
 NT1 neon 23  
 NT1 neon 24  
 NT1 neon 25  
 NT1 neon 26  
 NT1 neon 27  
 NT1 neon 28  
 NT1 neon 29  
 NT1 neon 30  
 NT1 neon 31  
 NT1 neon 32  
 NT1 neon 33  
 NT1 neon 34

### NEON OXIDES

*1996-06-28*  
 (From June 1996 to November 2007 NEON COMPOUNDS + OXIDES was used for this concept.)  
 \*BT1 neon compounds  
 \*BT1 oxides

### NEONATES

*INIS: 1976-07-08; ETDE: 1976-03-11*  
*Newborn animals.*  
*SF newborns*



BT1 animals  
 RT age groups  
 RT infants  
 RT teratogens

**neopentane**

USE 2-2-dimethylpropane

**NEOPLASMS**

UF cancer  
 UF malignancies  
 UF tumors  
 BT1 diseases  
 NT1 carcinomas  
 NT2 adenomas  
 NT2 angiomas  
 NT2 epitheliomas  
 NT3 melanomas  
 NT2 hepatomas  
 NT1 experimental neoplasms  
 NT2 ehrlich ascites tumor  
 NT1 gliomas  
 NT2 astrocytomas  
 NT1 granulomas  
 NT1 leukemia  
 NT2 myeloid leukemia  
 NT1 lymphomas  
 NT2 hodgkins disease  
 NT2 lymphosarcomas  
 NT1 sarcomas  
 NT2 fibrosarcomas  
 NT2 lymphosarcomas  
 NT2 myosarcomas  
 NT3 rhabdomyosarcomas  
 NT2 osteosarcomas  
 RT angiogenesis  
 RT antimitotic drugs  
 RT antineoplastic drugs  
 RT ascites  
 RT ascites tumor cells  
 RT bleomycin  
 RT carcinoembryonic antigen  
 RT carcinogenesis  
 RT carcinogens  
 RT combined therapy  
 RT delayed radiation effects  
 RT dimethylbenzanthracene  
 RT metastases  
 RT neocarcinostatin  
 RT quality of life  
 RT radioembolization  
 RT radioimmunodetection  
 RT tumor cells  
 RT tumor promoters

**NEOPRENE**

UF 2-chloro-1,3-butadiene  
 UF chlorobutadiene  
 UF chloroprene  
 \*BT1 elastomers  
 \*BT1 organic chlorine compounds  
 \*BT1 organic polymers  
 RT butadiene

**NEP-1 REACTOR**

INIS: 1977-06-13; ETDE: 1977-01-28  
 New England Power Co., Charlestown, Rhode Island, USA. Canceled in 1979 before construction began.

UF new england power-1 reactor  
 UF new england power company nuclear project-1

\*BT1 pwr type reactors

**NEP-2 REACTOR**

INIS: 1977-06-13; ETDE: 1977-01-28  
 New England Power Co., Charlestown, Rhode Island, USA. Canceled in 1979 before construction began.

UF new england power-2 reactor

UF new england power company nuclear project-2

\*BT1 pwr type reactors

**nepa**

1977-03-14

USE us national environmental policy act

**NEPAL**

BT1 asia  
 BT1 developing countries

**NEPHELINE BASALTS**

INIS: 2000-04-12; ETDE: 1980-08-12

\*BT1 volcanic rocks

RT basalt

**NEPHRECTOMY**

\*BT1 surgery

RT kidneys

**NEPHRITIS**

\*BT1 urogenital system diseases

RT kidneys

**NEPHROSCLEROSIS**

\*BT1 urogenital system diseases

\*BT1 vascular diseases

RT kidneys

**nepotism**

INIS: 2000-04-12; ETDE: 1983-03-23

SEE personnel management

**neptex process**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE reprocessing

**NEPTUNE PLANET**

BT1 planets

**NEPTUNE REACTOR**

UF derby zpr neptune

\*BT1 zero power reactors

**NEPTUNIUM**

1996-06-28

UF neptunium-beta

\*BT1 actinides

\*BT1 transuranium elements

NT1 neptunium-alpha

NT1 neptunium-gamma

**NEPTUNIUM 225**

1992-03-18

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

**NEPTUNIUM 226**

INIS: 1990-12-05; ETDE: 1991-01-15

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-odd nuclei

**NEPTUNIUM 227**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

**NEPTUNIUM 228**

\*BT1 actinide nuclei

\*BT1 neptunium isotopes

\*BT1 odd-odd nuclei

**NEPTUNIUM 229**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

**NEPTUNIUM 230**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-odd nuclei

**NEPTUNIUM 231**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

**NEPTUNIUM 232**

\*BT1 actinide nuclei

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-odd nuclei

**NEPTUNIUM 232 TARGET**

INIS: 1976-07-06; ETDE: 1976-08-24

BT1 targets

**NEPTUNIUM 233**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

**NEPTUNIUM 234**

\*BT1 actinide nuclei

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-odd nuclei

**NEPTUNIUM 235**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

\*BT1 years living radioisotopes

**NEPTUNIUM 236**

\*BT1 actinide nuclei

\*BT1 beta-minus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-odd nuclei

\*BT1 years living radioisotopes

**NEPTUNIUM 236 TARGET**

INIS: 1981-07-06; ETDE: 1981-08-04

BT1 targets

**NEPTUNIUM 237**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 nanoseconds living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

\*BT1 spontaneous fission radioisotopes

\*BT1 years living radioisotopes

**NEPTUNIUM 237 TARGET**

ETDE: 1976-07-09

BT1 targets

**NEPTUNIUM 238**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 238 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
BT1 targets

**NEPTUNIUM 239**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 239 TARGET**

*INIS: 1984-02-23; ETDE: 1979-08-09*  
BT1 targets

**NEPTUNIUM 240**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 241**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 242**

*INIS: 1981-09-17; ETDE: 1979-07-24*  
\*BT1 actinide nuclei  
\*BT1 beta-minus decay radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 neptunium isotopes  
\*BT1 odd-odd nuclei

**NEPTUNIUM 243**

*INIS: 1979-09-18; ETDE: 1979-04-12*  
\*BT1 actinide nuclei  
\*BT1 beta-minus decay radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 neptunium isotopes  
\*BT1 odd-even nuclei

**NEPTUNIUM 244**

*INIS: 1987-02-25; ETDE: 1987-05-01*  
\*BT1 actinide nuclei  
\*BT1 beta-minus decay radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 neptunium isotopes  
\*BT1 odd-odd nuclei

**NEPTUNIUM ADDITIONS**

*Alloys containing not more than 1% Np are listed here.*

- \*BT1 neptunium alloys

**NEPTUNIUM ALLOYS**

*Alloys containing more than 1% Np.*

- UF neptunium base alloys*
- \*BT1 actinide alloys
- NT1 neptunium additions

**NEPTUNIUM-ALPHA**

- \*BT1 neptunium

**NEPTUNIUM ARSENIDES**

- \*BT1 arsenides
- \*BT1 neptunium compounds

**neptunium base alloys**

*(Prior to March 1997 this was a valid descriptor.)*

- USE neptunium alloys

**neptunium-beta**

*INIS: 1996-06-28; ETDE: 2002-04-16*  
(Until June 1996 this was a valid descriptor.)  
USE neptunium

**NEPTUNIUM BORIDES**

*1997-01-28*  
(From October 1996 to February 2008 NEPTUNIUM COMPOUNDS + BORIDES was used for this concept.)  
\*BT1 borides  
\*BT1 neptunium compounds

**NEPTUNIUM BROMIDES**

- \*BT1 bromides
- \*BT1 neptunium halides

**NEPTUNIUM CARBIDES**

- \*BT1 carbides
- \*BT1 neptunium compounds

**NEPTUNIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 neptunium compounds

**NEPTUNIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 neptunium halides

**NEPTUNIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes
- NT1 neptunyl complexes

**NEPTUNIUM COMPOUNDS**

*1996-11-13*  
BT1 actinide compounds  
BT1 transuranium compounds  
NT1 neptunium arsenides  
NT1 neptunium borides  
NT1 neptunium carbides  
NT1 neptunium carbonates  
NT1 neptunium halides  
NT2 neptunium bromides  
NT2 neptunium chlorides  
NT2 neptunium fluorides  
NT2 neptunium iodides  
NT1 neptunium hydrides  
NT1 neptunium hydroxides  
NT1 neptunium nitrates  
NT1 neptunium nitrides  
NT1 neptunium oxides  
NT1 neptunium perchlorates  
NT1 neptunium phosphates  
NT1 neptunium phosphides  
NT1 neptunium selenides  
NT1 neptunium sulfates  
NT1 neptunium sulfides  
NT1 neptunium tellurides  
NT1 neptunyl compounds

**NEPTUNIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 neptunium halides

**NEPTUNIUM-GAMMA**

- \*BT1 neptunium

**NEPTUNIUM HALIDES**

*2012-07-20*  
\*BT1 halides  
\*BT1 neptunium compounds  
NT1 neptunium bromides  
NT1 neptunium chlorides  
NT1 neptunium fluorides  
NT1 neptunium iodides

**NEPTUNIUM HYDRIDES**

*INIS: 1976-11-17; ETDE: 1976-03-11*  
\*BT1 hydrides  
\*BT1 neptunium compounds

**NEPTUNIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 neptunium compounds

**NEPTUNIUM IODIDES**

- \*BT1 iodides
- \*BT1 neptunium halides

**NEPTUNIUM IONS**

- \*BT1 ions

**NEPTUNIUM ISOTOPES**

*1999-07-16*  
BT1 isotopes  
NT1 neptunium 225  
NT1 neptunium 226  
NT1 neptunium 227  
NT1 neptunium 228  
NT1 neptunium 229  
NT1 neptunium 230  
NT1 neptunium 231  
NT1 neptunium 232  
NT1 neptunium 233  
NT1 neptunium 234  
NT1 neptunium 235  
NT1 neptunium 236  
NT1 neptunium 237  
NT1 neptunium 238  
NT1 neptunium 239  
NT1 neptunium 240  
NT1 neptunium 241  
NT1 neptunium 242  
NT1 neptunium 243  
NT1 neptunium 244

**NEPTUNIUM NITRATES**

- \*BT1 neptunium compounds
- \*BT1 nitrates

**NEPTUNIUM NITRIDES**

- \*BT1 neptunium compounds
- \*BT1 nitrides

**NEPTUNIUM OXIDES**

- \*BT1 neptunium compounds
- \*BT1 oxides

**NEPTUNIUM PERCHLORATES**

*1977-01-26*  
\*BT1 neptunium compounds  
\*BT1 perchlorates

**NEPTUNIUM PHOSPHATES**

*INIS: 1997-01-28; ETDE: 1982-02-23*  
(From November 1996 to November 2007 NEPTUNIUM COMPOUNDS + PHOSPHATES was used for this concept.)  
\*BT1 neptunium compounds  
\*BT1 phosphates

**NEPTUNIUM PHOSPHIDES**

- \*BT1 neptunium compounds
- \*BT1 phosphides

**NEPTUNIUM SELENIDES**

*INIS: 1977-06-13; ETDE: 1976-01-23*  
\*BT1 neptunium compounds  
\*BT1 selenides

**NEPTUNIUM SULFATES**

- \*BT1 neptunium compounds
- \*BT1 sulfates

**NEPTUNIUM SULFIDES**

- \*BT1 neptunium compounds
- \*BT1 sulfides

**NEPTUNIUM TELLURIDES**

*1976-02-24*  
\*BT1 neptunium compounds  
\*BT1 tellurides

**NEPTUNYL COMPLEXES**

1983-09-06

- \*BT1 neptunium complexes
- RT neptunyl compounds

**NEPTUNYL COMPOUNDS**

- \*BT1 neptunium compounds
- RT neptunyl complexes

**NERNST EFFECT**

*When heat flows across the lines of a magnetic field, an EMF is produced in the mutually perpendicular direction.*

- UF *ettingshausen-ernst effect*
- UF *ernst-ettingshausen effect*
- RT *ettingshausen effect*
- RT *hall effect*
- RT *righi-leduc effect*

**ernst-ettingshausen effect**

- USE *ernst effect*

**NERNST HEAT THEOREM**

- RT *thermodynamics*

**nerva nrx-a1 reactor**

2000-04-12

- USE *nrx-a1 reactor*

**nerva nrx-a2 reactor**

- USE *nrx-a2 reactor*

**nerva nrx-a3 reactor**

- USE *nrx-a3 reactor*

**nerva nrx-a4 engine system test reactor**

1993-11-09

- USE *nrx-a4-est reactor*

**nerva nrx-a5 reactor**

- USE *nrx-a5 reactor*

**nerva nrx-a6 reactor**

- USE *nrx-a6 reactor*

**nerva nrx-a7 reactor**

2000-04-12

- USE *nrx-a7 reactor*

**nerva nuclear rocket engine**

- USE *nerva reactor*

**NERVA REACTOR**

LASL, Los Alamos, New Mexico, USA.

- UF *nerva nuclear rocket engine*
- \*BT1 *hydrogen cooled reactors*
- \*BT1 *space propulsion reactors*
- RT *xe-2 reactor*

**NERVE CELLS**

- UF *axons*
- UF *neurons*
- \*BT1 *somatic cells*
- RT *bioelectricity*
- RT *myelin*
- RT *nerve tissue*
- RT *nervous system*
- RT *receptors*

**NERVE TISSUE**

- \*BT1 *animal tissues*
- RT *nerve cells*
- RT *nerves*

**NERVES**

- BT1 *nervous system*
- NT1 *sciatic nerve*
- NT1 *vagus*
- RT *herpes zoster*
- RT *myelin*
- RT *nerve tissue*
- RT *reflexes*

**NERVOUS SYSTEM**

- NT1 *autonomic nervous system*
- NT2 *vagus*
- NT1 *central nervous system*
- NT2 *brain*
- NT3 *cerebellum*
- NT3 *cerebrum*
- NT4 *cerebral cortex*
- NT3 *hippocampus*
- NT3 *hypothalamus*
- NT3 *olfactory bulbs*
- NT3 *thalamus*
- NT2 *spinal cord*
- NT1 *ganglions*
- NT1 *nerves*
- NT2 *sciatic nerve*
- NT2 *vagus*
- RT *nerve cells*
- RT *nervous system diseases*
- RT *organs*
- RT *pain*
- RT *poliomyelitis*
- RT *reflexes*
- RT *retina*
- RT *sense organs*

**NERVOUS SYSTEM DISEASES**

- BT1 *diseases*
- NT1 *encephalitis*
- NT2 *rabies*
- NT1 *epilepsy*
- NT1 *gliomas*
- NT2 *astrocytomas*
- NT1 *herpes zoster*
- NT1 *myelitis*
- NT2 *poliomyelitis*
- RT *meningococcus*
- RT *mental disorders*
- RT *nervous system*
- RT *neurology*
- RT *sense organs diseases*

**NESTOR REACTOR**

UKAEA, Winfrith, United Kingdom.

- UF *neutron source thermal reactor*
- UF *ukaea-nestor reactor*
- \*BT1 *argonaut type reactors*
- \*BT1 *research reactors*
- \*BT1 *thermal reactors*

**NESTS**

INIS: 1991-08-12; ETDE: 1985-10-10

*The place where the eggs of animals are laid and hatched and the young are reared.*

- RT *animal breeding*
- RT *habitat*
- RT *reproduction*

**NET ENERGY**

2000-04-12

*Difference of energy output and energy input.*

- BT1 *energy*
- BT1 *energy analysis*
- RT *efficiency*
- RT *energy accounting*
- RT *energy consumption*
- RT *energy efficiency*
- RT *energy substitution equivalent*
- RT *energy yield*

**net material product**

INIS: 2000-04-12; ETDE: 1979-11-07

*The analogue of gross national product for countries with centrally planned economies.*

(Prior to February 1995, this was a valid ETDE descriptor.)

- SEE *gross domestic product*
- SEE *gross national product*

**net radiation**

2013-12-13

- USE *radiative forcing*

**NET TOKAMAK**

1986-02-28

- UF *next european torus*
- \*BT1 *tokamak devices*

**net trade**

INIS: 2000-04-12; ETDE: 1979-02-23

*Exports minus imports.*

(Prior to May 1996 this was a valid ETDE descriptor.)

- USE *trade*

**NETHERLANDS**

1995-04-03

- BT1 *developed countries*
- \*BT1 *western europe*
- RT *oecd*
- RT *rhine river*
- RT *wadden sea*

**NETHERLANDS ANTILLES**

INIS: 1992-06-04; ETDE: 1979-12-10

- \*BT1 *lesser antilles*

**NETHERLANDS ORGANIZATIONS**

- BT1 *national organizations*
- NT1 *ecn*
- NT2 *rcn*
- NT1 *iko*
- NT1 *iri*
- NT1 *kvi*
- NT1 *nikhef*

**NETR REACTOR**

2000-04-12

*Wright-Patterson Air Force Base, Dayton, Ohio, USA.*

- UF *nuclear engineering test reactor*
- \*BT1 *tank type reactors*
- \*BT1 *test reactors*
- \*BT1 *thermal reactors*
- \*BT1 *water cooled reactors*
- \*BT1 *water moderated reactors*

**NETWORK ANALYSIS**

INIS: 1983-06-02; ETDE: 1976-07-07

*Derivation of the electrical properties of a network from its configuration, element values and driving forces.*

- RT *circuit theory*
- RT *configuration*
- RT *mathematics*

**networks (computer)**

INIS: 2000-04-12; ETDE: 1976-11-02

- USE *computer networks*

**neuberger research reactor**

- USE *frn reactor*

**neumann functions**

INIS: 1975-11-07; ETDE: 2002-04-16

- USE *bessel functions*

**NEUMANN SERIES**

1984-02-22

*An arbitrary function expanded in terms of Bessel functions.*

- BT1 *series expansion*
- RT *bessel functions*

**NEUPOTZ-1 REACTOR**

INIS: 1978-07-31; ETDE: 1978-09-11

*Neupotz, Rheinlandpfalz, Federal Republic of Germany.*

- \*BT1 *pwr type reactors*

**NEUPOTZ-2 REACTOR**

INIS: 1978-07-31; ETDE: 1978-09-11  
 Neupotz, Rheinlandpfalz, Federal Republic of Germany.  
 \*BT1 pwr type reactors

**NEURAL NETWORKS**

INIS: 1989-09-15; ETDE: 1989-10-16  
 Computer programs built of linear arrays of processing elements grouped together to simulate the interconnections between the neurons and the learning rules of the brain.  
 RT artificial intelligence  
 RT computer architecture  
 RT expert systems  
 RT genetic algorithms

**neuridine**

USE spermine

**NEUROLOGY**

BT1 medicine  
 RT nervous system diseases

**neuron transmission**

INIS: 2000-04-12; ETDE: 1982-07-27  
 USE bioelectricity

**neurons**

USE nerve cells

**NEUROREGULATORS**

INIS: 1984-05-24; ETDE: 1981-04-20  
 \*BT1 autonomic nervous system agents  
 NT1 acetylcholine  
 NT1 adrenaline  
 NT1 aminobutyric acid  
 NT1 dopa  
 NT1 dopamine  
 NT1 endorphins  
 NT2 enkephalins  
 NT1 noradrenaline  
 NT1 serotonin  
 NT2 bufotenine  
 RT parasympatholytics  
 RT parasympathomimetics  
 RT sympatholytics  
 RT sympathomimetics

**NEUROSPORA**

\*BT1 eumycota

**NEUTRAL ATOM BEAM INJECTION**

BT1 beam injection  
 RT atomic beam sources  
 RT neutral beam sources

**NEUTRAL BEAM SOURCES**

INIS: 1982-11-30; ETDE: 1977-03-04  
 Not for subatomic species.  
 NT1 atomic beam sources  
 RT ion sources  
 RT neutral atom beam injection

**NEUTRAL-CURRENT INTERACTIONS**

1995-08-10  
 \*BT1 particle interactions  
 RT fundamental interactions  
 RT neutral currents  
 RT weinberg angle

**NEUTRAL CURRENTS**

UF currents (neutral)  
 \*BT1 algebraic currents  
 NT1 weak neutral currents  
 RT charged currents  
 RT electromagnetic interactions  
 RT neutral-current interactions  
 RT weak interactions

**NEUTRAL PARTICLE ANALYZERS**

INIS: 2000-04-12; ETDE: 1997-08-30  
 \*BT1 spectrometers  
 RT charge exchange  
 RT plasma diagnostics

**NEUTRAL-PARTICLE TRANSPORT**

INIS: 1975-09-09; ETDE: 1975-10-28  
 UF transport (neutral-particle)  
 BT1 radiation transport  
 NT1 atom transport  
 NT1 neutron transport  
 NT1 photon transport  
 RT neutral particles

**NEUTRAL PARTICLES**

See also the list under ELEMENTARY PARTICLES.  
 RT missing mass  
 RT missing-mass spectrometers  
 RT neutral-particle transport

**neutral red**

1996-10-23  
 (Until October 1996 this was a valid descriptor.)  
 USE amines  
 USE indicators  
 USE pyrazines

**NEUTRALINOS**

2013-08-26  
 \*BT1 sparticles  
 RT higgsinos  
 RT photinos  
 RT zinos

**neutralization (beam)**

USE beam neutralization

**neutralization (chemical)**

USE ph value

**neutralization (physical)**

Of electrons, holes, or radicals; not for the concept covered by BEAM NEUTRALIZATION.  
 USE recombination

**neutrettos**

USE muon neutrinos

**neutrino astronomy**

2016-12-13  
 Add other relevant descriptors, e.g. COSMIC NEUTRINOS or SOLAR NEUTRINOS, NEUTRINO DETECTION, as appropriate.  
 USE astronomy

**neutrino astrophysics**

2016-12-13  
 Add other relevant descriptors, e.g. COSMIC NEUTRINOS or SOLAR NEUTRINOS, NEUTRINO DETECTION, as appropriate.  
 USE astrophysics

**NEUTRINO BEAMS**

\*BT1 lepton beams  
 NT1 antineutrino beams

**NEUTRINO DETECTION**

\*BT1 radiation detection  
 RT dumand project  
 RT neutrino detectors  
 RT sudbury neutrino observatory

**NEUTRINO DETECTORS**

2016-12-12  
 \*BT1 radiation detectors  
 NT1 baikal neutrino telescope  
 NT1 borexino detector  
 NT1 icecube neutrino detector

NT1 super-kamiokande neutrino detector  
 RT neutrino detection  
 RT neutrinos

**neutrino-deuteron interactions**

(Prior to May 1996 this was a valid ETDE descriptor.)

USE neutrino-neutron interactions  
 USE neutrino-proton interactions

**NEUTRINO-ELECTRON INTERACTIONS**

\*BT1 lepton-lepton interactions  
 NT1 antineutrino-electron interactions

**neutrino geophysics**

2016-12-13  
 USE geoneutrinos  
 USE geophysics

**NEUTRINO-MESON INTERACTIONS**

\*BT1 lepton-meson interactions

**NEUTRINO MIXING ANGLE**

2015-11-26  
 BT1 mixing angle  
 RT neutrino oscillation

**NEUTRINO-MUON INTERACTIONS**

\*BT1 lepton-lepton interactions

**NEUTRINO-NEUTRINO INTERACTIONS**

\*BT1 lepton-lepton interactions

**NEUTRINO-NEUTRON INTERACTIONS**

(From January 1975 till May 1996 NEUTRINO-DEUTERON INTERACTIONS was a valid ETDE descriptor.)  
 UF neutrino-deuteron interactions  
 \*BT1 neutrino-nucleon interactions  
 NT1 antineutrino-neutron interactions

**NEUTRINO-NUCLEON INTERACTIONS**

\*BT1 lepton-nucleon interactions  
 NT1 antineutrino-nucleon interactions  
 NT2 antineutrino-neutron interactions  
 NT2 antineutrino-proton interactions  
 NT1 neutrino-neutron interactions  
 NT2 antineutrino-neutron interactions  
 NT1 neutrino-proton interactions  
 NT2 antineutrino-proton interactions

**NEUTRINO OSCILLATION**

INIS: 1983-10-14; ETDE: 1983-11-09  
 Periodic transformation of two or more kinds of neutrinos into each other; interference of mass and charge eigenstates.  
 RT mixing ratio  
 RT neutrino mixing angle  
 RT neutrinoless double beta decay  
 RT neutrinos  
 RT weak interactions

**NEUTRINO-PROTON INTERACTIONS**

(From January 1975 till May 1996 NEUTRINO-DEUTERON INTERACTIONS was a valid ETDE descriptor.)  
 UF neutrino-deuteron interactions  
 \*BT1 neutrino-nucleon interactions  
 NT1 antineutrino-proton interactions

**NEUTRINO REACTIONS**

\*BT1 lepton reactions

**NEUTRINOLESS DOUBLE BETA DECAY**

2016-05-10

- \*BT1 double beta decay
- RT majorana spinors
- RT neutrino oscillation

**NEUTRINOS**

- UF *j-parc neutrino experimental facility*
- \*BT1 leptons
- \*BT1 massless particles
- NT1 antineutrinos
  - NT2 electron antineutrinos
  - NT2 muon antineutrinos
- NT1 atmospheric neutrinos
  - NT2 conventional neutrinos
  - NT2 prompt neutrinos
- NT1 cosmic neutrinos
- NT1 electron neutrinos
  - NT2 electron antineutrinos
- NT1 geoneutrinos
- NT1 muon neutrinos
  - NT2 muon antineutrinos
- NT1 reactor neutrinos
- NT1 solar neutrinos
- NT1 sterile neutrinos
- NT1 tau neutrinos
  - RT feynman-gell-mann theory
  - RT leptonic decay
  - RT majorana spinors
  - RT neutrino detectors
  - RT neutrino oscillation
  - RT semileptonic decay
  - RT two-component neutrino theory
  - RT wimps

**NEUTRON ABSORBERS**

- NT1 absorber pellets
- NT1 burnable poisons
  - RT control elements
  - RT reactor control systems
  - RT reactor materials
  - RT regulating rods
  - RT scram rods
  - RT shim rods

**NEUTRON ACTIVATION ANALYSIS**

1978-11-24

- UF *analysis (neutron activation)*
- UF *naa*
- \*BT1 activation analysis
  - RT neutron activation analyzers
  - RT slowpoke src reactor

**NEUTRON ACTIVATION ANALYZERS**

- BT1 measuring instruments
  - RT activation analysis
  - RT neutron activation analysis
  - RT nuclear reaction analyzers

**NEUTRON AGE**

- UF *fermi age*
- RT fermi age theory
  - RT neutron flux
  - RT slowing-down

**NEUTRON-ANTINEUTRON INTERACTIONS**

(Prior to February 1995 ANTINEUTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

- UF *antineutron-deuteron interactions*
- \*BT1 nucleon-antinucleon interactions

**NEUTRON BEAMS**

- \*BT1 nucleon beams
  - RT neutron guides
  - RT neutrons
  - RT pulsed neutron techniques

**neutron bombs**

INIS: 2000-04-12; ETDE: 1981-03-16  
 USE enhanced radiation weapons

**NEUTRON CAMERAS**

INIS: 1978-07-03; ETDE: 1977-09-19  
 BT1 cameras  
 RT neutron diffractometers  
 RT neutron radiography

**neutron capture**

USE capture  
 USE neutron reactions

**NEUTRON CAPTURE THERAPY**

\*BT1 neutron therapy  
 RT radioactivation

**neutron capture-to-fission ratio**

1993-11-09  
 USE capture-to-fission ratio

**NEUTRON CHOPPERS**

UF *choppers (neutron)*  
 BT1 beam pulsers  
 RT neutron spectrometers  
 RT shutters

**NEUTRON CONVERTERS**

RT neutron sources  
 RT slowing-down  
 RT ultracold neutrons

**NEUTRON-DEFICIENT ISOTOPES**

\*BT1 radioisotopes  
 RT delayed proton precursors  
 RT delayed protons

**NEUTRON DENSITY**

UF *density (neutron)*  
 RT neutrons  
 RT power density

**NEUTRON DETECTION**

\*BT1 radiation detection  
 RT neutron detectors  
 RT neutron dosimetry  
 RT neutron monitors  
 RT neutron-photon converters  
 RT neutron spectrometers  
 RT neutron spectroscopy  
 RT radiation detectors

**NEUTRON DETECTORS**

\*BT1 radiation detectors  
 NT1 activation detectors  
 NT1 bf3 counters  
 NT1 boron coated ion chambers  
 NT1 boron lined counters  
 NT1 fission chambers  
 NT1 fission foil detectors  
 NT1 fission thermocouple detectors  
 NT1 he-3 counters  
 NT1 moderating detectors
 

- NT2 bonner sphere detectors
- NT2 long counters

- NT1 proton recoil detectors
- NT1 self-powered neutron detectors
- NT1 threshold detectors
- RT neutron detection
- RT neutron dosimetry
- RT neutron monitors
- RT neutron thermopiles
- RT reactor control systems

**neutron-deuteron interactions**

(Prior to May 1996 this was a valid ETDE descriptor.)

USE neutron-neutron interactions  
 USE proton-neutron interactions

**NEUTRON DIFFRACTION**

UF *diffraction (neutron)*  
 UF *rocking curve*  
 \*BT1 diffraction  
 RT crystallography  
 RT diffuse scattering  
 RT neutron diffractometers  
 RT neutron-photon converters  
 RT structural chemical analysis

**NEUTRON DIFFRACTOMETERS**

\*BT1 diffractometers  
 RT crystallography  
 RT neutron cameras  
 RT neutron diffraction

**NEUTRON DIFFUSION EQUATION**

\*BT1 diffusion equations  
 RT fick laws  
 RT flux synthesis  
 RT homogenization methods  
 RT neutron transport theory

**NEUTRON DOSIMETRY**

BT1 dosimetry  
 RT albedo-neutron dosimeters  
 RT bubble dosimeters  
 RT neutron detection  
 RT neutron detectors  
 RT neutron monitors

**neutron economy**

USE neutron flux

**NEUTRON EMISSION**

UF *neutron evaporation*  
 BT1 emission  
 RT liquid drop model

**neutron evaporation**

USE neutron emission

**NEUTRON FLUENCE**

UF *fluence (neutron)*  
 NT1 damaging neutron fluence
 

- NT2 equivalent fission fluence

- RT neutron flux

**NEUTRON FLUX**

UF *flux (neutron)*  
 UF *neutron economy*  
 UF *neutron flux density*  
 BT1 radiation flux  
 NT1 adjoint flux
 

- RT damaging neutron fluence
- RT disadvantage factor
- RT flux synthesis
- RT heterogeneous effects
- RT homogenization methods
- RT neutron age
- RT neutron fluence
- RT neutron flux flattening
- RT neutron flux tilting
- RT neutron importance function
- RT neutrons

**neutron flux density**

USE flux density  
 USE neutron flux

**NEUTRON FLUX FLATTENING**

UF *flattening (neutron flux)*  
 RT neutron flux

**NEUTRON FLUX TILTING**

UF *tilting (neutron flux)*  
 RT neutron flux

**NEUTRON-GAMMA LOGGING**

INIS: 1976-10-29; ETDE: 1976-06-07  
*Neutron source and gamma detector.*  
 UF *chlorine logs*

- UF oxygen logs  
 UF thermal decay time log  
 SF hydrogen logs  
 \*BT1 neutron logging

**NEUTRON GENERATORS**

INIS: 1982-12-06; ETDE: 1983-02-09  
 Usually low-energy accelerators used to produce neutrons by nuclear reactions, e.g. T(d, n).  
 \*BT1 neutron sources

**NEUTRON GUIDES**

INIS: 1985-11-19; ETDE: 1985-12-13  
 RT neutron beams  
 RT neutron reflectors  
 RT neutron sources  
 RT neutron transport  
 RT pulsed neutron techniques  
 RT reactor channels  
 RT ultracold neutrons

**neutron halos**

1995-07-03  
 USE nuclear halos

**neutron heating**

2000-04-12  
 USE radiation heating

**NEUTRON IMPORTANCE**

**FUNCTION**  
 UF importance function (neutron)  
 BT1 functions  
 RT adjoint flux  
 RT neutron flux  
 RT perturbation theory

**neutron international standard**

**neutron source**  
 INIS: 1993-11-09; ETDE: 2002-04-16  
 USE nirus facility

**neutron international standard**

**uranium source**  
 2000-04-12  
 USE nirus facility

**NEUTRON LEAKAGE**

UF leakage (neutron)  
 RT neutron transport theory

**neutron lifetime log**

INIS: 2000-04-12; ETDE: 1979-03-27  
 USE neutron-neutron logging

**NEUTRON LOGGING**

INIS: 1977-01-26; ETDE: 1976-08-24  
 Well logging using neutron source.  
 SF hydrogen logs  
 \*BT1 radioactivity logging  
 NT1 neutron-gamma logging  
 NT1 neutron-neutron logging  
 RT neutron probes

**neutron matter**

INIS: 1981-08-18; ETDE: 1981-09-22  
 USE nuclear matter

**neutron moisture meters**

USE moisture gages

**NEUTRON MONITORS**

\*BT1 radiation monitors  
 RT neutron detection  
 RT neutron detectors  
 RT neutron dosimetry  
 RT reactor control systems

**neutron multiplier facility**

USE subcritical assemblies

**NEUTRON-NEUTRON INTERACTIONS**

(From February 1975 till May 1996  
 NEUTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF neutron-deuteron interactions  
 \*BT1 nucleon-nucleon interactions

**NEUTRON-NEUTRON LOGGING**

INIS: 1976-10-29; ETDE: 1976-06-07  
 Neutron source and neutron detector.

UF neutron lifetime log  
 SF hydrogen logs  
 \*BT1 neutron logging

**NEUTRON OSCILLATION**

INIS: 1985-11-19; ETDE: 1985-12-13  
 Process of a reversible neutron-antineutron transformation.

RT antineutrons  
 RT baryon number  
 RT neutrons

**NEUTRON-PHOTON CONVERTERS**

RT neutron detection  
 RT neutron diffraction  
 RT neutron radiography  
 RT photographic film detectors

**NEUTRON PHYSICS**

2014-12-01  
 Use only for indexing articles of very broad coverage, such as annual reviews, text books, etc. or general research on the applications of neutrons.

BT1 physics  
 RT atomic physics  
 RT high energy physics  
 RT neutron reactions  
 RT neutron transport theory  
 RT neutrons  
 RT nuclear physics  
 RT reactor physics

**NEUTRON PROBES**

INIS: 1986-03-04; ETDE: 1989-06-23  
 BT1 probes  
 RT moisture gages  
 RT neutron logging  
 RT neutron reactions  
 RT neutron sources

**NEUTRON RADIOGRAPHY**

\*BT1 industrial radiography  
 RT neutron cameras  
 RT neutron-photon converters

**NEUTRON REACTIONS**

UF neutron capture  
 \*BT1 nucleon reactions  
 NT1 fast fission  
 NT1 thermal fission  
 RT neutron physics  
 RT neutron probes  
 RT neutron sputtering

**NEUTRON REFLECTORS**

UF reflectors (neutron)  
 RT configuration control  
 RT neutron guides  
 RT reflector savings

**NEUTRON-RICH ISOTOPES**

INIS: 1976-07-16; ETDE: 1975-11-11  
 \*BT1 beta-minus decay radioisotopes  
 RT beta-delayed neutrons

**NEUTRON SEPARATION ENERGY**

\*BT1 binding energy  
 RT neutrons

**NEUTRON SLOWING-DOWN THEORY**

1996-07-08

(Prior to August 1996 SELENGUT-GOERTZEL EQUATION was a valid ETDE descriptor.)

UF selengut approximation  
 UF selengut-goertzel equation  
 UF slowing-down theory (neutron)  
 SF greuling-goertzel approximation  
 NT1 fermi age theory  
 RT moderators  
 RT neutron spectra  
 RT neutron transport theory  
 RT placzec function  
 RT reactor physics  
 RT slowing-down  
 RT slowing-down kernels  
 RT spencer-fano theory  
 RT wick method

**NEUTRON SOURCE FACILITIES**

INIS: 1994-07-01; ETDE: 1977-10-20

NT1 accelerator neutron source facilities  
 NT2 ipns-i synchrotron  
 NT2 iren facility  
 NT2 spallation neutron source facilities  
 NT3 china spallation neutron source  
 NT3 european spallation source  
 NT3 isis spallation neutron source  
 NT3 kipt neutron source facility  
 NT3 oak ridge spallation neutron source  
 NT3 swiss spallation neutron source  
 NT1 fusion neutron source facilities  
 NT1 reactor neutron source facilities  
 NT2 ihni-1 reactor  
 NT2 nirus facility  
 RT neutron sources

**neutron source thermal reactor**

USE nestor reactor

**NEUTRON SOURCES**

Excludes reactors even when used as neutron sources.

UF ing linac  
 UF intense neutron generator linac  
 \*BT1 particle sources  
 NT1 neutron generators  
 RT neutron converters  
 RT neutron guides  
 RT neutron probes  
 RT neutron source facilities  
 RT neutrons  
 RT radioactivation  
 RT sigma piles  
 RT sora reactor  
 RT thermal columns

**NEUTRON SPECTRA**

UF spectra (neutron)  
 BT1 spectra  
 NT1 watt fission spectrum  
 RT neutron slowing-down theory  
 RT neutrons  
 RT spectra unfolding  
 RT spectral hardening

**NEUTRON SPECTROMETERS**

\*BT1 spectrometers  
 NT1 bonner sphere spectrometers  
 RT neutron choppers  
 RT neutron detection

**neutron spectrometry**

INIS: 1975-10-23; ETDE: 2002-04-16  
 USE neutron spectroscopy

**NEUTRON SPECTROSCOPY**

UF neutron spectrometry

BT1 spectroscopy  
RT neutron detection

**NEUTRON SPUTTERING**  
INIS: 2000-04-12; ETDE: 1977-08-24  
BT1 sputtering  
RT neutron reactions  
RT physical radiation effects

**NEUTRON STARS**  
BT1 stars  
RT accretion disks  
RT gravitational collapse  
RT neutrons  
RT nuclear matter  
RT pulsars  
RT starquakes

**NEUTRON TEMPERATURE**  
UF temperature (neutron)  
RT energy  
RT neutrons  
RT thermal neutrons

**NEUTRON THERAPY**  
INIS: 1976-02-11; ETDE: 1976-04-19  
\*BT1 radiotherapy  
NT1 neutron capture therapy

**NEUTRON THERMOPILES**  
RT neutron detectors

**NEUTRON TRANSFER**  
RT neutrons  
RT transfer reactions

**NEUTRON TRANSPORT**  
UF transport (neutron)  
\*BT1 neutral-particle transport  
RT neutron guides  
RT neutron transport theory

**NEUTRON TRANSPORT THEORY**  
1996-01-24  
(Prior to March 1997 HAYWOOD MODEL and ROSENBLUTH-NELKIN model were valid ETDE descriptors.)  
UF haywood model  
SF rosenbluth-nelkin model  
BT1 transport theory  
NT1 multigroup theory  
NT1 one-group theory  
RT adjoint difference method  
RT albedo  
RT collision probability method  
RT discrete ordinate method  
RT extrapolation length  
RT feynman method  
RT fick laws  
RT homogenization methods  
RT milne problem  
RT monte carlo method  
RT neutron diffusion equation  
RT neutron leakage  
RT neutron physics  
RT neutron slowing-down theory  
RT neutron transport  
RT perturbation theory  
RT reactor physics  
RT slowing-down  
RT spherical harmonics method  
RT transfer matrix method  
RT variational methods  
RT yvon method

**NEUTRONIC DAMAGE FUNCTIONS**  
INIS: 1976-05-07; ETDE: 1978-03-08  
BT1 functions  
RT damaging neutron fluence  
RT equivalent fission fluence  
RT irradiation  
RT physical radiation effects

**NEUTRONS**  
1996-07-23  
\*BT1 nucleons  
NT1 antineutrons  
NT1 beta-delayed neutrons  
NT1 cold neutrons  
NT2 ultracold neutrons  
NT1 cosmic neutrons  
NT1 epithermal neutrons  
NT1 fast neutrons  
NT1 fission neutrons  
NT2 delayed neutrons  
NT2 prompt neutrons  
NT1 intermediate neutrons  
NT1 photoneutrons  
NT1 pile neutrons  
NT1 polyneutrons  
NT2 dineutrons  
NT2 tetraneutrons  
NT2 trineutrons  
NT1 resonance neutrons  
NT1 slow neutrons  
NT1 solar neutrons  
NT1 thermal neutrons  
RT cinda  
RT neutron beams  
RT neutron density  
RT neutron flux  
RT neutron oscillation  
RT neutron physics  
RT neutron separation energy  
RT neutron sources  
RT neutron spectra  
RT neutron stars  
RT neutron temperature  
RT neutron transfer

**NEUTROPHILS**  
\*BT1 leukocytes

**NEVADA**  
\*BT1 usa  
NT1 steamboat springs  
NT1 tonopah test range  
RT great basin  
RT nevada test site  
RT snake river plain  
RT yucca mountain

**NEVADA TEST SITE**  
1999-01-25  
BT1 nuclear test sites  
\*BT1 us doe  
RT arbor project  
RT nevada  
RT nuclear explosions  
RT nuclear weapons  
RT tonopah test range  
RT yucca mountain

**nevada university l-77 reactor**  
2000-04-12  
USE nevada university reactor

**NEVADA UNIVERSITY REACTOR**  
2000-04-12  
Univ. of Nevada, Reno, Nevada, USA. Shut down in 1974.  
UF l-77 nevada university reactor  
UF nevada university l-77 reactor  
UF university of nevada l-77 reactor  
\*BT1 aqueous homogeneous reactors  
\*BT1 enriched uranium reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**NEW BRUNSWICK**  
\*BT1 canada

**NEW CALEDONIA**  
INIS: 1992-06-12; ETDE: 1979-12-10  
BT1 oceania

**new england**  
INIS: 2000-04-12; ETDE: 1978-07-06  
USE usa

**new england power-1 reactor**  
INIS: 1984-07-20; ETDE: 2002-04-16  
USE nep-1 reactor

**new england power-2 reactor**  
INIS: 1984-07-20; ETDE: 2002-04-16  
USE nep-2 reactor

**new england power company nuclear project-1**  
INIS: 1993-11-09; ETDE: 1977-01-28  
USE nep-1 reactor

**new england power company nuclear project-2**  
INIS: 1993-11-09; ETDE: 1977-01-28  
USE nep-2 reactor

**NEW GUINEA**  
ETDE: 1979-09-26  
BT1 australasia  
BT1 islands  
NT1 papua new guinea  
RT australia  
RT new zealand  
RT pacific ocean

**NEW HAMPSHIRE**  
1997-06-17  
\*BT1 usa  
RT connecticut river  
RT connecticut river basin  
RT gulf of maine  
RT us east coast

**NEW HEBRIDES ISLANDS**  
1992-06-04  
BT1 islands  
RT pacific ocean

**NEW JERSEY**  
1997-06-17  
\*BT1 usa  
RT delaware river  
RT hudson river  
RT new york bight  
RT us east coast

**NEW MEXICO**  
1997-06-19  
\*BT1 usa  
NT1 los alamos  
RT baca geothermal field  
RT inhalation toxicology research institute  
RT jemez mountains  
RT lanl  
RT permian basin  
RT rio grande rift  
RT rio grande river  
RT sandia laboratories  
RT sandia national laboratories  
RT santa rosa deposit  
RT wipp

**new neutron source frm-ii**  
2004-04-02  
USE frm-ii reactor

**NEW SOUTH WALES**  
1997-06-17  
\*BT1 australia  
RT glen davis facility

**NEW YORK**

1997-06-17

\*BT1 usa

NT1 new york city

RT adirondack mountains

RT allegheny river

RT bnl

RT delaware river

RT hudson river

RT kapl

RT long island sound

RT mohawk river

RT new york bight

RT niagara river

RT st lawrence river

RT susquehanna river

RT us east coast

**NEW YORK BIGHT**

INIS: 2000-04-12; ETDE: 1980-03-29

The section of continental margin and overlying water within the bend of the Atlantic coastline bounded by Long Island on the north and New Jersey on the west.

\*BT1 mid-atlantic bight

RT continental shelf

RT new jersey

RT new york

RT us east coast

**NEW YORK CITY**

\*BT1 new york

BT1 urban areas

**NEW ZEALAND**

1997-06-19

BT1 australasia

BT1 developed countries

BT1 islands

RT broadlands geothermal field

RT kawerau geothermal field

RT new guinea

RT oceania

RT oecd

RT pacific ocean

RT tasman sea

RT waiotapu geothermal field

RT wairakei geothermal field

**NEW ZEALAND ORGANIZATIONS**

1986-04-03

BT1 national organizations

**newbold island-1 reactor**

2017-11-09

Public Service Electric and Gas Co., New Jersey, USA. Name changed to HOPE CREEK-1 REACTOR in November 1973 because of change in construction site, and more recent material should be so indexed.

USE hope creek-1 reactor

**newbold island-2 reactor**

ETDE: 1976-08-04

Public Service Electric and Gas Co., New Jersey, USA. Name changed to HOPE CREEK-2 REACTOR in November 1973 because of change in construction site, and more recent material should be so indexed. Canceled in 1981 before construction began.

USE hope creek-2 reactor

**newborns**

2000-03-28

SEE infants

SEE neonates

**NEWCASTLE DISEASE**

\*BT1 viral diseases

RT birds

RT viruses

**NEWFOUNDLAND**

\*BT1 canada

BT1 islands

RT atlantic ocean

**newton mechanics**

USE classical mechanics

**NEWTON-METAL**

2000-04-12

\*BT1 bismuth base alloys

\*BT1 lead alloys

\*BT1 tin alloys

**NEWTON METHOD**

INIS: 1978-08-30; ETDE: 1976-02-19

\*BT1 iterative methods

RT mathematics

RT numerical solution

RT polynomials

**newts**

USE salamanders

**next european torus**

1986-02-28

USE net tokamak

**ngl**

INIS: 2000-04-12; ETDE: 1976-02-20

USE natural gas liquids

**NHR-5 REACTOR**

2000-12-27

Tsinghua Univ., Beijing, China.

UF thr reactor

\*BT1 enriched uranium reactors

\*BT1 process heat reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**NI-HARD**

2000-04-12

\*BT1 chromium alloys

\*BT1 iron alloys

\*BT1 iron carbides

\*BT1 manganese additions

\*BT1 nickel alloys

\*BT1 silicon additions

\*BT1 sulfur additions

**NI-O-NEL**

2000-04-12

\*BT1 chromium alloys

\*BT1 copper alloys

\*BT1 molybdenum alloys

\*BT1 nickel alloys

\*BT1 titanium alloys

**niacin**

INIS: 1976-02-05; ETDE: 2002-04-16

USE nicotinic acid

**NIAGARA RIVER**

INIS: 1992-06-04; ETDE: 1983-03-07

\*BT1 rivers

RT new york

**NICA BM@N DETECTOR**

2018-04-20

Baryonic Matter at Nuclotron (BM@N)

UF baryonic matter at the nuclotron

UF baryonic matter detector

RT jinr nuclotron

RT nica collider

**NICA COLLIDER**

2018-04-18

Relativistic heavy ion collider; Nuclotron-based ion collider facility

\*BT1 cyclic accelerators

\*BT1 heavy ion accelerators

RT jinr nuclotron

RT nica bm@n detector

RT nica mpd detector

RT nica spd detector

**NICA MPD DETECTOR**

2018-04-20

MultiPurpose Detector (MPD)

UF multi-purpose detector

RT four-pi detectors

RT heavy ion reactions

RT jinr nuclotron

RT nica collider

**NICA SPD DETECTOR**

2018-04-20

Spin Physics Detector (SPD) to study the nucleon spin structure and polarization phenomena

UF spin physics detector

RT jinr nuclotron

RT nica collider

**NICARAGUA**

1997-06-17

\*BT1 central america

BT1 developing countries

RT momotombo geothermal field

**NICHROME**

1993-10-03

\*BT1 alloy-ni60fe24cr16

**nichrome v**

INIS: 1983-11-07; ETDE: 2002-04-16

USE alloy-ni80cr20

**NICKEL**

\*BT1 transition elements

RT black nickel

RT td-nickel

**NICKEL 48**

2007-03-14

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

**NICKEL 49**

INIS: 2001-05-23; ETDE: 2001-04-30

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nickel isotopes

**NICKEL 50**

2002-08-13

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nickel isotopes

**NICKEL 51**

2007-03-14

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

**NICKEL 52**

INIS: 1996-06-17; ETDE: 1996-05-31

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei



- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nickel isotopes

**NICKEL 53**

*INIS: 1976-05-05; ETDE: 1976-08-24*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nickel isotopes

**NICKEL 54**

*1978-02-23*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 55**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nickel isotopes

**NICKEL 56**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 56 TARGET**

*INIS: 1992-09-23; ETDE: 1981-11-24*  
BT1 targets

**NICKEL 57**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 57 TARGET**

*INIS: 1985-12-10; ETDE: 1979-07-24*  
BT1 targets

**NICKEL 58**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 stable isotopes
- RT* nickel 58 reactions

**NICKEL 58 BEAMS**

*INIS: 1976-10-07; ETDE: 1976-11-01*  
\*BT1 ion beams

**NICKEL 58 REACTIONS**

- \*BT1 heavy ion reactions
- RT* nickel 58

**NICKEL 58 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**NICKEL 59**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 years living radioisotopes

**NICKEL 59 REACTIONS**

*INIS: 1984-06-21; ETDE: 1984-07-10*  
\*BT1 heavy ion reactions

**NICKEL 59 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**NICKEL 60**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 stable isotopes

**NICKEL 60 BEAMS**

*INIS: 1979-01-18; ETDE: 1979-02-23*  
\*BT1 ion beams

**NICKEL 60 REACTIONS**

*INIS: 1976-10-07; ETDE: 1976-11-01*  
\*BT1 heavy ion reactions

**NICKEL 60 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**NICKEL 61**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 stable isotopes

**NICKEL 61 REACTIONS**

*INIS: 1986-12-09; ETDE: 1987-02-24*  
\*BT1 heavy ion reactions

**NICKEL 61 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**NICKEL 62**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 stable isotopes

**NICKEL 62 REACTIONS**

*1995-03-23*  
\*BT1 heavy ion reactions

**NICKEL 62 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**NICKEL 63**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 years living radioisotopes

**NICKEL 63 TARGET**

*INIS: 1992-07-06; ETDE: 1992-08-07*  
BT1 targets

**NICKEL 64**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 stable isotopes

**NICKEL 64 REACTIONS**

*INIS: 1978-02-23; ETDE: 1978-04-28*  
\*BT1 heavy ion reactions

**NICKEL 64 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**NICKEL 65**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 66**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 67**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 seconds living radioisotopes

**NICKEL 68**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 69**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 seconds living radioisotopes

**NICKEL 70**

*2005-01-25*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 seconds living radioisotopes

**NICKEL 71**

*INIS: 1990-05-17; ETDE: 1990-06-01*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 nickel isotopes  
\*BT1 seconds living radioisotopes

**NICKEL 72**

*INIS: 1990-05-17; ETDE: 1990-06-01*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 nickel isotopes  
\*BT1 seconds living radioisotopes

**NICKEL 73**

*INIS: 1990-05-17; ETDE: 1990-06-01*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 nickel isotopes

**NICKEL 74**

*INIS: 1990-08-24; ETDE: 1990-09-10*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes

**NICKEL 75**

*2007-03-14*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 nickel isotopes

**NICKEL 76**

*2007-03-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nickel isotopes

**NICKEL 77**

*2007-03-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 78***INIS: 1980-11-28; ETDE: 1981-01-09*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 80***2017-09-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nickel isotopes

**NICKEL ADDITIONS***1996-07-23**Alloys containing not more than 1% Ni are listed here.*

- \*BT1 nickel alloys
- NT1 alloy-zr98sn-2
- NT2 zircaloy 2
- NT1 ounce metal
- NT1 steel-cr12moniv
- NT1 steel-cr2moninb
- NT1 steel-cr2mov
- NT1 steel-cralnimo
- NT1 steel-crmov
- NT1 steel-crmov
- NT1 steel-crni
- NT1 steel-mncumo
- NT2 steel-astm-a537
- NT1 steel-mnnimo
- NT2 steel-astm-a533-b
- NT1 steel-nimocr

**NICKEL ALLOYS***1996-11-13**Alloys containing more than 1% Ni.*

- UF alloy-fe48cr24ni24
- UF alloy-in-519
- UF german silver
- UF in 519
- UF manaurite 900
- UF nickel silver
- UF nitinol
- UF refractaloy
- UF rezistal
- UF stainless steel-44ln
- UF steel-0kh21n5t
- UF steel-0kh22n5t
- UF steel-20n14
- UF steel-astm-a350 (gr 3)
- UF steel-cr21ni5ti
- UF steel-cr22ni5ti
- UF steel-cr26ni5mo-1
- UF steel-din-1-6348
- UF steel-ni3mov
- UF steel-ni4
- UF white copper
- \*BT1 transition element alloys
- NT1 alloy-co36cr22ni22w15fe3
- NT2 haynes 188 alloy
- NT1 alloy-co43cr20fe18ni13w3
- NT2 havar
- NT1 alloy-co54cr20w15ni10
- NT2 alloy-hs-25
- NT2 haynes 25 alloy
- NT1 alloy-co60cr30w4
- NT2 stellite 6
- NT1 alloy-cu52ni47
- NT2 constantan
- NT1 alloy-d-979
- NT1 alloy-fe40ni35cr22
- NT1 alloy-fe44ni33cr21
- NT2 incoloy 800h
- NT1 alloy-fe46ni33cr21
- NT2 incoloy 800
- NT2 incoloy 802
- NT1 alloy-fe53ni29co18
- NT2 kovar

- NT1 alloy-hs-31
- NT1 alloy-mo-re-1
- NT1 alloy-mp35n
- NT1 alloy-n28t3
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-v-36
- NT1 alloy-yundk 25ba
- NT1 alnico alloys
- NT1 ascoloy
- NT1 chromium-nickel steels
- NT2 alloy-d-9
- NT2 carpenter
- NT2 chromium-nickel-molybdenum steels
- NT3 alloy-m-813
- NT3 steel-cr11ni10mo2ti-1
- NT3 steel-cr15ni15motib
- NT3 steel-cr16ni13monbv
- NT3 steel-cr16ni15mo3nb
- NT3 steel-cr16ni16monb
- NT3 steel-cr16ni8mo2
- NT4 stainless steel-16-8-2
- NT3 steel-cr16ni9mo2
- NT3 steel-cr17ni12mo3
- NT4 stainless steel-316
- NT3 steel-cr17ni12mo3-1
- NT4 stainless steel-316l
- NT4 stainless steel-zcnd17-13
- NT3 steel-cr17ni12monb
- NT3 steel-cr17ni13mo2ti
- NT3 steel-cr17ni13mo3ti
- NT3 steel-ni26cr15ti2movalb
- NT4 alloy-a-286
- NT2 durco
- NT2 endure
- NT2 stainless steel-17-7ph
- NT2 stainless steel-303
- NT2 stainless steel-329
- NT2 stainless steel-ph-15-7-mo
- NT2 steel-cr17ni13
- NT2 steel-cr17ni7
- NT3 stainless steel-301
- NT2 steel-cr18ni10
- NT3 stainless steel-18-10
- NT2 steel-cr18ni10-1
- NT2 steel-cr18ni10ti
- NT3 stainless steel-321
- NT2 steel-cr18ni11
- NT3 steel-x6crni1811
- NT2 steel-cr18ni11nb
- NT3 stainless steel-347
- NT2 steel-cr18ni11nbco
- NT3 stainless steel-348
- NT2 steel-cr18ni12
- NT3 stainless steel-305
- NT2 steel-cr18ni12ti
- NT2 steel-cr18ni8
- NT3 stainless steel-18-8
- NT2 steel-cr18ni9
- NT3 stainless steel-302
- NT2 steel-cr18ni9ti
- NT2 steel-cr19ni10
- NT3 stainless steel-304
- NT2 steel-cr19ni10-1
- NT3 stainless steel-304l
- NT2 steel-cr20ni11
- NT3 stainless steel-308
- NT2 steel-cr20ni11-1
- NT3 stainless steel-308l
- NT2 steel-cr23ni14
- NT3 stainless steel-309
- NT3 stainless steel-309s
- NT2 steel-cr23ni18
- NT2 steel-cr25ni20
- NT3 alloy-hk-40
- NT3 stainless steel-310
- NT2 steel-ni25cr20
- NT3 stainless steel-20-25
- NT2 steel-ni36cr12ti3al-1
- NT2 timken alloys
- NT1 cunico
- NT1 discaloy
- NT1 invar
- NT1 manganin
- NT1 misco metal
- NT1 ni-hard
- NT1 ni-o-nel
- NT1 nickel additions
- NT2 alloy-zr98sn-2
- NT3 zircaloy 2
- NT2 ounce metal
- NT2 steel-cr12moniv
- NT2 steel-cr2moninb
- NT2 steel-cr2mov
- NT2 steel-cralnimo
- NT2 steel-crmov
- NT2 steel-crmov
- NT2 steel-crni
- NT2 steel-mncumo
- NT3 steel-astm-a537
- NT2 steel-mnnimo
- NT3 steel-astm-a533-b
- NT2 steel-nimocr
- NT1 nickel base alloys
- NT2 alloy-b-1900
- NT2 alloy-in-102
- NT2 alloy-in-853
- NT2 alloy-mar-m246
- NT2 alloy-mn-21
- NT2 alloy-mo-re-2
- NT2 alloy-ni43fe30cr22mo3
- NT3 incoloy 825
- NT2 alloy-ni45fe34cr20
- NT2 alloy-ni50mo32cr15si3
- NT2 alloy-ni55co17cr15mo5al4ti4
- NT3 astroloy
- NT2 alloy-ni55cr19co11mo10ti3
- NT3 rene 41
- NT2 alloy-ni58cr20co14mo4ti3
- NT3 waspaloy
- NT2 alloy-ni77cr20ti2
- NT2 alloy-ni78cr21
- NT2 alloy-ni79fe16mo4
- NT2 alloy-ni94mn3al2
- NT3 alumel
- NT2 alloy-nx-188
- NT2 alloy-ra-333
- NT2 chlorimet
- NT2 chromel
- NT3 alloy-ni60fe24cr16
- NT4 nichrome
- NT3 alloy-ni80cr20
- NT2 colmonoy
- NT2 duranickel
- NT2 hastelloys
- NT3 alloy-ni49cr22fe18mo9
- NT4 hastelloy x
- NT3 alloy-ni50cr22fe18mo9
- NT4 hastelloy xr
- NT3 alloy-ni54mo17cr16fe6w4
- NT4 hastelloy c
- NT3 alloy-ni62cr16mo15fe3
- NT4 hastelloy s
- NT3 alloy-ni65mo28fe5
- NT4 hastelloy b
- NT3 alloy-ni70mo17cr7fe5
- NT4 hastelloy n
- NT4 inor-8
- NT2 illium
- NT2 incoloy 901
- NT2 inconel alloys
- NT3 alloy-ni41fe40cr16nb3
- NT4 inconel 706
- NT3 alloy-ni46cr23co19ti5al4
- NT4 alloy-in-939
- NT3 alloy-ni51cr48
- NT4 inconel 671

**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni61cr23fe14  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713c  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** inconel 700  
**NT3** inconel 738  
**NT3** inconel 739  
**NT2** konel  
**NT2** monel  
**NT3** alloy-ni66cu32  
**NT4** monel 400  
**NT2** microbraz 50  
**NT2** nimonic  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni65cr25mo10  
**NT4** nimonic 86  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** nimonic 115  
**NT3** nimonic 115a  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** td-nickel chromium  
**NT2** tophet  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT1** nickel steels  
**NT2** sweetalloy  
**NT1** nickeline alloy  
**NT1** orthonol  
**NT1** permalloy  
**NT1** stainless steel-jbk-75  
**NT1** steel-cd-4mcs  
**NT1** steel-cr16ni  
**NT1** steel-cr17cu4ni4nb-1  
**NT2** stainless steel-17-4ph  
**NT1** steel-cr17ni4mo3  
**NT1** steel-cr21mn9ni6  
**NT2** stainless steel-21-6-9  
**NT1** steel-cr2nimov  
**NT1** steel-in-787  
**NT1** steel-mnnimov  
**NT1** steel-ni3cr  
**NT1** steel-ni3crmo  
**NT2** steel-astm-a543  
**NT1** steel-ni3cormov  
**NT1** steel-ni4crw  
**NT1** steel-nicr  
**NT1** steel-nicrmo  
**NT1** supertherm

**NICKEL ARSENIDES**

INIS: 1991-09-16; ETDE: 1976-07-07

\*BT1 arsenides

\*BT1 nickel compounds

**NICKEL BASE ALLOYS**

1996-11-27

(A number of the UF terms below have been valid ETDE descriptors.)

UF alloy-79nm

UF alloy-ehi 826

UF alloy-ehi 868

UF alloy-ehp-199

UF alloy-ehp-496

UF alloy-ehp-567

UF alloy-gmr-235

UF alloy-hd-8077

UF alloy-kh20n80t

UF alloy-khn56vmtyu

UF alloy-khn60b

UF alloy-khn60v

UF alloy-khn60vt

UF alloy-khn67vmtyu

UF alloy-khn77tyu

UF alloy-m-252

UF alloy-ma-754

UF alloy-mm-0011

UF alloy-n55m20v25

UF alloy-n65m20v15

UF alloy-ni42fe36cr12mo6ti3

UF alloy-ni45cr23fe19co3mo3w3

UF alloy-ni56cr21w10mo5fe4al2

UF alloy-ni58cr14co8al4mo4nb4w4

UF alloy-ni60cr14co10ti5mo4w4al3

UF alloy-ni60cr25w15

UF alloy-ni65mo16cr15w4

UF alloy-ni67cr19mo5w5ti3

UF alloy-ni68cr15w6al3mo3fe2

UF alloy-ni80fe16mo4

UF alloy-vzh98

UF alloy-waz-16

UF hd 8077

UF ma 754

UF mm-0011

UF permalloy c

UF waz 16

\*BT1 nickel alloys

NT1 alloy-b-1900

NT1 alloy-in-102

NT1 alloy-in-853

NT1 alloy-mar-m246

NT1 alloy-mn-21

NT1 alloy-mo-re-2

NT1 alloy-ni43fe30cr22mo3

NT2 incoloy 825

NT1 alloy-ni45fe34cr20

NT1 alloy-ni50mo32cr15si3

NT1 alloy-ni55co17cr15mo5al4ti4

NT2 astrolloy

NT1 alloy-ni55cr19co11mo10ti3

NT2 rene 41

NT1 alloy-ni58cr20co14mo4ti3

NT2 waspaloy

NT1 alloy-ni77cr20ti2

NT1 alloy-ni78cr21

NT1 alloy-ni79fe16mo4

NT1 alloy-ni94mn3al2

NT2 aludel

NT1 alloy-nx-188

NT1 alloy-ra-333

NT1 chlorimet

NT1 chromel

NT2 alloy-ni60fe24cr16

NT3 nichrome

NT2 alloy-ni80cr20

NT1 colmonoy

NT1 duranickel

NT1 hastelloys

NT2 alloy-ni49cr22fe18mo9

NT3 hastelloy x

NT2 alloy-ni50cr22fe18mo9

NT3 hastelloy xr

NT2 alloy-ni54mo17cr16fe6w4

NT3 hastelloy c

NT2 alloy-ni62cr16mo15fe3

NT3 hastelloy s

NT2 alloy-ni65mo28fe5

NT3 hastelloy b

NT2 alloy-ni70mo17cr7fe5

NT3 hastelloy n

NT3 inor-8

NT1 illium

NT1 incoloy 901

NT1 inconel alloys

NT2 alloy-ni41fe40cr16nb3

NT3 inconel 706

NT2 alloy-ni46cr23co19ti5al4

NT3 alloy-in-939

NT2 alloy-ni51cr48

NT3 inconel 671

NT2 alloy-ni53cr19fe19nb5mo3

NT3 inconel 718

NT2 alloy-ni54cr22co13mo9

NT3 inconel 617

NT2 alloy-ni59cr30fe9

NT3 inconel 690

NT2 alloy-ni60co15cr10al6ti5mo3

NT3 alloy-in-100

NT2 alloy-ni61cr16co9al3ti3w3

NT3 alloy-in-738

NT2 alloy-ni61cr22mo9nb4fe3

NT3 inconel 625

NT2 alloy-ni61cr23fe14

NT2 alloy-ni73cr15fe7ti3

NT3 inconel x750

NT2 alloy-ni73cr20mn3nb3

NT3 inconel 82

NT2 alloy-ni74cr13al6mo4

NT3 inconel 713c

NT2 alloy-ni75cr12al6mo5

NT3 inconel 713c

NT2 alloy-ni76cr15fe8

NT3 inconel 600

NT2 inconel 700

NT2 inconel 738

NT2 inconel 739

NT1 konel

NT1 monel

NT2 alloy-ni66cu32

NT3 monel 400

NT1 microbraz 50

NT1 nimonic

NT2 alloy-ni43fe33cr16mo3

NT3 nimonic pe16

NT2 alloy-ni50co20cr15al5mo5

NT3 nimonic 105

NT2 alloy-ni59cr20co17ti2

NT2 alloy-ni65cr25mo10

NT3 nimonic 86

NT2 alloy-ni76cr15fe8

NT3 inconel 600

NT2 alloy-ni76cr20ti2

NT3 nimonic 80a

NT2 nimonic 115

NT2 nimonic 115a

NT1 rene-100

NT1 rene 80

NT1 rene 95

NT1 td-nickel chromium

NT1 tophet

NT1 udimet alloys

NT2 alloy-ni53co19cr15mo5al4ti3

NT3 udimet 700

NT2 udimet 500

**NICKEL BORIDES**

\*BT1 borides

\*BT1 nickel compounds

**NICKEL BROMIDES**

- \*BT1 bromides
- \*BT1 nickel halides

**NICKEL-CADMIUM BATTERIES**

1992-10-02

- \*BT1 metal-metal oxide batteries

**NICKEL CARBIDES**

- \*BT1 carbides
- \*BT1 nickel compounds

**NICKEL CARBONATES**

- \*BT1 carbonates
- \*BT1 nickel compounds

**NICKEL CHLORIDES**

- \*BT1 chlorides
- \*BT1 nickel halides

***nickel-chromium steels***

1983-11-14

*Steels containing Ni and Cr as main alloying elements; Ni content is higher than Cr content. (Prior to November 1983 this was a valid descriptor, and older material is so indexed.)*

- USE chromium alloys
- USE nickel steels

***nickel chromium-td***

- USE td-nickel chromium

**NICKEL COMPLEXES**

- \*BT1 transition element complexes

**NICKEL COMPOUNDS**

1997-06-17

- BT1 transition element compounds
- NT1 nickel arsenides
- NT1 nickel borides
- NT1 nickel carbides
- NT1 nickel carbonates
- NT1 nickel halides
- NT2 nickel bromides
- NT2 nickel chlorides
- NT2 nickel fluorides
- NT2 nickel iodides
- NT1 nickel hydrides
- NT1 nickel hydroxides
- NT1 nickel nitrates
- NT1 nickel nitrides
- NT1 nickel oxides
- NT1 nickel phosphates
- NT1 nickel phosphides
- NT1 nickel selenides
- NT1 nickel silicates
- NT1 nickel silicides
- NT1 nickel sulfates
- NT1 nickel sulfides
- NT1 nickel tellurides
- NT1 nickel tungstates
- NT1 nickelates

**NICKEL FLUORIDES**

- \*BT1 fluorides
- \*BT1 nickel halides

**NICKEL HALIDES**

2012-07-20

- \*BT1 halides
- \*BT1 nickel compounds
- NT1 nickel bromides
- NT1 nickel chlorides
- NT1 nickel fluorides
- NT1 nickel iodides

**NICKEL HYDRIDES**

- \*BT1 hydrides
- \*BT1 nickel compounds

**NICKEL-HYDROGEN BATTERIES**

1992-05-07

- \*BT1 metal-gas batteries

**NICKEL HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 nickel compounds

**NICKEL IODIDES**

- \*BT1 iodides
- \*BT1 nickel halides

**NICKEL IONS**

- \*BT1 ions

***nickel-iron batteries***

INIS: 2000-04-12; ETDE: 1980-10-27

- USE iron-nickel batteries

**NICKEL ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 nickel 48
- NT1 nickel 49
- NT1 nickel 50
- NT1 nickel 51
- NT1 nickel 52
- NT1 nickel 53
- NT1 nickel 54
- NT1 nickel 55
- NT1 nickel 56
- NT1 nickel 57
- NT1 nickel 58
- NT1 nickel 59
- NT1 nickel 60
- NT1 nickel 61
- NT1 nickel 62
- NT1 nickel 63
- NT1 nickel 64
- NT1 nickel 65
- NT1 nickel 66
- NT1 nickel 67
- NT1 nickel 68
- NT1 nickel 69
- NT1 nickel 70
- NT1 nickel 71
- NT1 nickel 72
- NT1 nickel 73
- NT1 nickel 75
- NT1 nickel 76
- NT1 nickel 77
- NT1 nickel 78
- NT1 nickel 80

**NICKEL NITRATES**

- \*BT1 nickel compounds
- \*BT1 nitrates

**NICKEL NITRIDES**

- \*BT1 nickel compounds
- \*BT1 nitrides

**NICKEL ORES**

- BT1 ores

**NICKEL OXIDES**

- \*BT1 nickel compounds
- \*BT1 oxides
- RT nickelates

**NICKEL PHOSPHATES**

- \*BT1 nickel compounds
- \*BT1 phosphates

**NICKEL PHOSPHIDES**

INIS: 1976-01-27; ETDE: 1975-10-01

- \*BT1 nickel compounds
- \*BT1 phosphides

**NICKEL SELENIDES**

INIS: 1991-09-16; ETDE: 1976-12-15

- \*BT1 nickel compounds
- \*BT1 selenides

**NICKEL SILICATES**

- \*BT1 nickel compounds
- \*BT1 silicates

**NICKEL SILICIDES**

INIS: 1976-01-27; ETDE: 1975-10-28

- \*BT1 nickel compounds
- \*BT1 silicides

***nickel silver***

1996-06-28

(Prior to July 1996 GERMAN SILVER was a valid ETDE descriptor.)

- USE copper base alloys
- USE nickel alloys
- USE zinc alloys

**NICKEL STEELS**

1994-07-01

*Steels containing Ni as the main alloying element.*

(Until June 1994 this concept was indexed to NICKEL ALLOYS.)

- UF *nickel-chromium steels*
- UF *steel-000kh20n20*
- UF *steel-1-kh18n20t3p*
- UF *steel-30m9k4*
- UF *steel-37khn3t*
- UF *steel-40kh2n5sm*
- UF *steel-kh12n20t3p*
- UF *steel-kh18n22v2t2*
- UF *steel-khn35vt*
- UF *steel-n26kht1*
- UF *steel-vzh102*
- \*BT1 nickel alloys
- \*BT1 steels
- NT1 sweetalloy
- RT chromium-nickel steels

**NICKEL SULFATES**

- \*BT1 nickel compounds
- \*BT1 sulfates

**NICKEL SULFIDES**

- \*BT1 nickel compounds
- \*BT1 sulfides

**NICKEL TELLURIDES**

INIS: 1984-07-23; ETDE: 1980-02-11

- \*BT1 nickel compounds
- \*BT1 tellurides

***nickel-thorium oxide dispersions***

INIS: 2000-04-12; ETDE: 1979-04-11

- USE td-nickel

**NICKEL TUNGSTATES**

INIS: 2000-04-12; ETDE: 1976-06-07

- \*BT1 nickel compounds
- \*BT1 tungstates

**NICKEL-ZINC BATTERIES**

2000-04-12

- \*BT1 metal-metal oxide batteries

**NICKELATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 nickel compounds
- BT1 oxygen compounds
- RT nickel oxides

**NICKELINE ALLOY**

2000-04-12

- \*BT1 copper base alloys
- \*BT1 nickel alloys
- \*BT1 zinc additions

**NICOTIANA**

- UF *tobacco plant*

- \*BT1 magnoliopsida
- RT tobacco
- RT tobacco products

**NICOTINAMIDE**

- UF *pp-factor*
- UF *vitamin pp*
- \*BT1 amides
- \*BT1 pyridines
- \*BT1 vitamin b group
- RT heterocyclic acids
- RT nad
- RT nadh2
- RT nadp
- RT nicotinic acid

**nicotinamide-adenine dinucleotide**

- 1995-02-16
- USE nad

**nicotinamide-adenine dinucleotide phosphate**

- INIS: 1995-02-16; ETDE: 1980-06-22
- USE nadp

**NICOTINE**

- \*BT1 alkaloids
- \*BT1 parasympholytics
- \*BT1 parasymphomimetics
- \*BT1 pyridines
- \*BT1 pyrrolidines

**NICOTINIC ACID**

- 1976-02-05
- UF *niacin*
- \*BT1 heterocyclic acids
- \*BT1 monocarboxylic acids
- \*BT1 pyridines
- \*BT1 vitamin b group
- RT nicotinamide

**NICROBRAZ 50**

- 2000-04-12
- \*BT1 chromium alloys
- \*BT1 nickel base alloys
- \*BT1 phosphides

**NIEDERAICHBACH REACTOR**

- UF *kernkraftwerk niederachbach*
- UF *kkn reactor*
- \*BT1 carbon dioxide cooled reactors
- \*BT1 enriched uranium reactors
- \*BT1 hwgcr type reactors
- \*BT1 pressure tube reactors
- \*BT1 thermal reactors

**niels bohr institute cyclotron**

- INIS: 1985-06-10; ETDE: 1985-07-19
- USE nbi cyclotron

**nif**

- INIS: 2000-04-12; ETDE: 1997-05-21
- Facility for inertial confinement fusion.
- USE us national ignition facility

**nigella**

- USE ranunculaceae

**NIGER**

- BT1 africa
- BT1 developing countries
- RT niger river

**NIGER RIVER**

- INIS: 1976-07-06; ETDE: 1976-08-24
- \*BT1 rivers
- RT benin
- RT guinea
- RT mali
- RT niger
- RT nigeria

**NIGERIA**

- BT1 africa
- BT1 developing countries
- RT niger river
- RT opec

**nigeria miniature neutron source reactor**

- 2004-11-30
- USE nirr-1 reactor

**NIGHT SKY**

- INIS: 1990-12-15; ETDE: 1981-09-08
- (Prior to December 1990, this concept was indexed by NIGHTTIME plus other descriptors from the wordblock EARTH ATMOSPHERE.)

- UF *nighttime (sky)*
- BT1 sky
- RT airglow
- RT aurorae

**nightglow**

- USE airglow

**nighttime (sky)**

- INIS: 1990-12-15; ETDE: 2002-04-16
- USE night sky

**NIHONIUM**

- 2017-04-11
- Prior to March 2017 ELEMENT 113 was used for this element.
- UF *eka-thallium*
- UF *element 113*
- UF *ununtrium*
- \*BT1 transactinide elements

**NIHONIUM 278**

- 2017-04-11
- Prior to March 2017 ELEMENT 113 278 was used for this concept.
- UF *element 113 278*
- \*BT1 alpha decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 nihonium isotopes
- \*BT1 odd-odd nuclei

**NIHONIUM 283**

- 2017-04-11
- Prior to March 2017 ELEMENT 113 283 was used for this concept.
- UF *element 113 283*
- \*BT1 alpha decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nihonium isotopes
- \*BT1 odd-even nuclei

**NIHONIUM 284**

- 2017-04-11
- Prior to March 2017 ELEMENT 113 284 was used for this concept.
- UF *element 113 284*
- \*BT1 alpha decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nihonium isotopes
- \*BT1 odd-even nuclei

**NIHONIUM COMPOUNDS**

- 2017-04-11
- Prior to March 2017 ELEMENT 113 COMPOUNDS was used for this concept.
- UF *element 113 compounds*
- \*BT1 transactinide compounds

**NIHONIUM IONS**

- 2018-01-24
- \*BT1 ions

**NIHONIUM ISOTOPES**

- 2017-04-11
- Prior to March 2017 ELEMENT 113 ISOTOPES was used for this concept.
- UF *element 113 isotopes*
- BT1 isotopes
- NT1 nihonium 278
- NT1 nihonium 283
- NT1 nihonium 284

**nii (uk)**

- INIS: 1984-04-04; ETDE: 2002-04-16
- Nuclear Installations Inspectorate.
- USE uk nii

**NIKHEF**

- INIS: 1977-07-05; ETDE: 1977-10-19
- National Instituut voor Kernfysica en Hoge-energiefysica.
- UF *national instituut voor kernfysica en hogeenergiefysica*
- \*BT1 netherlands organizations

**NILE RIVER**

- \*BT1 rivers
- RT egyptian arab republic
- RT sudan

**nilsson model**

- USE nilsson-mottelson model

**NILSSON-MOTTELSON MODEL**

- UF *approximation (bohr)*
- UF *bohr approximation*
- UF *bohr-mottelson model*
- UF *mottelson-nilsson model*
- UF *nilsson model*
- UF *nilsson potential*
- UF *nilsson scheme*
- \*BT1 nuclear models

**nilsson potential**

- USE nilsson-mottelson model

**nilsson scheme**

- USE nilsson-mottelson model

**nim**

- USE nuclear instrument modules

**NIMBUS SATELLITES**

- INIS: 1983-09-06; ETDE: 1980-03-04
- BT1 satellites

**NIMONIC**

- 1996-07-16
- For unspecified Nimonic alloys.

- UF *alloy-ni48cr22fe18mo9*
- UF *nimonic pe13*
- \*BT1 nickel base alloys
- NT1 alloy-ni43fe33cr16mo3
- NT2 nimonic pe16
- NT1 alloy-ni50co20cr15al5mo5
- NT2 nimonic 105
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni65cr25mo10
- NT2 nimonic 86
- NT1 alloy-ni76cr15fe8
- NT2 inconel 600
- NT1 alloy-ni76cr20ti2
- NT2 nimonic 80a
- NT1 nimonic 115
- NT1 nimonic 115a
- RT inconel alloys

**NIMONIC 105**

- 1993-10-03
- \*BT1 alloy-ni50co20cr15al5mo5

**NIMONIC 115**

- 2000-04-12
- \*BT1 aluminium alloys

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 molybdenum alloys
- \*BT1 nimonic

**NIMONIC 115A**

2000-04-12

- \*BT1 nimonic

**NIMONIC 80A**

1993-10-03

- \*BT1 alloy-ni76cr20ti2

**NIMONIC 86**

INIS: 1993-10-03; ETDE: 1982-02-23

- \*BT1 alloy-ni65cr25mo10

**nimonic 90**

INIS: 1997-01-28; ETDE: 1977-06-03

(Until October 1996 this was a valid descriptor.)

- USE alloy-ni59cr20co17ti2

**nimonic pe13**

INIS: 1996-07-17; ETDE: 1979-10-23

(Until July 1996 this was a valid descriptor.)

- USE nimonic

**NIMONIC PE16**

1993-10-03

- \*BT1 alloy-ni43fe33cr16mo3

**NIMROD**

UF harwell synchrotron

- \*BT1 synchrotrons

**NINA**

UF daresbury synchrotron

- \*BT1 synchrotrons

**NINE MILE POINT-1 REACTOR**

NMPNS - a subsidiary of Constellation

Energy Group, North Scriba, New York, USA.

UF scriba nuclear power plant

- \*BT1 bwr type reactors

**NINE MILE POINT-2 REACTOR**

NMPNS - a subsidiary of Constellation

Energy Group, North Scriba, New York, USA.

UF oswego nuclear power plant

- \*BT1 bwr type reactors

**NINGDE-1 REACTOR**

2015-05-19

Ningde, China

- \*BT1 pwr type reactors

**NINGDE-2 REACTOR**

2015-05-19

Ningde, China

- \*BT1 pwr type reactors

**NINGDE-3 REACTOR**

2015-05-19

Ningde, China

- \*BT1 pwr type reactors

**NINGDE-4 REACTOR**

2017-10-16

Ningde, China

- \*BT1 pwr type reactors

**NINGYOITE**

- \*BT1 phosphate minerals
- \*BT1 uranium minerals

RT uranium phosphates

**ninhydrin**

1996-10-23

(Until October 1996 this was a valid descriptor.)

- USE ketones

**NIOBATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 niobium compounds
- BT1 oxygen compounds

**NIOBIUM**

UF columbium

- \*BT1 refractory metals
- \*BT1 transition elements
- NT1 niobium-alpha
- NT1 niobium-beta

**NIOBIUM 100**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 101**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 102**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 103**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 104**

INIS: 1976-11-08; ETDE: 1976-09-15

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 105**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 106**

INIS: 1981-08-18; ETDE: 1980-10-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 107**

2007-04-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIOBIUM 108**

1996-11-27

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei

**NIOBIUM 109**

2007-04-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIOBIUM 110**

2007-04-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei

**NIOBIUM 111**

2007-04-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIOBIUM 112**

2007-04-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei

**NIOBIUM 113**

2007-04-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIOBIUM 81**

2007-04-19

- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIOBIUM 82**

2007-04-19

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei

**NIOBIUM 83**

1988-10-10

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 84**

1977-11-02

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 85**

INIS: 1997-02-07; ETDE: 1980-05-06

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 86**

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei

**NIOBIUM 87**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIOBIUM 88**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei

**NIOBIUM 89**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIOBIUM 90**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 91**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**NIOBIUM 91 TARGET**

*INIS: 1992-09-23; ETDE: 1977-03-04*  
BT1 targets

**NIOBIUM 92**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**NIOBIUM 92 TARGET**

*INIS: 1988-05-13; ETDE: 1983-03-23*  
BT1 targets

**NIOBIUM 93**

- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes
- RT niobium 93 reactions

**NIOBIUM 93 REACTIONS**

*INIS: 1976-01-28; ETDE: 1976-03-12*  
\*BT1 heavy ion reactions  
RT niobium 93

**NIOBIUM 93 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**NIOBIUM 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**NIOBIUM 94 TARGET**

*INIS: 1976-10-07; ETDE: 1976-11-01*  
BT1 targets

**NIOBIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIOBIUM 95 TARGET**

*INIS: 1979-11-02; ETDE: 1979-01-30*  
BT1 targets

**NIOBIUM 96**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei

**NIOBIUM 96 TARGET**

*INIS: 1976-10-07; ETDE: 1976-11-01*  
BT1 targets

**NIOBIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM ADDITIONS**

*1996-11-13*  
*Alloys containing not more than 1% Nb are listed here.*

- \*BT1 niobium alloys
- NT1 alloy-ni45fe34cr20
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni73cr15fe7ti3
- NT2 inconel x750
- NT1 alloy-yundk 25ba
- NT1 steel-cr16ni13monbv
- NT1 steel-cr16ni15mo3nb
- NT1 steel-cr16ni16monb

- NT1 steel-cr17cu4ni4nb-1
- NT2 stainless steel-17-4ph
- NT1 steel-cr17ni12monb
- NT1 steel-cr18ni11nb
- NT2 stainless steel-347
- NT1 steel-cr18ni11nbco
- NT2 stainless steel-348
- NT1 steel-cr2moninb
- NT1 steel-cr9monbv

**NIOBIUM ALLOYS**

*1996-11-13*  
*Alloys containing more than 1% Nb.*

- UF alloy-fe48cr24ni24
- UF alloy-in-519
- UF in 519
- \*BT1 transition element alloys
- NT1 alloy-in-102
- NT1 alloy-khn50mbvyu
- NT1 alloy-mn-21
- NT1 alloy-ni41fe40cr16nb3
- NT2 inconel 706
- NT1 alloy-ni53cr19fe19nb5mo3
- NT2 inconel 718
- NT1 alloy-ni61cr22mo9nb4fe3
- NT2 inconel 625
- NT1 alloy-ni73cr20mn3nb3
- NT2 inconel 82
- NT1 alloy-ni74cr13al6mo4
- NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
- NT2 inconel 713lc
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-u90nb7zr3
- NT1 alloy-v-36
- NT1 alloy-zr97nb3
- NT1 niobium additions
- NT2 alloy-ni45fe34cr20
- NT2 alloy-ni46cr23co19ti5al4
- NT3 alloy-in-939
- NT2 alloy-ni61cr16co9al3ti3w3
- NT3 alloy-in-738
- NT2 alloy-ni73cr15fe7ti3
- NT3 inconel x750
- NT2 alloy-yundk 25ba
- NT2 steel-cr16ni13monbv
- NT2 steel-cr16ni15mo3nb
- NT2 steel-cr16ni16monb
- NT2 steel-cr17cu4ni4nb-1
- NT3 stainless steel-17-4ph
- NT2 steel-cr17ni12monb
- NT2 steel-cr18ni11nb
- NT3 stainless steel-347
- NT2 steel-cr18ni11nbco
- NT3 stainless steel-348
- NT2 steel-cr2moninb
- NT2 steel-cr9monbv
- NT1 niobium base alloys
- NT2 alloy-c-103
- NT2 alloy-n-10m
- NT2 alloy-n-9m
- NT2 alloy-nt25a5
- NT1 rene 95
- NT1 steel-in-787

**NIOBIUM-ALPHA**

- \*BT1 niobium

**NIOBIUM ARSENIDES**

*INIS: 1982-08-27; ETDE: 1982-05-24*  
\*BT1 arsenides  
\*BT1 niobium compounds

**NIOBIUM BASE ALLOYS**

*1996-07-16*  
UF alloy-b-66  
UF alloy-b-88  
UF alloy-c-129y  
UF alloy-cb-1

*UF alloy-cb-752*  
*UF alloy-d-43*  
*UF alloy-dh-245*  
*UF alloy-fs-85*  
*UF alloy-su31*  
*UF alloy-vus-6*  
*SF alloy-vn-3*  
 \*BT1 niobium alloys  
 NT1 alloy-c-103  
 NT1 alloy-n-10m  
 NT1 alloy-n-9m  
 NT1 alloy-nt25a5

**NIObIUM-BETA**

\*BT1 niobium

**NIObIUM BORIDES**

\*BT1 borides  
 \*BT1 niobium compounds

**NIObIUM BROMIDES**

\*BT1 bromides  
 \*BT1 niobium compounds  
 \*BT1 niobium halides

**NIObIUM CARBIDES**

\*BT1 carbides  
 \*BT1 niobium compounds

**NIObIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 niobium compounds  
 \*BT1 niobium halides

**NIObIUM COMPLEXES**

\*BT1 transition element complexes

**NIObIUM COMPOUNDS**

*1997-06-17*

BT1 refractory metal compounds  
 BT1 transition element compounds  
 NT1 niobates  
 NT1 niobium arsenides  
 NT1 niobium borides  
 NT1 niobium bromides  
 NT1 niobium carbides  
 NT1 niobium chlorides  
 NT1 niobium fluorides  
 NT1 niobium halides  
   NT2 niobium bromides  
   NT2 niobium chlorides  
   NT2 niobium fluorides  
   NT2 niobium iodides  
 NT1 niobium hydrides  
 NT1 niobium hydroxides  
 NT1 niobium iodides  
 NT1 niobium nitrates  
 NT1 niobium nitrides  
 NT1 niobium oxides  
 NT1 niobium phosphates  
 NT1 niobium phosphides  
 NT1 niobium selenides  
 NT1 niobium silicates  
 NT1 niobium silicides  
 NT1 niobium sulfates  
 NT1 niobium sulfides  
 NT1 niobium tellurides

**NIObIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 niobium compounds  
 \*BT1 niobium halides

**NIObIUM HALIDES**

*2012-07-20*

\*BT1 halides  
 \*BT1 niobium compounds  
 NT1 niobium bromides  
 NT1 niobium chlorides  
 NT1 niobium fluorides  
 NT1 niobium iodides

**NIObIUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 niobium compounds

**NIObIUM HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 niobium compounds

**NIObIUM IODIDES**

\*BT1 iodides  
 \*BT1 niobium compounds  
 \*BT1 niobium halides

**NIObIUM IONS**

\*BT1 ions

**NIObIUM ISOTOPES**

*1999-07-16*

BT1 isotopes  
 NT1 niobium 100  
 NT1 niobium 101  
 NT1 niobium 102  
 NT1 niobium 103  
 NT1 niobium 104  
 NT1 niobium 105  
 NT1 niobium 106  
 NT1 niobium 107  
 NT1 niobium 108  
 NT1 niobium 109  
 NT1 niobium 110  
 NT1 niobium 111  
 NT1 niobium 112  
 NT1 niobium 113  
 NT1 niobium 81  
 NT1 niobium 82  
 NT1 niobium 83  
 NT1 niobium 84  
 NT1 niobium 85  
 NT1 niobium 86  
 NT1 niobium 87  
 NT1 niobium 88  
 NT1 niobium 89  
 NT1 niobium 90  
 NT1 niobium 91  
 NT1 niobium 92  
 NT1 niobium 93  
 NT1 niobium 94  
 NT1 niobium 95  
 NT1 niobium 96  
 NT1 niobium 97  
 NT1 niobium 98  
 NT1 niobium 99

**NIObIUM NITRATES**

\*BT1 niobium compounds  
 \*BT1 nitrates

**NIObIUM NITRIDES**

\*BT1 niobium compounds  
 \*BT1 nitrides

**NIObIUM ORES**

BT1 ores

**NIObIUM OXIDES**

*1996-06-28*

\*BT1 niobium compounds  
 \*BT1 oxides  
*RT ellsworthite*  
*RT lyndochite*  
*RT marignacite*  
*RT oxide minerals*  
*RT tapiolite*

**NIObIUM PHOSPHATES**

\*BT1 niobium compounds  
 \*BT1 phosphates

**NIObIUM PHOSPHIDES**

*INIS: 2000-04-12; ETDE: 1976-09-14*

\*BT1 niobium compounds  
 \*BT1 phosphides

**NIObIUM SELENIDES**

\*BT1 niobium compounds  
 \*BT1 selenides

**NIObIUM SILICATES**

\*BT1 niobium compounds  
 \*BT1 silicates  
*RT mesodialyte*  
*RT silicate minerals*

**NIObIUM SILICIDES**

*1976-01-27*

\*BT1 niobium compounds  
 \*BT1 silicides

**NIObIUM SULFATES**

\*BT1 niobium compounds  
 \*BT1 sulfates

**NIObIUM SULFIDES**

\*BT1 niobium compounds  
 \*BT1 sulfides

**NIObIUM TELLURIDES**

*INIS: 1979-05-28; ETDE: 1975-11-11*

\*BT1 niobium compounds  
 \*BT1 tellurides

**niosh**

*INIS: 2000-04-12; ETDE: 1980-03-29*  
 (Prior to January 1992 this was a valid ETDE descriptor.)  
 USE us niosh

**niper**

*INIS: 2000-04-12; ETDE: 1984-05-08*  
 (Prior to November 1991 this was a valid ETDE descriptor.)  
 USE us niper

**nippostrongylus**

*1997-01-28*  
 (Until October 1996 this was a valid descriptor.)  
 USE hookworm

**NIRR-1 REACTOR**

*2004-11-30*  
*Centre for Energy Research and Training (CERT), Ahmadu Bello Univ., Energy Commission, Zaria, Nigeria.*  
*UF nigeria miniature neutron source reactor*  
 \*BT1 mnsr type reactors

**NIRS CYCLOTRON**

*INIS: 1979-12-20; ETDE: 1980-01-24*  
*Installed at the National Institute of Radiological Science in Japan.*  
*UF national institute of radiological science cyclotron*  
 \*BT1 isochronous cyclotrons

**NISUS FACILITY**

*London, United Kingdom.*  
*UF neutron international standard neutron source*  
*UF neutron international standard uranium source*  
 \*BT1 reactor neutron source facilities  
*RT calibration standards*  
*RT fast neutrons*  
*RT measuring instruments*

**NITELLA**

\*BT1 chlorophycota



**nitinol**

INIS: 2000-04-12; ETDE: 1976-08-25

Shape memory alloys of Ti and Ni. Use the descriptors below and SHAPE MEMORY EFFECT, if relevant.

(Prior to May 1996 this was a valid ETDE descriptor.)

- USE nickel alloys
- USE titanium alloys

**NITINOL HEAT ENGINES**

INIS: 2000-04-12; ETDE: 1975-11-11

Heat engines with the thermo-mechanical converter consisting of a solid-state system incorporating the shape memory intermetallic nickel titanium compound called nitinol as their working fluid.

- \*BT1 heat engines
- RT shape memory effect
- RT solar heat engines

**NITRATES**

1997-06-19

- BT1 nitrogen compounds
- BT1 oxygen compounds
- NT1 aluminium nitrates
- NT1 americium nitrates
- NT1 ammonium nitrates
- NT1 barium nitrates
- NT1 berkelium nitrates
- NT1 beryllium nitrates
- NT1 bismuth nitrates
- NT1 cadmium nitrates
- NT1 calcium nitrates
- NT1 californium nitrates
- NT1 cerium nitrates
- NT1 cesium nitrates
- NT1 chlorine nitrates
- NT1 chromium nitrates
- NT1 cobalt nitrates
- NT1 copper nitrates
- NT1 curium nitrates
- NT1 dysprosium nitrates
- NT1 einsteinium nitrates
- NT1 erbium nitrates
- NT1 europium nitrates
- NT1 gadolinium nitrates
- NT1 gallium nitrates
- NT1 hafnium nitrates
- NT1 holmium nitrates
- NT1 hydrogen nitrates
- NT1 indium nitrates
- NT1 iron nitrates
- NT1 lanthanum nitrates
- NT1 lead nitrates
- NT1 lithium nitrates
- NT1 lutetium nitrates
- NT1 magnesium nitrates
- NT1 manganese nitrates
- NT1 mercury nitrates
- NT1 molybdenum nitrates
- NT1 neodymium nitrates
- NT1 neptunium nitrates
- NT1 nickel nitrates
- NT1 niobium nitrates
- NT1 palladium nitrates
- NT1 peroxyacetyl nitrate
- NT1 petn
- NT1 plutonium nitrates
- NT1 polonium nitrates
- NT1 potassium nitrates
- NT1 praseodymium nitrates
- NT1 promethium nitrates
- NT1 protactinium nitrates
- NT1 radium nitrates
- NT1 rhodium nitrates
- NT1 rubidium nitrates
- NT1 ruthenium nitrates
- NT1 samarium nitrates

- NT1 scandium nitrates
- NT1 silver nitrates
- NT1 sodium nitrates
- NT1 strontium nitrates
- NT1 tellurium nitrates
- NT1 terbium nitrates
- NT1 thallium nitrates
- NT1 thorium nitrates
- NT1 thulium nitrates
- NT1 titanium nitrates
- NT1 uranium nitrates
- NT1 uranyl nitrates
- NT2 unh
- NT1 vanadium nitrates
- NT1 ytterbium nitrates
- NT1 yttrium nitrates
- NT1 zinc nitrates
- NT1 zirconium nitrates
- RT oxynitrates

**NITRATION**

INIS: 1978-07-03; ETDE: 1976-02-19

- BT1 chemical reactions
- RT nitro compounds
- RT nitrogen

**NITRIC ACID**

Prior to August 2012 the concept "hydrogen nitrates" was indexed here.

- \*BT1 inorganic acids
- BT1 nitrogen compounds
- BT1 oxygen compounds
- RT aqua regia
- RT denitration
- RT hydrogen nitrates

**NITRIC ACID ESTERS**

- UF methyl nitrate
- \*BT1 esters
- NT1 nitrocellulose
- NT1 nitroglycerin
- NT1 peroxyacetyl nitrate
- NT1 petn

**NITRIC OXIDE**

INIS: 1984-04-04; ETDE: 1976-01-07

- NO.
- \*BT1 nitrogen oxides

**NITRIDATION**

- BT1 chemical reactions
- RT nitrides

**NITRIDES**

1997-06-19

- BT1 nitrogen compounds
- BT1 pnictides
- NT1 aluminium nitrides
- NT1 americium nitrides
- NT1 argon nitrides
- NT1 barium nitrides
- NT1 berkelium nitrides
- NT1 beryllium nitrides
- NT1 boron nitrides
- NT1 calcium nitrides
- NT1 californium nitrides
- NT1 carbon nitrides
- NT1 cerium nitrides
- NT1 cesium nitrides
- NT1 chromium nitrides
- NT1 copper nitrides
- NT1 curium nitrides
- NT1 dysprosium nitrides
- NT1 erbium nitrides
- NT1 europium nitrides
- NT1 gadolinium nitrides
- NT1 gallium nitrides
- NT1 germanium nitrides
- NT1 hafnium nitrides
- NT1 holmium nitrides
- NT1 indium nitrides

- NT1 iridium nitrides
- NT1 iron nitrides
- NT1 lanthanum nitrides
- NT1 lead nitrides
- NT1 lithium nitrides
- NT1 magnesium nitrides
- NT1 manganese nitrides
- NT1 molybdenum nitrides
- NT1 neodymium nitrides
- NT1 neptunium nitrides
- NT1 nickel nitrides
- NT1 niobium nitrides
- NT1 osmium nitrides
- NT1 palladium nitrides
- NT1 phosphorus nitrides
- NT1 platinum nitrides
- NT1 plutonium nitrides
- NT1 potassium nitrides
- NT1 praseodymium nitrides
- NT1 radium nitrides
- NT1 rhenium nitrides
- NT1 rhodium nitrides
- NT1 ruthenium nitrides
- NT1 samarium nitrides
- NT1 scandium nitrides
- NT1 silicon nitrides
- NT1 silver nitrides
- NT1 sodium nitrides
- NT1 sulfur nitrides
- NT1 tantalum nitrides
- NT1 terbium nitrides
- NT1 thorium nitrides
- NT1 thulium nitrides
- NT1 tin nitrides
- NT1 titanium nitrides
- NT1 tungsten nitrides
- NT1 uranium nitrides
- NT1 vanadium nitrides
- NT1 ytterbium nitrides
- NT1 yttrium nitrides
- NT1 zinc nitrides
- NT1 zirconium nitrides
- RT carbonitrides
- RT ceramics
- RT nitridation

**NITRIFICATION**

INIS: 2000-05-04; ETDE: 1981-08-04

The oxidation by bacteria of ammonium salts to nitrites and the further oxidation to nitrates under proper conditions of temperature, moisture, and alkalinity.

- BT1 chemical reactions
- RT denitrification
- RT nitrogen
- RT nitrogen compounds
- RT nitrogen cycle
- RT nitrogen fixation

**NITRILES**

- UF polyacrylonitrile
- \*BT1 organic nitrogen compounds
- NT1 acetonitrile
- NT1 acrylonitrile
- NT1 propiolonitrile
- NT1 ttf-icnq
- RT carboxylic acids
- RT isonitriles

**nitrioltriacetic acid**

- USE nta

**NITRITES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

- BT1 nitrogen compounds
- BT1 oxygen compounds
- RT nitrous acid

**NITRO COMPOUNDS**

1996-07-08

UF ndpp

\*BT1 organic nitrogen compounds

NT1 dinitrophenol

NT1 dpph

NT1 metronidazole

NT1 misonidazole

NT1 nitrobenzene

NT1 nitromethane

NT1 nitrophenol

NT1 picric acid

NT1 polycyclic nitro compounds

NT1 tetryl

NT1 tnt

RT nitration

**NITRO-GROUP DEHYDROGENASES**

INIS: 2000-03-29; ETDE: 1981-01-12

Code number 1.7.

(From 1974 till March 1997 URICASE was a valid ETDE descriptor. From June 1984 till March 1997 NITROREDUCTASES was a valid ETDE descriptor.)

UF nitroreductases

UF uricase

\*BT1 oxidoreductases

NT1 nitrogenase

**NITROBENZENE**

\*BT1 nitro compounds

RT benzene

**NITROCELLULOSE**

UF collodion

UF gun cotton

UF pyroxylin

\*BT1 cellulose esters

\*BT1 chemical explosives

\*BT1 nitric acid esters

\*BT1 polysaccharides

RT celluloid

**NITROGEN**

UF nitrogen nitrides

UF tioga nitrogen removal process

\*BT1 nonmetals

RT cryogenic fluids

RT denitrification

RT inert atmosphere

RT kjeldahl method

RT nitration

RT nitrification

RT nitrogen fixation

**NITROGEN 10**

2007-11-22

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

**NITROGEN 11**

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-even nuclei

**NITROGEN 12**

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nitrogen isotopes

\*BT1 odd-odd nuclei

**NITROGEN 12 TARGET**

ETDE: 1976-07-09

BT1 targets

**NITROGEN 13**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 light nuclei

\*BT1 minutes living radioisotopes

\*BT1 nitrogen isotopes

\*BT1 odd-even nuclei

**NITROGEN 13 BEAMS**

INIS: 1984-01-18; ETDE: 1988-12-05

\*BT1 radioactive ion beams

**NITROGEN 13 REACTIONS**

1992-02-18

\*BT1 heavy ion reactions

**NITROGEN 13 TARGET**

ETDE: 1976-07-09

BT1 targets

**NITROGEN 14**

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-odd nuclei

\*BT1 stable isotopes

RT nitrogen 14 beams

RT nitrogen 14 reactions

**NITROGEN 14 BEAMS**

\*BT1 ion beams

RT nitrogen 14

**NITROGEN 14 REACTIONS**

\*BT1 heavy ion reactions

RT nitrogen 14

**NITROGEN 14 TARGET**

ETDE: 1976-07-09

BT1 targets

**NITROGEN 15**

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-even nuclei

\*BT1 stable isotopes

RT nitrogen 15 reactions

**NITROGEN 15 BEAMS**

1980-05-14

\*BT1 ion beams

**NITROGEN 15 REACTIONS**

\*BT1 heavy ion reactions

RT nitrogen 15

**NITROGEN 15 TARGET**

ETDE: 1976-07-09

BT1 targets

**NITROGEN 16**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**NITROGEN 16 TARGET**

INIS: 1977-09-15; ETDE: 1977-11-10

BT1 targets

**NITROGEN 17**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**NITROGEN 18**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nitrogen isotopes

\*BT1 odd-odd nuclei

**NITROGEN 19**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nitrogen isotopes

\*BT1 odd-even nuclei

**NITROGEN 20**

1985-06-07

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-odd nuclei

**NITROGEN 21**

INIS: 1986-04-02; ETDE: 1988-12-05

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-even nuclei

**NITROGEN 22**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-odd nuclei

**NITROGEN 23**

1985-10-22

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-even nuclei

**NITROGEN 24**

2007-11-22

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-odd nuclei

**NITROGEN 25**

2007-11-22

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-even nuclei

**NITROGEN ADDITIONS**

1996-11-13

BT1 alloys

NT1 steel-cr21mn9ni6

NT2 stainless steel-21-6-9

NT1 steel-nicrmo

**NITROGEN BROMIDES**

INIS: 2000-04-12; ETDE: 1980-12-08

\*BT1 bromides

\*BT1 nitrogen halides

**NITROGEN CARBIDES**

\*BT1 carbides

BT1 nitrogen compounds

**NITROGEN CHLORIDES**

\*BT1 chlorides

\*BT1 nitrogen halides

**NITROGEN COMPLEXES**

BT1 complexes

**NITROGEN COMPOUNDS**

1997-06-17

NT1 azides

NT1 carbonitrides

NT1 cyanates

NT1 hydrazine

NT1 isocyanates

NT1 isothiocyanates

NT1 nitrates

NT2 aluminium nitrates

NT2 americium nitrates

NT2 ammonium nitrates

NT2 barium nitrates

NT2 berkelium nitrates

NT2 beryllium nitrates

NT2 bismuth nitrates

NT2 cadmium nitrates

NT2 calcium nitrates

NT2 californium nitrates

NT2 cerium nitrates  
 NT2 cesium nitrates  
 NT2 chlorine nitrates  
 NT2 chromium nitrates  
 NT2 cobalt nitrates  
 NT2 copper nitrates  
 NT2 curium nitrates  
 NT2 dysprosium nitrates  
 NT2 einsteinium nitrates  
 NT2 erbium nitrates  
 NT2 europium nitrates  
 NT2 gadolinium nitrates  
 NT2 gallium nitrates  
 NT2 hafnium nitrates  
 NT2 holmium nitrates  
 NT2 hydrogen nitrates  
 NT2 indium nitrates  
 NT2 iron nitrates  
 NT2 lanthanum nitrates  
 NT2 lead nitrates  
 NT2 lithium nitrates  
 NT2 lutetium nitrates  
 NT2 magnesium nitrates  
 NT2 manganese nitrates  
 NT2 mercury nitrates  
 NT2 molybdenum nitrates  
 NT2 neodymium nitrates  
 NT2 neptunium nitrates  
 NT2 nickel nitrates  
 NT2 niobium nitrates  
 NT2 palladium nitrates  
 NT2 peroxyacetyl nitrate  
 NT2 petn  
 NT2 plutonium nitrates  
 NT2 polonium nitrates  
 NT2 potassium nitrates  
 NT2 praseodymium nitrates  
 NT2 promethium nitrates  
 NT2 protactinium nitrates  
 NT2 radium nitrates  
 NT2 rhodium nitrates  
 NT2 rubidium nitrates  
 NT2 ruthenium nitrates  
 NT2 samarium nitrates  
 NT2 scandium nitrates  
 NT2 silver nitrates  
 NT2 sodium nitrates  
 NT2 strontium nitrates  
 NT2 tellurium nitrates  
 NT2 terbium nitrates  
 NT2 thallium nitrates  
 NT2 thorium nitrates  
 NT2 thulium nitrates  
 NT2 titanium nitrates  
 NT2 uranium nitrates  
 NT2 uranyl nitrates  
 NT3 unh  
 NT2 vanadium nitrates  
 NT2 ytterbium nitrates  
 NT2 yttrium nitrates  
 NT2 zinc nitrates  
 NT2 zirconium nitrates  
 NT1 nitric acid  
 NT1 nitrides  
 NT2 aluminium nitrides  
 NT2 americium nitrides  
 NT2 argon nitrides  
 NT2 barium nitrides  
 NT2 berkelium nitrides  
 NT2 beryllium nitrides  
 NT2 boron nitrides  
 NT2 calcium nitrides  
 NT2 californium nitrides  
 NT2 carbon nitrides  
 NT2 cerium nitrides  
 NT2 cesium nitrides  
 NT2 chromium nitrides  
 NT2 copper nitrides  
 NT2 curium nitrides

NT2 dysprosium nitrides  
 NT2 erbium nitrides  
 NT2 europium nitrides  
 NT2 gadolinium nitrides  
 NT2 gallium nitrides  
 NT2 germanium nitrides  
 NT2 hafnium nitrides  
 NT2 holmium nitrides  
 NT2 indium nitrides  
 NT2 iridium nitrides  
 NT2 iron nitrides  
 NT2 lanthanum nitrides  
 NT2 lead nitrides  
 NT2 lithium nitrides  
 NT2 magnesium nitrides  
 NT2 manganese nitrides  
 NT2 molybdenum nitrides  
 NT2 neodymium nitrides  
 NT2 neptunium nitrides  
 NT2 nickel nitrides  
 NT2 niobium nitrides  
 NT2 osmium nitrides  
 NT2 palladium nitrides  
 NT2 phosphorus nitrides  
 NT2 platinum nitrides  
 NT2 plutonium nitrides  
 NT2 potassium nitrides  
 NT2 praseodymium nitrides  
 NT2 radium nitrides  
 NT2 rhenium nitrides  
 NT2 rhodium nitrides  
 NT2 ruthenium nitrides  
 NT2 samarium nitrides  
 NT2 scandium nitrides  
 NT2 silicon nitrides  
 NT2 silver nitrides  
 NT2 sodium nitrides  
 NT2 sulfur nitrides  
 NT2 tantalum nitrides  
 NT2 terbium nitrides  
 NT2 thorium nitrides  
 NT2 thulium nitrides  
 NT2 tin nitrides  
 NT2 titanium nitrides  
 NT2 tungsten nitrides  
 NT2 uranium nitrides  
 NT2 vanadium nitrides  
 NT2 ytterbium nitrides  
 NT2 yttrium nitrides  
 NT2 zinc nitrides  
 NT2 zirconium nitrides  
 NT1 nitrites  
 NT1 nitrogen carbides  
 NT1 nitrogen halides  
 NT2 nitrogen bromides  
 NT2 nitrogen chlorides  
 NT2 nitrogen fluorides  
 NT2 nitrogen iodides  
 NT1 nitrogen hydrides  
 NT2 ammonia  
 NT1 nitrogen oxides  
 NT2 nitric oxide  
 NT2 nitrogen dioxide  
 NT2 nitrous oxide  
 NT1 nitrous acid  
 NT1 oxynitrates  
 RT denitrification  
 RT nitrification  
 RT organic nitrogen compounds

### NITROGEN COOLED REACTORS

\*BT1 gas cooled reactors  
 NT1 hltr reactor  
 NT1 ml-1 reactor  
 NT1 zenith reactor

### NITROGEN CYCLE

RT ecological concentration  
 RT ecosystems  
 RT fertilizers

RT metabolism  
 RT mineral cycling  
 RT nitrification  
 RT nitrogen fixation

### NITROGEN DIOXIDE

INIS: 1977-09-06; ETDE: 1976-01-07  
 NO2.

\*BT1 nitrogen oxides

### NITROGEN FIXATION

1997-06-17

UF fixation (nitrogen)  
 RT air  
 RT bacteria  
 RT frankia  
 RT metabolism  
 RT nitrification  
 RT nitrogen  
 RT nitrogen cycle  
 RT nitrogenase  
 RT plant growth  
 RT rhizobium  
 RT soils

### NITROGEN FLUORIDES

\*BT1 fluorides

\*BT1 nitrogen halides

### NITROGEN HALIDES

2012-07-20

\*BT1 halides

BT1 nitrogen compounds  
 NT1 nitrogen bromides  
 NT1 nitrogen chlorides  
 NT1 nitrogen fluorides  
 NT1 nitrogen iodides

### NITROGEN HYDRIDES

\*BT1 hydrides

BT1 nitrogen compounds

NT1 ammonia

### NITROGEN IODIDES

2000-04-12

\*BT1 iodides

\*BT1 nitrogen halides

### NITROGEN IONS

\*BT1 ions

### NITROGEN ISOTOPES

1999-07-16

BT1 isotopes  
 NT1 nitrogen 10  
 NT1 nitrogen 11  
 NT1 nitrogen 12  
 NT1 nitrogen 13  
 NT1 nitrogen 14  
 NT1 nitrogen 15  
 NT1 nitrogen 16  
 NT1 nitrogen 17  
 NT1 nitrogen 18  
 NT1 nitrogen 19  
 NT1 nitrogen 20  
 NT1 nitrogen 21  
 NT1 nitrogen 22  
 NT1 nitrogen 23  
 NT1 nitrogen 24  
 NT1 nitrogen 25

### NITROGEN MUSTARD

UF bis(chloroethyl)amine

UF dichlorodiethylamine

UF mustard (nitrogen)

BT1 alkylating agents

\*BT1 amines

\*BT1 organic chlorine compounds

RT mutagens

### nitrogen nitrides

USE nitrogen

**NITROGEN OXIDES**

- BT1 nitrogen compounds
- \*BT1 oxides
- NT1 nitric oxide
- NT1 nitrogen dioxide
- NT1 nitrous oxide
- RT greenhouse gases
- RT selective catalytic reduction

**nitrogen sulfides**

- USE sulfur nitrides

**NITROGEN TRANSFERASES**

INIS: 1986-12-03; ETDE: 1981-01-30

Code number 2.6.

- \*BT1 transferases
- NT1 aminotransferases

**NITROGENASE**

INIS: 1983-10-14; ETDE: 1981-01-12

UF nitrogenases

- \*BT1 nitro-group dehydrogenases
- RT nitrogen fixation

**nitrogenases**

INIS: 2000-04-12; ETDE: 1978-12-11

(Prior to January 1981, this was a valid ETDE descriptor.)

- USE nitrogenase

**NITROGLYCERIN**

2000-04-12

- \*BT1 chemical explosives
- \*BT1 nitric acid esters
- RT glycerol

**NITROMETHANE**

INIS: 1980-12-01; ETDE: 1976-09-14

- \*BT1 chemical explosives
- \*BT1 nitro compounds
- RT methane

**nitronic 40**

INIS: 1980-09-11; ETDE: 1979-12-10

- USE stainless steel-21-6-9

**NITROPHENOL**

- \*BT1 nitro compounds
- \*BT1 phenols
- RT dinitrophenol

**nitroreductases**

INIS: 2000-04-12; ETDE: 1984-06-29

A group of enzymes involved in the reduction of nitrate compounds.

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE nitro-group dehydrogenases

**NITROSAMINES**

INIS: 2000-04-12; ETDE: 1982-01-21

- \*BT1 amines
- \*BT1 nitroso compounds
- RT carcinogens
- RT mutagens

**NITROSO COMPOUNDS**

- UF dinitrosoresorcinol
- \*BT1 organic nitrogen compounds
- NT1 1-nitroso-2-naphthol
- NT1 methyl nitrosoourea
- NT1 nitrosamines
- NT1 nitroso-r salt
- NT1 nitrosooureas

**NITROSO-R SALT**

- \*BT1 naphthols
- \*BT1 nitroso compounds
- \*BT1 sulfonic acids

**NITROSOUREAS**

INIS: 1985-01-17; ETDE: 1984-06-29

- \*BT1 nitroso compounds

RT urea

**NITROUS ACID**

- \*BT1 inorganic acids
- BT1 nitrogen compounds
- BT1 oxygen compounds
- RT nitrites

**NITROUS ACID ESTERS**

INIS: 2000-04-12; ETDE: 1976-12-16

- \*BT1 esters

**NITROUS OXIDE**

INIS: 1984-04-04; ETDE: 1976-01-07

N2O.

- \*BT1 nitrogen oxides
- RT anesthetics

**NITROXYL RADICALS**

INIS: 1981-08-06; ETDE: 1981-09-22

- BT1 radicals

**nk cells**

INIS: 1992-01-28; ETDE: 2002-04-16

- USE natural killer cells

**nmp(net material product)**

INIS: 2000-04-12; ETDE: 1979-11-07

- SEE gross domestic product
- SEE gross national product

**nmr**

- USE nuclear magnetic resonance

**NMR IMAGING**

INIS: 1986-05-23; ETDE: 1986-11-18

- BT1 diagnostic techniques
- RT nuclear magnetic resonance
- RT polymer gel dosimeters

**nmr logging**

INIS: 1978-04-21; ETDE: 1976-06-07

- USE nuclear magnetic logging

**NMR SPECTRA**

INIS: 1978-04-21; ETDE: 1978-07-06

Nuclear Magnetic Resonance spectra.

- UF nuclear magnetic resonance spectra
- UF pmr spectra
- UF proton magnetic resonance spectra
- BT1 spectra
- RT nuclear magnetic resonance

**NMR SPECTROMETERS**

- \*BT1 spectrometers

**NN-2170 DIBARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

- \*BT1 dibaryons

**NN-2250 DIBARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

- \*BT1 dibaryons

**no. 2 fuel oil**

INIS: 2000-04-12; ETDE: 1976-03-11

- USE heating oils

**NOBELIUM**

- \*BT1 actinides
- \*BT1 transplutonium elements

**NOBELIUM 248**

2007-04-19

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 nobelium isotopes

**NOBELIUM 250**

INIS: 1976-03-25; ETDE: 1975-11-26

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 nobelium isotopes

- \*BT1 spontaneous fission radioisotopes

**NOBELIUM 251**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nobelium isotopes

**NOBELIUM 252**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 nobelium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**NOBELIUM 253**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 nobelium isotopes

**NOBELIUM 254**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 nobelium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**NOBELIUM 255**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 nobelium isotopes

**NOBELIUM 256**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 nobelium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**NOBELIUM 257**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 nobelium isotopes
- \*BT1 seconds living radioisotopes

**NOBELIUM 258**

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nobelium isotopes
- \*BT1 spontaneous fission radioisotopes

**NOBELIUM 259**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 nobelium isotopes

**NOBELIUM 260**

INIS: 1978-08-14; ETDE: 1978-10-19

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 nobelium isotopes

**NOBELIUM 261**

INIS: 1987-02-25; ETDE: 1987-05-01

- \*BT1 actinide nuclei
- \*BT1 even-odd nuclei
- \*BT1 nobelium isotopes

**NOBELIUM 262**

INIS: 1987-02-25; ETDE: 1987-05-01

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 nobelium isotopes

**NOBELIUM 263**

2007-04-19

- \*BT1 actinide nuclei
- \*BT1 even-odd nuclei
- \*BT1 nobelium isotopes

**NOBELIUM 264**

INIS: 1993-03-10; ETDE: 1993-04-16

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 nobelium isotopes

**NOBELIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**NOBELIUM COMPOUNDS**

1996-07-18

- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 nobelium oxides

**NOBELIUM IONS**

2018-01-24

- \*BT1 ions

**NOBELIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 nobelium 248
- NT1 nobelium 250
- NT1 nobelium 251
- NT1 nobelium 252
- NT1 nobelium 253
- NT1 nobelium 254
- NT1 nobelium 255
- NT1 nobelium 256
- NT1 nobelium 257
- NT1 nobelium 258
- NT1 nobelium 259
- NT1 nobelium 260
- NT1 nobelium 261
- NT1 nobelium 262
- NT1 nobelium 263
- NT1 nobelium 264

**NOBELIUM OXIDES**

1996-07-18

(From July 1996 to November 2007

NOBELIUM COMPOUNDS + OXIDES was used for this concept.)

- \*BT1 nobelium compounds
- \*BT1 oxides

**noble gases**

- USE rare gases

**NOCARDIA**

- \*BT1 bacteria
- RT actinomycetes

**NOCTILUCENT CLOUDS**

2000-04-12

- BT1 clouds
- RT airglow
- RT luminescence

**NOCTURNAL VARIATIONS**

INIS: 2000-04-12; ETDE: 1980-07-09

- BT1 variations
- RT daily variations

**NODAL EXPANSION METHOD**

INIS: 1989-09-15; ETDE: 1989-10-16

- BT1 calculation methods
- RT finite difference method
- RT finite element method
- RT mathematics
- RT mesh generation

**NODULAR CORROSION**

INIS: 1992-06-17; ETDE: 1992-07-02

- \*BT1 corrosion

**NOGENT-1 REACTOR**

2010-08-17

*Electricite de France, Nogent-sur-Seine, Aube, France*

(Prior to August 2010 NOGENT SUR SEINE-1 REACTOR was used for this reactor.)

- UF *nogent sur seine-1 reactor*
- \*BT1 pwr type reactors

**NOGENT-2 REACTOR**

2010-08-17

*Electricite de France, Nogent-sur-Seine, Aube, France*

(Prior to August 2010 NOGENT SUR SEINE-2 REACTOR was used for this reactor.)

- UF *nogent sur seine-2 reactor*
- \*BT1 pwr type reactors

**nogent sur seine-1 reactor**

INIS: 1984-07-23; ETDE: 1984-09-05

(Prior to August 2010 this was a valid descriptor.)

- USE nogent-1 reactor

**nogent sur seine-2 reactor**

INIS: 1984-07-23; ETDE: 1984-09-05

(Prior to August 2010 this was a valid descriptor.)

- USE nogent-2 reactor

**NOGIZAWALITE**

2000-04-12

- \*BT1 oxide minerals
- RT zirconium oxides

**NOISE**

- NT1 background noise
- NT1 radio noise
- NT2 atmospheric
- NT2 whistlers
- NT1 seismic noise
- NT1 temperature noise
- RT fluctuations
- RT noise pollution
- RT noise pollution abatement
- RT noise pollution control
- RT signal-to-noise ratio
- RT steam mufflers

**noise (reactor)**

- USE reactor noise

**NOISE DOSEMETERS**

INIS: 1992-05-05; ETDE: 1983-08-25

- BT1 measuring instruments
- RT acoustic measurements
- RT noise pollution

**NOISE POLLUTION**

INIS: 1992-05-05; ETDE: 1977-03-04

*Objectionable or harmful levels of noise.*

- BT1 pollution
- RT noise
- RT noise dosimeters
- RT noise pollution abatement
- RT noise pollution control

**NOISE POLLUTION ABATEMENT**

INIS: 1992-05-05; ETDE: 1977-03-04

*Reduction of noise at its source.*

- BT1 pollution abatement
- RT noise
- RT noise pollution
- RT noise pollution control

**NOISE POLLUTION CONTROL**

INIS: 1992-05-05; ETDE: 1977-03-04

*Reduction of noise after it has been produced by a source.*

- \*BT1 pollution control
- RT noise
- RT noise pollution
- RT noise pollution abatement
- RT pollution control equipment

**NOISE THERMOMETERS**

1978-11-24

*Operation based on the Nyquist theorem of thermal noise.*

- \*BT1 in core instruments
- \*BT1 thermometers
- RT temperature measurement

**nok-1 reactor**

*Nordost Schweizerische Kraftwerke AG-1 reactor.*

- USE beznau-1 reactor

**nok-2 reactor**

*Nordost Schweizerische Kraftwerke AG-2 reactor.*

- USE beznau-2 reactor

**NOLEN-SCHIFFER ANOMALY**

- RT coulomb energy
- RT isobaric analogs

**NOMOGRAMS**

- \*BT1 diagrams

**non-aqueous solvents**

INIS: 1984-07-20; ETDE: 2002-04-16

- USE nonaqueous solvents

**non-canonical dimension**

- USE anomalous dimension

**non-central forces**

INIS: 1984-07-20; ETDE: 2002-04-16

- USE noncentral forces

**non-destructive analysis**

INIS: 1984-07-20; ETDE: 2002-04-16

- USE nondestructive analysis

**non-destructive testing**

INIS: 1984-07-20; ETDE: 2002-04-16

- USE nondestructive testing

**NON-DISJUNCTION**

- UF *nondisjunction*
- RT aneuploidy
- RT cell division
- RT genome mutations

**non-dispersive ion waves**

- USE ion acoustic waves

**NON-EQUILIBRIUM PLASMA**

- UF *nonequilibrium plasma*
- BT1 plasma
- RT bifurcation
- RT equilibrium plasma
- RT limit cycle
- RT tail electrons
- RT tail ions

**NON-INDUCTIVE CURRENT DRIVE**

INIS: 1987-06-29; ETDE: 1987-07-09

Generation of a plasma current by a non-inductive technique.

- NT1 ecr current drive
- NT1 lower hybrid current drive
- RT bootstrap current
- RT current-drive heating
- RT electric currents
- RT plasma

**non lagrangian quantum field theory**

1977-11-21

USE axiomatic field theory

**non-leptonic decay**

INIS: 1984-07-20; ETDE: 2002-04-16

USE weak hadronic decay

**non-linear field theory**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonlinear problems  
USE quantum field theory

**non-linear optics**

INIS: 1986-03-04; ETDE: 2002-04-16

USE nonlinear optics

**non-linear plasma instabilities**

INIS: 1993-11-09; ETDE: 2002-04-16

USE parametric instabilities

**non-linear problems**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonlinear problems

**non-linear programming**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonlinear programming

**non-linear systems**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonlinear problems

**non-local potential**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonlocal potential

**non-local quantum field theory**

INIS: 1984-07-20; ETDE: 2002-04-16

USE yukawa nonlocal theory

**non-measurable variables**

INIS: 1984-07-20; ETDE: 2002-04-16

USE hidden variables

**non-metals**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonmetals

**NON-PEPTIDE C-N HYDROLASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.5.

- \*BT1 hydrolases
- NT1 amidases
- NT2 arginase
- NT2 urease
- NT1 amidinases

**non-proliferation**

INIS: 1978-02-23; ETDE: 2002-04-16

USE proliferation

**NON-PROLIFERATION POLICY**

INIS: 1998-06-10; ETDE: 1979-09-06

- RT arms control
- RT ctbt
- RT ctbo
- RT government policies
- RT non-proliferation treaty
- RT nuclear fuels
- RT nuclear materials diversion

- RT nuclear weapons
- RT nuclear weapons dismantlement
- RT proliferation

**NON-PROLIFERATION TREATY**

- UF *nonproliferation treaty*
- BT1 treaties
- RT arms control
- RT dual-use technologies
- RT non-proliferation policy
- RT nuclear materials possession
- RT proliferation
- RT safeguards

**non-radioactive waste disposal**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonradioactive waste disposal

**non-radioactive wastes**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonradioactive wastes

**non-uniform irradiation**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonuniform irradiation

**non-unitary representations**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonunitary representations

**NONANOIC ACID**

- UF *nonylic acid*
- UF *pelargonic acid*
- \*BT1 monocarboxylic acids

**NONAQUEOUS SOLVENTS**

See also ORGANIC SOLVENTS.

- UF *non-aqueous solvents*
- BT1 solvents
- NT1 organic solvents
- NT2 cellosolves
- NT2 solvesso
- NT2 turpentine
- RT solvation

**nonaxial nuclei**

USE deformed nuclei

**nonbranded independent marketers**

INIS: 2000-04-12; ETDE: 1979-09-28

USE marketers

**noncanonical dimension**

INIS: 1984-07-20; ETDE: 2002-04-16

USE anomalous dimension

**NONCENTRAL FORCES**

- UF *non-central forces*
- RT potentials
- RT tensor mesons

**NONDESTRUCTIVE ANALYSIS**

- UF *non-destructive analysis*
- UF *nondestructive chemical analysis*
- BT1 chemical analysis
- NT1 activation analysis
- NT2 charged-particle activation analysis
- NT2 neutron activation analysis
- NT2 photon activation analysis
- NT1 delayed neutron analysis
- NT1 deuteron microprobe analysis
- NT1 electron microprobe analysis
- NT1 ion microprobe analysis
- NT1 ion scattering analysis
- NT1 nuclear reaction analysis
- NT2 delayed neutron analysis
- NT1 proton microprobe analysis
- NT1 radiation absorption analysis
- NT1 radiation scattering analysis
- NT1 x-ray emission analysis
- NT2 pixe analysis
- NT2 x-ray fluorescence analysis

**nondestructive chemical analysis**

INIS: 1993-11-09; ETDE: 2002-04-16

USE nondestructive analysis

**NONDESTRUCTIVE TESTING**

- UF *non-destructive testing*
- \*BT1 materials testing
- NT1 acoustic testing
- NT2 acoustic emission testing
- NT2 ultrasonic testing
- NT1 electrical testing
- NT1 electromagnetic testing
- NT2 eddy current testing
- NT1 industrial radiography
- NT2 beta radiography
- NT2 gamma radiography
- NT3 gamma fuel scanning
- NT2 neutron radiography
- NT2 proton radiography
- NT2 x-ray radiography
- NT1 liquid penetrant inspection
- NT1 magnetic testing
- NT1 radiation attenuation testing
- NT1 thermal testing
- NT2 frost tests
- RT autoradiography
- RT fuel scanning
- RT in-service inspection
- RT inspection
- RT quality control
- RT radiometric gages

**nondisjunction**

INIS: 1984-07-20; ETDE: 2002-04-16

USE non-disjunction

**nondispersive ion waves**

INIS: 1984-07-20; ETDE: 2002-04-16

USE ion acoustic waves

**nonequilibrium plasma**

INIS: 1984-07-20; ETDE: 2002-04-16

USE non-equilibrium plasma

**nonleptonic decay**

INIS: 1978-02-23; ETDE: 1978-05-01

USE weak hadronic decay

**nonlinear field theory**

INIS: 1977-11-21; ETDE: 2002-04-16

USE nonlinear problems  
USE quantum field theory

**NONLINEAR OPTICS**

INIS: 1986-03-04; ETDE: 1981-03-17

Study of the interaction of radiation with matter in which certain variables describing the response of the matter are not proportional to variables describing the radiation.

- UF *non-linear optics*
- BT1 optics
- RT frequency mixing
- RT harmonic generation
- RT nonlinear problems

**nonlinear plasma instabilities**

USE parametric instabilities

**NONLINEAR PROBLEMS**

- UF *non-linear field theory*
- UF *non-linear problems*
- UF *non-linear systems*
- UF *nonlinear field theory*
- UF *nonlinear systems*
- RT baecklund transformation
- RT frequency mixing
- RT harmonic generation
- RT harmonics
- RT limit cycle
- RT mathematics

RT nonlinear optics  
 RT plasma disruption  
 RT plasma instability  
 RT quasilinear problems  
 RT reactor stability

**NONLINEAR PROGRAMMING**

UF non-linear programming  
 BT1 calculation methods  
 RT dynamic programming  
 RT econometrics  
 RT linear programming  
 RT mathematical models  
 RT optimization

**nonlinear systems**

USE nonlinear problems

**NONLOCAL POTENTIAL**

UF non-local potential  
 BT1 potentials  
 RT locality  
 RT nuclear potential  
 RT pery-buck model

**nonlocal quantum field theory**

INIS: 1977-11-21; ETDE: 2002-04-16  
 USE yukawa nonlocal theory

**NONLUMINOUS MATTER**

INIS: 1985-01-17; ETDE: 1985-03-12  
 Unseen mass in the Universe assumed from discrepancies in cosmological model values and observation.

UF dark matter  
 UF unobserved matter  
 UF unseen matter  
 BT1 matter  
 RT galaxies  
 RT general relativity theory  
 RT intergalactic space  
 RT universe  
 RT wimps

**nonmeasurable variables**

1985-11-18  
 (Prior to December 1985 this was a valid descriptor.)  
 USE hidden variables

**NONMETALS**

UF non-metals  
 BT1 elements  
 NT1 carbon  
 NT2 activated carbon  
 NT2 carbon black  
 NT2 carbon nanotubes  
 NT2 carbynes  
 NT2 diamonds  
 NT2 fullerenes  
 NT2 graphene  
 NT2 graphite  
 NT2 pyrolytic carbon  
 NT1 halogens  
 NT2 astatine  
 NT2 bromine  
 NT2 chlorine  
 NT2 fluorine  
 NT2 iodine  
 NT1 hydrogen  
 NT1 nitrogen  
 NT1 oxygen  
 NT1 phosphorus  
 NT1 rare gases  
 NT2 argon  
 NT2 helium  
 NT2 krypton  
 NT2 neon  
 NT2 radon  
 NT2 xenon  
 NT1 sulfur

RT semimetals

**nonproliferation**

INIS: 1984-07-20; ETDE: 2002-04-16  
 USE proliferation

**nonproliferation treaty**

INIS: 1984-07-20; ETDE: 2002-04-16  
 USE non-proliferation treaty

**NONRADIOACTIVE WASTE****DISPOSAL**

ETDE: 1991-01-15  
 (Prior to April 1977 this was a valid term.)  
 UF non-radioactive waste disposal  
 \*BT1 nonradioactive waste management  
 \*BT1 waste disposal  
 RT chemical effluents  
 RT waste disposal acts

**NONRADIOACTIVE WASTE****MANAGEMENT**

INIS: 1990-12-07; ETDE: 1991-01-15  
 \*BT1 waste management  
 NT1 nonradioactive waste disposal  
 RT nonradioactive wastes

**NONRADIOACTIVE WASTES**

ETDE: 1991-01-15  
 (Prior to April 1977 this was a valid term.)  
 UF non-radioactive wastes  
 BT1 wastes  
 NT1 chemical wastes  
 NT2 chemical effluents  
 RT hazardous materials  
 RT nonradioactive waste management

**NONSPECIFIC PEPTIDASES**

INIS: 1990-12-07; ETDE: 1981-01-12  
 (Prior to December 1990, this concept was indexed by NONSPECIFIC PROTEINASES.)  
 UF nonspecific proteinases  
 \*BT1 peptide hydrolases  
 NT1 renin  
 NT1 urokinase

**nonspecific proteinases**

INIS: 1990-12-07; ETDE: 2002-04-16  
 (Prior to December 1990, this was a valid descriptor.)  
 USE nonspecific peptidases

**NONUNIFORM IRRADIATION**

UF non-uniform irradiation  
 BT1 irradiation  
 RT critical organs  
 RT isodose curves  
 RT radionuclide kinetics  
 RT spatial dose distributions

**NONUNITARY REPRESENTATIONS**

UF non-unitary representations  
 UF representations (nonunitary)  
 RT group theory  
 RT irreducible representations  
 RT symmetry groups  
 RT unitarity

**nonviscous flow**

INIS: 1986-03-04; ETDE: 2002-04-16  
 USE ideal flow

**nonyl radicals**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE alkyl radicals

**nonylic acid**

USE nonanoic acid

**NORA REACTOR**

UF norwegian research reactor nora

\*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 RT enriched uranium reactors  
 RT natural uranium reactors

**NORADRENALINE**

UF norepinephrine  
 \*BT1 adrenal hormones  
 \*BT1 cardiotonics  
 \*BT1 neuroregulators  
 \*BT1 sympathomimetics

**NORBORNADIENE**

INIS: 2000-04-12; ETDE: 1977-12-22  
 \*BT1 cycloalkenes

**NORD COMPUTERS**

INIS: 1976-08-17; ETDE: 1976-11-01  
 BT1 computers

**nordheim equation**

USE inhour equation

**NORDHEIM-SCALETAR METHOD**

RT control rod worths

**nordostschweizerische kraftwerk-1 reaktor**

INIS: 1984-06-21; ETDE: 2002-04-16  
 USE beznau-1 reactor

**nordostschweizerische kraftwerk-2 reaktor**

INIS: 1984-06-21; ETDE: 2002-04-16  
 USE beznau-2 reactor

**NORDSTRANDITE**

INIS: 2000-04-12; ETDE: 1975-10-01  
 \*BT1 oxide minerals  
 RT aluminium hydroxides

**norepinephrine**

INIS: 2000-04-12; ETDE: 1981-04-20  
 USE noradrenaline

**norilsk research reactor rg-1m**

INIS: 1984-06-21; ETDE: 2002-04-16  
 USE rg-1m reactor

**NORMAL-MODE ANALYSIS**

UF analysis (normal-mode)  
 RT fourier analysis  
 RT plasma waves

**NORTH AMERICA**

NT1 canada  
 NT2 alberta  
 NT2 british columbia  
 NT2 manitoba  
 NT2 new brunswick  
 NT2 newfoundland  
 NT2 northwest territories  
 NT2 nova scotia  
 NT2 nunavut  
 NT2 ontario  
 NT3 chalk river  
 NT3 deep river  
 NT3 elliot lake  
 NT2 prince edward island  
 NT2 quebec  
 NT2 saskatchewan  
 NT2 yukon territory  
 NT1 mexico  
 NT1 usa  
 NT2 alabama  
 NT2 alaska  
 NT2 american samoa  
 NT2 arizona  
 NT2 arkansas

**NT2** california  
**NT3** brawley geothermal field  
**NT3** coso hot springs  
**NT3** los angeles  
**NT2** colorado  
**NT3** mahogany zone  
**NT3** sand wash basin  
**NT2** connecticut  
**NT2** delaware  
**NT2** florida  
**NT3** cape kennedy  
**NT2** georgia (u.s. state of)  
**NT3** atlanta  
**NT2** great basin  
**NT2** hawaii  
**NT2** idaho  
**NT2** illinois  
**NT3** chicago  
**NT2** indiana  
**NT2** iowa  
**NT2** kansas  
**NT2** kentucky  
**NT2** louisiana  
**NT2** maine  
**NT2** maryland  
**NT2** massachusetts  
**NT2** michigan  
**NT2** minnesota  
**NT2** mississippi  
**NT2** missouri  
**NT2** montana  
**NT3** powder river basin  
**NT2** nebraska  
**NT2** nevada  
**NT3** steamboat springs  
**NT3** tonopah test range  
**NT2** new hampshire  
**NT2** new jersey  
**NT2** new mexico  
**NT3** los alamos  
**NT2** new york  
**NT3** new york city  
**NT2** north carolina  
**NT2** north dakota  
**NT2** ohio  
**NT3** cleveland  
**NT2** oklahoma  
**NT2** oregon  
**NT3** mt hood  
**NT2** pennsylvania  
**NT3** pittsburgh  
**NT2** puerto rico  
**NT2** rhode island  
**NT2** south carolina  
**NT2** south dakota  
**NT3** table mountain area  
**NT2** tennessee  
**NT3** chattanooga  
**NT3** oak ridge  
**NT2** texas  
**NT2** us east coast  
**NT2** us gulf coast  
**NT2** us west coast  
**NT2** utah  
**NT3** roosevelt hot springs  
**NT2** vermont  
**NT2** virgin islands  
**NT2** virginia  
**NT2** washington  
**NT3** richland  
**NT2** washington dc  
**NT2** west virginia  
**NT2** wisconsin  
**NT2** wyoming  
**NT3** powder river basin  
**NT3** rock springs sites  
**NT3** washakie basin

**NORTH ANNA-1 REACTOR**

*Virginia Electric and Power Co., Mineral, Virginia, USA.*  
*UF mineral virginia north anna-1 reactor*  
*\*BT1 pwr type reactors*

**NORTH ANNA-2 REACTOR**

*Virginia Electric and Power Co., Mineral, Virginia, USA.*  
*UF mineral virginia north anna-2 reactor*  
*\*BT1 pwr type reactors*

**NORTH ANNA-3 REACTOR**

*Virginia Electric and Power Co., Mineral, Virginia, USA. Canceled in 1982 before construction began.*  
*UF mineral virginia north anna-3 reactor*  
*\*BT1 pwr type reactors*

**NORTH ANNA-4 REACTOR**

*Virginia Electric and Power Co., Mineral, Virginia, USA. Canceled in 1980 before construction began.*  
*UF mineral virginia north anna-4 reactor*  
*\*BT1 pwr type reactors*

**north atlantic region**

*INIS: 2000-04-12; ETDE: 1978-07-06*  
 (Prior to June 1982, this was a valid ETDE descriptor.)  
*SEE usa*

**north atlantic treaty organization**

*INIS: 1993-11-09; ETDE: 2002-04-16*  
*USE nato*

**NORTH CAROLINA**

*1997-06-17*  
*\*BT1 usa*  
*RT cape fear river*  
*RT onslow bay*  
*RT us east coast*

**north carolina pulstar reactor**

*USE pulstar-raleigh reactor*

**north carolina state college research reactor-1**

*1993-11-09*  
*USE ncsr-1 reactor*

**NORTH COAST-1 REACTOR**

*Puerto Rico Water Resources Authority, Arecibo, Puerto Rico, USA. Formerly the Aguirre-1 Reactor, relocated and renamed. Canceled in 1978 before construction began.*  
*UF aguirre-1 reactor*  
*\*BT1 pwr type reactors*  
*RT aguirre reactor*

**NORTH DAKOTA**

*\*BT1 usa*  
*RT missouri river*  
*RT williston basin*

**NORTH KOREA**

*UF korea (north)*  
*BT1 asia*  
*BT1 developing countries*  
*RT centrally planned economies*

**NORTH PLATTE RIVER**

*INIS: 2000-04-12; ETDE: 1977-10-20*  
*\*BT1 rivers*  
*RT north platte river basin*

**NORTH PLATTE RIVER BASIN**

*INIS: 2000-04-12; ETDE: 1977-10-20*  
*BT1 watersheds*  
*RT colorado*  
*RT nebraska*  
*RT north platte river*

*RT wyoming*

**NORTH SEA**

*\*BT1 atlantic ocean*  
*NT1 wadden sea*

**NORTH-SOUTH ASYMMETRY**

*For global aspects only.*  
*BT1 asymmetry*  
*RT cosmic radiation*  
*RT geographical variations*

**NORTH STAR PROJECT**

*INIS: 2000-04-12; ETDE: 1976-10-13*  
*Proposal to ship natural gas from North Central Siberia to U.S. East Coast.*  
*RT international agreements*  
*RT liquefied natural gas*

**north yemen**

*INIS: 2000-04-12; ETDE: 1981-05-18*  
*USE yemen*

**NORTHERN HEMISPHERE**

*INIS: 1999-04-28; ETDE: 1980-09-22*  
*Both for the surface and the celestial hemisphere.*  
*\*BT1 earth planet*  
*RT southern hemisphere*

**northern ireland**

*USE united kingdom*

**northern rhodesia**

*USE zambia*

**northern states monticello reactor**

*USE monticello reactor*

**NORTHERN TERRITORY**

*\*BT1 australia*  
*RT jabiluka deposit*  
*RT koongarra deposit*  
*RT nabarlek deposit*  
*RT ranger deposit*  
*RT south alligator deposit*

**NORTHWEST TERRITORIES**

*1996-07-08*  
 (Prior to July 1996 PORT RADIUM was a valid ETDE descriptor.)  
*UF port radium*  
*\*BT1 canada*

**NORWAY**

*BT1 developed countries*  
*\*BT1 scandinavia*  
*RT oecd*  
*RT sami people*

**NORWEGIAN ORGANIZATIONS**

*BT1 national organizations*

**norwegian research reactor nora**

*1993-11-09*  
*USE nora reactor*

**nos. 4, 5, and 6 fuel oils**

*INIS: 2000-04-12; ETDE: 1976-01-23*  
*USE residual fuels*

**nos. 5 and 6 burner oils**

*INIS: 2000-04-12; ETDE: 1976-01-23*  
*USE residual fuels*

**NOSE**

*\*BT1 face*  
*BT1 respiratory system*  
*RT sense organs*



**nose cones**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE space vehicles

**NOTCHES**

RT cracks

RT impact tests

**notice of probable violation**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to March 1997 this was a valid ETDE descriptor.)

USE violations

**notices**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE administrative procedures

**NOTIFICATION PROCEDURES**

INIS: 1976-12-08; ETDE: 1990-11-20

*Procedures to be followed by a nuclear operator in compliance with his legal obligation to notify certain actions or incidents to the authorities.*

BT1 administrative procedures

RT nuclear operators

**noto-1 reactor**

INIS: 1989-09-14; ETDE: 1989-10-16

USE shika-1 reactor

**noto-2 reactor**

2008-07-24

USE shika-2 reactor

**NOUGAT OPERATION**

INIS: 2000-04-12; ETDE: 1979-11-23

\*BT1 nuclear explosions

\*BT1 underground explosions

RT contained explosions

**NOVA FACILITY**

INIS: 1981-08-31; ETDE: 1978-04-28

*Upgrade of SHIVA FACILITY at LLL for laser fusion experiments.*

RT laser fusion reactors

RT lawrence livermore laboratory

RT lawrence livermore national laboratory

RT neodymium lasers

RT novette facility

RT shiva facility

**NOVA MODEL**

\*BT1 particle models

**NOVA SCOTIA**

\*BT1 canada

**NOVACEKITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT arsenic oxides

RT magnesium oxides

RT uranium oxides

**NOVAE**

\*BT1 eruptive variable stars

RT supernovae

**novain**

USE carnitine

**NOVAYA ZEMLYA**

INIS: 1995-11-22; ETDE: 1996-09-09

BT1 islands

\*BT1 russian federation

RT arctic regions

RT nuclear explosions

RT radioactive waste disposal

**NOVETTE FACILITY**

INIS: 1985-10-23; ETDE: 1983-11-09

*Two-beam Nd glass laser at LLNL operating at fundamental or harmonic wavelengths used for target irradiation experiments.*

RT lawrence livermore national laboratory

RT neodymium lasers

RT nova facility

RT shiva facility

**novocaine**

USE procaine

**NOVOVORONEZH-1 REACTOR***Novovoronezh, Russian Federation.**Permanent shutdown since 1988.*

(Prior to June 2003 this reactor was indexed with WWER-1 REACTOR.)

UF wwer-1 reactor

\*BT1 wwer type reactors

**NOVOVORONEZH-2 REACTOR***Novovoronezh, Russian Federation.**Permanent shutdown since 1990.*

(Prior to June 2003 this reactor was indexed with WWER-2 REACTOR.)

UF wwer-2 reactor

\*BT1 wwer type reactors

**NOVOVORONEZH-3 REACTOR***Novovoronezh, Russian Federation.**Permanent shutdown since 2016.*

(Prior to June 2003 this reactor was indexed with WWER-3 REACTOR.)

UF wwer-3 reactor

\*BT1 wwer type reactors

**NOVOVORONEZH-4 REACTOR**

(Prior to June 2003 this reactor was indexed with WWER-4 REACTOR.)

UF wwer-4 reactor

\*BT1 wwer type reactors

**NOVOVORONEZH-5 REACTOR**

(Prior to June 2003 this reactor was indexed with WWER-5 REACTOR.)

UF wwer-5 reactor

\*BT1 wwer type reactors

**NOXSO PROCESS**

INIS: 1994-07-01; ETDE: 1984-06-29

*A dry, sorbent regenerable system capable of removing both sulfur dioxide and NOx from flue gas generated by coal-fired boilers.*

\*BT1 combined soxnox processes

**NOZZLES**

RT aerosol generators

RT flowmeters

RT fuel injection systems

RT jet drills

RT jets

RT orifices

RT pipe fittings

RT separation nozzle method

**npd-2 reactor**

INIS: 2000-04-12; ETDE: 1980-07-23

USE npd reactor

**NPD REACTOR***Rolphon, Ontario, Canada. Permanent shutdown since 1986.*

UF npd-2 reactor

UF npd2 rolphon reactor

UF nuclear power demonstration reactor-2 canada

UF nuclear power demonstration reactor canada

UF rolphon npd-2 reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

**npd2 rolphon reactor**

2000-04-12

USE npd reactor

**npr reactor**

USE n-reactor

**nra**

2002-11-25

USE nuclear reaction analysis

**NRC KURCHATOV INSTITUTE**

2016-07-28

*National Research Center "Kurchatov Institute", Moscow, Russian Federation.*

\*BT1 russian organizations

NT1 ihep

NT1 itep

NT1 st petersburg institute of nuclear physics

**nrel**

1994-06-13

USE national renewable energy laboratory

**NRL CYCLOTRON**

UF naval research laboratory cyclotron

UF us naval research laboratory cyclotron

\*BT1 isochronous cyclotrons

**NRL LINAC**

UF naval research laboratory linac

UF us naval research laboratory linac

\*BT1 linear accelerators

**NRPB**

INIS: 1979-12-20; ETDE: 1980-01-24

*National Radiological Protection Board.*

UF national radiological protection board

\*BT1 united kingdom organizations

**nrts**

INIS: 1994-08-22; ETDE: 1975-12-17

USE idaho national laboratory

**nrts-etr reactor**

USE etr reactor

**nrts-lptf reactor**

USE lptf reactor

**nru canada reactor**

USE nru reactor

**NRU REACTOR***AECL, Chalk River Nuclear Labs., Ontario, Canada.*

UF canadian nru reactor

UF nru canada reactor

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

**NRX-A1 REACTOR**

2000-04-12

*LASL, Los Alamos, New Mexico, USA.*

UF nerva nrx-a1 reactor

\*BT1 experimental reactors

\*BT1 space propulsion reactors

**NRX-A2 REACTOR**

LASL, Los Alamos, New Mexico, USA.  
 UF *nerva nrx-a2 reactor*  
 \*BT1 experimental reactors  
 \*BT1 hydrogen cooled reactors  
 \*BT1 space propulsion reactors

**NRX-A3 REACTOR**

LASL, Los Alamos, New Mexico, USA.  
 UF *nerva nrx-a3 reactor*  
 \*BT1 experimental reactors  
 \*BT1 hydrogen cooled reactors  
 \*BT1 space propulsion reactors

**NRX-A4-EST REACTOR**

LASL, Los Alamos, New Mexico, USA.  
 UF *nerva nrx-a4 engine system test reactor*  
 \*BT1 experimental reactors  
 \*BT1 hydrogen cooled reactors  
 \*BT1 space propulsion reactors

**NRX-A5 REACTOR**

LASL, Los Alamos, New Mexico, USA.  
 UF *nerva nrx-a5 reactor*  
 \*BT1 experimental reactors  
 \*BT1 hydrogen cooled reactors  
 \*BT1 space propulsion reactors

**NRX-A6 REACTOR**

LASL, Los Alamos, New Mexico, USA.  
 UF *nerva nrx-a6 reactor*  
 \*BT1 experimental reactors  
 \*BT1 hydrogen cooled reactors  
 \*BT1 space propulsion reactors

**NRX-A7 REACTOR**

2000-04-12  
 LASL, Los Alamos, New Mexico, USA.  
 UF *nerva nrx-a7 reactor*  
 \*BT1 experimental reactors  
 \*BT1 space propulsion reactors  
 RT hydrogen cooled reactors

**NRX REACTOR**

AECL, Chalk River Nuclear Labs., Ontario, Canada. Permanent shutdown since 1993.  
 UF *canada nrx research reactor*  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**ns arktika**

INIS: 1984-08-27; ETDE: 1994-08-10  
 (Prior to the name change in November 1982 this was a valid descriptor, and older material is so indexed.)  
 USE ns leonid brezhnev

**NS ENRICO FERMI**

2000-04-12  
 \*BT1 nuclear ships

**NS LENIN**

UF *lenin (nuclear ship)*  
 \*BT1 nuclear ships  
 RT lenin reactor

**NS LEONID BREZHNEV**

INIS: 1984-08-27; ETDE: 1994-08-10  
 (Prior to November 1982 known as NS ARKTIKA.)  
 UF *arktika (nuclear ship)*  
 UF *leonid brezhnev (nuclear ship)*  
 UF *ns arktika*  
 \*BT1 nuclear ships  
 RT leonid brezhnev reactor

**NS MUTSU**

UF *mutsu (nuclear ship)*  
 \*BT1 nuclear merchant ships  
 RT mutsu reactor

**NS OTTO HAHN**

UF *otto hahn (nuclear ship)*  
 \*BT1 nuclear merchant ships  
 RT otto hahn reactor

**NS SAVANNAH**

UF *savannah (nuclear ship)*  
 \*BT1 nuclear merchant ships  
 RT savannah reactor

**NS SIBIR**

INIS: 1985-09-09; ETDE: 1985-10-10  
 UF *sibir (nuclear ship)*  
 \*BT1 nuclear ships  
 RT sibir reactor

**NSCR REACTOR**

Texas A and M Univ., College Station, Texas, USA.  
 UF *college station texas training reactor*  
 UF *nuclear science center reactor texas*  
 UF *texas college station training reactor*  
 \*BT1 pool type reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**NSF-RFP REACTOR**

Rockwell International, Rocky Flats Plant, Golden, Colorado, USA.  
 UF *nuclear safety facility-rfp reactor*  
 UF *rocky flats plant nuclear safety facility*  
 \*BT1 zero power reactors

**NSLS**

INIS: 1979-09-18; ETDE: 1979-04-11  
 UF *national synchrotron light source*  
 \*BT1 synchrotron radiation sources  
 RT light sources  
 RT synchrotrons  
 RT x-ray sources

**nspp**

USE nuclear safety pilot plant

**NSRR REACTOR**

JAERI, Tokai, Ibaraki, Japan.  
 UF *nuclear safety research reactor (japan)*  
 \*BT1 enriched uranium reactors  
 \*BT1 hydride moderated reactors  
 \*BT1 mixed spectrum reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 \*BT1 solid homogeneous reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**NSTX DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03  
 National Spherical Torus Experiment, Princeton Plasma Physics Laboratory, USA.  
 \*BT1 spheromak devices

**NTA**

UF *nitrilotriacetic acid*  
 \*BT1 amino acids  
 BT1 chelating agents

**NTR REACTOR**

General Electric Company, Vallecitos Nuclear Center, Pleasanton, California, USA.  
 UF *general electric nuclear test reactor*  
 UF *nuclear test reactor general electric company*  
 UF *pleasanton usa ntr reactor*  
 \*BT1 enriched uranium reactors

\*BT1 graphite moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**NTU PROCESS**

2000-04-12  
*Air is admitted at top of retort, supporting combustion which moves downward through oil shale bed. When fire front reaches bottom, operation is halted; spent shale is dumped. A batch process, it is not suitable for retorting on commercial basis.*  
 RT oil shales  
 RT retorting

**nuclear accidents**

SEE radiation accidents  
 SEE reactor accidents

**nuclear acoustic resonance**

USE acoustic nmr

**NUCLEAR ALIGNMENT**

RT oriented nuclei  
 RT spin orientation

**nuclear and radiation safety federal authority of russia**

1997-08-08  
 USE gosatomnadzor rossii

**nuclear attacks**

USE nuclear weapons

**NUCLEAR CASCADES**

UF *cascaes (nuclear)*  
 UF *intranuclear cascades*  
 BT1 energy-level transitions  
 NT1 gamma cascades  
 RT energy levels

**nuclear charge**

USE atomic number

**NUCLEAR CHEMISTRY**

1999-05-04  
*Study of nuclei and nuclear reactions using chemical methods.*  
 (Prior to March 1986 RADIOCHEMISTRY was used for this concept.)  
 BT1 chemistry  
 RT nuclear physics  
 RT radiochemistry

**nuclear contestation**

USE public relations

**nuclear controversy**

*This concept has also been indexed by the combination HAZARDS + HUMAN POPULATIONS.*  
 (Prior to January 1983 PUBLIC RELATIONS was used for this concept.)  
 USE nuclear power  
 USE public opinion

**NUCLEAR CORES**

UF *core polarization (nuclei)*  
 UF *cores (nuclear)*  
 RT nuclear structure

**NUCLEAR DAMAGE**

INIS: 1976-12-08; ETDE: 1989-11-03  
*All physical or material damage caused by a nuclear incident, i.e. resulting from the radioactive or other hazardous properties of nuclear materials.*  
 UF *damage (nuclear)*

RT accidents  
RT damage  
RT vcoclnd

**nuclear damage, conv. on  
supplementary compensation for  
2000-10-18**

USE cscnd

**nuclear damage, vienna civil liability  
convention**

INIS: 1984-06-21; ETDE: 2002-04-17

USE vcoclnd

**NUCLEAR DATA COLLECTIONS**

*Use only for items about nuclear data  
collections, not for items which contain  
nuclear data.*

UF endf  
UF evaluated nuclear data file  
RT cinda  
RT compiled data  
RT data base management  
RT data compilation  
RT evaluated data  
RT information systems  
RT international nuclear data committee  
RT libraries  
RT us nuclear data network

**NUCLEAR DECAY**

INIS: 1978-02-23; ETDE: 1988-10-12

BT1 decay  
NT1 alpha decay  
NT1 beta decay  
NT2 beta-minus decay  
NT3 double beta decay  
NT4 neutrinoless double beta decay  
NT2 beta-plus decay  
NT2 electron capture decay  
NT3 k capture  
NT3 l capture  
NT3 m capture  
NT1 gamma decay  
NT1 heavy ion emission decay  
NT2 carbon 12 emission decay  
NT2 carbon 14 emission decay  
NT2 carbon 16 emission decay  
NT2 magnesium 28 emission decay  
NT2 magnesium 30 emission decay  
NT2 neon 24 emission decay  
NT2 oxygen 16 emission decay  
NT2 silicon 32 emission decay  
NT2 silicon 34 emission decay  
NT1 internal conversion  
NT2 k conversion  
NT2 l conversion  
NT2 m conversion  
NT1 proton-emission decay  
NT1 spontaneous fission

**NUCLEAR DEFORMATION**

*For the deformation in the excited state of  
nuclei which are not deformed in the ground  
state.*

BT1 deformation  
RT deformed nuclei

**nuclear density**

INIS: 1984-04-04; ETDE: 2002-04-17

*Coordinate descriptor below with NEUTRON  
DENSITY and/or PROTON DENSITY.*

USE nuclear matter

**NUCLEAR DETERRENCE**

INIS: 1994-09-29; ETDE: 1984-05-08

*Nuclear adversaries overbuilding both  
warheads and delivery capacity, with a  
standoff ensuing because of the retaliatory*

*potential of the opponent deterring the would-  
be aggressor.*

RT national security  
RT nuclear weapons  
RT proliferation

**NUCLEAR DISARMAMENT**

INIS: 1998-06-10; ETDE: 1980-07-23

SF disarmament  
RT arms control  
RT ctbt  
RT ctbt  
RT fmct  
RT nuclear freeze  
RT nuclear weapons  
RT nuclear weapons dismantlement  
RT safeguards  
RT salt talks

**NUCLEAR ELECTRIC MOMENTS**

UF nuclear moments (electric)  
BT1 electric moments  
BT1 nuclear properties  
RT electric dipole moments  
RT nuclear quadrupole resonance  
RT perturbed angular correlation  
RT quadrupole moments

**NUCLEAR EMULSIONS**

RT autoradiography  
RT images  
RT latent images  
RT photographic film detectors  
RT photographic film dosimeters  
RT photographic films  
RT radiator counters

**NUCLEAR ENERGY**

*Use only in the general sense, such as for  
energy production or the comparison of  
different sources of energy.*

UF atomic energy  
BT1 energy  
RT nuclear power plants

**nuclear energy agency**

2000-04-12

USE nea

**nuclear energy agency (oecd)**

INIS: 1977-04-07; ETDE: 2002-04-17

USE nea

**NUCLEAR ENGINEERING**

BT1 engineering  
RT dual-use technologies  
RT nuclear industry  
RT reactor technology  
RT reactors  
RT technology transfer

**nuclear engineering test reactor**

2000-04-12

USE netr reactor

**nuclear evaporation**

USE evaporation model

**NUCLEAR EXCAVATION**

BT1 excavation  
RT cratering explosions  
RT nuclear explosions  
RT plowshare project  
RT surface explosions  
RT underground explosions  
RT underwater explosions

**NUCLEAR EXPLOSION  
DETECTION**

1998-06-10

UF detection (nuclear explosions)  
BT1 detection

RT atmospheric explosions  
RT ctbt  
RT in-country detection  
RT nuclear explosions  
RT nuclear forensics  
RT seismic detection  
RT underground explosions

**NUCLEAR EXPLOSIONS**

1998-06-10

*Specifically named single nuclear explosions  
are listed by name and the word EVENT, e.g.,  
BOXCAR EVENT. All projects involving  
nuclear explosions are listed by the project  
name and the word PROJECT, e.g.,  
PLOWSHARE PROJECT.*

UF agrini event  
UF almendro event  
UF annie event  
UF argus event  
UF atomic explosions  
UF baneberry event  
UF benham event  
UF bowline operation  
UF boxcar event  
UF bronco event  
UF buffalo project  
UF cabriolet event  
UF calabash event  
UF cannikin event  
UF carpetbag event  
UF danny boy event  
UF dining car event  
UF emery operation  
UF events (nuclear explosions)  
UF faultless event  
UF flintlock operation  
UF fulcrum operation  
UF fusileer operation  
UF greeley event  
UF halfbeak event  
UF handcar event  
UF handley event  
UF harry event  
UF holly event  
UF husky ace event  
UF hutch event  
UF ivy project  
UF jangle project  
UF jorum event  
UF latir event  
UF marvel event  
UF mighty epic event  
UF milrow event  
UF miniata event  
UF monique event  
UF nuclear weapon tests  
UF orange event  
UF pin stripe event  
UF pokhran event  
UF portmanteau event  
UF project buffalo  
UF project ivy  
UF project jangle  
UF redmud event  
UF romeo event  
UF rulison event  
UF scotch event  
UF smoky event  
UF starfish event  
UF swordfish event  
UF teak event  
UF tewa event  
UF tybo event  
UF wagon wheel event  
UF yankee event  
UF zuni event  
BT1 explosions  
NT1 anvil project

**NT1** arbor project  
**NT1** bedrock project  
**NT1** castle project  
**NT1** crossroads project  
**NT1** crosstie operation  
   **NT2** gasbuggy event  
**NT1** dominic project  
**NT1** greenhouse project  
**NT1** grommet operation  
**NT1** hardtack project  
**NT1** latchkey operation  
**NT1** mandrel operation  
**NT1** nougat operation  
**NT1** plumbbob project  
**NT1** praetorian project  
**NT1** ranger project  
**NT1** sandstone project  
**NT1** sun beam operation  
**NT1** thermonuclear explosions  
**NT1** toggle operation  
   **NT2** rio blanco event  
**NT1** trinity event  
**NT1** whetstone operation  
*RT* aleutian islands  
*RT* artificial radiation belts  
*RT* atmospheric explosions  
*RT* azgir test site  
*RT* cavities  
*RT* civil defense  
*RT* contained explosions  
*RT* cratering explosions  
*RT* ctbt  
*RT* ctbo  
*RT* electromagnetic pulses  
*RT* excavation  
*RT* explosive fracturing  
*RT* explosive stimulation  
*RT* fallout  
*RT* fission  
*RT* fission products  
*RT* global fallout  
*RT* ground motion  
*RT* hiroshima  
*RT* in-country detection  
*RT* little boy  
*RT* marshall islands  
*RT* nagasaki  
*RT* nevada test site  
*RT* novaya zemlya  
*RT* nuclear excavation  
*RT* nuclear explosion detection  
*RT* nuclear fireballs  
*RT* nuclear test sites  
*RT* nuclear weapons  
*RT* nuclear winter  
*RT* plowshare project  
*RT* radioactive clouds  
*RT* redwing project  
*RT* seismic effects  
*RT* seismic events  
*RT* semipalatinsk test site  
*RT* shelters  
*RT* shock waves  
*RT* surface explosions  
*RT* thunderbird project  
*RT* underground explosions  
*RT* underwater explosions  
*RT* upshot project  
*RT* vela project

**NUCLEAR EXPLOSIVES**

BT1 explosives

**NUCLEAR FACILITIES**

1996-07-18

(From August 1976 till March 1997

HUMECA URANIUM MILL was a valid ETDE descriptor.)

UF facilities (nuclear)

UF humeca uranium mill

UF installation sites  
 UF nuclear installation sites  
 UF sites (nuclear installations)  
**NT1** feed materials plants  
   **NT2** areva nc malvesi  
   **NT2** feed materials production center  
   **NT2** west valley uf6 facility  
**NT1** fuel cycle centers  
**NT1** fuel fabrication plants  
   **NT2** cimarron plutonium production plant  
   **NT2** cimarron uranium fuel plant  
   **NT2** Exxon fuel fabrication facility  
   **NT2** mixed oxide fuel fabrication plants  
   **NT2** westinghouse recycle fuels plant  
**NT1** fuel reprocessing plants  
   **NT2** areva nc la Hague  
   **NT2** barnwell fuel processing plant  
   **NT2** cea la Hague  
   **NT2** coral reprocessing plant  
   **NT2** hef  
   **NT2** idaho chemical processing plant  
   **NT2** midwest fuel recovery plant  
   **NT2** nuclear fuel recovery and recycling center  
   **NT2** rokkasho reprocessing plant  
   **NT2** sellafeld reprocessing plant  
   **NT2** tokai reprocessing plant  
   **NT2** wackersdorf reprocessing plant  
   **NT2** wak  
   **NT2** west valley processing plant  
   **NT2** westinghouse recycle fuels plant  
**NT1** hot labs  
**NT1** irradiation plants  
   **NT2** isomed  
**NT1** isotope separation plants  
   **NT2** areva nc miramas  
   **NT2** areva nc pierrelatte  
   **NT2** centrifuge enrichment plants  
     **NT3** portsmouth centrifuge enrichment plant  
     **NT3** rokkasho uranium enrichment plant  
   **NT2** gaseous diffusion plants  
     **NT3** orgdp  
     **NT3** paducah plant  
     **NT3** portsmouth gaseous diffusion plant  
   **NT2** heavy water plants  
   **NT2** tritium extraction plants  
**NT1** kyshtym plant  
**NT1** mayak plant  
**NT1** mochovce liquid raw final treatment facility  
**NT1** nuclear power plants  
   **NT2** bopssar standard plant  
   **NT2** ebasco standard plant  
   **NT2** gibbsar standard plant  
   **NT2** offshore nuclear power plants  
   **NT2** swessar standard plant  
   **NT2** underground nuclear stations  
**NT1** radioactive waste facilities  
   **NT2** asse salt mine  
   **NT2** aube plant  
   **NT2** bohunice radioactive waste processing center  
   **NT2** gorleben salt dome  
   **NT2** hades underground research facility  
   **NT2** konrad ore mine  
   **NT2** manche plant  
   **NT2** mochovce liquid raw final treatment facility  
   **NT2** mochovce radioactive waste repository  
   **NT2** morsleben salt mine  
   **NT2** pamela plant  
   **NT2** vaalputs radioactive waste disposal facility  
   **NT2** wipp

**NT1** surplus nuclear facilities  
*RT* biointrusion  
*RT* controlled areas  
*RT* distributed structures  
*RT* energy facilities  
*RT* external zones  
*RT* human intrusion  
*RT* laboratories  
*RT* maintenance facilities  
*RT* nuclear parks  
*RT* public anxiety  
*RT* site approvals  
*RT* storage facilities  
*RT* test facilities  
*RT* underground facilities

**nuclear ferromagnetism**

INIS: 1985-03-19; ETDE: 2002-04-17

Ordering of nuclear spins occurring when the temperature is lowered to the microkelvin region.

USE ferromagnetism

USE nuclear magnetism

**NUCLEAR FIREBALL MODEL**

INIS: 1978-09-28; ETDE: 1978-10-19

A nuclear reaction model for the total disintegration of the two nuclei in relativistic heavy ion reactions.

UF firestreak model

\*BT1 nuclear models

RT evaporation model

RT heavy ion reactions

RT inclusive interactions

RT quasi-fission

RT spallation

**NUCLEAR FIREBALLS**

1975-08-22

UF fireballs (nuclear)

SF fireballs

RT nuclear explosions

**NUCLEAR FORCES**

NT1 wigner force

RT binding energy

RT mass defect

RT nuclear potential

RT potentials

RT tensor forces

**NUCLEAR FORENSICS**

2015-11-20

Investigation of nuclear materials to find evidence of the source, the trafficking, and the enrichment of the material.

\*BT1 crime detection

RT nuclear explosion detection

RT nuclear materials diversion

RT proliferation

RT safeguards

RT security

**NUCLEAR FRAGMENTATION**

INIS: 1995-09-08; ETDE: 1989-06-23

(Until January 1986, this was a forbidden term and this concept was indexed by SPALLATION.)

BT1 nuclear reactions

RT deep inelastic heavy ion reactions

RT fission

RT incomplete fusion reactions

RT nuclear fragments

RT spallation

**NUCLEAR FRAGMENTS**

INIS: 1978-11-24; ETDE: 1977-09-19

Nuclear reaction products.

UF fragments (nuclear)

NT1 anomalous

NT1 fission fragments

NT1 hypernuclei  
 NT1 spallation fragments  
 RT fission  
 RT nuclear fragmentation  
 RT nuclear reaction yield  
 RT spallation

**NUCLEAR FREEZE**

INIS: 1998-06-10; ETDE: 1987-07-22

*A mutual freeze on the testing, production, and deployment of nuclear weapons and of missiles and new aircraft designed primarily to deliver nuclear weapons.*

RT arms control  
 RT ctbt  
 RT ctbto  
 RT fmct  
 RT international agreements  
 RT nuclear disarmament

**nuclear fuel centers**

INIS: 1979-02-21; ETDE: 2002-04-17

USE fuel cycle centers

**NUCLEAR FUEL CONVERSION**

*Conversion of a fertile substance into a fissile substance.*

UF conversion (nuclear fuel)  
 NT1 breeding  
 RT conversion ratio  
 RT fertile materials

**nuclear fuel elements**

USE fuel elements

**NUCLEAR FUEL RECOVERY AND RECYCLING CENTER**

INIS: 1990-12-15; ETDE: 1976-09-14

EXXON NUCLEAR FACILITY ROANE

COUNTY, Tennessee, USA.

(Prior to December 1990, this concept was indexed by EXXON RECOVERY AND RECYCLE PLA.)

UF exxon recovery and recycle plant  
 SF exxon nuclear facility  
 \*BT1 fuel reprocessing plants  
 RT tennessee

**NUCLEAR FUELS**

UF fuels (nuclear)  
 UF reactor fuels  
 UF reactor fuels (fission)  
 BT1 energy sources  
 BT1 fuels  
 \*BT1 reactor materials  
 NT1 accident-tolerant nuclear fuels  
 NT1 alloy nuclear fuels  
 NT2 uranium-molybdenum fuels  
 NT1 denatured fuel  
 NT1 dispersion nuclear fuels  
 NT1 fuel solutions  
 NT1 liquid metal fuels  
 NT1 mixed carbide fuels  
 NT1 mixed nitride fuels  
 NT1 mixed oxide fuels  
 NT1 molten salt fuels  
 NT1 spent fuels  
 RT accelerator breeders  
 RT burnup  
 RT fertile materials  
 RT fissile materials  
 RT fissium  
 RT fuel-cladding interactions  
 RT fuel-coolant interactions  
 RT fuel cycle  
 RT fuel densification  
 RT fuel elements  
 RT fuel integrity  
 RT fuel particles  
 RT fuel pellets  
 RT fuel washers

RT gas fuels  
 RT non-proliferation policy  
 RT nuclear materials management  
 RT plutonium  
 RT reactors  
 RT thorium cycle  
 RT uranium

**NUCLEAR FURNACE REACTOR**

LASL, Los Alamos, New Mexico, USA.

\*BT1 beryllium moderated reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 research and test reactors  
 \*BT1 tank type reactors  
 \*BT1 water moderated reactors

**NUCLEAR HALOS**

1995-07-06

UF halo states  
 UF neutron halos  
 UF proton halos  
 RT nuclear potential  
 RT nuclear structure

**NUCLEAR INDUSTRY**

BT1 industry  
 RT construction  
 RT fuel fabrication plants  
 RT fuel reprocessing plants  
 RT gaseous diffusion plants  
 RT nuclear engineering  
 RT nuclear parks  
 RT usur

**nuclear installation sites**

INIS: 1976-12-08; ETDE: 2002-04-17

*If appropriate use one of the specific types of facilities.*

USE nuclear facilities

**nuclear installations inspectorate**

INIS: 1993-11-09; ETDE: 2002-04-17

USE uk nii

**NUCLEAR INSTRUMENT MODULES**

*Standard instrumentation modules designed to be interchangeable physically and electrically.*

UF aec-nim  
 UF nim  
 RT camac system  
 RT computers  
 RT data acquisition systems  
 RT data transmission  
 RT electronic equipment  
 RT fastbus system  
 RT modular structures  
 RT on-line control systems

**NUCLEAR INSURANCE**

BT1 insurance  
 RT price-anderson act

**NUCLEAR LIABILITY**

INIS: 1976-12-08; ETDE: 1991-08-20

*The special liability regime, for nuclear damage, of the operators of nuclear installations.*

BT1 liabilities  
 RT cscnd  
 RT liability exclusions  
 RT liability limitations  
 RT nuclear operators  
 RT pcoptl  
 RT price-anderson act  
 RT time limitations  
 RT vcoclnd

**nuclear log**

INIS: 2000-04-12; ETDE: 1976-06-07

USE radioactivity logging

**NUCLEAR MAGNETIC LOGGING**

INIS: 1978-04-21; ETDE: 1976-06-07

UF nmr logging  
 BT1 well logging

**NUCLEAR MAGNETIC MOMENTS**

UF nuclear moments (magnetic)  
 BT1 magnetic moments  
 BT1 nuclear properties  
 RT magnetic dipole moments  
 RT nuclear magnetism  
 RT perturbed angular correlation  
 RT quadrupole moments  
 RT schmidt lines

**NUCLEAR MAGNETIC RESONANCE**

UF nmr  
 UF nuclear spin resonance  
 UF paramagnetic resonance (nuclear)  
 \*BT1 magnetic resonance  
 NT1 acoustic nmr  
 NT1 td-nmr  
 RT chemical shift  
 RT contrast media  
 RT double resonance methods  
 RT knight shift  
 RT level mixing resonance  
 RT nmr imaging  
 RT nmr spectra  
 RT nuclear magnetism  
 RT overhauser effect  
 RT spin echo  
 RT spin-lattice relaxation  
 RT spin-spin relaxation  
 RT structural chemical analysis

**nuclear magnetic resonance spectra**

INIS: 1993-11-09; ETDE: 2002-04-17

USE nmr spectra

**NUCLEAR MAGNETISM**

INIS: 1985-03-19; ETDE: 1990-11-20

*Refers to ordering of nuclear spins at extremely low temperatures.*

UF nuclear ferromagnetism  
 BT1 magnetism  
 RT nuclear magnetic moments  
 RT nuclear magnetic resonance  
 RT spin orientation

**nuclear mater, agencia brasil-argentina contabil controle**

INIS: 1999-06-22; ETDE: 2002-04-17

USE abacc

**nuclear materials, convention on physical protection**

INIS: 1993-11-09; ETDE: 2002-04-17

USE cppnm

**NUCLEAR MATERIALS DIVERSION**

RT civex process  
 RT cppnm  
 RT detection  
 RT dual-use technologies  
 RT motion detection systems  
 RT non-proliferation policy  
 RT nuclear forensics  
 RT safeguards  
 RT security personnel

**NUCLEAR MATERIALS MANAGEMENT**

UF accountability (nuclear materials)  
 UF dymac system  
 UF dynamic materials accountability system  
 UF fissionable materials management  
 SF accountability

BT1 management  
 NT1 fuel management  
 RT accounting  
 RT cost  
 RT cppnm  
 RT detection  
 RT fissile materials  
 RT fissionable materials  
 RT fuel cycle  
 RT harvest process  
 RT identification systems  
 RT intrusion detection systems  
 RT losses  
 RT material unaccounted for  
 RT nuclear fuels  
 RT nuclear materials possession  
 RT nuclear weapons dismantlement  
 RT radioactive wastes  
 RT reprocessing  
 RT safeguards

**NUCLEAR MATERIALS****POSSESSION**

INIS: 1977-04-07; ETDE: 1977-06-03  
 UF possession (nuclear materials)  
 RT non-proliferation treaty  
 RT nuclear materials management  
 RT nuclear trade  
 RT proliferation  
 RT safeguard regulations  
 RT safeguards

**NUCLEAR MATRIX**

BT1 matrices

**NUCLEAR MATTER**

UF neutron matter  
 UF nuclear density  
 UF nuclear matter density  
 BT1 matter  
 RT centauro-type events  
 RT neutron stars  
 RT nuclei  
 RT pion condensation  
 RT quark matter  
 RT walecka model

**nuclear matter density**

INIS: 1984-04-04; ETDE: 2002-04-17  
 Coordinate descriptor below with NEUTRON DENSITY and/or PROTON DENSITY.  
 USE nuclear matter

**NUCLEAR MEDICINE**

UF radiodiagnosis (radionuclides)  
 BT1 medicine  
 NT1 radiology  
 NT2 biomedical radiography  
 NT3 fluoroscopy  
 NT3 ionographic imaging  
 NT3 osteodensitometry  
 NT3 renography  
 NT2 radiotherapy  
 NT3 afterloading  
 NT3 brachytherapy  
 NT4 radioembolization  
 NT3 ct-guided radiotherapy  
 NT3 external beam radiation therapy  
 NT3 neutron therapy  
 NT4 neutron capture therapy  
 NT3 radioimmunotherapy  
 RT clearance  
 RT diagnosis  
 RT diagnostic techniques  
 RT gamma cameras  
 RT labelled compounds  
 RT positron cameras  
 RT radioisotope scanning  
 RT radioisotopes  
 RT radiopharmaceuticals

RT scintiscanning  
 RT tracer techniques

**NUCLEAR MERCHANT SHIPS**

INIS: 1976-11-17; ETDE: 1978-05-01  
 UF commercial nuclear ships  
 \*BT1 nuclear ships  
 NT1 ns mutsu  
 NT1 ns otto hahn  
 NT1 ns savannah

**NUCLEAR MODELS**

1996-01-24  
 UF models (nuclear)  
 BT1 mathematical models  
 NT1 black nucleus model  
 NT1 brueckner model  
 NT1 cloudy crystal ball model  
 NT1 cluster model  
 NT1 coherent tube model  
 NT1 collective model  
 NT2 rotation-vibration model  
 NT1 cranking model  
 NT1 davydov-filipov model  
 NT1 droplet model  
 NT1 elliot model  
 NT1 evaporation model  
 NT2 weisskopf model  
 NT1 exciton model  
 NT1 fermi gas model  
 NT1 folding model  
 NT1 goldberger model  
 NT1 lane-thomas-wigner model  
 NT1 liquid drop model  
 NT1 nilsson-mottelson model  
 NT1 nuclear fireball model  
 NT1 order-disorder model  
 NT1 particle-core coupling model  
 NT1 particle-hole model  
 NT1 perey-buck model  
 NT1 quartet model  
 NT1 quasiparticle-phonon model  
 NT1 scission-point model  
 NT1 shell models  
 NT2 governor model  
 NT2 interacting boson model  
 NT2 multi-center shell model  
 NT1 single-particle model  
 NT1 spherical model  
 NT1 strong-absorption model  
 NT1 superfluid model  
 NT1 unified model  
 NT1 valency model  
 NT1 vibron model  
 NT1 vmi model  
 NT1 walecka model  
 NT1 weak-coupling model  
 RT bohr-wheeler theory  
 RT brueckner method  
 RT compound nuclei  
 RT deformed nuclei  
 RT hamada-johnston potential  
 RT harmonic oscillator models  
 RT hartree-fock-bogolyubov theory  
 RT hartree-fock method  
 RT hill-wheeler theory  
 RT hurwitz effect  
 RT hydrodynamic model  
 RT kisslinger-sorensen theory  
 RT nuclear radii  
 RT nuclear structure  
 RT nucleon-nucleon potential  
 RT optical models  
 RT strutinsky theory  
 RT thomas-fermi model

**NUCLEAR MOLECULES**

RT interactions  
 RT nuclei

**nuclear moments (electric)**

INIS: 1984-04-04; ETDE: 2002-04-17  
 USE nuclear electric moments

**nuclear moments (magnetic)**

INIS: 1984-04-04; ETDE: 2002-04-17  
 USE nuclear magnetic moments

**NUCLEAR OPERATORS**

INIS: 1976-12-08; ETDE: 1991-08-20  
 The financially responsible organizations or persons.  
 UF operators (nuclear facilities)  
 RT national organizations  
 RT notification procedures  
 RT nuclear liability  
 RT wano

**NUCLEAR PARKS**

A facility containing a nuclear power plant plus on-site support industries such as fuel fabrication plants, reprocessing plants, etc.  
 UF parks (nuclear)  
 BT1 energy parks  
 RT fuel fabrication plants  
 RT fuel reprocessing plants  
 RT nuclear facilities  
 RT nuclear industry  
 RT nuclear power plants

**NUCLEAR PHYSICS**

Use only for indexing articles of very broad coverage, such as annual reviews, text books, etc.  
 BT1 physics  
 RT high energy physics  
 RT neutron physics  
 RT nuclear chemistry  
 RT nuclear theory

**nuclear physics research institute amsterdam**

INIS: 1993-11-09; ETDE: 2002-04-17  
 USE iko

**NUCLEAR POISONS**

Neutron absorbers in a reactor.  
 UF poisons (nuclear)  
 \*BT1 reactor materials  
 NT1 burnable poisons  
 NT1 fission poisons  
 NT1 soluble poisons  
 RT poisoning  
 RT reactor poison removal  
 RT samarium oscillations  
 RT xenon oscillations

**NUCLEAR POTENTIAL**

1996-07-08  
 BT1 potentials  
 NT1 fission barrier  
 NT1 hard-core potential  
 NT1 harmonic potential  
 NT1 hulthen potential  
 NT1 soft-core potential  
 NT1 square-well potential  
 NT1 woods-saxon potential  
 NT1 yukawa potential  
 RT gamow barrier  
 RT hamada-johnston potential  
 RT nonlocal potential  
 RT nuclear forces  
 RT nuclear halos  
 RT optical models  
 RT tabakin potential  
 RT wigner-eisenbud theory

**NUCLEAR POWER**

UF nuclear controversy  
 BT1 power  
 NT1 residual power

RT electric power  
 RT electric power industry  
 RT nuclear power phaseout  
 RT off-peak power  
 RT power generation

### **nuclear power demonstration reactor-2 canada**

2000-04-12

USE npd reactor

### **nuclear power demonstration reactor canada**

1993-11-09

USE npd reactor

### **NUCLEAR POWER PHASEOUT**

INIS: 1982-12-03; ETDE: 1978-10-25

Policy scenario wherein plants now operating or under construction are allowed normal-life operation, but no additional plants are allowed.

RT energy policy  
 RT government policies  
 RT nuclear power

### **nuclear power plant research institute**

2002-12-17

USE vuje

### **NUCLEAR POWER PLANTS**

1997-06-17

UF nuclear power stations  
 BT1 nuclear facilities  
 \*BT1 thermal power plants  
 NT1 bopssar standard plant  
 NT1 ebasco standard plant  
 NT1 gibbsar standard plant  
 NT1 offshore nuclear power plants  
 NT1 swessar standard plant  
 NT1 underground nuclear stations  
 RT nuclear energy  
 RT nuclear parks  
 RT power reactors  
 RT reactor sites  
 RT risk assessment  
 RT thermonuclear power plants

### **nuclear power stations**

USE nuclear power plants

### **NUCLEAR PROPERTIES**

NT1 nuclear electric moments  
 NT1 nuclear magnetic moments  
 NT1 nuclear radii  
 RT limiting values  
 RT nuclear structure

### **nuclear-pumped lasers**

INIS: 1984-04-04; ETDE: 2002-04-17

Coordinate descriptor below with appropriate descriptor from word block for LASERS.

USE nuclear pumping

### **NUCLEAR PUMPING**

Laser-like pumping in nuclei, produced by electrons or, in general, by beams of charged particles.

UF nuclear-pumped lasers  
 UF pumping (nuclear)  
 BT1 pumping  
 RT electrical pumping  
 RT gasers  
 RT lasers  
 RT optical pumping  
 RT stimulated emission

### **NUCLEAR QUADRUPOLE RESONANCE**

BT1 resonance

RT electric fields  
 RT level mixing resonance  
 RT nuclear electric moments  
 RT quadrupole moments

### **NUCLEAR RADII**

UF charge radius (nuclear)  
 UF mass radius (nuclear)  
 BT1 nuclear properties  
 RT charge distribution  
 RT nuclear models  
 RT nuclear structure  
 RT particle radii

### **NUCLEAR REACTION ANALYSIS**

1999-05-04

Chemical analysis based on detection and analysis of prompt nuclear reaction products, e.g., gamma rays, neutrons, or charged particles.

UF analysis (nuclear reaction)  
 UF nra  
 UF pige analysis  
 \*BT1 nondestructive analysis  
 NT1 delayed neutron analysis  
 RT activation analysis  
 RT nuclear reaction analyzers

### **NUCLEAR REACTION ANALYZERS**

INIS: 1986-01-21; ETDE: 1979-01-30

BT1 measuring instruments  
 RT delayed neutron analysis  
 RT fuel scanning  
 RT neutron activation analyzers  
 RT nuclear reaction analysis

### **NUCLEAR REACTION KINETICS**

\*BT1 reaction kinetics  
 RT coupled channel born approximation  
 RT distorted wave theory  
 RT dwba  
 RT finite-range interactions  
 RT nuclear reactions  
 RT q-value  
 RT rescattering  
 RT resonating-group method  
 RT spin flip  
 RT zero-range approximation

### **NUCLEAR REACTION YIELD**

UF yield (nuclear reaction)  
 BT1 yields  
 NT1 fission yield  
 NT1 fusion yield  
 RT nuclear fragments  
 RT nuclear reactions

### **NUCLEAR REACTIONS**

1995-05-09

NT1 antineutrino reactions  
 NT1 breakup reactions  
 NT1 charge-exchange reactions  
 NT1 charged-particle reactions  
 NT2 alpha reactions  
 NT2 deuteron reactions  
 NT3 antideuteron reactions  
 NT2 electron reactions  
 NT3 electrofission  
 NT2 helium 3 reactions  
 NT2 meson reactions  
 NT3 kaon reactions  
 NT4 kaon minus reactions  
 NT4 kaon neutral reactions  
 NT4 kaon plus reactions  
 NT3 pion reactions  
 NT4 pion minus reactions  
 NT4 pion plus reactions  
 NT2 muon reactions  
 NT2 proton reactions  
 NT2 triton reactions  
 NT1 cold fusion

NT1 compound-nucleus reactions  
 NT1 direct reactions  
 NT2 knock-on reactions  
 NT2 knock-out reactions  
 NT2 quasi-free reactions  
 NT3 quasi-elastic scattering  
 NT2 transfer reactions  
 NT3 multi-nucleon transfer reactions  
 NT4 four-nucleon transfer reactions  
 NT5 alpha-transfer reactions  
 NT4 many-nucleon transfer reactions  
 NT4 three-nucleon transfer reactions  
 NT4 two-nucleon transfer reactions  
 NT3 one-nucleon transfer reactions  
 NT3 pickup reactions  
 NT3 stripping  
 NT1 fission  
 NT2 binary fission  
 NT2 cold fission  
 NT2 electrofission  
 NT2 fast fission  
 NT2 photofission  
 NT2 quaternary fission  
 NT2 spontaneous fission  
 NT2 ternary fission  
 NT2 thermal fission  
 NT1 hadron reactions  
 NT2 baryon reactions  
 NT3 hyperon reactions  
 NT3 nucleon reactions  
 NT4 antinucleon reactions  
 NT5 antineutron reactions  
 NT5 antiproton reactions  
 NT4 neutron reactions  
 NT5 fast fission  
 NT5 thermal fission  
 NT4 proton reactions  
 NT2 meson reactions  
 NT3 kaon reactions  
 NT4 kaon minus reactions  
 NT4 kaon neutral reactions  
 NT4 kaon plus reactions  
 NT3 pion reactions  
 NT4 pion minus reactions  
 NT4 pion plus reactions  
 NT1 heavy ion reactions  
 NT2 aluminium 27 reactions  
 NT2 argon 36 reactions  
 NT2 argon 40 reactions  
 NT2 beryllium 11 reactions  
 NT2 beryllium 7 reactions  
 NT2 beryllium 8 reactions  
 NT2 beryllium 9 reactions  
 NT2 bismuth 209 reactions  
 NT2 boron 10 reactions  
 NT2 boron 11 reactions  
 NT2 boron 8 reactions  
 NT2 bromine 79 reactions  
 NT2 bromine 81 reactions  
 NT2 calcium 40 reactions  
 NT2 calcium 42 reactions  
 NT2 calcium 44 reactions  
 NT2 calcium 48 reactions  
 NT2 carbon 12 reactions  
 NT2 carbon 13 reactions  
 NT2 carbon 14 reactions  
 NT2 chlorine 35 reactions  
 NT2 chlorine 37 reactions  
 NT2 chromium 52 reactions  
 NT2 chromium 54 reactions  
 NT2 cobalt 59 reactions  
 NT2 copper 63 reactions  
 NT2 copper 65 reactions  
 NT2 deep inelastic heavy ion reactions  
 NT2 dysprosium 161 reactions  
 NT2 erbium 166 reactions  
 NT2 fluorine 19 reactions  
 NT2 gadolinium 155 reactions  
 NT2 germanium 70 reactions

- NT2** germanium 74 reactions  
**NT2** germanium 76 reactions  
**NT2** gold 197 reactions  
**NT2** heavy ion fusion reactions  
**NT2** helium 6 reactions  
**NT2** helium 8 reactions  
**NT2** holmium 165 reactions  
**NT2** incomplete fusion reactions  
**NT2** iodine 127 reactions  
**NT2** iron 54 reactions  
**NT2** iron 56 reactions  
**NT2** iron 58 reactions  
**NT2** krypton 80 reactions  
**NT2** krypton 82 reactions  
**NT2** krypton 83 reactions  
**NT2** krypton 84 reactions  
**NT2** krypton 86 reactions  
**NT2** lanthanum 139 reactions  
**NT2** lead 206 reactions  
**NT2** lead 208 reactions  
**NT2** lithium 11 reactions  
**NT2** lithium 6 reactions  
**NT2** lithium 7 reactions  
**NT2** lithium 8 reactions  
**NT2** lithium 9 reactions  
**NT2** magnesium 24 reactions  
**NT2** magnesium 25 reactions  
**NT2** magnesium 26 reactions  
**NT2** manganese 55 reactions  
**NT2** molybdenum 100 reactions  
**NT2** molybdenum 92 reactions  
**NT2** molybdenum 96 reactions  
**NT2** molybdenum 98 reactions  
**NT2** neodymium 142 reactions  
**NT2** neodymium 150 reactions  
**NT2** neon 20 reactions  
**NT2** neon 22 reactions  
**NT2** neon 29 reactions  
**NT2** nickel 58 reactions  
**NT2** nickel 59 reactions  
**NT2** nickel 60 reactions  
**NT2** nickel 61 reactions  
**NT2** nickel 62 reactions  
**NT2** nickel 64 reactions  
**NT2** niobium 93 reactions  
**NT2** nitrogen 13 reactions  
**NT2** nitrogen 14 reactions  
**NT2** nitrogen 15 reactions  
**NT2** oxygen 14 reactions  
**NT2** oxygen 16 reactions  
**NT2** oxygen 17 reactions  
**NT2** oxygen 18 reactions  
**NT2** palladium 110 reactions  
**NT2** palladium 118 reactions  
**NT2** phosphorus 31 reactions  
**NT2** potassium 39 reactions  
**NT2** quasi-fission  
**NT2** ruthenium 104 reactions  
**NT2** samarium 144 reactions  
**NT2** samarium 154 reactions  
**NT2** scandium 45 reactions  
**NT2** selenium 76 reactions  
**NT2** selenium 80 reactions  
**NT2** selenium 82 reactions  
**NT2** silicon 28 reactions  
**NT2** silicon 29 reactions  
**NT2** silicon 30 reactions  
**NT2** silver 109 reactions  
**NT2** sodium 23 reactions  
**NT2** sulfur 32 reactions  
**NT2** sulfur 33 reactions  
**NT2** sulfur 34 reactions  
**NT2** sulfur 36 reactions  
**NT2** sulfur 39 reactions  
**NT2** tellurium 130 reactions  
**NT2** thallium 205 reactions  
**NT2** thorium 232 reactions  
**NT2** tin 112 reactions  
**NT2** tin 116 reactions  
**NT2** tin 118 reactions  
**NT2** tin 120 reactions  
**NT2** tin 122 reactions  
**NT2** tin 124 reactions  
**NT2** titanium 46 reactions  
**NT2** titanium 48 reactions  
**NT2** titanium 49 reactions  
**NT2** titanium 50 reactions  
**NT2** tungsten 183 reactions  
**NT2** tungsten 184 reactions  
**NT2** uranium 235 reactions  
**NT2** uranium 238 reactions  
**NT2** vanadium 51 reactions  
**NT2** xenon 129 reactions  
**NT2** xenon 132 reactions  
**NT2** xenon 134 reactions  
**NT2** xenon 136 reactions  
**NT2** zinc 64 reactions  
**NT2** zinc 68 reactions  
**NT2** zinc 70 reactions  
**NT2** zirconium 90 reactions  
**NT2** zirconium 92 reactions  
**NT2** zirconium 96 reactions  
**NT1** lepton reactions  
**NT2** electron reactions  
**NT3** electrofission  
**NT2** muon reactions  
**NT2** neutrino reactions  
**NT2** positron reactions  
**NT1** nuclear fragmentation  
**NT1** photonuclear reactions  
**NT2** photofission  
**NT1** precompound-nucleus emission  
**NT1** secondary reactions  
**NT1** spallation  
**NT1** strangeness-exchange reactions  
**NT1** thermonuclear reactions  
**NT2** controlled thermonuclear fusion  
**NT2** impact fusion  
**NT2** muon-catalyzed fusion  
**RT** capture  
**RT** capture-to-fission ratio  
**RT** chain reactions  
**RT** cinda  
**RT** coherent tube model  
**RT** coupled channel born approximation  
**RT** coupled channel theory  
**RT** cross sections  
**RT** delayed gamma radiation  
**RT** detailed balance principle  
**RT** excitation functions  
**RT** feshbach-weisskopf model  
**RT** form factors  
**RT** g matrix  
**RT** giant resonance  
**RT** hauser-feshbach theory  
**RT** hot atom chemistry  
**RT** impact parameter  
**RT** integral cross sections  
**RT** intermediate resonance  
**RT** intermediate structure  
**RT** jackson model  
**RT** k matrix  
**RT** lane-robson theory  
**RT** lewis peak  
**RT** longitudinal momentum  
**RT** nuclear reaction kinetics  
**RT** nuclear reaction yield  
**RT** oppenheimer-phillips process  
**RT** polarized products  
**RT** prompt gamma radiation  
**RT** proximity scattering  
**RT** r matrix  
**RT** reaction product transport systems  
**RT** reich-moore formula  
**RT** rescattering  
**RT** scattering  
**RT** shadow effect  
**RT** skyrme potential  
**RT** spectroscopic factors  
**RT** strangeness analog resonances  
**RT** targets  
**RT** threshold energy  
**RT** transverse energy  
**RT** transverse momentum  
**RT** valency model  
**RT** yang theorem  
**nuclear reactors**  
 USE reactors  
**nuclear regulatory authority of the slovak republic**  
 2002-12-17  
 USE ujd  
**nuclear research centre, tehran**  
 INIS: 1976-10-07; ETDE: 2002-04-17  
 USE tehran nuclear research centre  
**nuclear safety**  
 USE radiation protection  
**nuclear safety convention**  
 1999-12-23  
 USE international convention on nuclear safety  
**nuclear safety culture**  
 2003-01-17  
 USE safety culture  
**nuclear safety facility-rfp reactor**  
 1993-11-09  
 USE nsf-rfp reactor  
**NUCLEAR SAFETY PILOT PLANT**  
 UF nspp  
 BT1 reactor safety experiments  
**nuclear safety research reactor (japan)**  
 INIS: 1993-11-09; ETDE: 1976-05-19  
 USE nsrr reactor  
**nuclear science center reactor texas**  
 1993-11-09  
 USE nscr reactor  
**NUCLEAR SCREENING**  
 UF screening (nuclear)  
 RT coulomb field  
 RT effective charge  
**nuclear ship arktika reactor**  
 INIS: 2000-04-12; ETDE: 1994-09-12  
 USE leonid brezhnev reactor  
**nuclear ship lenin reactor**  
 2000-04-12  
 USE lenin reactor  
**nuclear ship leonid brezhnev reactor**  
 INIS: 1993-11-09; ETDE: 1994-09-12  
 USE leonid brezhnev reactor  
**nuclear ship mutsu reactor**  
 2000-04-12  
 USE mutsu reactor  
**nuclear ship operation liability convention, brussels**  
 INIS: 1993-11-09; ETDE: 2002-04-17  
 Brussels Convention on Liability for Operation of NuclearShips.  
 USE bcolons  
**nuclear ship otto hahn reactor**  
 1993-11-09  
 USE otto hahn reactor



**nuclear ship savannah reactor**

2000-04-12

USE savannah reactor

**nuclear ship sibir reactor**

INIS: 1985-09-09; ETDE: 2002-04-17

USE sibir reactor

**NUCLEAR SHIP VISITS**

INIS: 1976-12-08; ETDE: 1981-04-17

RT bcolons

RT maritime laws

RT nuclear ships

RT territorial waters

RT transport regulations

**NUCLEAR SHIPS**

BT1 ships

NT1 ns enrico fermi

NT1 ns lenin

NT1 ns leonid brezhnev

NT1 ns sibir

NT1 nuclear merchant ships

NT2 ns mutsu

NT2 ns otto hahn

NT2 ns savannah

RT bcolons

RT nuclear ship visits

RT ship propulsion reactors

RT solas convention

RT submarines

**NUCLEAR SPECIFIC HEAT**

1976-03-17

*Contribution to specific heat by lattice vibrations.*

\*BT1 specific heat

RT electronic specific heat

RT lattice vibrations

**nuclear spin resonance**

USE nuclear magnetic resonance

**NUCLEAR STRUCTURE**

1995-07-03

RT backbending

RT belyaev theory

RT energy levels

RT even-even nuclei

RT even-odd nuclei

RT generator-coordinate method

RT hartree-fock-bogolyubov theory

RT hartree-fock method

RT heavy nuclei

RT interacting boson model

RT intermediate mass nuclei

RT k-harmonics method

RT light nuclei

RT magic nuclei

RT nuclear cores

RT nuclear halos

RT nuclear models

RT nuclear properties

RT nuclear radii

RT nuclei

RT odd-even nuclei

RT odd-odd nuclei

RT particle-core coupling model

RT quartet model

RT yrast states

**NUCLEAR SUPERHEATING**

\*BT1 superheating

**NUCLEAR TEMPERATURE**

UF temperature (nuclear)

RT energy

RT evaporation model

RT nuclei

**nuclear test reactor general electric****company**

1993-11-09

USE ntr reactor

**NUCLEAR TEST SITES**

1999-01-25

NT1 azgir test site

NT1 nevada test site

NT1 semipalatinsk test site

RT nuclear explosions

RT nuclear weapons

**NUCLEAR THEORY**

NT1 hauser-feshbach theory

RT broken-pair approximation

RT nuclear physics

**NUCLEAR TRADE**

INIS: 1976-12-08; ETDE: 1978-03-08

*Trade or commerce involving special nuclear material or any other radioactive materials, instruments, equipment, plants, etc., of nuclear interest.*

UF commerce (nuclear)

UF trade (nuclear)

BT1 trade

RT economic development

RT economic policy

RT nuclear materials possession

RT transport

**nuclear transmutation**

USE transmutation

**NUCLEAR WASTE POLICY ACTS**

INIS: 1985-07-22; ETDE: 1984-06-29

*For legislation of any country relating to the handling of nuclear radioactive wastes.*

UF radioactive waste policy acts

\*BT1 atomic energy laws

\*BT1 waste disposal acts

RT high-level radioactive wastes

RT low-level radioactive wastes

RT radioactive waste disposal

RT radioactive wastes

RT spent fuel storage

RT spent fuels

**nuclear wastes**

INIS: 2000-04-12; ETDE: 1979-11-23

USE radioactive wastes

**nuclear weapon tests**

USE nuclear explosions

**NUCLEAR WEAPONS**

1998-06-10

(Prior to August 1996 TUMBLER PROJECT was a valid ETDE descriptor.)

UF atomic bombs

UF atomic weapons

UF nuclear attacks

UF thermonuclear weapons

SF tumbler project

BT1 weapons

NT1 enhanced radiation weapons

NT1 little boy

RT azgir test site

RT ballistic missile defense

RT bangkok treaty

RT castle project

RT civil defense

RT ctbt

RT ctbt

RT fallout

RT fmct

RT hiroshima

RT local fallout

RT manhattan project

RT nagasaki

RT national defense

RT nevada test site

RT non-proliferation policy

RT nuclear deterrence

RT nuclear disarmament

RT nuclear explosions

RT nuclear test sites

RT nuclear winter

RT overpressure

RT pelindaba treaty

RT plumbbob project

RT projectiles

RT rarotonga treaty

RT redwing project

RT semipalatinsk test site

RT shelters

RT teapot project

RT tlalotelco treaty

RT unidir

**nuclear weapons, latin american prohibition treaty**

INIS: 1993-11-09; ETDE: 2002-04-17

USE tlalotelco treaty

**NUCLEAR WEAPONS****DISMANTLEMENT**

1994-09-30

*The program for disassembly of nuclear weapons and the destruction, conversion or storage of their constituent materials, including the plutonium or highly enriched uranium.*

UF dismantlement (nuclear weapons)

RT arms control

RT non-proliferation policy

RT nuclear disarmament

RT nuclear materials management

RT proliferation

**nuclear weapons proliferation**

INIS: 1978-02-23; ETDE: 1978-04-27

USE proliferation

**NUCLEAR WINTER**

INIS: 1986-09-26; ETDE: 1985-05-31

*The atmospheric effects resulting from nuclear war. The major effect is considered to be a hemispheric temperature drop to as low as -40 deg C lasting several months.*

RT ambient temperature

RT climates

RT environmental impacts

RT nuclear explosions

RT nuclear weapons

**nuclease (deoxyribonuclease)**

USE dna-ase

**nuclease (ribonuclease)**

USE rna-ase

**NUCLEASES**

\*BT1 phosphodiesterases

NT1 dna-ase

NT2 endonucleases

NT1 rna-ase

RT micrococcus luteus

RT nucleic acids

RT nucleoproteins

**NUCLEATE BOILING**

\*BT1 boiling

NT1 departure nucleate boiling

RT heat transfer

RT nucleation

**NUCLEATION**

RT crystal growth

RT crystallization

RT nucleate boiling

**NUCLEBRAS***INIS: 1977-03-29; ETDE: 1977-06-03*

\*BT1 brazilian organizations

**NUCLEI****NT1** antinuclei**NT2** antideuterons**NT2** antiprotons**NT2** antitritons**NT1** cosmic nuclei**NT1** deformed nuclei**NT2** superdeformed nuclei**NT1** even-even nuclei**NT2** argon 30**NT2** argon 32**NT2** argon 34**NT2** argon 36**NT2** argon 38**NT2** argon 40**NT2** argon 42**NT2** argon 44**NT2** argon 46**NT2** argon 48**NT2** argon 50**NT2** argon 52**NT2** barium 114**NT2** barium 116**NT2** barium 118**NT2** barium 120**NT2** barium 122**NT2** barium 124**NT2** barium 126**NT2** barium 128**NT2** barium 130**NT2** barium 132**NT2** barium 134**NT2** barium 136**NT2** barium 138**NT2** barium 140**NT2** barium 142**NT2** barium 144**NT2** barium 146**NT2** barium 148**NT2** barium 150**NT2** barium 152**NT2** beryllium 10**NT2** beryllium 12**NT2** beryllium 14**NT2** beryllium 16**NT2** beryllium 6**NT2** beryllium 8**NT2** cadmium 100**NT2** cadmium 102**NT2** cadmium 104**NT2** cadmium 106**NT2** cadmium 108**NT2** cadmium 110**NT2** cadmium 112**NT2** cadmium 114**NT2** cadmium 116**NT2** cadmium 118**NT2** cadmium 120**NT2** cadmium 122**NT2** cadmium 124**NT2** cadmium 126**NT2** cadmium 128**NT2** cadmium 130**NT2** cadmium 132**NT2** cadmium 96**NT2** cadmium 98**NT2** calcium 34**NT2** calcium 36**NT2** calcium 38**NT2** calcium 40**NT2** calcium 42**NT2** calcium 44**NT2** calcium 46**NT2** calcium 48**NT2** calcium 50**NT2** calcium 52**NT2** calcium 54**NT2** calcium 56**NT2** calcium 58**NT2** calcium 60**NT2** californium 236**NT2** californium 238**NT2** californium 240**NT2** californium 242**NT2** californium 244**NT2** californium 246**NT2** californium 248**NT2** californium 250**NT2** californium 252**NT2** californium 254**NT2** californium 256**NT2** carbon 10**NT2** carbon 12**NT2** carbon 14**NT2** carbon 16**NT2** carbon 18**NT2** carbon 20**NT2** carbon 22**NT2** carbon 8**NT2** cerium 120**NT2** cerium 122**NT2** cerium 124**NT2** cerium 126**NT2** cerium 128**NT2** cerium 130**NT2** cerium 132**NT2** cerium 134**NT2** cerium 136**NT2** cerium 138**NT2** cerium 140**NT2** cerium 142**NT2** cerium 144**NT2** cerium 146**NT2** cerium 148**NT2** cerium 150**NT2** cerium 152**NT2** cerium 154**NT2** cerium 156**NT2** chromium 42**NT2** chromium 44**NT2** chromium 46**NT2** chromium 48**NT2** chromium 50**NT2** chromium 52**NT2** chromium 54**NT2** chromium 56**NT2** chromium 58**NT2** chromium 60**NT2** chromium 62**NT2** chromium 64**NT2** chromium 66**NT2** chromium 68**NT2** copernicium 278**NT2** copernicium 282**NT2** copernicium 284**NT2** curium 232**NT2** curium 234**NT2** curium 236**NT2** curium 238**NT2** curium 240**NT2** curium 242**NT2** curium 244**NT2** curium 246**NT2** curium 248**NT2** curium 250**NT2** curium 252**NT2** darmstadtium 270**NT2** darmstadtium 272**NT2** dysprosium 138**NT2** dysprosium 140**NT2** dysprosium 142**NT2** dysprosium 144**NT2** dysprosium 146**NT2** dysprosium 148**NT2** dysprosium 150**NT2** dysprosium 152**NT2** dysprosium 154**NT2** dysprosium 156**NT2** dysprosium 158**NT2** dysprosium 160**NT2** dysprosium 162**NT2** dysprosium 164**NT2** dysprosium 166**NT2** dysprosium 168**NT2** dysprosium 170**NT2** dysprosium 172**NT2** element 124 312**NT2** erbium 144**NT2** erbium 146**NT2** erbium 148**NT2** erbium 150**NT2** erbium 152**NT2** erbium 154**NT2** erbium 156**NT2** erbium 158**NT2** erbium 160**NT2** erbium 162**NT2** erbium 164**NT2** erbium 166**NT2** erbium 168**NT2** erbium 170**NT2** erbium 172**NT2** erbium 174**NT2** erbium 176**NT2** fermium 242**NT2** fermium 244**NT2** fermium 246**NT2** fermium 248**NT2** fermium 250**NT2** fermium 252**NT2** fermium 254**NT2** fermium 256**NT2** fermium 258**NT2** fermium 260**NT2** fermium 264**NT2** flerovium 286**NT2** flerovium 288**NT2** flerovium 292**NT2** gadolinium 134**NT2** gadolinium 136**NT2** gadolinium 138**NT2** gadolinium 140**NT2** gadolinium 142**NT2** gadolinium 144**NT2** gadolinium 146**NT2** gadolinium 148**NT2** gadolinium 150**NT2** gadolinium 152**NT2** gadolinium 154**NT2** gadolinium 156**NT2** gadolinium 158**NT2** gadolinium 160**NT2** gadolinium 162**NT2** gadolinium 164**NT2** gadolinium 166**NT2** gadolinium 168**NT2** germanium 58**NT2** germanium 60**NT2** germanium 62**NT2** germanium 64**NT2** germanium 66**NT2** germanium 68**NT2** germanium 70**NT2** germanium 72**NT2** germanium 74**NT2** germanium 76**NT2** germanium 78**NT2** germanium 80**NT2** germanium 82**NT2** germanium 84**NT2** germanium 86**NT2** germanium 88**NT2** hafnium 154

NT2	hafnium 156	NT2	lead 216	NT2	neon 34
NT2	hafnium 158	NT2	livermorium 290	NT2	nickel 48
NT2	hafnium 160	NT2	livermorium 292	NT2	nickel 50
NT2	hafnium 162	NT2	magnesium 20	NT2	nickel 52
NT2	hafnium 164	NT2	magnesium 22	NT2	nickel 54
NT2	hafnium 166	NT2	magnesium 24	NT2	nickel 56
NT2	hafnium 168	NT2	magnesium 26	NT2	nickel 58
NT2	hafnium 170	NT2	magnesium 28	NT2	nickel 60
NT2	hafnium 172	NT2	magnesium 30	NT2	nickel 62
NT2	hafnium 174	NT2	magnesium 32	NT2	nickel 64
NT2	hafnium 176	NT2	magnesium 34	NT2	nickel 66
NT2	hafnium 178	NT2	magnesium 36	NT2	nickel 68
NT2	hafnium 180	NT2	magnesium 38	NT2	nickel 70
NT2	hafnium 182	NT2	magnesium 40	NT2	nickel 72
NT2	hafnium 184	NT2	mercury 172	NT2	nickel 74
NT2	hafnium 186	NT2	mercury 174	NT2	nickel 76
NT2	hafnium 188	NT2	mercury 176	NT2	nickel 78
NT2	hassium 264	NT2	mercury 178	NT2	nickel 80
NT2	hassium 266	NT2	mercury 180	NT2	nobelium 248
NT2	hassium 270	NT2	mercury 182	NT2	nobelium 250
NT2	hassium 272	NT2	mercury 184	NT2	nobelium 252
NT2	hassium 274	NT2	mercury 186	NT2	nobelium 254
NT2	hassium 276	NT2	mercury 188	NT2	nobelium 256
NT2	helium 10	NT2	mercury 190	NT2	nobelium 258
NT2	helium 2	NT2	mercury 192	NT2	nobelium 260
NT2	helium 4	NT2	mercury 194	NT2	nobelium 262
NT3	helium i	NT2	mercury 196	NT2	nobelium 264
NT3	helium ii	NT2	mercury 198	NT2	oganesson 294
NT2	helium 6	NT2	mercury 200	NT2	osmium 162
NT2	helium 8	NT2	mercury 202	NT2	osmium 164
NT2	iron 46	NT2	mercury 204	NT2	osmium 166
NT2	iron 48	NT2	mercury 206	NT2	osmium 168
NT2	iron 50	NT2	mercury 208	NT2	osmium 170
NT2	iron 52	NT2	mercury 210	NT2	osmium 172
NT2	iron 54	NT2	mercury 212	NT2	osmium 174
NT2	iron 56	NT2	molybdenum 100	NT2	osmium 176
NT2	iron 58	NT2	molybdenum 102	NT2	osmium 178
NT2	iron 60	NT2	molybdenum 104	NT2	osmium 180
NT2	iron 62	NT2	molybdenum 106	NT2	osmium 182
NT2	iron 64	NT2	molybdenum 108	NT2	osmium 184
NT2	iron 66	NT2	molybdenum 110	NT2	osmium 186
NT2	iron 68	NT2	molybdenum 112	NT2	osmium 188
NT2	iron 70	NT2	molybdenum 114	NT2	osmium 190
NT2	iron 72	NT2	molybdenum 84	NT2	osmium 192
NT2	krypton 100	NT2	molybdenum 86	NT2	osmium 194
NT2	krypton 70	NT2	molybdenum 88	NT2	osmium 196
NT2	krypton 72	NT2	molybdenum 90	NT2	osmium 200
NT2	krypton 74	NT2	molybdenum 92	NT2	oxygen 12
NT2	krypton 76	NT2	molybdenum 94	NT2	oxygen 14
NT2	krypton 78	NT2	molybdenum 96	NT2	oxygen 16
NT2	krypton 80	NT2	molybdenum 98	NT2	oxygen 18
NT2	krypton 82	NT2	neodymium 124	NT2	oxygen 20
NT2	krypton 84	NT2	neodymium 126	NT2	oxygen 22
NT2	krypton 86	NT2	neodymium 128	NT2	oxygen 24
NT2	krypton 88	NT2	neodymium 130	NT2	oxygen 26
NT2	krypton 90	NT2	neodymium 132	NT2	oxygen 28
NT2	krypton 92	NT2	neodymium 134	NT2	palladium 100
NT2	krypton 94	NT2	neodymium 136	NT2	palladium 102
NT2	krypton 96	NT2	neodymium 138	NT2	palladium 104
NT2	krypton 98	NT2	neodymium 140	NT2	palladium 106
NT2	lead 178	NT2	neodymium 142	NT2	palladium 108
NT2	lead 180	NT2	neodymium 144	NT2	palladium 110
NT2	lead 182	NT2	neodymium 146	NT2	palladium 112
NT2	lead 184	NT2	neodymium 148	NT2	palladium 114
NT2	lead 186	NT2	neodymium 150	NT2	palladium 116
NT2	lead 188	NT2	neodymium 152	NT2	palladium 118
NT2	lead 190	NT2	neodymium 154	NT2	palladium 120
NT2	lead 192	NT2	neodymium 156	NT2	palladium 122
NT2	lead 194	NT2	neodymium 158	NT2	palladium 124
NT2	lead 196	NT2	neodymium 160	NT2	palladium 92
NT2	lead 198	NT2	neon 16	NT2	palladium 94
NT2	lead 200	NT2	neon 18	NT2	palladium 96
NT2	lead 202	NT2	neon 20	NT2	palladium 98
NT2	lead 204	NT2	neon 22	NT2	platinum 166
NT2	lead 206	NT2	neon 24	NT2	platinum 168
NT2	lead 208	NT2	neon 26	NT2	platinum 170
NT2	lead 210	NT2	neon 28	NT2	platinum 172
NT2	lead 212	NT2	neon 30	NT2	platinum 174
NT2	lead 214	NT2	neon 32	NT2	platinum 176

NT2	platinum 178	NT2	radon 226	NT2	strontium 100
NT2	platinum 180	NT2	radon 228	NT2	strontium 102
NT2	platinum 182	NT2	ruthenium 100	NT2	strontium 104
NT2	platinum 184	NT2	ruthenium 102	NT2	strontium 74
NT2	platinum 186	NT2	ruthenium 104	NT2	strontium 76
NT2	platinum 188	NT2	ruthenium 106	NT2	strontium 78
NT2	platinum 190	NT2	ruthenium 108	NT2	strontium 80
NT2	platinum 192	NT2	ruthenium 110	NT2	strontium 82
NT2	platinum 194	NT2	ruthenium 112	NT2	strontium 84
NT2	platinum 196	NT2	ruthenium 114	NT2	strontium 86
NT2	platinum 198	NT2	ruthenium 116	NT2	strontium 88
NT2	platinum 200	NT2	ruthenium 118	NT2	strontium 90
NT2	platinum 202	NT2	ruthenium 120	NT2	strontium 92
NT2	platinum 204	NT2	ruthenium 88	NT2	strontium 94
NT2	platinum 206	NT2	ruthenium 90	NT2	strontium 96
NT2	platinum 208	NT2	ruthenium 92	NT2	strontium 98
NT2	plutonium 228	NT2	ruthenium 94	NT2	sulfur 24
NT2	plutonium 230	NT2	ruthenium 96	NT2	sulfur 26
NT2	plutonium 232	NT2	ruthenium 98	NT2	sulfur 28
NT2	plutonium 234	NT2	rutherfordium 254	NT2	sulfur 30
NT2	plutonium 236	NT2	rutherfordium 256	NT2	sulfur 32
NT2	plutonium 238	NT2	rutherfordium 258	NT2	sulfur 34
NT2	plutonium 240	NT2	rutherfordium 260	NT2	sulfur 36
NT2	plutonium 242	NT2	rutherfordium 262	NT2	sulfur 38
NT2	plutonium 244	NT2	rutherfordium 264	NT2	sulfur 40
NT2	plutonium 246	NT2	rutherfordium 266	NT2	sulfur 42
NT2	plutonium 248	NT2	rutherfordium 268	NT2	sulfur 44
NT2	plutonium 250	NT2	samarium 128	NT2	sulfur 46
NT2	polonium 186	NT2	samarium 130	NT2	sulfur 48
NT2	polonium 188	NT2	samarium 132	NT2	tellurium 106
NT2	polonium 190	NT2	samarium 134	NT2	tellurium 108
NT2	polonium 192	NT2	samarium 136	NT2	tellurium 110
NT2	polonium 194	NT2	samarium 138	NT2	tellurium 112
NT2	polonium 196	NT2	samarium 140	NT2	tellurium 114
NT2	polonium 198	NT2	samarium 142	NT2	tellurium 116
NT2	polonium 200	NT2	samarium 144	NT2	tellurium 118
NT2	polonium 202	NT2	samarium 146	NT2	tellurium 120
NT2	polonium 204	NT2	samarium 148	NT2	tellurium 122
NT2	polonium 206	NT2	samarium 150	NT2	tellurium 124
NT2	polonium 208	NT2	samarium 152	NT2	tellurium 126
NT2	polonium 210	NT2	samarium 154	NT2	tellurium 128
NT2	polonium 212	NT2	samarium 156	NT2	tellurium 130
NT2	polonium 214	NT2	samarium 158	NT2	tellurium 132
NT2	polonium 216	NT2	samarium 160	NT2	tellurium 134
NT2	polonium 218	NT2	samarium 162	NT2	tellurium 136
NT2	polonium 220	NT2	samarium 164	NT2	tellurium 138
NT2	radium 202	NT2	seaborgium 258	NT2	tellurium 140
NT2	radium 204	NT2	seaborgium 260	NT2	tellurium 142
NT2	radium 206	NT2	seaborgium 262	NT2	thorium 208
NT2	radium 208	NT2	seaborgium 264	NT2	thorium 210
NT2	radium 210	NT2	seaborgium 266	NT2	thorium 212
NT2	radium 212	NT2	seaborgium 268	NT2	thorium 214
NT2	radium 214	NT2	seaborgium 270	NT2	thorium 216
NT2	radium 216	NT2	seaborgium 272	NT2	thorium 218
NT2	radium 218	NT2	selenium 64	NT2	thorium 220
NT2	radium 220	NT2	selenium 66	NT2	thorium 224
NT2	radium 222	NT2	selenium 68	NT2	thorium 226
NT2	radium 224	NT2	selenium 70	NT2	thorium 228
NT2	radium 226	NT2	selenium 72	NT2	thorium 230
NT2	radium 228	NT2	selenium 74	NT2	thorium 232
NT2	radium 230	NT2	selenium 76	NT2	thorium 234
NT2	radium 232	NT2	selenium 78	NT2	thorium 236
NT2	radium 234	NT2	selenium 80	NT2	thorium 238
NT2	radon 194	NT2	selenium 82	NT2	tin 100
NT2	radon 196	NT2	selenium 84	NT2	tin 102
NT2	radon 198	NT2	selenium 86	NT2	tin 104
NT2	radon 200	NT2	selenium 88	NT2	tin 106
NT2	radon 202	NT2	silicon 22	NT2	tin 108
NT2	radon 204	NT2	silicon 24	NT2	tin 110
NT2	radon 206	NT2	silicon 26	NT2	tin 112
NT2	radon 208	NT2	silicon 28	NT2	tin 114
NT2	radon 210	NT2	silicon 30	NT2	tin 116
NT2	radon 212	NT2	silicon 32	NT2	tin 118
NT2	radon 214	NT2	silicon 34	NT2	tin 120
NT2	radon 216	NT2	silicon 36	NT2	tin 122
NT2	radon 218	NT2	silicon 38	NT2	tin 124
NT2	radon 220	NT2	silicon 40	NT2	tin 126
NT2	radon 222	NT2	silicon 42	NT2	tin 128
NT2	radon 224	NT2	silicon 44	NT2	tin 130

NT2 tin 132  
 NT2 tin 134  
 NT2 tin 136  
 NT2 titanium 38  
 NT2 titanium 40  
 NT2 titanium 42  
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 NT2 tungsten 158  
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NT2 ytterbium 174  
 NT2 ytterbium 176  
 NT2 ytterbium 178  
 NT2 ytterbium 180  
 NT2 zinc 54  
 NT2 zinc 56  
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 NT2 zirconium 98  
 NT1 even-odd nuclei  
 NT2 argon 31  
 NT2 argon 33  
 NT2 argon 35  
 NT2 argon 37  
 NT2 argon 39  
 NT2 argon 41  
 NT2 argon 43  
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 NT2 beryllium 7  
 NT2 beryllium 9  
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 NT2 cadmium 105  
 NT2 cadmium 107

NT2 cadmium 109  
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 NT2 chromium 55  
 NT2 chromium 57  
 NT2 chromium 59  
 NT2 chromium 61  
 NT2 chromium 63  
 NT2 chromium 65  
 NT2 chromium 67  
 NT2 copernicium 277  
 NT2 copernicium 283

NT2	copernicium 285	NT2	gadolinium 161	NT2	krypton 95
NT2	curium 233	NT2	gadolinium 163	NT2	krypton 97
NT2	curium 235	NT2	gadolinium 165	NT2	krypton 99
NT2	curium 237	NT2	gadolinium 167	NT2	lead 179
NT2	curium 239	NT2	gadolinium 169	NT2	lead 181
NT2	curium 241	NT2	germanium 59	NT2	lead 183
NT2	curium 243	NT2	germanium 61	NT2	lead 185
NT2	curium 245	NT2	germanium 63	NT2	lead 187
NT2	curium 247	NT2	germanium 65	NT2	lead 189
NT2	curium 249	NT2	germanium 67	NT2	lead 191
NT2	curium 251	NT2	germanium 69	NT2	lead 193
NT2	darmstadtium 267	NT2	germanium 71	NT2	lead 195
NT2	darmstadtium 269	NT2	germanium 73	NT2	lead 197
NT2	darmstadtium 271	NT2	germanium 75	NT2	lead 199
NT2	darmstadtium 273	NT2	germanium 77	NT2	lead 201
NT2	darmstadtium 279	NT2	germanium 79	NT2	lead 203
NT2	darmstadtium 281	NT2	germanium 81	NT2	lead 205
NT2	dysprosium 139	NT2	germanium 83	NT2	lead 207
NT2	dysprosium 141	NT2	germanium 85	NT2	lead 209
NT2	dysprosium 143	NT2	germanium 87	NT2	lead 211
NT2	dysprosium 145	NT2	germanium 89	NT2	lead 213
NT2	dysprosium 147	NT2	hafnium 153	NT2	lead 215
NT2	dysprosium 149	NT2	hafnium 155	NT2	livermorium 291
NT2	dysprosium 151	NT2	hafnium 157	NT2	livermorium 293
NT2	dysprosium 153	NT2	hafnium 159	NT2	magnesium 19
NT2	dysprosium 155	NT2	hafnium 161	NT2	magnesium 21
NT2	dysprosium 157	NT2	hafnium 163	NT2	magnesium 23
NT2	dysprosium 159	NT2	hafnium 165	NT2	magnesium 25
NT2	dysprosium 161	NT2	hafnium 167	NT2	magnesium 27
NT2	dysprosium 163	NT2	hafnium 169	NT2	magnesium 29
NT2	dysprosium 165	NT2	hafnium 171	NT2	magnesium 31
NT2	dysprosium 167	NT2	hafnium 173	NT2	magnesium 33
NT2	dysprosium 169	NT2	hafnium 175	NT2	magnesium 35
NT2	dysprosium 171	NT2	hafnium 177	NT2	magnesium 37
NT2	dysprosium 173	NT2	hafnium 179	NT2	magnesium 39
NT2	erbium 143	NT2	hafnium 181	NT2	mercury 171
NT2	erbium 145	NT2	hafnium 183	NT2	mercury 173
NT2	erbium 147	NT2	hafnium 185	NT2	mercury 175
NT2	erbium 149	NT2	hafnium 187	NT2	mercury 177
NT2	erbium 151	NT2	hassium 263	NT2	mercury 179
NT2	erbium 153	NT2	hassium 265	NT2	mercury 181
NT2	erbium 155	NT2	hassium 267	NT2	mercury 183
NT2	erbium 157	NT2	hassium 269	NT2	mercury 185
NT2	erbium 159	NT2	hassium 271	NT2	mercury 187
NT2	erbium 161	NT2	hassium 275	NT2	mercury 189
NT2	erbium 163	NT2	helium 3	NT2	mercury 191
NT2	erbium 165	NT3	helium 3 a	NT2	mercury 193
NT2	erbium 167	NT3	helium 3 a1	NT2	mercury 195
NT2	erbium 169	NT3	helium 3 b	NT2	mercury 197
NT2	erbium 171	NT2	helium 5	NT2	mercury 199
NT2	erbium 173	NT2	helium 7	NT2	mercury 201
NT2	erbium 175	NT2	helium 9	NT2	mercury 203
NT2	erbium 177	NT2	iron 45	NT2	mercury 205
NT2	fermium 241	NT2	iron 47	NT2	mercury 207
NT2	fermium 243	NT2	iron 49	NT2	mercury 209
NT2	fermium 245	NT2	iron 51	NT2	mercury 211
NT2	fermium 247	NT2	iron 53	NT2	molybdenum 101
NT2	fermium 249	NT2	iron 55	NT2	molybdenum 103
NT2	fermium 251	NT2	iron 57	NT2	molybdenum 105
NT2	fermium 253	NT2	iron 59	NT2	molybdenum 107
NT2	fermium 255	NT2	iron 61	NT2	molybdenum 109
NT2	fermium 257	NT2	iron 63	NT2	molybdenum 111
NT2	fermium 259	NT2	iron 65	NT2	molybdenum 113
NT2	flerovium 285	NT2	iron 67	NT2	molybdenum 115
NT2	flerovium 287	NT2	iron 69	NT2	molybdenum 83
NT2	flerovium 289	NT2	iron 71	NT2	molybdenum 85
NT2	gadolinium 135	NT2	krypton 69	NT2	molybdenum 87
NT2	gadolinium 137	NT2	krypton 71	NT2	molybdenum 89
NT2	gadolinium 139	NT2	krypton 73	NT2	molybdenum 91
NT2	gadolinium 141	NT2	krypton 75	NT2	molybdenum 93
NT2	gadolinium 143	NT2	krypton 77	NT2	molybdenum 95
NT2	gadolinium 145	NT2	krypton 79	NT2	molybdenum 97
NT2	gadolinium 147	NT2	krypton 81	NT2	molybdenum 99
NT2	gadolinium 149	NT2	krypton 83	NT2	neodymium 125
NT2	gadolinium 151	NT2	krypton 85	NT2	neodymium 127
NT2	gadolinium 153	NT2	krypton 87	NT2	neodymium 129
NT2	gadolinium 155	NT2	krypton 89	NT2	neodymium 131
NT2	gadolinium 157	NT2	krypton 91	NT2	neodymium 133
NT2	gadolinium 159	NT2	krypton 93	NT2	neodymium 135

NT2	neodymium 137	NT2	palladium 115	NT2	radon 201
NT2	neodymium 139	NT2	palladium 117	NT2	radon 203
NT2	neodymium 141	NT2	palladium 119	NT2	radon 205
NT2	neodymium 143	NT2	palladium 121	NT2	radon 207
NT2	neodymium 145	NT2	palladium 123	NT2	radon 209
NT2	neodymium 147	NT2	palladium 91	NT2	radon 211
NT2	neodymium 149	NT2	palladium 93	NT2	radon 213
NT2	neodymium 151	NT2	palladium 95	NT2	radon 215
NT2	neodymium 153	NT2	palladium 97	NT2	radon 217
NT2	neodymium 155	NT2	palladium 99	NT2	radon 219
NT2	neodymium 157	NT2	platinum 167	NT2	radon 221
NT2	neodymium 159	NT2	platinum 169	NT2	radon 223
NT2	neodymium 161	NT2	platinum 171	NT2	radon 225
NT2	neon 17	NT2	platinum 173	NT2	radon 227
NT2	neon 19	NT2	platinum 175	NT2	radon 229
NT2	neon 21	NT2	platinum 177	NT2	ruthenium 101
NT2	neon 23	NT2	platinum 179	NT2	ruthenium 103
NT2	neon 25	NT2	platinum 181	NT2	ruthenium 105
NT2	neon 27	NT2	platinum 183	NT2	ruthenium 107
NT2	neon 29	NT2	platinum 185	NT2	ruthenium 109
NT2	neon 31	NT2	platinum 187	NT2	ruthenium 111
NT2	neon 33	NT2	platinum 189	NT2	ruthenium 113
NT2	nickel 49	NT2	platinum 191	NT2	ruthenium 115
NT2	nickel 51	NT2	platinum 193	NT2	ruthenium 117
NT2	nickel 53	NT2	platinum 195	NT2	ruthenium 119
NT2	nickel 55	NT2	platinum 197	NT2	ruthenium 87
NT2	nickel 57	NT2	platinum 199	NT2	ruthenium 89
NT2	nickel 59	NT2	platinum 201	NT2	ruthenium 91
NT2	nickel 61	NT2	platinum 203	NT2	ruthenium 93
NT2	nickel 63	NT2	platinum 205	NT2	ruthenium 95
NT2	nickel 65	NT2	platinum 207	NT2	ruthenium 97
NT2	nickel 67	NT2	plutonium 229	NT2	ruthenium 99
NT2	nickel 69	NT2	plutonium 231	NT2	rutherfordium 253
NT2	nickel 71	NT2	plutonium 233	NT2	rutherfordium 255
NT2	nickel 73	NT2	plutonium 235	NT2	rutherfordium 257
NT2	nickel 75	NT2	plutonium 237	NT2	rutherfordium 259
NT2	nickel 77	NT2	plutonium 239	NT2	rutherfordium 261
NT2	nobelium 251	NT2	plutonium 241	NT2	rutherfordium 263
NT2	nobelium 253	NT2	plutonium 243	NT2	rutherfordium 265
NT2	nobelium 255	NT2	plutonium 245	NT2	rutherfordium 267
NT2	nobelium 257	NT2	plutonium 247	NT2	samarium 129
NT2	nobelium 259	NT2	polonium 187	NT2	samarium 131
NT2	nobelium 261	NT2	polonium 189	NT2	samarium 133
NT2	nobelium 263	NT2	polonium 191	NT2	samarium 135
NT2	osmium 161	NT2	polonium 193	NT2	samarium 137
NT2	osmium 163	NT2	polonium 195	NT2	samarium 139
NT2	osmium 165	NT2	polonium 197	NT2	samarium 141
NT2	osmium 167	NT2	polonium 199	NT2	samarium 143
NT2	osmium 169	NT2	polonium 201	NT2	samarium 145
NT2	osmium 171	NT2	polonium 203	NT2	samarium 147
NT2	osmium 173	NT2	polonium 205	NT2	samarium 149
NT2	osmium 175	NT2	polonium 207	NT2	samarium 151
NT2	osmium 177	NT2	polonium 209	NT2	samarium 153
NT2	osmium 179	NT2	polonium 211	NT2	samarium 155
NT2	osmium 181	NT2	polonium 213	NT2	samarium 157
NT2	osmium 183	NT2	polonium 215	NT2	samarium 159
NT2	osmium 185	NT2	polonium 217	NT2	samarium 161
NT2	osmium 187	NT2	polonium 219	NT2	samarium 163
NT2	osmium 189	NT2	radium 201	NT2	samarium 165
NT2	osmium 191	NT2	radium 203	NT2	seaborgium 259
NT2	osmium 193	NT2	radium 205	NT2	seaborgium 261
NT2	osmium 195	NT2	radium 207	NT2	seaborgium 263
NT2	osmium 197	NT2	radium 209	NT2	seaborgium 265
NT2	osmium 199	NT2	radium 211	NT2	seaborgium 271
NT2	oxygen 13	NT2	radium 213	NT2	seaborgium 273
NT2	oxygen 15	NT2	radium 215	NT2	selenium 65
NT2	oxygen 17	NT2	radium 217	NT2	selenium 67
NT2	oxygen 19	NT2	radium 219	NT2	selenium 69
NT2	oxygen 21	NT2	radium 221	NT2	selenium 71
NT2	oxygen 23	NT2	radium 223	NT2	selenium 73
NT2	oxygen 25	NT2	radium 225	NT2	selenium 75
NT2	oxygen 27	NT2	radium 227	NT2	selenium 77
NT2	palladium 101	NT2	radium 229	NT2	selenium 79
NT2	palladium 103	NT2	radium 231	NT2	selenium 81
NT2	palladium 105	NT2	radium 233	NT2	selenium 83
NT2	palladium 107	NT2	radon 193	NT2	selenium 85
NT2	palladium 109	NT2	radon 195	NT2	selenium 87
NT2	palladium 111	NT2	radon 197	NT2	selenium 89
NT2	palladium 113	NT2	radon 199	NT2	selenium 91

NT2	silicon 23	NT2	tin 109	NT2	xenon 147
NT2	silicon 25	NT2	tin 111	NT2	ytterbium 149
NT2	silicon 27	NT2	tin 113	NT2	ytterbium 151
NT2	silicon 29	NT2	tin 115	NT2	ytterbium 153
NT2	silicon 31	NT2	tin 117	NT2	ytterbium 155
NT2	silicon 33	NT2	tin 119	NT2	ytterbium 157
NT2	silicon 35	NT2	tin 121	NT2	ytterbium 159
NT2	silicon 37	NT2	tin 123	NT2	ytterbium 161
NT2	silicon 39	NT2	tin 125	NT2	ytterbium 163
NT2	silicon 41	NT2	tin 127	NT2	ytterbium 165
NT2	silicon 43	NT2	tin 129	NT2	ytterbium 167
NT2	strontium 101	NT2	tin 131	NT2	ytterbium 169
NT2	strontium 103	NT2	tin 133	NT2	ytterbium 171
NT2	strontium 105	NT2	tin 135	NT2	ytterbium 173
NT2	strontium 73	NT2	tin 137	NT2	ytterbium 175
NT2	strontium 75	NT2	tin 99	NT2	ytterbium 177
NT2	strontium 77	NT2	titanium 39	NT2	ytterbium 179
NT2	strontium 79	NT2	titanium 41	NT2	ytterbium 181
NT2	strontium 81	NT2	titanium 43	NT2	zinc 55
NT2	strontium 83	NT2	titanium 45	NT2	zinc 57
NT2	strontium 85	NT2	titanium 47	NT2	zinc 59
NT2	strontium 87	NT2	titanium 49	NT2	zinc 61
NT2	strontium 89	NT2	titanium 51	NT2	zinc 63
NT2	strontium 91	NT2	titanium 53	NT2	zinc 65
NT2	strontium 93	NT2	titanium 55	NT2	zinc 67
NT2	strontium 95	NT2	titanium 57	NT2	zinc 69
NT2	strontium 97	NT2	titanium 59	NT2	zinc 71
NT2	strontium 99	NT2	titanium 61	NT2	zinc 73
NT2	sulfur 27	NT2	titanium 63	NT2	zinc 75
NT2	sulfur 29	NT2	tungsten 157	NT2	zinc 77
NT2	sulfur 31	NT2	tungsten 159	NT2	zinc 79
NT2	sulfur 33	NT2	tungsten 161	NT2	zinc 81
NT2	sulfur 35	NT2	tungsten 163	NT2	zinc 83
NT2	sulfur 37	NT2	tungsten 165	NT2	zirconium 101
NT2	sulfur 39	NT2	tungsten 167	NT2	zirconium 103
NT2	sulfur 41	NT2	tungsten 169	NT2	zirconium 105
NT2	sulfur 43	NT2	tungsten 171	NT2	zirconium 107
NT2	sulfur 45	NT2	tungsten 173	NT2	zirconium 109
NT2	sulfur 47	NT2	tungsten 175	NT2	zirconium 79
NT2	sulfur 49	NT2	tungsten 177	NT2	zirconium 81
NT2	tellurium 105	NT2	tungsten 179	NT2	zirconium 83
NT2	tellurium 107	NT2	tungsten 181	NT2	zirconium 85
NT2	tellurium 109	NT2	tungsten 183	NT2	zirconium 87
NT2	tellurium 111	NT2	tungsten 185	NT2	zirconium 89
NT2	tellurium 113	NT2	tungsten 187	NT2	zirconium 91
NT2	tellurium 115	NT2	tungsten 189	NT2	zirconium 93
NT2	tellurium 117	NT2	tungsten 191	NT2	zirconium 95
NT2	tellurium 119	NT2	uranium 217	NT2	zirconium 97
NT2	tellurium 121	NT2	uranium 219	NT2	zirconium 99
NT2	tellurium 123	NT2	uranium 221	NT1	heavy nuclei
NT2	tellurium 125	NT2	uranium 223	NT2	actinide nuclei
NT2	tellurium 127	NT2	uranium 225	NT3	actinium 206
NT2	tellurium 129	NT2	uranium 227	NT3	actinium 207
NT2	tellurium 131	NT2	uranium 229	NT3	actinium 208
NT2	tellurium 133	NT2	uranium 231	NT3	actinium 209
NT2	tellurium 135	NT2	uranium 233	NT3	actinium 210
NT2	tellurium 137	NT2	uranium 235	NT3	actinium 211
NT2	tellurium 139	NT2	uranium 237	NT3	actinium 212
NT2	tellurium 141	NT2	uranium 239	NT3	actinium 213
NT2	thorium 209	NT2	uranium 241	NT3	actinium 214
NT2	thorium 211	NT2	xenon 109	NT3	actinium 215
NT2	thorium 213	NT2	xenon 111	NT3	actinium 216
NT2	thorium 215	NT2	xenon 113	NT3	actinium 217
NT2	thorium 217	NT2	xenon 115	NT3	actinium 218
NT2	thorium 219	NT2	xenon 117	NT3	actinium 219
NT2	thorium 221	NT2	xenon 119	NT3	actinium 220
NT2	thorium 222	NT2	xenon 121	NT3	actinium 221
NT2	thorium 223	NT2	xenon 123	NT3	actinium 222
NT2	thorium 225	NT2	xenon 125	NT3	actinium 223
NT2	thorium 227	NT2	xenon 127	NT3	actinium 224
NT2	thorium 229	NT2	xenon 129	NT3	actinium 225
NT2	thorium 231	NT2	xenon 131	NT3	actinium 226
NT2	thorium 233	NT2	xenon 133	NT3	actinium 227
NT2	thorium 235	NT2	xenon 135	NT3	actinium 228
NT2	thorium 237	NT2	xenon 137	NT3	actinium 229
NT2	tin 101	NT2	xenon 139	NT3	actinium 230
NT2	tin 103	NT2	xenon 141	NT3	actinium 231
NT2	tin 105	NT2	xenon 143	NT3	actinium 232
NT2	tin 107	NT2	xenon 145	NT3	actinium 233



<b>NT3</b>	actinium 234	<b>NT3</b>	curium 248	<b>NT3</b>	neptunium 225
<b>NT3</b>	actinium 235	<b>NT3</b>	curium 249	<b>NT3</b>	neptunium 226
<b>NT3</b>	actinium 236	<b>NT3</b>	curium 250	<b>NT3</b>	neptunium 227
<b>NT3</b>	americium 231	<b>NT3</b>	curium 251	<b>NT3</b>	neptunium 228
<b>NT3</b>	americium 232	<b>NT3</b>	curium 252	<b>NT3</b>	neptunium 229
<b>NT3</b>	americium 233	<b>NT3</b>	einsteinium 240	<b>NT3</b>	neptunium 230
<b>NT3</b>	americium 234	<b>NT3</b>	einsteinium 241	<b>NT3</b>	neptunium 231
<b>NT3</b>	americium 235	<b>NT3</b>	einsteinium 242	<b>NT3</b>	neptunium 232
<b>NT3</b>	americium 236	<b>NT3</b>	einsteinium 243	<b>NT3</b>	neptunium 233
<b>NT3</b>	americium 237	<b>NT3</b>	einsteinium 244	<b>NT3</b>	neptunium 234
<b>NT3</b>	americium 238	<b>NT3</b>	einsteinium 245	<b>NT3</b>	neptunium 235
<b>NT3</b>	americium 239	<b>NT3</b>	einsteinium 246	<b>NT3</b>	neptunium 236
<b>NT3</b>	americium 240	<b>NT3</b>	einsteinium 247	<b>NT3</b>	neptunium 237
<b>NT3</b>	americium 241	<b>NT3</b>	einsteinium 248	<b>NT3</b>	neptunium 238
<b>NT3</b>	americium 242	<b>NT3</b>	einsteinium 249	<b>NT3</b>	neptunium 239
<b>NT3</b>	americium 243	<b>NT3</b>	einsteinium 250	<b>NT3</b>	neptunium 240
<b>NT3</b>	americium 244	<b>NT3</b>	einsteinium 251	<b>NT3</b>	neptunium 241
<b>NT3</b>	americium 245	<b>NT3</b>	einsteinium 252	<b>NT3</b>	neptunium 242
<b>NT3</b>	americium 246	<b>NT3</b>	einsteinium 253	<b>NT3</b>	neptunium 243
<b>NT3</b>	americium 247	<b>NT3</b>	einsteinium 254	<b>NT3</b>	neptunium 244
<b>NT3</b>	americium 248	<b>NT3</b>	einsteinium 255	<b>NT3</b>	neptunium 248
<b>NT3</b>	americium 249	<b>NT3</b>	einsteinium 256	<b>NT3</b>	nobelium 250
<b>NT3</b>	berkelium 235	<b>NT3</b>	einsteinium 257	<b>NT3</b>	nobelium 251
<b>NT3</b>	berkelium 236	<b>NT3</b>	einsteinium 258	<b>NT3</b>	nobelium 252
<b>NT3</b>	berkelium 237	<b>NT3</b>	fermium 241	<b>NT3</b>	nobelium 253
<b>NT3</b>	berkelium 238	<b>NT3</b>	fermium 242	<b>NT3</b>	nobelium 254
<b>NT3</b>	berkelium 239	<b>NT3</b>	fermium 243	<b>NT3</b>	nobelium 255
<b>NT3</b>	berkelium 240	<b>NT3</b>	fermium 244	<b>NT3</b>	nobelium 256
<b>NT3</b>	berkelium 241	<b>NT3</b>	fermium 245	<b>NT3</b>	nobelium 257
<b>NT3</b>	berkelium 242	<b>NT3</b>	fermium 246	<b>NT3</b>	nobelium 258
<b>NT3</b>	berkelium 243	<b>NT3</b>	fermium 247	<b>NT3</b>	nobelium 259
<b>NT3</b>	berkelium 244	<b>NT3</b>	fermium 248	<b>NT3</b>	nobelium 260
<b>NT3</b>	berkelium 245	<b>NT3</b>	fermium 249	<b>NT3</b>	nobelium 261
<b>NT3</b>	berkelium 246	<b>NT3</b>	fermium 250	<b>NT3</b>	nobelium 262
<b>NT3</b>	berkelium 247	<b>NT3</b>	fermium 251	<b>NT3</b>	nobelium 263
<b>NT3</b>	berkelium 248	<b>NT3</b>	fermium 252	<b>NT3</b>	nobelium 264
<b>NT3</b>	berkelium 249	<b>NT3</b>	fermium 253	<b>NT3</b>	plutonium 228
<b>NT3</b>	berkelium 250	<b>NT3</b>	fermium 254	<b>NT3</b>	plutonium 229
<b>NT3</b>	berkelium 251	<b>NT3</b>	fermium 255	<b>NT3</b>	plutonium 230
<b>NT3</b>	berkelium 252	<b>NT3</b>	fermium 256	<b>NT3</b>	plutonium 231
<b>NT3</b>	berkelium 253	<b>NT3</b>	fermium 257	<b>NT3</b>	plutonium 232
<b>NT3</b>	berkelium 254	<b>NT3</b>	fermium 258	<b>NT3</b>	plutonium 233
<b>NT3</b>	californium 236	<b>NT3</b>	fermium 259	<b>NT3</b>	plutonium 234
<b>NT3</b>	californium 237	<b>NT3</b>	fermium 260	<b>NT3</b>	plutonium 235
<b>NT3</b>	californium 238	<b>NT3</b>	fermium 264	<b>NT3</b>	plutonium 236
<b>NT3</b>	californium 239	<b>NT3</b>	lawrencium 251	<b>NT3</b>	plutonium 237
<b>NT3</b>	californium 240	<b>NT3</b>	lawrencium 252	<b>NT3</b>	plutonium 238
<b>NT3</b>	californium 241	<b>NT3</b>	lawrencium 253	<b>NT3</b>	plutonium 239
<b>NT3</b>	californium 242	<b>NT3</b>	lawrencium 254	<b>NT3</b>	plutonium 240
<b>NT3</b>	californium 243	<b>NT3</b>	lawrencium 255	<b>NT3</b>	plutonium 241
<b>NT3</b>	californium 244	<b>NT3</b>	lawrencium 256	<b>NT3</b>	plutonium 242
<b>NT3</b>	californium 245	<b>NT3</b>	lawrencium 257	<b>NT3</b>	plutonium 243
<b>NT3</b>	californium 246	<b>NT3</b>	lawrencium 258	<b>NT3</b>	plutonium 244
<b>NT3</b>	californium 247	<b>NT3</b>	lawrencium 259	<b>NT3</b>	plutonium 245
<b>NT3</b>	californium 248	<b>NT3</b>	lawrencium 260	<b>NT3</b>	plutonium 246
<b>NT3</b>	californium 249	<b>NT3</b>	lawrencium 261	<b>NT3</b>	plutonium 247
<b>NT3</b>	californium 250	<b>NT3</b>	lawrencium 262	<b>NT3</b>	plutonium 248
<b>NT3</b>	californium 251	<b>NT3</b>	lawrencium 263	<b>NT3</b>	plutonium 250
<b>NT3</b>	californium 252	<b>NT3</b>	lawrencium 264	<b>NT3</b>	protactinium 212
<b>NT3</b>	californium 253	<b>NT3</b>	lawrencium 265	<b>NT3</b>	protactinium 213
<b>NT3</b>	californium 254	<b>NT3</b>	lawrencium 266	<b>NT3</b>	protactinium 214
<b>NT3</b>	californium 255	<b>NT3</b>	mendelevium 245	<b>NT3</b>	protactinium 215
<b>NT3</b>	californium 256	<b>NT3</b>	mendelevium 246	<b>NT3</b>	protactinium 216
<b>NT3</b>	curium 232	<b>NT3</b>	mendelevium 247	<b>NT3</b>	protactinium 217
<b>NT3</b>	curium 233	<b>NT3</b>	mendelevium 248	<b>NT3</b>	protactinium 218
<b>NT3</b>	curium 234	<b>NT3</b>	mendelevium 249	<b>NT3</b>	protactinium 219
<b>NT3</b>	curium 235	<b>NT3</b>	mendelevium 250	<b>NT3</b>	protactinium 220
<b>NT3</b>	curium 236	<b>NT3</b>	mendelevium 251	<b>NT3</b>	protactinium 221
<b>NT3</b>	curium 237	<b>NT3</b>	mendelevium 252	<b>NT3</b>	protactinium 222
<b>NT3</b>	curium 238	<b>NT3</b>	mendelevium 253	<b>NT3</b>	protactinium 223
<b>NT3</b>	curium 239	<b>NT3</b>	mendelevium 254	<b>NT3</b>	protactinium 224
<b>NT3</b>	curium 240	<b>NT3</b>	mendelevium 255	<b>NT3</b>	protactinium 225
<b>NT3</b>	curium 241	<b>NT3</b>	mendelevium 256	<b>NT3</b>	protactinium 226
<b>NT3</b>	curium 242	<b>NT3</b>	mendelevium 257	<b>NT3</b>	protactinium 227
<b>NT3</b>	curium 243	<b>NT3</b>	mendelevium 258	<b>NT3</b>	protactinium 228
<b>NT3</b>	curium 244	<b>NT3</b>	mendelevium 259	<b>NT3</b>	protactinium 229
<b>NT3</b>	curium 245	<b>NT3</b>	mendelevium 260	<b>NT3</b>	protactinium 230
<b>NT3</b>	curium 246	<b>NT3</b>	mendelevium 261	<b>NT3</b>	protactinium 231
<b>NT3</b>	curium 247	<b>NT3</b>	mendelevium 262	<b>NT3</b>	protactinium 232

<b>NT3</b>	protactinium 233	<b>NT2</b>	astatine 205	<b>NT2</b>	darmstadtium 279
<b>NT3</b>	protactinium 234	<b>NT2</b>	astatine 206	<b>NT2</b>	darmstadtium 281
<b>NT3</b>	protactinium 235	<b>NT2</b>	astatine 207	<b>NT2</b>	dubnium 255
<b>NT3</b>	protactinium 236	<b>NT2</b>	astatine 208	<b>NT2</b>	dubnium 256
<b>NT3</b>	protactinium 237	<b>NT2</b>	astatine 209	<b>NT2</b>	dubnium 257
<b>NT3</b>	protactinium 238	<b>NT2</b>	astatine 210	<b>NT2</b>	dubnium 258
<b>NT3</b>	protactinium 239	<b>NT2</b>	astatine 211	<b>NT2</b>	dubnium 259
<b>NT3</b>	protactinium 240	<b>NT2</b>	astatine 212	<b>NT2</b>	dubnium 260
<b>NT3</b>	thorium 208	<b>NT2</b>	astatine 213	<b>NT2</b>	dubnium 261
<b>NT3</b>	thorium 209	<b>NT2</b>	astatine 214	<b>NT2</b>	dubnium 262
<b>NT3</b>	thorium 210	<b>NT2</b>	astatine 215	<b>NT2</b>	dubnium 263
<b>NT3</b>	thorium 211	<b>NT2</b>	astatine 216	<b>NT2</b>	dubnium 264
<b>NT3</b>	thorium 212	<b>NT2</b>	astatine 217	<b>NT2</b>	dubnium 265
<b>NT3</b>	thorium 213	<b>NT2</b>	astatine 218	<b>NT2</b>	dubnium 266
<b>NT3</b>	thorium 214	<b>NT2</b>	astatine 219	<b>NT2</b>	dubnium 267
<b>NT3</b>	thorium 215	<b>NT2</b>	astatine 220	<b>NT2</b>	dubnium 268
<b>NT3</b>	thorium 216	<b>NT2</b>	astatine 221	<b>NT2</b>	dubnium 269
<b>NT3</b>	thorium 217	<b>NT2</b>	astatine 222	<b>NT2</b>	element 124 312
<b>NT3</b>	thorium 218	<b>NT2</b>	astatine 223	<b>NT2</b>	flerovium 285
<b>NT3</b>	thorium 219	<b>NT2</b>	bismuth 184	<b>NT2</b>	flerovium 286
<b>NT3</b>	thorium 220	<b>NT2</b>	bismuth 185	<b>NT2</b>	flerovium 287
<b>NT3</b>	thorium 221	<b>NT2</b>	bismuth 186	<b>NT2</b>	flerovium 288
<b>NT3</b>	thorium 222	<b>NT2</b>	bismuth 187	<b>NT2</b>	flerovium 289
<b>NT3</b>	thorium 223	<b>NT2</b>	bismuth 188	<b>NT2</b>	flerovium 292
<b>NT3</b>	thorium 224	<b>NT2</b>	bismuth 189	<b>NT2</b>	francium 199
<b>NT3</b>	thorium 225	<b>NT2</b>	bismuth 190	<b>NT2</b>	francium 200
<b>NT3</b>	thorium 226	<b>NT2</b>	bismuth 191	<b>NT2</b>	francium 201
<b>NT3</b>	thorium 227	<b>NT2</b>	bismuth 192	<b>NT2</b>	francium 202
<b>NT3</b>	thorium 228	<b>NT2</b>	bismuth 193	<b>NT2</b>	francium 203
<b>NT3</b>	thorium 229	<b>NT2</b>	bismuth 194	<b>NT2</b>	francium 204
<b>NT3</b>	thorium 230	<b>NT2</b>	bismuth 195	<b>NT2</b>	francium 205
<b>NT3</b>	thorium 231	<b>NT2</b>	bismuth 196	<b>NT2</b>	francium 206
<b>NT3</b>	thorium 232	<b>NT2</b>	bismuth 197	<b>NT2</b>	francium 207
<b>NT3</b>	thorium 233	<b>NT2</b>	bismuth 198	<b>NT2</b>	francium 208
<b>NT3</b>	thorium 234	<b>NT2</b>	bismuth 199	<b>NT2</b>	francium 209
<b>NT3</b>	thorium 235	<b>NT2</b>	bismuth 200	<b>NT2</b>	francium 210
<b>NT3</b>	thorium 236	<b>NT2</b>	bismuth 201	<b>NT2</b>	francium 211
<b>NT3</b>	thorium 237	<b>NT2</b>	bismuth 202	<b>NT2</b>	francium 212
<b>NT3</b>	thorium 238	<b>NT2</b>	bismuth 203	<b>NT2</b>	francium 213
<b>NT3</b>	uranium 217	<b>NT2</b>	bismuth 204	<b>NT2</b>	francium 214
<b>NT3</b>	uranium 218	<b>NT2</b>	bismuth 205	<b>NT2</b>	francium 215
<b>NT3</b>	uranium 219	<b>NT2</b>	bismuth 206	<b>NT2</b>	francium 216
<b>NT3</b>	uranium 220	<b>NT2</b>	bismuth 207	<b>NT2</b>	francium 217
<b>NT3</b>	uranium 221	<b>NT2</b>	bismuth 208	<b>NT2</b>	francium 218
<b>NT3</b>	uranium 222	<b>NT2</b>	bismuth 209	<b>NT2</b>	francium 219
<b>NT3</b>	uranium 223	<b>NT2</b>	bismuth 210	<b>NT2</b>	francium 220
<b>NT3</b>	uranium 224	<b>NT2</b>	bismuth 211	<b>NT2</b>	francium 221
<b>NT3</b>	uranium 225	<b>NT2</b>	bismuth 212	<b>NT2</b>	francium 222
<b>NT3</b>	uranium 226	<b>NT2</b>	bismuth 213	<b>NT2</b>	francium 223
<b>NT3</b>	uranium 227	<b>NT2</b>	bismuth 214	<b>NT2</b>	francium 224
<b>NT3</b>	uranium 228	<b>NT2</b>	bismuth 215	<b>NT2</b>	francium 225
<b>NT3</b>	uranium 229	<b>NT2</b>	bismuth 216	<b>NT2</b>	francium 226
<b>NT3</b>	uranium 230	<b>NT2</b>	bismuth 217	<b>NT2</b>	francium 227
<b>NT3</b>	uranium 231	<b>NT2</b>	bismuth 218	<b>NT2</b>	francium 228
<b>NT3</b>	uranium 232	<b>NT2</b>	bohrium 260	<b>NT2</b>	francium 229
<b>NT3</b>	uranium 233	<b>NT2</b>	bohrium 261	<b>NT2</b>	francium 230
<b>NT3</b>	uranium 234	<b>NT2</b>	bohrium 262	<b>NT2</b>	francium 231
<b>NT3</b>	uranium 235	<b>NT2</b>	bohrium 263	<b>NT2</b>	francium 232
<b>NT3</b>	uranium 236	<b>NT2</b>	bohrium 264	<b>NT2</b>	gold 181
<b>NT3</b>	uranium 237	<b>NT2</b>	bohrium 265	<b>NT2</b>	gold 182
<b>NT3</b>	uranium 238	<b>NT2</b>	bohrium 266	<b>NT2</b>	gold 183
<b>NT3</b>	uranium 239	<b>NT2</b>	bohrium 267	<b>NT2</b>	gold 184
<b>NT3</b>	uranium 240	<b>NT2</b>	bohrium 271	<b>NT2</b>	gold 185
<b>NT3</b>	uranium 241	<b>NT2</b>	bohrium 272	<b>NT2</b>	gold 186
<b>NT3</b>	uranium 242	<b>NT2</b>	bohrium 273	<b>NT2</b>	gold 187
<b>NT2</b>	astatine 191	<b>NT2</b>	bohrium 274	<b>NT2</b>	gold 188
<b>NT2</b>	astatine 192	<b>NT2</b>	bohrium 275	<b>NT2</b>	gold 189
<b>NT2</b>	astatine 193	<b>NT2</b>	copernicium 277	<b>NT2</b>	gold 190
<b>NT2</b>	astatine 194	<b>NT2</b>	copernicium 278	<b>NT2</b>	gold 191
<b>NT2</b>	astatine 195	<b>NT2</b>	copernicium 282	<b>NT2</b>	gold 192
<b>NT2</b>	astatine 196	<b>NT2</b>	copernicium 283	<b>NT2</b>	gold 193
<b>NT2</b>	astatine 197	<b>NT2</b>	copernicium 284	<b>NT2</b>	gold 194
<b>NT2</b>	astatine 198	<b>NT2</b>	copernicium 285	<b>NT2</b>	gold 195
<b>NT2</b>	astatine 199	<b>NT2</b>	darmstadtium 267	<b>NT2</b>	gold 196
<b>NT2</b>	astatine 200	<b>NT2</b>	darmstadtium 269	<b>NT2</b>	gold 197
<b>NT2</b>	astatine 201	<b>NT2</b>	darmstadtium 270	<b>NT2</b>	gold 198
<b>NT2</b>	astatine 202	<b>NT2</b>	darmstadtium 271	<b>NT2</b>	gold 199
<b>NT2</b>	astatine 203	<b>NT2</b>	darmstadtium 272	<b>NT2</b>	gold 200
<b>NT2</b>	astatine 204	<b>NT2</b>	darmstadtium 273	<b>NT2</b>	gold 201

NT2	gold 202	NT2	lead 216	NT2	platinum 181
NT2	gold 203	NT2	livermorium 290	NT2	platinum 182
NT2	gold 204	NT2	livermorium 291	NT2	platinum 183
NT2	gold 205	NT2	livermorium 292	NT2	platinum 184
NT2	hafnium 181	NT2	livermorium 293	NT2	platinum 185
NT2	hafnium 182	NT2	lutetium 181	NT2	platinum 186
NT2	hafnium 183	NT2	lutetium 182	NT2	platinum 187
NT2	hafnium 184	NT2	lutetium 183	NT2	platinum 188
NT2	hafnium 185	NT2	lutetium 184	NT2	platinum 189
NT2	hafnium 186	NT2	lutetium 187	NT2	platinum 190
NT2	hafnium 187	NT2	meitnerium 265	NT2	platinum 191
NT2	hafnium 188	NT2	meitnerium 266	NT2	platinum 192
NT2	hassium 263	NT2	meitnerium 267	NT2	platinum 193
NT2	hassium 264	NT2	meitnerium 268	NT2	platinum 194
NT2	hassium 265	NT2	meitnerium 270	NT2	platinum 195
NT2	hassium 266	NT2	meitnerium 271	NT2	platinum 196
NT2	hassium 267	NT2	meitnerium 272	NT2	platinum 197
NT2	hassium 269	NT2	meitnerium 273	NT2	platinum 198
NT2	hassium 270	NT2	meitnerium 274	NT2	platinum 199
NT2	hassium 271	NT2	meitnerium 275	NT2	platinum 200
NT2	hassium 272	NT2	meitnerium 276	NT2	platinum 201
NT2	hassium 274	NT2	meitnerium 279	NT2	platinum 202
NT2	hassium 275	NT2	mercury 181	NT2	platinum 203
NT2	hassium 276	NT2	mercury 182	NT2	platinum 204
NT2	iridium 181	NT2	mercury 183	NT2	platinum 205
NT2	iridium 182	NT2	mercury 184	NT2	platinum 206
NT2	iridium 183	NT2	mercury 185	NT2	platinum 207
NT2	iridium 184	NT2	mercury 186	NT2	platinum 208
NT2	iridium 185	NT2	mercury 187	NT2	polonium 186
NT2	iridium 186	NT2	mercury 188	NT2	polonium 187
NT2	iridium 187	NT2	mercury 189	NT2	polonium 188
NT2	iridium 188	NT2	mercury 190	NT2	polonium 189
NT2	iridium 189	NT2	mercury 191	NT2	polonium 190
NT2	iridium 190	NT2	mercury 192	NT2	polonium 191
NT2	iridium 191	NT2	mercury 193	NT2	polonium 192
NT2	iridium 192	NT2	mercury 194	NT2	polonium 193
NT2	iridium 193	NT2	mercury 195	NT2	polonium 194
NT2	iridium 194	NT2	mercury 196	NT2	polonium 195
NT2	iridium 195	NT2	mercury 197	NT2	polonium 196
NT2	iridium 196	NT2	mercury 198	NT2	polonium 197
NT2	iridium 197	NT2	mercury 199	NT2	polonium 198
NT2	iridium 198	NT2	mercury 200	NT2	polonium 199
NT2	iridium 199	NT2	mercury 201	NT2	polonium 200
NT2	iridium 202	NT2	mercury 202	NT2	polonium 201
NT2	lead 181	NT2	mercury 203	NT2	polonium 202
NT2	lead 182	NT2	mercury 204	NT2	polonium 203
NT2	lead 183	NT2	mercury 205	NT2	polonium 204
NT2	lead 184	NT2	mercury 206	NT2	polonium 205
NT2	lead 185	NT2	mercury 207	NT2	polonium 206
NT2	lead 186	NT2	mercury 208	NT2	polonium 207
NT2	lead 187	NT2	mercury 209	NT2	polonium 208
NT2	lead 188	NT2	mercury 210	NT2	polonium 209
NT2	lead 189	NT2	mercury 211	NT2	polonium 210
NT2	lead 190	NT2	mercury 212	NT2	polonium 211
NT2	lead 191	NT2	moscovium 287	NT2	polonium 212
NT2	lead 192	NT2	moscovium 288	NT2	polonium 213
NT2	lead 193	NT2	nihonium 278	NT2	polonium 214
NT2	lead 194	NT2	nihonium 283	NT2	polonium 215
NT2	lead 195	NT2	nihonium 284	NT2	polonium 216
NT2	lead 196	NT2	oganesson 294	NT2	polonium 217
NT2	lead 197	NT2	osmium 181	NT2	polonium 218
NT2	lead 198	NT2	osmium 182	NT2	polonium 219
NT2	lead 199	NT2	osmium 183	NT2	polonium 220
NT2	lead 200	NT2	osmium 184	NT2	radium 201
NT2	lead 201	NT2	osmium 185	NT2	radium 202
NT2	lead 202	NT2	osmium 186	NT2	radium 203
NT2	lead 203	NT2	osmium 187	NT2	radium 204
NT2	lead 204	NT2	osmium 188	NT2	radium 205
NT2	lead 205	NT2	osmium 189	NT2	radium 206
NT2	lead 206	NT2	osmium 190	NT2	radium 207
NT2	lead 207	NT2	osmium 191	NT2	radium 208
NT2	lead 208	NT2	osmium 192	NT2	radium 209
NT2	lead 209	NT2	osmium 193	NT2	radium 210
NT2	lead 210	NT2	osmium 194	NT2	radium 211
NT2	lead 211	NT2	osmium 195	NT2	radium 212
NT2	lead 212	NT2	osmium 196	NT2	radium 213
NT2	lead 213	NT2	osmium 197	NT2	radium 214
NT2	lead 214	NT2	osmium 199	NT2	radium 215
NT2	lead 215	NT2	osmium 200	NT2	radium 216

NT2	radium 217	NT2	rutherfordium 256	NT2	tungsten 191
NT2	radium 218	NT2	rutherfordium 257	NT2	tungsten 192
NT2	radium 219	NT2	rutherfordium 258	NT1	hot nuclei
NT2	radium 220	NT2	rutherfordium 259	NT1	hypernuclei
NT2	radium 221	NT2	rutherfordium 260	NT1	intermediate mass nuclei
NT2	radium 222	NT2	rutherfordium 261	NT2	aluminium 41
NT2	radium 223	NT2	rutherfordium 262	NT2	aluminium 42
NT2	radium 224	NT2	rutherfordium 263	NT2	antimony 103
NT2	radium 225	NT2	rutherfordium 264	NT2	antimony 104
NT2	radium 226	NT2	rutherfordium 265	NT2	antimony 105
NT2	radium 227	NT2	rutherfordium 266	NT2	antimony 106
NT2	radium 228	NT2	rutherfordium 267	NT2	antimony 107
NT2	radium 229	NT2	rutherfordium 268	NT2	antimony 108
NT2	radium 230	NT2	seaborgium 258	NT2	antimony 109
NT2	radium 231	NT2	seaborgium 259	NT2	antimony 110
NT2	radium 232	NT2	seaborgium 260	NT2	antimony 111
NT2	radium 233	NT2	seaborgium 261	NT2	antimony 112
NT2	radium 234	NT2	seaborgium 262	NT2	antimony 113
NT2	radon 193	NT2	seaborgium 263	NT2	antimony 114
NT2	radon 194	NT2	seaborgium 264	NT2	antimony 115
NT2	radon 195	NT2	seaborgium 265	NT2	antimony 116
NT2	radon 196	NT2	seaborgium 266	NT2	antimony 117
NT2	radon 197	NT2	seaborgium 268	NT2	antimony 118
NT2	radon 198	NT2	seaborgium 270	NT2	antimony 119
NT2	radon 199	NT2	seaborgium 271	NT2	antimony 120
NT2	radon 200	NT2	seaborgium 272	NT2	antimony 121
NT2	radon 201	NT2	seaborgium 273	NT2	antimony 122
NT2	radon 202	NT2	tantalum 181	NT2	antimony 123
NT2	radon 203	NT2	tantalum 182	NT2	antimony 124
NT2	radon 204	NT2	tantalum 183	NT2	antimony 125
NT2	radon 205	NT2	tantalum 184	NT2	antimony 126
NT2	radon 206	NT2	tantalum 185	NT2	antimony 127
NT2	radon 207	NT2	tantalum 186	NT2	antimony 128
NT2	radon 208	NT2	tantalum 187	NT2	antimony 129
NT2	radon 209	NT2	tantalum 188	NT2	antimony 130
NT2	radon 210	NT2	tantalum 189	NT2	antimony 131
NT2	radon 211	NT2	tantalum 190	NT2	antimony 132
NT2	radon 212	NT2	thallium 181	NT2	antimony 133
NT2	radon 213	NT2	thallium 182	NT2	antimony 134
NT2	radon 214	NT2	thallium 183	NT2	antimony 135
NT2	radon 215	NT2	thallium 184	NT2	antimony 136
NT2	radon 216	NT2	thallium 185	NT2	antimony 137
NT2	radon 217	NT2	thallium 186	NT2	antimony 138
NT2	radon 218	NT2	thallium 187	NT2	antimony 139
NT2	radon 219	NT2	thallium 188	NT2	argon 41
NT2	radon 220	NT2	thallium 189	NT2	argon 42
NT2	radon 221	NT2	thallium 190	NT2	argon 43
NT2	radon 222	NT2	thallium 191	NT2	argon 44
NT2	radon 223	NT2	thallium 192	NT2	argon 45
NT2	radon 224	NT2	thallium 193	NT2	argon 46
NT2	radon 225	NT2	thallium 194	NT2	argon 47
NT2	radon 226	NT2	thallium 195	NT2	argon 48
NT2	radon 227	NT2	thallium 196	NT2	argon 49
NT2	radon 228	NT2	thallium 197	NT2	argon 50
NT2	radon 229	NT2	thallium 198	NT2	argon 51
NT2	rhenium 181	NT2	thallium 199	NT2	argon 52
NT2	rhenium 182	NT2	thallium 200	NT2	argon 53
NT2	rhenium 183	NT2	thallium 201	NT2	arsenic 60
NT2	rhenium 184	NT2	thallium 202	NT2	arsenic 61
NT2	rhenium 185	NT2	thallium 203	NT2	arsenic 62
NT2	rhenium 186	NT2	thallium 204	NT2	arsenic 63
NT2	rhenium 187	NT2	thallium 205	NT2	arsenic 64
NT2	rhenium 188	NT2	thallium 206	NT2	arsenic 65
NT2	rhenium 189	NT2	thallium 207	NT2	arsenic 66
NT2	rhenium 190	NT2	thallium 208	NT2	arsenic 67
NT2	rhenium 191	NT2	thallium 209	NT2	arsenic 68
NT2	rhenium 192	NT2	thallium 210	NT2	arsenic 69
NT2	rhenium 193	NT2	thallium 211	NT2	arsenic 70
NT2	rhenium 194	NT2	thallium 212	NT2	arsenic 71
NT2	rhenium 195	NT2	tungsten 181	NT2	arsenic 72
NT2	rhenium 196	NT2	tungsten 182	NT2	arsenic 73
NT2	roentgenium 272	NT2	tungsten 183	NT2	arsenic 74
NT2	roentgenium 273	NT2	tungsten 184	NT2	arsenic 75
NT2	roentgenium 274	NT2	tungsten 185	NT2	arsenic 76
NT2	roentgenium 279	NT2	tungsten 186	NT2	arsenic 77
NT2	roentgenium 280	NT2	tungsten 187	NT2	arsenic 78
NT2	rutherfordium 253	NT2	tungsten 188	NT2	arsenic 79
NT2	rutherfordium 254	NT2	tungsten 189	NT2	arsenic 80
NT2	rutherfordium 255	NT2	tungsten 190	NT2	arsenic 81

NT2	arsenic 82	NT2	bromine 95	NT2	cesium 131
NT2	arsenic 83	NT2	bromine 96	NT2	cesium 132
NT2	arsenic 84	NT2	bromine 97	NT2	cesium 133
NT2	arsenic 85	NT2	cadmium 100	NT2	cesium 134
NT2	arsenic 86	NT2	cadmium 101	NT2	cesium 135
NT2	arsenic 87	NT2	cadmium 102	NT2	cesium 136
NT2	arsenic 88	NT2	cadmium 103	NT2	cesium 137
NT2	arsenic 89	NT2	cadmium 104	NT2	cesium 138
NT2	arsenic 90	NT2	cadmium 105	NT2	cesium 139
NT2	arsenic 91	NT2	cadmium 106	NT2	cesium 140
NT2	arsenic 92	NT2	cadmium 107	NT2	cesium 141
NT2	barium 114	NT2	cadmium 108	NT2	cesium 142
NT2	barium 115	NT2	cadmium 109	NT2	cesium 143
NT2	barium 116	NT2	cadmium 110	NT2	cesium 144
NT2	barium 117	NT2	cadmium 111	NT2	cesium 145
NT2	barium 118	NT2	cadmium 112	NT2	cesium 146
NT2	barium 119	NT2	cadmium 113	NT2	cesium 147
NT2	barium 120	NT2	cadmium 114	NT2	cesium 148
NT2	barium 121	NT2	cadmium 115	NT2	cesium 149
NT2	barium 122	NT2	cadmium 116	NT2	cesium 150
NT2	barium 123	NT2	cadmium 117	NT2	cesium 151
NT2	barium 124	NT2	cadmium 118	NT2	chlorine 41
NT2	barium 125	NT2	cadmium 119	NT2	chlorine 42
NT2	barium 126	NT2	cadmium 120	NT2	chlorine 43
NT2	barium 127	NT2	cadmium 121	NT2	chlorine 44
NT2	barium 128	NT2	cadmium 122	NT2	chlorine 45
NT2	barium 129	NT2	cadmium 123	NT2	chlorine 46
NT2	barium 130	NT2	cadmium 124	NT2	chlorine 47
NT2	barium 131	NT2	cadmium 125	NT2	chlorine 48
NT2	barium 132	NT2	cadmium 126	NT2	chlorine 49
NT2	barium 133	NT2	cadmium 127	NT2	chlorine 50
NT2	barium 134	NT2	cadmium 128	NT2	chlorine 51
NT2	barium 135	NT2	cadmium 129	NT2	chromium 42
NT2	barium 136	NT2	cadmium 130	NT2	chromium 43
NT2	barium 137	NT2	cadmium 131	NT2	chromium 44
NT2	barium 138	NT2	cadmium 132	NT2	chromium 45
NT2	barium 139	NT2	cadmium 95	NT2	chromium 46
NT2	barium 140	NT2	cadmium 96	NT2	chromium 47
NT2	barium 141	NT2	cadmium 97	NT2	chromium 48
NT2	barium 142	NT2	cadmium 98	NT2	chromium 49
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NT2	barium 144	NT2	calcium 41	NT2	chromium 51
NT2	barium 145	NT2	calcium 42	NT2	chromium 52
NT2	barium 146	NT2	calcium 43	NT2	chromium 53
NT2	barium 147	NT2	calcium 44	NT2	chromium 54
NT2	barium 148	NT2	calcium 45	NT2	chromium 55
NT2	barium 149	NT2	calcium 46	NT2	chromium 56
NT2	barium 150	NT2	calcium 47	NT2	chromium 57
NT2	barium 151	NT2	calcium 48	NT2	chromium 58
NT2	barium 152	NT2	calcium 49	NT2	chromium 59
NT2	barium 153	NT2	calcium 50	NT2	chromium 60
NT2	bromine 67	NT2	calcium 51	NT2	chromium 61
NT2	bromine 68	NT2	calcium 52	NT2	chromium 62
NT2	bromine 69	NT2	calcium 53	NT2	chromium 63
NT2	bromine 70	NT2	calcium 54	NT2	chromium 64
NT2	bromine 71	NT2	calcium 55	NT2	chromium 65
NT2	bromine 72	NT2	calcium 56	NT2	chromium 66
NT2	bromine 73	NT2	calcium 57	NT2	chromium 67
NT2	bromine 74	NT2	calcium 58	NT2	chromium 68
NT2	bromine 75	NT2	calcium 60	NT2	cobalt 49
NT2	bromine 76	NT2	cesium 112	NT2	cobalt 50
NT2	bromine 77	NT2	cesium 113	NT2	cobalt 51
NT2	bromine 78	NT2	cesium 114	NT2	cobalt 52
NT2	bromine 79	NT2	cesium 115	NT2	cobalt 53
NT2	bromine 80	NT2	cesium 116	NT2	cobalt 54
NT2	bromine 81	NT2	cesium 117	NT2	cobalt 55
NT2	bromine 82	NT2	cesium 118	NT2	cobalt 56
NT2	bromine 83	NT2	cesium 119	NT2	cobalt 57
NT2	bromine 84	NT2	cesium 120	NT2	cobalt 58
NT2	bromine 85	NT2	cesium 121	NT2	cobalt 59
NT2	bromine 86	NT2	cesium 122	NT2	cobalt 60
NT2	bromine 87	NT2	cesium 123	NT2	cobalt 61
NT2	bromine 88	NT2	cesium 124	NT2	cobalt 62
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NT2	bromine 90	NT2	cesium 126	NT2	cobalt 64
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NT2	bromine 92	NT2	cesium 128	NT2	cobalt 66
NT2	bromine 93	NT2	cesium 129	NT2	cobalt 67
NT2	bromine 94	NT2	cesium 130	NT2	cobalt 68

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NT2	iron 49	NT2	manganese 64	NT2	nickel 77
NT2	iron 50	NT2	manganese 65	NT2	nickel 78
NT2	iron 51	NT2	manganese 66	NT2	nickel 80
NT2	iron 52	NT2	manganese 67	NT2	niobium 100
NT2	iron 53	NT2	manganese 68	NT2	niobium 101
NT2	iron 54	NT2	manganese 69	NT2	niobium 102
NT2	iron 55	NT2	manganese 70	NT2	niobium 103
NT2	iron 56	NT2	mercury 171	NT2	niobium 104
NT2	iron 57	NT2	mercury 172	NT2	niobium 105
NT2	iron 58	NT2	mercury 173	NT2	niobium 106
NT2	iron 59	NT2	mercury 174	NT2	niobium 107
NT2	iron 60	NT2	mercury 175	NT2	niobium 108
NT2	iron 61	NT2	mercury 176	NT2	niobium 109
NT2	iron 62	NT2	mercury 177	NT2	niobium 110
NT2	iron 63	NT2	mercury 178	NT2	niobium 111
NT2	iron 64	NT2	mercury 179	NT2	niobium 112
NT2	iron 65	NT2	mercury 180	NT2	niobium 113
NT2	iron 66	NT2	molybdenum 100	NT2	niobium 81
NT2	iron 67	NT2	molybdenum 101	NT2	niobium 82
NT2	iron 68	NT2	molybdenum 102	NT2	niobium 83
NT2	iron 69	NT2	molybdenum 103	NT2	niobium 84
NT2	iron 70	NT2	molybdenum 104	NT2	niobium 85
NT2	iron 71	NT2	molybdenum 105	NT2	niobium 86
NT2	iron 72	NT2	molybdenum 106	NT2	niobium 87
NT2	krypton 100	NT2	molybdenum 107	NT2	niobium 88
NT2	krypton 69	NT2	molybdenum 108	NT2	niobium 89
NT2	krypton 70	NT2	molybdenum 109	NT2	niobium 90
NT2	krypton 71	NT2	molybdenum 110	NT2	niobium 91
NT2	krypton 72	NT2	molybdenum 111	NT2	niobium 92
NT2	krypton 73	NT2	molybdenum 112	NT2	niobium 93
NT2	krypton 74	NT2	molybdenum 113	NT2	niobium 94
NT2	krypton 75	NT2	molybdenum 114	NT2	niobium 95
NT2	krypton 76	NT2	molybdenum 115	NT2	niobium 96
NT2	krypton 77	NT2	molybdenum 83	NT2	niobium 97
NT2	krypton 78	NT2	molybdenum 84	NT2	niobium 98
NT2	krypton 79	NT2	molybdenum 85	NT2	niobium 99
NT2	krypton 80	NT2	molybdenum 86	NT2	osmium 161
NT2	krypton 81	NT2	molybdenum 87	NT2	osmium 162
NT2	krypton 82	NT2	molybdenum 88	NT2	osmium 163
NT2	krypton 83	NT2	molybdenum 89	NT2	osmium 164
NT2	krypton 84	NT2	molybdenum 90	NT2	osmium 165
NT2	krypton 85	NT2	molybdenum 91	NT2	osmium 166
NT2	krypton 86	NT2	molybdenum 92	NT2	osmium 167
NT2	krypton 87	NT2	molybdenum 93	NT2	osmium 168
NT2	krypton 88	NT2	molybdenum 94	NT2	osmium 169
NT2	krypton 89	NT2	molybdenum 95	NT2	osmium 170
NT2	krypton 90	NT2	molybdenum 96	NT2	osmium 171
NT2	krypton 91	NT2	molybdenum 97	NT2	osmium 172
NT2	krypton 92	NT2	molybdenum 98	NT2	osmium 173
NT2	krypton 93	NT2	molybdenum 99	NT2	osmium 174
NT2	krypton 94	NT2	nickel 48	NT2	osmium 175
NT2	krypton 95	NT2	nickel 49	NT2	osmium 176
NT2	krypton 96	NT2	nickel 50	NT2	osmium 177
NT2	krypton 97	NT2	nickel 51	NT2	osmium 178
NT2	krypton 98	NT2	nickel 52	NT2	osmium 179
NT2	krypton 99	NT2	nickel 53	NT2	osmium 180
NT2	lead 178	NT2	nickel 54	NT2	palladium 100
NT2	lead 179	NT2	nickel 55	NT2	palladium 101
NT2	lead 180	NT2	nickel 56	NT2	palladium 102
NT2	manganese 44	NT2	nickel 57	NT2	palladium 103
NT2	manganese 45	NT2	nickel 58	NT2	palladium 104
NT2	manganese 46	NT2	nickel 59	NT2	palladium 105
NT2	manganese 47	NT2	nickel 60	NT2	palladium 106
NT2	manganese 48	NT2	nickel 61	NT2	palladium 107
NT2	manganese 49	NT2	nickel 62	NT2	palladium 108
NT2	manganese 50	NT2	nickel 63	NT2	palladium 109
NT2	manganese 51	NT2	nickel 64	NT2	palladium 110
NT2	manganese 52	NT2	nickel 65	NT2	palladium 111
NT2	manganese 53	NT2	nickel 66	NT2	palladium 112
NT2	manganese 54	NT2	nickel 67	NT2	palladium 113
NT2	manganese 55	NT2	nickel 68	NT2	palladium 114
NT2	manganese 56	NT2	nickel 69	NT2	palladium 115
NT2	manganese 57	NT2	nickel 70	NT2	palladium 116
NT2	manganese 58	NT2	nickel 71	NT2	palladium 117
NT2	manganese 59	NT2	nickel 72	NT2	palladium 118
NT2	manganese 60	NT2	nickel 73	NT2	palladium 119
NT2	manganese 61	NT2	nickel 74	NT2	palladium 120
NT2	manganese 62	NT2	nickel 75	NT2	palladium 121
NT2	manganese 63	NT2	nickel 76	NT2	palladium 122

<b>NT2</b>	palladium 123	<b>NT3</b>	cerium 149	<b>NT3</b>	europium 130
<b>NT2</b>	palladium 124	<b>NT3</b>	cerium 150	<b>NT3</b>	europium 131
<b>NT2</b>	palladium 91	<b>NT3</b>	cerium 151	<b>NT3</b>	europium 132
<b>NT2</b>	palladium 92	<b>NT3</b>	cerium 152	<b>NT3</b>	europium 133
<b>NT2</b>	palladium 93	<b>NT3</b>	cerium 153	<b>NT3</b>	europium 134
<b>NT2</b>	palladium 94	<b>NT3</b>	cerium 154	<b>NT3</b>	europium 135
<b>NT2</b>	palladium 95	<b>NT3</b>	cerium 155	<b>NT3</b>	europium 136
<b>NT2</b>	palladium 96	<b>NT3</b>	cerium 156	<b>NT3</b>	europium 137
<b>NT2</b>	palladium 97	<b>NT3</b>	cerium 157	<b>NT3</b>	europium 138
<b>NT2</b>	palladium 98	<b>NT3</b>	dysprosium 138	<b>NT3</b>	europium 139
<b>NT2</b>	palladium 99	<b>NT3</b>	dysprosium 139	<b>NT3</b>	europium 140
<b>NT2</b>	phosphorus 41	<b>NT3</b>	dysprosium 140	<b>NT3</b>	europium 141
<b>NT2</b>	phosphorus 42	<b>NT3</b>	dysprosium 141	<b>NT3</b>	europium 142
<b>NT2</b>	phosphorus 43	<b>NT3</b>	dysprosium 142	<b>NT3</b>	europium 143
<b>NT2</b>	phosphorus 44	<b>NT3</b>	dysprosium 143	<b>NT3</b>	europium 144
<b>NT2</b>	phosphorus 45	<b>NT3</b>	dysprosium 144	<b>NT3</b>	europium 145
<b>NT2</b>	phosphorus 46	<b>NT3</b>	dysprosium 145	<b>NT3</b>	europium 146
<b>NT2</b>	platinum 166	<b>NT3</b>	dysprosium 146	<b>NT3</b>	europium 147
<b>NT2</b>	platinum 167	<b>NT3</b>	dysprosium 147	<b>NT3</b>	europium 148
<b>NT2</b>	platinum 168	<b>NT3</b>	dysprosium 148	<b>NT3</b>	europium 149
<b>NT2</b>	platinum 169	<b>NT3</b>	dysprosium 149	<b>NT3</b>	europium 150
<b>NT2</b>	platinum 170	<b>NT3</b>	dysprosium 150	<b>NT3</b>	europium 151
<b>NT2</b>	platinum 171	<b>NT3</b>	dysprosium 151	<b>NT3</b>	europium 152
<b>NT2</b>	platinum 172	<b>NT3</b>	dysprosium 152	<b>NT3</b>	europium 153
<b>NT2</b>	platinum 173	<b>NT3</b>	dysprosium 153	<b>NT3</b>	europium 154
<b>NT2</b>	platinum 174	<b>NT3</b>	dysprosium 154	<b>NT3</b>	europium 155
<b>NT2</b>	platinum 175	<b>NT3</b>	dysprosium 155	<b>NT3</b>	europium 156
<b>NT2</b>	platinum 176	<b>NT3</b>	dysprosium 156	<b>NT3</b>	europium 157
<b>NT2</b>	platinum 177	<b>NT3</b>	dysprosium 157	<b>NT3</b>	europium 158
<b>NT2</b>	platinum 178	<b>NT3</b>	dysprosium 158	<b>NT3</b>	europium 159
<b>NT2</b>	platinum 179	<b>NT3</b>	dysprosium 159	<b>NT3</b>	europium 160
<b>NT2</b>	platinum 180	<b>NT3</b>	dysprosium 160	<b>NT3</b>	europium 161
<b>NT2</b>	potassium 41	<b>NT3</b>	dysprosium 161	<b>NT3</b>	europium 162
<b>NT2</b>	potassium 42	<b>NT3</b>	dysprosium 162	<b>NT3</b>	europium 163
<b>NT2</b>	potassium 43	<b>NT3</b>	dysprosium 163	<b>NT3</b>	europium 164
<b>NT2</b>	potassium 44	<b>NT3</b>	dysprosium 164	<b>NT3</b>	europium 165
<b>NT2</b>	potassium 45	<b>NT3</b>	dysprosium 165	<b>NT3</b>	europium 166
<b>NT2</b>	potassium 46	<b>NT3</b>	dysprosium 166	<b>NT3</b>	europium 167
<b>NT2</b>	potassium 47	<b>NT3</b>	dysprosium 167	<b>NT3</b>	europium 168
<b>NT2</b>	potassium 48	<b>NT3</b>	dysprosium 168	<b>NT3</b>	europium 169
<b>NT2</b>	potassium 49	<b>NT3</b>	dysprosium 169	<b>NT3</b>	europium 170
<b>NT2</b>	potassium 50	<b>NT3</b>	dysprosium 170	<b>NT3</b>	europium 171
<b>NT2</b>	potassium 51	<b>NT3</b>	dysprosium 171	<b>NT3</b>	europium 172
<b>NT2</b>	potassium 52	<b>NT3</b>	dysprosium 172	<b>NT3</b>	europium 173
<b>NT2</b>	potassium 53	<b>NT3</b>	dysprosium 173	<b>NT3</b>	europium 174
<b>NT2</b>	potassium 54	<b>NT3</b>	erbium 143	<b>NT3</b>	europium 175
<b>NT2</b>	potassium 55	<b>NT3</b>	erbium 144	<b>NT3</b>	europium 176
<b>NT2</b>	potassium 56	<b>NT3</b>	erbium 145	<b>NT3</b>	europium 177
<b>NT2</b>	rare earth nuclei	<b>NT3</b>	erbium 147	<b>NT3</b>	europium 178
<b>NT3</b>	cerium 119	<b>NT3</b>	erbium 148	<b>NT3</b>	europium 179
<b>NT3</b>	cerium 120	<b>NT3</b>	erbium 149	<b>NT3</b>	europium 180
<b>NT3</b>	cerium 121	<b>NT3</b>	erbium 150	<b>NT3</b>	europium 181
<b>NT3</b>	cerium 122	<b>NT3</b>	erbium 151	<b>NT3</b>	europium 182
<b>NT3</b>	cerium 123	<b>NT3</b>	erbium 152	<b>NT3</b>	europium 183
<b>NT3</b>	cerium 124	<b>NT3</b>	erbium 153	<b>NT3</b>	europium 184
<b>NT3</b>	cerium 125	<b>NT3</b>	erbium 154	<b>NT3</b>	europium 185
<b>NT3</b>	cerium 126	<b>NT3</b>	erbium 155	<b>NT3</b>	europium 186
<b>NT3</b>	cerium 127	<b>NT3</b>	erbium 156	<b>NT3</b>	europium 187
<b>NT3</b>	cerium 128	<b>NT3</b>	erbium 157	<b>NT3</b>	europium 188
<b>NT3</b>	cerium 129	<b>NT3</b>	erbium 158	<b>NT3</b>	europium 189
<b>NT3</b>	cerium 130	<b>NT3</b>	erbium 159	<b>NT3</b>	europium 190
<b>NT3</b>	cerium 131	<b>NT3</b>	erbium 160	<b>NT3</b>	europium 191
<b>NT3</b>	cerium 132	<b>NT3</b>	erbium 161	<b>NT3</b>	europium 192
<b>NT3</b>	cerium 133	<b>NT3</b>	erbium 162	<b>NT3</b>	europium 193
<b>NT3</b>	cerium 134	<b>NT3</b>	erbium 163	<b>NT3</b>	europium 194
<b>NT3</b>	cerium 135	<b>NT3</b>	erbium 164	<b>NT3</b>	europium 195
<b>NT3</b>	cerium 136	<b>NT3</b>	erbium 165	<b>NT3</b>	europium 196
<b>NT3</b>	cerium 137	<b>NT3</b>	erbium 166	<b>NT3</b>	europium 197
<b>NT3</b>	cerium 138	<b>NT3</b>	erbium 167	<b>NT3</b>	europium 198
<b>NT3</b>	cerium 139	<b>NT3</b>	erbium 168	<b>NT3</b>	europium 199
<b>NT3</b>	cerium 140	<b>NT3</b>	erbium 169	<b>NT3</b>	europium 200
<b>NT3</b>	cerium 141	<b>NT3</b>	erbium 170	<b>NT3</b>	europium 201
<b>NT3</b>	cerium 142	<b>NT3</b>	erbium 171	<b>NT3</b>	europium 202
<b>NT3</b>	cerium 143	<b>NT3</b>	erbium 172	<b>NT3</b>	europium 203
<b>NT3</b>	cerium 144	<b>NT3</b>	erbium 173	<b>NT3</b>	europium 204
<b>NT3</b>	cerium 145	<b>NT3</b>	erbium 174	<b>NT3</b>	europium 205
<b>NT3</b>	cerium 146	<b>NT3</b>	erbium 175	<b>NT3</b>	europium 206
<b>NT3</b>	cerium 147	<b>NT3</b>	erbium 176	<b>NT3</b>	europium 207
<b>NT3</b>	cerium 148	<b>NT3</b>	erbium 177	<b>NT3</b>	europium 208



NT3	holmium 145	NT3	lutetium 159	NT3	praseodymium 135
NT3	holmium 146	NT3	lutetium 160	NT3	praseodymium 136
NT3	holmium 147	NT3	lutetium 161	NT3	praseodymium 137
NT3	holmium 148	NT3	lutetium 162	NT3	praseodymium 138
NT3	holmium 149	NT3	lutetium 163	NT3	praseodymium 139
NT3	holmium 150	NT3	lutetium 164	NT3	praseodymium 140
NT3	holmium 151	NT3	lutetium 165	NT3	praseodymium 141
NT3	holmium 152	NT3	lutetium 166	NT3	praseodymium 142
NT3	holmium 153	NT3	lutetium 167	NT3	praseodymium 143
NT3	holmium 154	NT3	lutetium 168	NT3	praseodymium 144
NT3	holmium 155	NT3	lutetium 169	NT3	praseodymium 145
NT3	holmium 156	NT3	lutetium 170	NT3	praseodymium 146
NT3	holmium 157	NT3	lutetium 171	NT3	praseodymium 147
NT3	holmium 158	NT3	lutetium 172	NT3	praseodymium 148
NT3	holmium 159	NT3	lutetium 173	NT3	praseodymium 149
NT3	holmium 160	NT3	lutetium 174	NT3	praseodymium 150
NT3	holmium 161	NT3	lutetium 175	NT3	praseodymium 151
NT3	holmium 162	NT3	lutetium 176	NT3	praseodymium 152
NT3	holmium 163	NT3	lutetium 177	NT3	praseodymium 153
NT3	holmium 164	NT3	lutetium 178	NT3	praseodymium 154
NT3	holmium 165	NT3	lutetium 179	NT3	praseodymium 155
NT3	holmium 166	NT3	lutetium 180	NT3	praseodymium 156
NT3	holmium 167	NT3	lutetium 181	NT3	praseodymium 157
NT3	holmium 168	NT3	lutetium 182	NT3	praseodymium 158
NT3	holmium 169	NT3	lutetium 183	NT3	praseodymium 159
NT3	holmium 170	NT3	lutetium 184	NT3	promethium 126
NT3	holmium 171	NT3	lutetium 187	NT3	promethium 127
NT3	holmium 172	NT3	neodymium 124	NT3	promethium 128
NT3	holmium 173	NT3	neodymium 125	NT3	promethium 129
NT3	holmium 174	NT3	neodymium 126	NT3	promethium 130
NT3	holmium 175	NT3	neodymium 127	NT3	promethium 131
NT3	lanthanum 117	NT3	neodymium 128	NT3	promethium 132
NT3	lanthanum 118	NT3	neodymium 129	NT3	promethium 133
NT3	lanthanum 119	NT3	neodymium 130	NT3	promethium 134
NT3	lanthanum 120	NT3	neodymium 131	NT3	promethium 135
NT3	lanthanum 121	NT3	neodymium 132	NT3	promethium 136
NT3	lanthanum 122	NT3	neodymium 133	NT3	promethium 137
NT3	lanthanum 123	NT3	neodymium 134	NT3	promethium 138
NT3	lanthanum 124	NT3	neodymium 135	NT3	promethium 139
NT3	lanthanum 125	NT3	neodymium 136	NT3	promethium 140
NT3	lanthanum 126	NT3	neodymium 137	NT3	promethium 141
NT3	lanthanum 127	NT3	neodymium 138	NT3	promethium 142
NT3	lanthanum 128	NT3	neodymium 139	NT3	promethium 143
NT3	lanthanum 129	NT3	neodymium 140	NT3	promethium 144
NT3	lanthanum 130	NT3	neodymium 141	NT3	promethium 145
NT3	lanthanum 131	NT3	neodymium 142	NT3	promethium 146
NT3	lanthanum 132	NT3	neodymium 143	NT3	promethium 147
NT3	lanthanum 133	NT3	neodymium 144	NT3	promethium 148
NT3	lanthanum 134	NT3	neodymium 145	NT3	promethium 149
NT3	lanthanum 135	NT3	neodymium 146	NT3	promethium 150
NT3	lanthanum 136	NT3	neodymium 147	NT3	promethium 151
NT3	lanthanum 137	NT3	neodymium 148	NT3	promethium 152
NT3	lanthanum 138	NT3	neodymium 149	NT3	promethium 153
NT3	lanthanum 139	NT3	neodymium 150	NT3	promethium 154
NT3	lanthanum 140	NT3	neodymium 151	NT3	promethium 155
NT3	lanthanum 141	NT3	neodymium 152	NT3	promethium 156
NT3	lanthanum 142	NT3	neodymium 153	NT3	promethium 157
NT3	lanthanum 143	NT3	neodymium 154	NT3	promethium 158
NT3	lanthanum 144	NT3	neodymium 155	NT3	promethium 159
NT3	lanthanum 145	NT3	neodymium 156	NT3	promethium 160
NT3	lanthanum 146	NT3	neodymium 157	NT3	promethium 161
NT3	lanthanum 147	NT3	neodymium 158	NT3	promethium 162
NT3	lanthanum 148	NT3	neodymium 159	NT3	promethium 163
NT3	lanthanum 149	NT3	neodymium 160	NT3	samarium 128
NT3	lanthanum 150	NT3	neodymium 161	NT3	samarium 129
NT3	lanthanum 151	NT3	praseodymium 121	NT3	samarium 130
NT3	lanthanum 152	NT3	praseodymium 122	NT3	samarium 131
NT3	lanthanum 153	NT3	praseodymium 123	NT3	samarium 132
NT3	lanthanum 154	NT3	praseodymium 124	NT3	samarium 133
NT3	lanthanum 155	NT3	praseodymium 125	NT3	samarium 134
NT3	lutetium 150	NT3	praseodymium 126	NT3	samarium 135
NT3	lutetium 151	NT3	praseodymium 127	NT3	samarium 136
NT3	lutetium 152	NT3	praseodymium 128	NT3	samarium 137
NT3	lutetium 153	NT3	praseodymium 129	NT3	samarium 138
NT3	lutetium 154	NT3	praseodymium 130	NT3	samarium 139
NT3	lutetium 155	NT3	praseodymium 131	NT3	samarium 140
NT3	lutetium 156	NT3	praseodymium 132	NT3	samarium 141
NT3	lutetium 157	NT3	praseodymium 133	NT3	samarium 142
NT3	lutetium 158	NT3	praseodymium 134	NT3	samarium 143

NT3 samarium 144	NT3 thulium 164	NT2 rhodium 107
NT3 samarium 145	NT3 thulium 165	NT2 rhodium 108
NT3 samarium 146	NT3 thulium 166	NT2 rhodium 109
NT3 samarium 147	NT3 thulium 167	NT2 rhodium 110
NT3 samarium 148	NT3 thulium 168	NT2 rhodium 111
NT3 samarium 149	NT3 thulium 169	NT2 rhodium 112
NT3 samarium 150	NT3 thulium 170	NT2 rhodium 113
NT3 samarium 151	NT3 thulium 171	NT2 rhodium 114
NT3 samarium 152	NT3 thulium 172	NT2 rhodium 115
NT3 samarium 153	NT3 thulium 173	NT2 rhodium 116
NT3 samarium 154	NT3 thulium 174	NT2 rhodium 117
NT3 samarium 155	NT3 thulium 175	NT2 rhodium 118
NT3 samarium 156	NT3 thulium 176	NT2 rhodium 119
NT3 samarium 157	NT3 thulium 177	NT2 rhodium 120
NT3 samarium 158	NT3 thulium 178	NT2 rhodium 121
NT3 samarium 159	NT3 thulium 179	NT2 rhodium 122
NT3 samarium 160	NT3 ytterbium 148	NT2 rhodium 89
NT3 samarium 161	NT3 ytterbium 149	NT2 rhodium 90
NT3 samarium 162	NT3 ytterbium 150	NT2 rhodium 91
NT3 samarium 163	NT3 ytterbium 151	NT2 rhodium 92
NT3 samarium 164	NT3 ytterbium 152	NT2 rhodium 93
NT3 samarium 165	NT3 ytterbium 153	NT2 rhodium 94
NT3 terbium 135	NT3 ytterbium 154	NT2 rhodium 95
NT3 terbium 136	NT3 ytterbium 155	NT2 rhodium 96
NT3 terbium 137	NT3 ytterbium 156	NT2 rhodium 97
NT3 terbium 138	NT3 ytterbium 157	NT2 rhodium 98
NT3 terbium 139	NT3 ytterbium 158	NT2 rhodium 99
NT3 terbium 140	NT3 ytterbium 159	NT2 rubidium 100
NT3 terbium 141	NT3 ytterbium 160	NT2 rubidium 101
NT3 terbium 142	NT3 ytterbium 161	NT2 rubidium 102
NT3 terbium 143	NT3 ytterbium 162	NT2 rubidium 103
NT3 terbium 144	NT3 ytterbium 163	NT2 rubidium 71
NT3 terbium 145	NT3 ytterbium 164	NT2 rubidium 72
NT3 terbium 146	NT3 ytterbium 165	NT2 rubidium 73
NT3 terbium 147	NT3 ytterbium 166	NT2 rubidium 74
NT3 terbium 148	NT3 ytterbium 167	NT2 rubidium 75
NT3 terbium 149	NT3 ytterbium 168	NT2 rubidium 76
NT3 terbium 150	NT3 ytterbium 169	NT2 rubidium 77
NT3 terbium 151	NT3 ytterbium 170	NT2 rubidium 78
NT3 terbium 152	NT3 ytterbium 171	NT2 rubidium 79
NT3 terbium 153	NT3 ytterbium 172	NT2 rubidium 80
NT3 terbium 154	NT3 ytterbium 173	NT2 rubidium 81
NT3 terbium 155	NT3 ytterbium 174	NT2 rubidium 82
NT3 terbium 156	NT3 ytterbium 175	NT2 rubidium 83
NT3 terbium 157	NT3 ytterbium 176	NT2 rubidium 84
NT3 terbium 158	NT3 ytterbium 177	NT2 rubidium 85
NT3 terbium 159	NT3 ytterbium 178	NT2 rubidium 86
NT3 terbium 160	NT3 ytterbium 179	NT2 rubidium 87
NT3 terbium 161	NT3 ytterbium 180	NT2 rubidium 88
NT3 terbium 162	NT3 ytterbium 181	NT2 rubidium 89
NT3 terbium 163	NT2 rhenium 159	NT2 rubidium 90
NT3 terbium 164	NT2 rhenium 160	NT2 rubidium 91
NT3 terbium 165	NT2 rhenium 161	NT2 rubidium 92
NT3 terbium 166	NT2 rhenium 162	NT2 rubidium 93
NT3 terbium 167	NT2 rhenium 163	NT2 rubidium 94
NT3 terbium 168	NT2 rhenium 164	NT2 rubidium 95
NT3 terbium 169	NT2 rhenium 165	NT2 rubidium 96
NT3 terbium 170	NT2 rhenium 166	NT2 rubidium 97
NT3 terbium 171	NT2 rhenium 167	NT2 rubidium 98
NT3 thulium 144	NT2 rhenium 168	NT2 rubidium 99
NT3 thulium 145	NT2 rhenium 169	NT2 ruthenium 100
NT3 thulium 146	NT2 rhenium 170	NT2 ruthenium 101
NT3 thulium 147	NT2 rhenium 171	NT2 ruthenium 102
NT3 thulium 148	NT2 rhenium 172	NT2 ruthenium 103
NT3 thulium 149	NT2 rhenium 173	NT2 ruthenium 104
NT3 thulium 150	NT2 rhenium 174	NT2 ruthenium 105
NT3 thulium 151	NT2 rhenium 175	NT2 ruthenium 106
NT3 thulium 152	NT2 rhenium 176	NT2 ruthenium 107
NT3 thulium 153	NT2 rhenium 177	NT2 ruthenium 108
NT3 thulium 154	NT2 rhenium 178	NT2 ruthenium 109
NT3 thulium 155	NT2 rhenium 179	NT2 ruthenium 110
NT3 thulium 156	NT2 rhenium 180	NT2 ruthenium 111
NT3 thulium 157	NT2 rhodium 100	NT2 ruthenium 112
NT3 thulium 158	NT2 rhodium 101	NT2 ruthenium 113
NT3 thulium 159	NT2 rhodium 102	NT2 ruthenium 114
NT3 thulium 160	NT2 rhodium 103	NT2 ruthenium 115
NT3 thulium 161	NT2 rhodium 104	NT2 ruthenium 116
NT3 thulium 162	NT2 rhodium 105	NT2 ruthenium 117
NT3 thulium 163	NT2 rhodium 106	NT2 ruthenium 118

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NT2 tellurium 134

NT2	tellurium 135	NT2	tungsten 161	NT2	xenon 142
NT2	tellurium 136	NT2	tungsten 162	NT2	xenon 143
NT2	tellurium 137	NT2	tungsten 163	NT2	xenon 144
NT2	tellurium 138	NT2	tungsten 164	NT2	xenon 145
NT2	tellurium 139	NT2	tungsten 165	NT2	xenon 146
NT2	tellurium 140	NT2	tungsten 166	NT2	xenon 147
NT2	tellurium 141	NT2	tungsten 167	NT2	yttrium 100
NT2	tellurium 142	NT2	tungsten 168	NT2	yttrium 101
NT2	thallium 176	NT2	tungsten 169	NT2	yttrium 102
NT2	thallium 177	NT2	tungsten 170	NT2	yttrium 103
NT2	thallium 178	NT2	tungsten 171	NT2	yttrium 104
NT2	thallium 179	NT2	tungsten 172	NT2	yttrium 105
NT2	thallium 180	NT2	tungsten 173	NT2	yttrium 106
NT2	tin 100	NT2	tungsten 174	NT2	yttrium 107
NT2	tin 101	NT2	tungsten 175	NT2	yttrium 108
NT2	tin 102	NT2	tungsten 176	NT2	yttrium 76
NT2	tin 103	NT2	tungsten 177	NT2	yttrium 77
NT2	tin 104	NT2	tungsten 178	NT2	yttrium 78
NT2	tin 105	NT2	tungsten 179	NT2	yttrium 79
NT2	tin 106	NT2	tungsten 180	NT2	yttrium 80
NT2	tin 107	NT2	vanadium 41	NT2	yttrium 81
NT2	tin 108	NT2	vanadium 42	NT2	yttrium 82
NT2	tin 109	NT2	vanadium 43	NT2	yttrium 83
NT2	tin 110	NT2	vanadium 44	NT2	yttrium 84
NT2	tin 111	NT2	vanadium 45	NT2	yttrium 85
NT2	tin 112	NT2	vanadium 46	NT2	yttrium 86
NT2	tin 113	NT2	vanadium 47	NT2	yttrium 87
NT2	tin 114	NT2	vanadium 48	NT2	yttrium 88
NT2	tin 115	NT2	vanadium 49	NT2	yttrium 89
NT2	tin 116	NT2	vanadium 50	NT2	yttrium 90
NT2	tin 117	NT2	vanadium 51	NT2	yttrium 91
NT2	tin 118	NT2	vanadium 52	NT2	yttrium 92
NT2	tin 119	NT2	vanadium 53	NT2	yttrium 93
NT2	tin 120	NT2	vanadium 54	NT2	yttrium 94
NT2	tin 121	NT2	vanadium 55	NT2	yttrium 95
NT2	tin 122	NT2	vanadium 56	NT2	yttrium 96
NT2	tin 123	NT2	vanadium 57	NT2	yttrium 97
NT2	tin 124	NT2	vanadium 58	NT2	yttrium 98
NT2	tin 125	NT2	vanadium 59	NT2	yttrium 99
NT2	tin 126	NT2	vanadium 60	NT2	zinc 54
NT2	tin 127	NT2	vanadium 61	NT2	zinc 55
NT2	tin 128	NT2	vanadium 62	NT2	zinc 56
NT2	tin 129	NT2	vanadium 63	NT2	zinc 57
NT2	tin 130	NT2	vanadium 64	NT2	zinc 58
NT2	tin 131	NT2	vanadium 65	NT2	zinc 59
NT2	tin 132	NT2	vanadium 66	NT2	zinc 60
NT2	tin 133	NT2	xenon 109	NT2	zinc 61
NT2	tin 134	NT2	xenon 110	NT2	zinc 62
NT2	tin 135	NT2	xenon 111	NT2	zinc 63
NT2	tin 136	NT2	xenon 112	NT2	zinc 64
NT2	tin 137	NT2	xenon 113	NT2	zinc 65
NT2	tin 99	NT2	xenon 114	NT2	zinc 66
NT2	titanium 41	NT2	xenon 115	NT2	zinc 67
NT2	titanium 42	NT2	xenon 116	NT2	zinc 68
NT2	titanium 43	NT2	xenon 117	NT2	zinc 69
NT2	titanium 44	NT2	xenon 118	NT2	zinc 70
NT2	titanium 45	NT2	xenon 119	NT2	zinc 71
NT2	titanium 46	NT2	xenon 120	NT2	zinc 72
NT2	titanium 47	NT2	xenon 121	NT2	zinc 73
NT2	titanium 48	NT2	xenon 122	NT2	zinc 74
NT2	titanium 49	NT2	xenon 123	NT2	zinc 75
NT2	titanium 50	NT2	xenon 124	NT2	zinc 76
NT2	titanium 51	NT2	xenon 125	NT2	zinc 77
NT2	titanium 52	NT2	xenon 126	NT2	zinc 78
NT2	titanium 53	NT2	xenon 127	NT2	zinc 79
NT2	titanium 54	NT2	xenon 128	NT2	zinc 80
NT2	titanium 55	NT2	xenon 129	NT2	zinc 81
NT2	titanium 56	NT2	xenon 130	NT2	zinc 82
NT2	titanium 57	NT2	xenon 131	NT2	zinc 83
NT2	titanium 58	NT2	xenon 132	NT2	zirconium 100
NT2	titanium 59	NT2	xenon 133	NT2	zirconium 101
NT2	titanium 60	NT2	xenon 134	NT2	zirconium 102
NT2	titanium 61	NT2	xenon 135	NT2	zirconium 103
NT2	titanium 62	NT2	xenon 136	NT2	zirconium 104
NT2	titanium 63	NT2	xenon 137	NT2	zirconium 105
NT2	tungsten 157	NT2	xenon 138	NT2	zirconium 106
NT2	tungsten 158	NT2	xenon 139	NT2	zirconium 107
NT2	tungsten 159	NT2	xenon 140	NT2	zirconium 108
NT2	tungsten 160	NT2	xenon 141	NT2	zirconium 109

NT2	zirconium 110	NT2	boron 19	NT2	lithium 11
NT2	zirconium 78	NT2	boron 6	NT2	lithium 12
NT2	zirconium 79	NT2	boron 7	NT2	lithium 13
NT2	zirconium 80	NT2	boron 8	NT2	lithium 3
NT2	zirconium 81	NT2	boron 9	NT2	lithium 4
NT2	zirconium 82	NT2	calcium 34	NT2	lithium 5
NT2	zirconium 83	NT2	calcium 35	NT2	lithium 6
NT2	zirconium 84	NT2	calcium 36	NT2	lithium 7
NT2	zirconium 85	NT2	calcium 37	NT2	lithium 8
NT2	zirconium 86	NT2	calcium 38	NT2	lithium 9
NT2	zirconium 87	NT2	calcium 39	NT2	magnesium 19
NT2	zirconium 88	NT2	calcium 40	NT2	magnesium 20
NT2	zirconium 89	NT2	carbon 10	NT2	magnesium 21
NT2	zirconium 90	NT2	carbon 11	NT2	magnesium 22
NT2	zirconium 91	NT2	carbon 12	NT2	magnesium 23
NT2	zirconium 92	NT2	carbon 13	NT2	magnesium 24
NT2	zirconium 93	NT2	carbon 14	NT2	magnesium 25
NT2	zirconium 94	NT2	carbon 15	NT2	magnesium 26
NT2	zirconium 95	NT2	carbon 16	NT2	magnesium 27
NT2	zirconium 96	NT2	carbon 17	NT2	magnesium 28
NT2	zirconium 97	NT2	carbon 18	NT2	magnesium 29
NT2	zirconium 98	NT2	carbon 19	NT2	magnesium 30
NT2	zirconium 99	NT2	carbon 20	NT2	magnesium 31
NT1	isobaric nuclei	NT2	carbon 21	NT2	magnesium 32
NT1	isomeric nuclei	NT2	carbon 22	NT2	magnesium 33
NT1	isotonic nuclei	NT2	carbon 8	NT2	magnesium 34
NT1	light nuclei	NT2	carbon 9	NT2	magnesium 35
NT2	aluminium 21	NT2	chlorine 28	NT2	magnesium 36
NT2	aluminium 22	NT2	chlorine 29	NT2	magnesium 37
NT2	aluminium 23	NT2	chlorine 30	NT2	magnesium 38
NT2	aluminium 24	NT2	chlorine 31	NT2	magnesium 39
NT2	aluminium 25	NT2	chlorine 32	NT2	magnesium 40
NT2	aluminium 26	NT2	chlorine 33	NT2	neon 16
NT2	aluminium 27	NT2	chlorine 34	NT2	neon 17
NT2	aluminium 28	NT2	chlorine 35	NT2	neon 18
NT2	aluminium 29	NT2	chlorine 36	NT2	neon 19
NT2	aluminium 30	NT2	chlorine 37	NT2	neon 20
NT2	aluminium 31	NT2	chlorine 38	NT2	neon 21
NT2	aluminium 32	NT2	chlorine 39	NT2	neon 22
NT2	aluminium 33	NT2	chlorine 40	NT2	neon 23
NT2	aluminium 34	NT2	deuterium	NT2	neon 24
NT2	aluminium 35	NT2	fluorine 14	NT2	neon 25
NT2	aluminium 36	NT2	fluorine 15	NT2	neon 26
NT2	aluminium 37	NT2	fluorine 16	NT2	neon 27
NT2	aluminium 38	NT2	fluorine 17	NT2	neon 28
NT2	aluminium 39	NT2	fluorine 18	NT2	neon 29
NT2	aluminium 40	NT2	fluorine 19	NT2	neon 30
NT2	argon 30	NT2	fluorine 20	NT2	neon 31
NT2	argon 31	NT2	fluorine 21	NT2	neon 32
NT2	argon 32	NT2	fluorine 22	NT2	neon 33
NT2	argon 33	NT2	fluorine 23	NT2	neon 34
NT2	argon 34	NT2	fluorine 24	NT2	nitrogen 10
NT2	argon 35	NT2	fluorine 25	NT2	nitrogen 11
NT2	argon 36	NT2	fluorine 26	NT2	nitrogen 12
NT2	argon 37	NT2	fluorine 27	NT2	nitrogen 13
NT2	argon 38	NT2	fluorine 28	NT2	nitrogen 14
NT2	argon 39	NT2	fluorine 29	NT2	nitrogen 15
NT2	argon 40	NT2	fluorine 30	NT2	nitrogen 16
NT2	beryllium 10	NT2	fluorine 31	NT2	nitrogen 17
NT2	beryllium 11	NT2	helium 10	NT2	nitrogen 18
NT2	beryllium 12	NT2	helium 2	NT2	nitrogen 19
NT2	beryllium 13	NT2	helium 3	NT2	nitrogen 20
NT2	beryllium 14	NT3	helium 3 a	NT2	nitrogen 21
NT2	beryllium 15	NT3	helium 3 a1	NT2	nitrogen 22
NT2	beryllium 16	NT3	helium 3 b	NT2	nitrogen 23
NT2	beryllium 5	NT2	helium 4	NT2	nitrogen 24
NT2	beryllium 6	NT3	helium i	NT2	nitrogen 25
NT2	beryllium 7	NT3	helium ii	NT2	oxygen 12
NT2	beryllium 8	NT2	helium 5	NT2	oxygen 13
NT2	beryllium 9	NT2	helium 6	NT2	oxygen 14
NT2	boron 10	NT2	helium 7	NT2	oxygen 15
NT2	boron 11	NT2	helium 8	NT2	oxygen 16
NT2	boron 12	NT2	helium 9	NT2	oxygen 17
NT2	boron 13	NT2	hydrogen 1	NT2	oxygen 18
NT2	boron 14	NT2	hydrogen 4	NT2	oxygen 19
NT2	boron 15	NT2	hydrogen 5	NT2	oxygen 20
NT2	boron 16	NT2	hydrogen 6	NT2	oxygen 21
NT2	boron 17	NT2	hydrogen 7	NT2	oxygen 22
NT2	boron 18	NT2	lithium 10	NT2	oxygen 23

NT2	oxygen 24	NT2	sulfur 29	NT2	arsenic 69
NT2	oxygen 25	NT2	sulfur 30	NT2	arsenic 71
NT2	oxygen 26	NT2	sulfur 31	NT2	arsenic 73
NT2	oxygen 27	NT2	sulfur 32	NT2	arsenic 75
NT2	oxygen 28	NT2	sulfur 33	NT2	arsenic 77
NT2	phosphorus 21	NT2	sulfur 34	NT2	arsenic 79
NT2	phosphorus 24	NT2	sulfur 35	NT2	arsenic 81
NT2	phosphorus 25	NT2	sulfur 36	NT2	arsenic 83
NT2	phosphorus 26	NT2	sulfur 37	NT2	arsenic 85
NT2	phosphorus 27	NT2	sulfur 38	NT2	arsenic 87
NT2	phosphorus 28	NT2	sulfur 39	NT2	arsenic 89
NT2	phosphorus 29	NT2	sulfur 40	NT2	arsenic 91
NT2	phosphorus 30	NT2	titanium 38	NT2	astatine 191
NT2	phosphorus 31	NT2	titanium 39	NT2	astatine 193
NT2	phosphorus 32	NT2	titanium 40	NT2	astatine 195
NT2	phosphorus 33	NT2	tritium	NT2	astatine 197
NT2	phosphorus 34	NT2	vanadium 40	NT2	astatine 199
NT2	phosphorus 35	NT1	magic nuclei	NT2	astatine 201
NT2	phosphorus 36	NT1	mirror nuclei	NT2	astatine 203
NT2	phosphorus 37	NT1	odd-even nuclei	NT2	astatine 205
NT2	phosphorus 38	NT2	actinium 207	NT2	astatine 207
NT2	phosphorus 39	NT2	actinium 209	NT2	astatine 209
NT2	phosphorus 40	NT2	actinium 211	NT2	astatine 211
NT2	potassium 32	NT2	actinium 213	NT2	astatine 213
NT2	potassium 33	NT2	actinium 215	NT2	astatine 215
NT2	potassium 34	NT2	actinium 217	NT2	astatine 217
NT2	potassium 35	NT2	actinium 219	NT2	astatine 219
NT2	potassium 36	NT2	actinium 221	NT2	astatine 221
NT2	potassium 37	NT2	actinium 223	NT2	astatine 223
NT2	potassium 38	NT2	actinium 225	NT2	berkelium 2235
NT2	potassium 39	NT2	actinium 227	NT2	berkelium 237
NT2	potassium 40	NT2	actinium 229	NT2	berkelium 239
NT2	scandium 36	NT2	actinium 231	NT2	berkelium 241
NT2	scandium 37	NT2	actinium 233	NT2	berkelium 243
NT2	scandium 38	NT2	actinium 235	NT2	berkelium 245
NT2	scandium 39	NT2	aluminium 21	NT2	berkelium 247
NT2	scandium 40	NT2	aluminium 23	NT2	berkelium 249
NT2	silicon 22	NT2	aluminium 25	NT2	berkelium 251
NT2	silicon 23	NT2	aluminium 27	NT2	berkelium 253
NT2	silicon 24	NT2	aluminium 29	NT2	bismuth 185
NT2	silicon 25	NT2	aluminium 31	NT2	bismuth 187
NT2	silicon 26	NT2	aluminium 33	NT2	bismuth 189
NT2	silicon 27	NT2	aluminium 35	NT2	bismuth 191
NT2	silicon 28	NT2	aluminium 37	NT2	bismuth 193
NT2	silicon 29	NT2	aluminium 39	NT2	bismuth 195
NT2	silicon 30	NT2	aluminium 41	NT2	bismuth 197
NT2	silicon 31	NT2	americium 231	NT2	bismuth 199
NT2	silicon 32	NT2	americium 233	NT2	bismuth 201
NT2	silicon 33	NT2	americium 235	NT2	bismuth 203
NT2	silicon 34	NT2	americium 237	NT2	bismuth 205
NT2	silicon 35	NT2	americium 239	NT2	bismuth 207
NT2	silicon 36	NT2	americium 241	NT2	bismuth 209
NT2	silicon 37	NT2	americium 243	NT2	bismuth 211
NT2	silicon 38	NT2	americium 245	NT2	bismuth 213
NT2	silicon 39	NT2	americium 247	NT2	bismuth 215
NT2	silicon 40	NT2	americium 249	NT2	bismuth 217
NT2	sodium 18	NT2	antimony 103	NT2	bohrium 261
NT2	sodium 19	NT2	antimony 105	NT2	bohrium 263
NT2	sodium 20	NT2	antimony 107	NT2	bohrium 265
NT2	sodium 21	NT2	antimony 109	NT2	bohrium 267
NT2	sodium 22	NT2	antimony 111	NT2	bohrium 271
NT2	sodium 23	NT2	antimony 113	NT2	bohrium 273
NT2	sodium 24	NT2	antimony 115	NT2	bohrium 275
NT2	sodium 25	NT2	antimony 117	NT2	boron 11
NT2	sodium 26	NT2	antimony 119	NT2	boron 13
NT2	sodium 27	NT2	antimony 121	NT2	boron 15
NT2	sodium 28	NT2	antimony 123	NT2	boron 17
NT2	sodium 29	NT2	antimony 125	NT2	boron 19
NT2	sodium 30	NT2	antimony 127	NT2	boron 7
NT2	sodium 31	NT2	antimony 129	NT2	boron 9
NT2	sodium 32	NT2	antimony 131	NT2	bromine 67
NT2	sodium 33	NT2	antimony 133	NT2	bromine 69
NT2	sodium 34	NT2	antimony 135	NT2	bromine 71
NT2	sodium 35	NT2	antimony 137	NT2	bromine 73
NT2	sodium 37	NT2	antimony 139	NT2	bromine 75
NT2	sulfur 24	NT2	arsenic 61	NT2	bromine 77
NT2	sulfur 26	NT2	arsenic 63	NT2	bromine 79
NT2	sulfur 27	NT2	arsenic 65	NT2	bromine 81
NT2	sulfur 28	NT2	arsenic 67	NT2	bromine 83

NT2	bromine 85	NT2	einsteinium 249	NT2	gold 197
NT2	bromine 87	NT2	einsteinium 251	NT2	gold 199
NT2	bromine 89	NT2	einsteinium 253	NT2	gold 201
NT2	bromine 91	NT2	einsteinium 255	NT2	gold 203
NT2	bromine 93	NT2	einsteinium 257	NT2	gold 205
NT2	bromine 95	NT2	europium 131	NT2	holmium 141
NT2	bromine 97	NT2	europium 133	NT2	holmium 143
NT2	cesium 113	NT2	europium 135	NT2	holmium 145
NT2	cesium 115	NT2	europium 137	NT2	holmium 147
NT2	cesium 117	NT2	europium 139	NT2	holmium 149
NT2	cesium 119	NT2	europium 141	NT2	holmium 151
NT2	cesium 121	NT2	europium 143	NT2	holmium 153
NT2	cesium 123	NT2	europium 145	NT2	holmium 155
NT2	cesium 125	NT2	europium 147	NT2	holmium 157
NT2	cesium 127	NT2	europium 149	NT2	holmium 159
NT2	cesium 129	NT2	europium 151	NT2	holmium 161
NT2	cesium 131	NT2	europium 153	NT2	holmium 163
NT2	cesium 133	NT2	europium 155	NT2	holmium 165
NT2	cesium 135	NT2	europium 157	NT2	holmium 167
NT2	cesium 137	NT2	europium 159	NT2	holmium 169
NT2	cesium 139	NT2	europium 161	NT2	holmium 171
NT2	cesium 141	NT2	europium 163	NT2	holmium 173
NT2	cesium 143	NT2	europium 165	NT2	holmium 175
NT2	cesium 145	NT2	europium 167	NT2	hydrogen 1
NT2	cesium 147	NT2	fluorine 15	NT2	hydrogen 5
NT2	cesium 149	NT2	fluorine 17	NT2	hydrogen 7
NT2	cesium 151	NT2	fluorine 19	NT2	indium 101
NT2	chlorine 29	NT2	fluorine 21	NT2	indium 103
NT2	chlorine 31	NT2	fluorine 23	NT2	indium 105
NT2	chlorine 33	NT2	fluorine 25	NT2	indium 107
NT2	chlorine 35	NT2	fluorine 27	NT2	indium 109
NT2	chlorine 37	NT2	fluorine 29	NT2	indium 111
NT2	chlorine 39	NT2	fluorine 31	NT2	indium 113
NT2	chlorine 41	NT2	francium 199	NT2	indium 115
NT2	chlorine 43	NT2	francium 201	NT2	indium 117
NT2	chlorine 45	NT2	francium 203	NT2	indium 119
NT2	chlorine 47	NT2	francium 205	NT2	indium 121
NT2	chlorine 49	NT2	francium 207	NT2	indium 123
NT2	chlorine 51	NT2	francium 209	NT2	indium 125
NT2	cobalt 49	NT2	francium 211	NT2	indium 127
NT2	cobalt 51	NT2	francium 213	NT2	indium 129
NT2	cobalt 53	NT2	francium 215	NT2	indium 131
NT2	cobalt 55	NT2	francium 217	NT2	indium 133
NT2	cobalt 57	NT2	francium 219	NT2	indium 135
NT2	cobalt 59	NT2	francium 221	NT2	indium 97
NT2	cobalt 61	NT2	francium 223	NT2	indium 99
NT2	cobalt 63	NT2	francium 225	NT2	iodine 109
NT2	cobalt 65	NT2	francium 227	NT2	iodine 111
NT2	cobalt 67	NT2	francium 229	NT2	iodine 113
NT2	cobalt 69	NT2	francium 231	NT2	iodine 115
NT2	cobalt 71	NT2	gallium 57	NT2	iodine 117
NT2	cobalt 73	NT2	gallium 59	NT2	iodine 119
NT2	cobalt 75	NT2	gallium 61	NT2	iodine 121
NT2	copper 53	NT2	gallium 63	NT2	iodine 123
NT2	copper 55	NT2	gallium 65	NT2	iodine 125
NT2	copper 57	NT2	gallium 67	NT2	iodine 127
NT2	copper 59	NT2	gallium 69	NT2	iodine 129
NT2	copper 61	NT2	gallium 71	NT2	iodine 131
NT2	copper 63	NT2	gallium 73	NT2	iodine 133
NT2	copper 65	NT2	gallium 75	NT2	iodine 135
NT2	copper 67	NT2	gallium 77	NT2	iodine 137
NT2	copper 69	NT2	gallium 79	NT2	iodine 139
NT2	copper 71	NT2	gallium 81	NT2	iodine 141
NT2	copper 73	NT2	gallium 83	NT2	iodine 143
NT2	copper 75	NT2	gallium 85	NT2	iridium 165
NT2	copper 77	NT2	gold 169	NT2	iridium 167
NT2	copper 79	NT2	gold 171	NT2	iridium 169
NT2	dubnium 255	NT2	gold 173	NT2	iridium 171
NT2	dubnium 257	NT2	gold 175	NT2	iridium 173
NT2	dubnium 259	NT2	gold 177	NT2	iridium 175
NT2	dubnium 261	NT2	gold 179	NT2	iridium 177
NT2	dubnium 263	NT2	gold 181	NT2	iridium 179
NT2	dubnium 265	NT2	gold 183	NT2	iridium 181
NT2	dubnium 267	NT2	gold 185	NT2	iridium 183
NT2	dubnium 269	NT2	gold 187	NT2	iridium 185
NT2	einsteinium 241	NT2	gold 189	NT2	iridium 187
NT2	einsteinium 243	NT2	gold 191	NT2	iridium 189
NT2	einsteinium 245	NT2	gold 193	NT2	iridium 191
NT2	einsteinium 247	NT2	gold 195	NT2	iridium 193

NT2	iridium 195	NT2	mendelevium 255	NT2	praseodymium 145
NT2	iridium 197	NT2	mendelevium 257	NT2	praseodymium 147
NT2	iridium 199	NT2	mendelevium 259	NT2	praseodymium 149
NT2	lanthanum 117	NT2	mendelevium 261	NT2	praseodymium 151
NT2	lanthanum 119	NT2	moscovium 287	NT2	praseodymium 153
NT2	lanthanum 121	NT2	moscovium 288	NT2	praseodymium 155
NT2	lanthanum 123	NT2	neptunium 225	NT2	praseodymium 157
NT2	lanthanum 125	NT2	neptunium 227	NT2	praseodymium 159
NT2	lanthanum 127	NT2	neptunium 229	NT2	promethium 127
NT2	lanthanum 129	NT2	neptunium 231	NT2	promethium 129
NT2	lanthanum 131	NT2	neptunium 233	NT2	promethium 131
NT2	lanthanum 133	NT2	neptunium 235	NT2	promethium 133
NT2	lanthanum 135	NT2	neptunium 237	NT2	promethium 135
NT2	lanthanum 137	NT2	neptunium 239	NT2	promethium 137
NT2	lanthanum 139	NT2	neptunium 241	NT2	promethium 139
NT2	lanthanum 141	NT2	neptunium 243	NT2	promethium 141
NT2	lanthanum 143	NT2	nihonium 283	NT2	promethium 143
NT2	lanthanum 145	NT2	nihonium 284	NT2	promethium 145
NT2	lanthanum 147	NT2	niobium 101	NT2	promethium 147
NT2	lanthanum 149	NT2	niobium 103	NT2	promethium 149
NT2	lanthanum 151	NT2	niobium 105	NT2	promethium 151
NT2	lanthanum 153	NT2	niobium 107	NT2	promethium 153
NT2	lanthanum 155	NT2	niobium 109	NT2	promethium 155
NT2	lawrencium 251	NT2	niobium 111	NT2	promethium 157
NT2	lawrencium 253	NT2	niobium 113	NT2	promethium 159
NT2	lawrencium 255	NT2	niobium 81	NT2	promethium 161
NT2	lawrencium 257	NT2	niobium 83	NT2	promethium 163
NT2	lawrencium 259	NT2	niobium 85	NT2	protactinium 213
NT2	lawrencium 261	NT2	niobium 87	NT2	protactinium 215
NT2	lawrencium 263	NT2	niobium 89	NT2	protactinium 217
NT2	lawrencium 265	NT2	niobium 91	NT2	protactinium 219
NT2	lithium 11	NT2	niobium 93	NT2	protactinium 221
NT2	lithium 13	NT2	niobium 95	NT2	protactinium 223
NT2	lithium 3	NT2	niobium 97	NT2	protactinium 225
NT2	lithium 5	NT2	niobium 99	NT2	protactinium 227
NT2	lithium 7	NT2	nitrogen 11	NT2	protactinium 229
NT2	lithium 9	NT2	nitrogen 13	NT2	protactinium 231
NT2	lutetium 151	NT2	nitrogen 15	NT2	protactinium 233
NT2	lutetium 153	NT2	nitrogen 17	NT2	protactinium 235
NT2	lutetium 155	NT2	nitrogen 19	NT2	protactinium 237
NT2	lutetium 157	NT2	nitrogen 21	NT2	protactinium 239
NT2	lutetium 159	NT2	nitrogen 23	NT2	rhenium 159
NT2	lutetium 161	NT2	nitrogen 25	NT2	rhenium 161
NT2	lutetium 163	NT2	phosphorus 21	NT2	rhenium 163
NT2	lutetium 165	NT2	phosphorus 25	NT2	rhenium 165
NT2	lutetium 167	NT2	phosphorus 27	NT2	rhenium 167
NT2	lutetium 169	NT2	phosphorus 29	NT2	rhenium 169
NT2	lutetium 171	NT2	phosphorus 31	NT2	rhenium 171
NT2	lutetium 173	NT2	phosphorus 33	NT2	rhenium 173
NT2	lutetium 175	NT2	phosphorus 35	NT2	rhenium 175
NT2	lutetium 177	NT2	phosphorus 37	NT2	rhenium 177
NT2	lutetium 179	NT2	phosphorus 39	NT2	rhenium 179
NT2	lutetium 181	NT2	phosphorus 41	NT2	rhenium 181
NT2	lutetium 183	NT2	phosphorus 43	NT2	rhenium 183
NT2	lutetium 187	NT2	phosphorus 45	NT2	rhenium 185
NT2	manganese 45	NT2	potassium 33	NT2	rhenium 187
NT2	manganese 47	NT2	potassium 35	NT2	rhenium 189
NT2	manganese 49	NT2	potassium 37	NT2	rhenium 191
NT2	manganese 51	NT2	potassium 39	NT2	rhenium 193
NT2	manganese 53	NT2	potassium 41	NT2	rhenium 195
NT2	manganese 55	NT2	potassium 43	NT2	rhodium 101
NT2	manganese 57	NT2	potassium 45	NT2	rhodium 103
NT2	manganese 59	NT2	potassium 47	NT2	rhodium 105
NT2	manganese 61	NT2	potassium 49	NT2	rhodium 107
NT2	manganese 63	NT2	potassium 51	NT2	rhodium 109
NT2	manganese 65	NT2	potassium 53	NT2	rhodium 111
NT2	manganese 67	NT2	potassium 55	NT2	rhodium 113
NT2	manganese 69	NT2	praseodymium 121	NT2	rhodium 115
NT2	meitnerium 265	NT2	praseodymium 123	NT2	rhodium 117
NT2	meitnerium 267	NT2	praseodymium 125	NT2	rhodium 119
NT2	meitnerium 271	NT2	praseodymium 127	NT2	rhodium 121
NT2	meitnerium 273	NT2	praseodymium 129	NT2	rhodium 89
NT2	meitnerium 275	NT2	praseodymium 131	NT2	rhodium 91
NT2	meitnerium 279	NT2	praseodymium 133	NT2	rhodium 93
NT2	mendelevium 245	NT2	praseodymium 135	NT2	rhodium 95
NT2	mendelevium 247	NT2	praseodymium 137	NT2	rhodium 97
NT2	mendelevium 249	NT2	praseodymium 139	NT2	rhodium 99
NT2	mendelevium 251	NT2	praseodymium 141	NT2	roentgenium 273
NT2	mendelevium 253	NT2	praseodymium 143	NT2	roentgenium 279



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 NT2 rubidium 103  
 NT2 rubidium 71  
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 NT2 technetium 101  
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 NT2 tritium  
 NT2 vanadium 41  
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 NT1 odd-odd nuclei  
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 NT2 antimony 132  
 NT2 antimony 134  
 NT2 antimony 136  
 NT2 antimony 138  
 NT2 arsenic 60  
 NT2 arsenic 62  
 NT2 arsenic 64

NT2	arsenic 66	NT2	bromine 84	NT2	einsteinium 248
NT2	arsenic 68	NT2	bromine 86	NT2	einsteinium 250
NT2	arsenic 70	NT2	bromine 88	NT2	einsteinium 252
NT2	arsenic 72	NT2	bromine 90	NT2	einsteinium 254
NT2	arsenic 74	NT2	bromine 92	NT2	einsteinium 256
NT2	arsenic 76	NT2	bromine 94	NT2	einsteinium 258
NT2	arsenic 78	NT2	bromine 96	NT2	europium 130
NT2	arsenic 80	NT2	cesium 112	NT2	europium 132
NT2	arsenic 82	NT2	cesium 114	NT2	europium 134
NT2	arsenic 84	NT2	cesium 116	NT2	europium 136
NT2	arsenic 86	NT2	cesium 118	NT2	europium 138
NT2	arsenic 88	NT2	cesium 120	NT2	europium 140
NT2	arsenic 90	NT2	cesium 122	NT2	europium 142
NT2	arsenic 92	NT2	cesium 124	NT2	europium 144
NT2	astatine 192	NT2	cesium 126	NT2	europium 146
NT2	astatine 194	NT2	cesium 128	NT2	europium 148
NT2	astatine 196	NT2	cesium 130	NT2	europium 150
NT2	astatine 198	NT2	cesium 132	NT2	europium 152
NT2	astatine 200	NT2	cesium 134	NT2	europium 154
NT2	astatine 202	NT2	cesium 136	NT2	europium 156
NT2	astatine 204	NT2	cesium 138	NT2	europium 158
NT2	astatine 206	NT2	cesium 140	NT2	europium 160
NT2	astatine 208	NT2	cesium 142	NT2	europium 162
NT2	astatine 210	NT2	cesium 144	NT2	europium 164
NT2	astatine 212	NT2	cesium 146	NT2	europium 166
NT2	astatine 214	NT2	cesium 148	NT2	fluorine 14
NT2	astatine 216	NT2	cesium 150	NT2	fluorine 16
NT2	astatine 218	NT2	chlorine 28	NT2	fluorine 18
NT2	astatine 220	NT2	chlorine 30	NT2	fluorine 20
NT2	astatine 222	NT2	chlorine 32	NT2	fluorine 22
NT2	berkelium 236	NT2	chlorine 34	NT2	fluorine 24
NT2	berkelium 238	NT2	chlorine 36	NT2	fluorine 26
NT2	berkelium 240	NT2	chlorine 38	NT2	fluorine 28
NT2	berkelium 242	NT2	chlorine 40	NT2	fluorine 30
NT2	berkelium 244	NT2	chlorine 42	NT2	francium 200
NT2	berkelium 246	NT2	chlorine 44	NT2	francium 202
NT2	berkelium 248	NT2	chlorine 46	NT2	francium 204
NT2	berkelium 250	NT2	chlorine 48	NT2	francium 206
NT2	berkelium 252	NT2	chlorine 50	NT2	francium 208
NT2	berkelium 254	NT2	cobalt 50	NT2	francium 210
NT2	bismuth 184	NT2	cobalt 52	NT2	francium 212
NT2	bismuth 186	NT2	cobalt 54	NT2	francium 214
NT2	bismuth 188	NT2	cobalt 56	NT2	francium 216
NT2	bismuth 190	NT2	cobalt 58	NT2	francium 218
NT2	bismuth 192	NT2	cobalt 60	NT2	francium 220
NT2	bismuth 194	NT2	cobalt 62	NT2	francium 222
NT2	bismuth 196	NT2	cobalt 64	NT2	francium 224
NT2	bismuth 198	NT2	cobalt 66	NT2	francium 226
NT2	bismuth 200	NT2	cobalt 68	NT2	francium 228
NT2	bismuth 202	NT2	cobalt 70	NT2	francium 230
NT2	bismuth 204	NT2	cobalt 72	NT2	francium 232
NT2	bismuth 206	NT2	cobalt 74	NT2	gallium 56
NT2	bismuth 208	NT2	copper 52	NT2	gallium 58
NT2	bismuth 210	NT2	copper 54	NT2	gallium 60
NT2	bismuth 212	NT2	copper 56	NT2	gallium 62
NT2	bismuth 214	NT2	copper 58	NT2	gallium 64
NT2	bismuth 216	NT2	copper 60	NT2	gallium 66
NT2	bismuth 218	NT2	copper 62	NT2	gallium 68
NT2	bohrium 260	NT2	copper 64	NT2	gallium 70
NT2	bohrium 262	NT2	copper 66	NT2	gallium 72
NT2	bohrium 264	NT2	copper 68	NT2	gallium 74
NT2	bohrium 266	NT2	copper 70	NT2	gallium 76
NT2	bohrium 272	NT2	copper 72	NT2	gallium 78
NT2	bohrium 274	NT2	copper 74	NT2	gallium 80
NT2	boron 10	NT2	copper 76	NT2	gallium 82
NT2	boron 12	NT2	copper 78	NT2	gallium 84
NT2	boron 14	NT2	copper 80	NT2	gallium 86
NT2	boron 16	NT2	deuterium	NT2	gold 170
NT2	boron 18	NT2	dubnium 256	NT2	gold 172
NT2	boron 6	NT2	dubnium 258	NT2	gold 174
NT2	boron 8	NT2	dubnium 260	NT2	gold 176
NT2	bromine 68	NT2	dubnium 262	NT2	gold 178
NT2	bromine 70	NT2	dubnium 264	NT2	gold 180
NT2	bromine 72	NT2	dubnium 266	NT2	gold 182
NT2	bromine 74	NT2	dubnium 268	NT2	gold 184
NT2	bromine 76	NT2	einsteinium 240	NT2	gold 186
NT2	bromine 78	NT2	einsteinium 242	NT2	gold 188
NT2	bromine 80	NT2	einsteinium 244	NT2	gold 190
NT2	bromine 82	NT2	einsteinium 246	NT2	gold 192

NT2	gold 194	NT2	iridium 194	NT2	mendelevium 256
NT2	gold 196	NT2	iridium 196	NT2	mendelevium 258
NT2	gold 198	NT2	iridium 198	NT2	mendelevium 260
NT2	gold 200	NT2	iridium 202	NT2	mendelevium 262
NT2	gold 202	NT2	lanthanum 118	NT2	neptunium 226
NT2	gold 204	NT2	lanthanum 120	NT2	neptunium 228
NT2	holmium 140	NT2	lanthanum 122	NT2	neptunium 230
NT2	holmium 142	NT2	lanthanum 124	NT2	neptunium 232
NT2	holmium 144	NT2	lanthanum 126	NT2	neptunium 234
NT2	holmium 146	NT2	lanthanum 128	NT2	neptunium 236
NT2	holmium 148	NT2	lanthanum 130	NT2	neptunium 238
NT2	holmium 150	NT2	lanthanum 132	NT2	neptunium 240
NT2	holmium 152	NT2	lanthanum 134	NT2	neptunium 242
NT2	holmium 154	NT2	lanthanum 136	NT2	neptunium 244
NT2	holmium 156	NT2	lanthanum 138	NT2	nihonium 278
NT2	holmium 158	NT2	lanthanum 140	NT2	niobium 100
NT2	holmium 160	NT2	lanthanum 142	NT2	niobium 102
NT2	holmium 162	NT2	lanthanum 144	NT2	niobium 104
NT2	holmium 164	NT2	lanthanum 146	NT2	niobium 106
NT2	holmium 166	NT2	lanthanum 148	NT2	niobium 108
NT2	holmium 168	NT2	lanthanum 150	NT2	niobium 110
NT2	holmium 170	NT2	lanthanum 152	NT2	niobium 112
NT2	holmium 172	NT2	lanthanum 154	NT2	niobium 82
NT2	holmium 174	NT2	lawrencium 252	NT2	niobium 84
NT2	hydrogen 4	NT2	lawrencium 254	NT2	niobium 86
NT2	hydrogen 6	NT2	lawrencium 256	NT2	niobium 88
NT2	indium 100	NT2	lawrencium 258	NT2	niobium 90
NT2	indium 102	NT2	lawrencium 260	NT2	niobium 92
NT2	indium 104	NT2	lawrencium 262	NT2	niobium 94
NT2	indium 106	NT2	lawrencium 264	NT2	niobium 96
NT2	indium 108	NT2	lawrencium 266	NT2	niobium 98
NT2	indium 110	NT2	lithium 10	NT2	nitrogen 10
NT2	indium 112	NT2	lithium 12	NT2	nitrogen 12
NT2	indium 114	NT2	lithium 4	NT2	nitrogen 14
NT2	indium 116	NT2	lithium 6	NT2	nitrogen 16
NT2	indium 118	NT2	lithium 8	NT2	nitrogen 18
NT2	indium 120	NT2	lutetium 150	NT2	nitrogen 20
NT2	indium 122	NT2	lutetium 152	NT2	nitrogen 22
NT2	indium 124	NT2	lutetium 154	NT2	nitrogen 24
NT2	indium 126	NT2	lutetium 156	NT2	phosphorus 24
NT2	indium 128	NT2	lutetium 158	NT2	phosphorus 26
NT2	indium 130	NT2	lutetium 160	NT2	phosphorus 28
NT2	indium 132	NT2	lutetium 162	NT2	phosphorus 30
NT2	indium 134	NT2	lutetium 164	NT2	phosphorus 32
NT2	indium 98	NT2	lutetium 166	NT2	phosphorus 34
NT2	iodine 108	NT2	lutetium 168	NT2	phosphorus 36
NT2	iodine 110	NT2	lutetium 170	NT2	phosphorus 38
NT2	iodine 112	NT2	lutetium 172	NT2	phosphorus 40
NT2	iodine 114	NT2	lutetium 174	NT2	phosphorus 42
NT2	iodine 116	NT2	lutetium 176	NT2	phosphorus 44
NT2	iodine 118	NT2	lutetium 178	NT2	phosphorus 46
NT2	iodine 120	NT2	lutetium 180	NT2	potassium 32
NT2	iodine 122	NT2	lutetium 182	NT2	potassium 34
NT2	iodine 124	NT2	lutetium 184	NT2	potassium 36
NT2	iodine 126	NT2	manganese 44	NT2	potassium 38
NT2	iodine 128	NT2	manganese 46	NT2	potassium 40
NT2	iodine 130	NT2	manganese 48	NT2	potassium 42
NT2	iodine 132	NT2	manganese 50	NT2	potassium 44
NT2	iodine 134	NT2	manganese 52	NT2	potassium 46
NT2	iodine 136	NT2	manganese 54	NT2	potassium 48
NT2	iodine 138	NT2	manganese 56	NT2	potassium 50
NT2	iodine 140	NT2	manganese 58	NT2	potassium 52
NT2	iodine 142	NT2	manganese 60	NT2	potassium 54
NT2	iodine 144	NT2	manganese 62	NT2	potassium 56
NT2	iridium 164	NT2	manganese 64	NT2	praseodymium 122
NT2	iridium 166	NT2	manganese 66	NT2	praseodymium 124
NT2	iridium 168	NT2	manganese 68	NT2	praseodymium 126
NT2	iridium 170	NT2	manganese 70	NT2	praseodymium 128
NT2	iridium 172	NT2	meitnerium 266	NT2	praseodymium 130
NT2	iridium 174	NT2	meitnerium 268	NT2	praseodymium 132
NT2	iridium 176	NT2	meitnerium 270	NT2	praseodymium 134
NT2	iridium 178	NT2	meitnerium 272	NT2	praseodymium 136
NT2	iridium 180	NT2	meitnerium 274	NT2	praseodymium 138
NT2	iridium 182	NT2	meitnerium 276	NT2	praseodymium 140
NT2	iridium 184	NT2	mendelevium 246	NT2	praseodymium 142
NT2	iridium 186	NT2	mendelevium 248	NT2	praseodymium 144
NT2	iridium 188	NT2	mendelevium 250	NT2	praseodymium 146
NT2	iridium 190	NT2	mendelevium 252	NT2	praseodymium 148
NT2	iridium 192	NT2	mendelevium 254	NT2	praseodymium 150

NT2	praseodymium 152	NT2	rubidium 72	NT2	technetium 112
NT2	praseodymium 154	NT2	rubidium 74	NT2	technetium 114
NT2	praseodymium 156	NT2	rubidium 76	NT2	technetium 116
NT2	praseodymium 158	NT2	rubidium 78	NT2	technetium 118
NT2	promethium 126	NT2	rubidium 80	NT2	technetium 86
NT2	promethium 128	NT2	rubidium 82	NT2	technetium 88
NT2	promethium 130	NT2	rubidium 84	NT2	technetium 90
NT2	promethium 132	NT2	rubidium 86	NT2	technetium 92
NT2	promethium 134	NT2	rubidium 88	NT2	technetium 94
NT2	promethium 136	NT2	rubidium 90	NT2	technetium 96
NT2	promethium 138	NT2	rubidium 92	NT2	technetium 98
NT2	promethium 140	NT2	rubidium 94	NT2	terbium 136
NT2	promethium 142	NT2	rubidium 96	NT2	terbium 138
NT2	promethium 144	NT2	rubidium 98	NT2	terbium 140
NT2	promethium 146	NT2	scandium 36	NT2	terbium 142
NT2	promethium 148	NT2	scandium 38	NT2	terbium 144
NT2	promethium 150	NT2	scandium 40	NT2	terbium 146
NT2	promethium 152	NT2	scandium 42	NT2	terbium 148
NT2	promethium 154	NT2	scandium 44	NT2	terbium 150
NT2	promethium 156	NT2	scandium 46	NT2	terbium 152
NT2	promethium 158	NT2	scandium 48	NT2	terbium 154
NT2	promethium 160	NT2	scandium 50	NT2	terbium 156
NT2	promethium 162	NT2	scandium 52	NT2	terbium 158
NT2	protactinium 212	NT2	scandium 54	NT2	terbium 160
NT2	protactinium 214	NT2	scandium 56	NT2	terbium 162
NT2	protactinium 216	NT2	scandium 58	NT2	terbium 164
NT2	protactinium 218	NT2	scandium 60	NT2	terbium 166
NT2	protactinium 220	NT2	silver 100	NT2	terbium 168
NT2	protactinium 222	NT2	silver 102	NT2	terbium 170
NT2	protactinium 224	NT2	silver 104	NT2	thallium 176
NT2	protactinium 226	NT2	silver 106	NT2	thallium 178
NT2	protactinium 228	NT2	silver 108	NT2	thallium 180
NT2	protactinium 230	NT2	silver 110	NT2	thallium 182
NT2	protactinium 232	NT2	silver 112	NT2	thallium 184
NT2	protactinium 234	NT2	silver 114	NT2	thallium 186
NT2	protactinium 236	NT2	silver 116	NT2	thallium 188
NT2	protactinium 238	NT2	silver 118	NT2	thallium 190
NT2	protactinium 240	NT2	silver 120	NT2	thallium 192
NT2	rhenium 160	NT2	silver 122	NT2	thallium 194
NT2	rhenium 162	NT2	silver 124	NT2	thallium 196
NT2	rhenium 164	NT2	silver 126	NT2	thallium 198
NT2	rhenium 166	NT2	silver 128	NT2	thallium 200
NT2	rhenium 168	NT2	silver 130	NT2	thallium 202
NT2	rhenium 170	NT2	silver 94	NT2	thallium 204
NT2	rhenium 172	NT2	silver 96	NT2	thallium 206
NT2	rhenium 174	NT2	silver 98	NT2	thallium 208
NT2	rhenium 176	NT2	sodium 18	NT2	thallium 210
NT2	rhenium 178	NT2	sodium 20	NT2	thallium 212
NT2	rhenium 180	NT2	sodium 22	NT2	thulium 144
NT2	rhenium 182	NT2	sodium 24	NT2	thulium 146
NT2	rhenium 184	NT2	sodium 26	NT2	thulium 148
NT2	rhenium 186	NT2	sodium 28	NT2	thulium 150
NT2	rhenium 188	NT2	sodium 30	NT2	thulium 152
NT2	rhenium 190	NT2	sodium 32	NT2	thulium 154
NT2	rhenium 192	NT2	sodium 34	NT2	thulium 156
NT2	rhenium 194	NT2	tantalum 156	NT2	thulium 158
NT2	rhenium 196	NT2	tantalum 158	NT2	thulium 160
NT2	rhodium 100	NT2	tantalum 160	NT2	thulium 162
NT2	rhodium 102	NT2	tantalum 162	NT2	thulium 164
NT2	rhodium 104	NT2	tantalum 164	NT2	thulium 166
NT2	rhodium 106	NT2	tantalum 166	NT2	thulium 168
NT2	rhodium 108	NT2	tantalum 168	NT2	thulium 170
NT2	rhodium 110	NT2	tantalum 170	NT2	thulium 172
NT2	rhodium 112	NT2	tantalum 172	NT2	thulium 174
NT2	rhodium 114	NT2	tantalum 174	NT2	thulium 176
NT2	rhodium 116	NT2	tantalum 176	NT2	thulium 178
NT2	rhodium 118	NT2	tantalum 178	NT2	vanadium 40
NT2	rhodium 120	NT2	tantalum 180	NT2	vanadium 42
NT2	rhodium 122	NT2	tantalum 182	NT2	vanadium 44
NT2	rhodium 90	NT2	tantalum 184	NT2	vanadium 46
NT2	rhodium 92	NT2	tantalum 186	NT2	vanadium 48
NT2	rhodium 94	NT2	tantalum 188	NT2	vanadium 50
NT2	rhodium 96	NT2	tantalum 190	NT2	vanadium 52
NT2	rhodium 98	NT2	technetium 100	NT2	vanadium 54
NT2	roentgenium 272	NT2	technetium 102	NT2	vanadium 56
NT2	roentgenium 274	NT2	technetium 104	NT2	vanadium 58
NT2	roentgenium 280	NT2	technetium 106	NT2	vanadium 60
NT2	rubidium 100	NT2	technetium 108	NT2	vanadium 62
NT2	rubidium 102	NT2	technetium 110	NT2	vanadium 64

**NT2** vanadium 66  
**NT2** yttrium 100  
**NT2** yttrium 102  
**NT2** yttrium 104  
**NT2** yttrium 106  
**NT2** yttrium 108  
**NT2** yttrium 76  
**NT2** yttrium 78  
**NT2** yttrium 80  
**NT2** yttrium 82  
**NT2** yttrium 84  
**NT2** yttrium 86  
**NT2** yttrium 88  
**NT2** yttrium 90  
**NT2** yttrium 92  
**NT2** yttrium 94  
**NT2** yttrium 96  
**NT2** yttrium 98  
**NT1** oriented nuclei  
*RT* fundamental constants  
*RT* isotopes  
*RT* nuclear matter  
*RT* nuclear molecules  
*RT* nuclear structure  
*RT* nuclear temperature  
*RT* overhauser effect

**nuclei (cells)**

USE cell nuclei

**NUCLEIC ACID DENATURATION**

*Breaking of H-bonds between strands of NA.*

*UF* denaturation (nucleic acid)  
*RT* decomposition  
*RT* heat treatments  
*RT* molecular structure  
*RT* nucleic acids  
*RT* ph value

**NUCLEIC ACID HYBRIDIZATION**

*INIS: 1996-05-03; ETDE: 1995-01-04*

**\*BT1** genetic engineering  
**NT1** dna hybridization  
**NT2** dna-cloning  
**NT1** in-situ hybridization

**NUCLEIC ACID REPLICATION**

**NT1** dna replication

**NUCLEIC ACIDS**

*1996-07-08*

(Prior to August 1996 THYMONUCLEIC ACID was a valid ETDE descriptor.)

*UF* thymonucleic acid  
**BT1** organic compounds  
**NT1** dna  
**NT2** contigs  
**NT2** oligonucleotides  
**NT2** recombinant dna  
**NT1** rna  
**NT2** messenger-rna  
**NT2** ribosomal rna  
**NT2** transfer rna  
*RT* biological repair  
*RT* cell nuclei  
*RT* genetics  
*RT* nucleases  
*RT* nucleic acid denaturation  
*RT* nucleoproteins  
*RT* nucleotides  
*RT* photoreactivation  
*RT* precursor  
*RT* ribosides  
*RT* two-dimensional electrophoresis

**nucleogenesis**

USE nucleosynthesis

**nucleolectrica argentina sa**

*2009-03-30*

USE argentine nasa

**NUCLEOLI**

**\*BT1** cell nuclei  
*RT* chromosomes  
*RT* human chromosomes  
*RT* ribosomal rna  
*RT* rna

**NUCLEON-ANTINUCLEON****INTERACTIONS**

**\*BT1** baryon-baryon interactions  
**NT1** antiproton-neutron interactions  
**NT1** neutron-antineutron interactions  
**NT1** proton-antineutron interactions  
**NT1** proton-antiproton interactions

**NUCLEON BEAMS**

**\*BT1** particle beams  
**NT1** neutron beams  
**NT1** proton beams

**NUCLEON-DEUTERON****INTERACTIONS**

*2017-09-19*

**\*BT1** baryon-baryon interactions  
**NT1** proton-deuteron interactions

**NUCLEON-HYPERON****INTERACTIONS**

**\*BT1** baryon-baryon interactions

**nucleon isobars**

USE n\*baryons

**NUCLEON-NUCLEON****INTERACTIONS**

**\*BT1** baryon-baryon interactions  
**NT1** neutron-neutron interactions  
**NT1** proton-nucleon interactions  
**NT2** proton-neutron interactions  
**NT2** proton-proton interactions  
*RT* reid potential  
*RT* schiffer potential

**NUCLEON-NUCLEON POTENTIAL**

*1996-07-08*

*UF* gammel-brueckner potential  
**BT1** potentials  
**NT1** gauss potential  
**NT1** hamada-johnston potential  
**NT1** reid potential  
**NT1** schiffer potential  
**NT1** skyrme potential  
**NT1** surface delta potential  
**NT1** yamaguchi potential  
*RT* interactions  
*RT* jastrow theory  
*RT* nuclear models  
*RT* nucleons  
*RT* ope potential  
*RT* resonating-group method  
*RT* rosenfeld force  
*RT* tabakin potential  
*RT* yukawa potential

**NUCLEON REACTIONS**

**\*BT1** baryon reactions  
**NT1** antinucleon reactions  
**NT2** antineutron reactions  
**NT2** antiproton reactions  
**NT1** neutron reactions  
**NT2** fast fission  
**NT2** thermal fission  
**NT1** proton reactions

**NUCLEONS**

*1996-07-08*

(Prior to August 1996 STAPP THEORY was a valid ETDE descriptor.)

*SF* stapp theory  
*SF* stapp-ypsilantis-metropolis theory  
**\*BT1** baryons

**NT1** antinucleons  
**NT2** antineutrons  
**NT2** antiprotons  
**NT1** neutrons  
**NT2** antineutrons  
**NT2** beta-delayed neutrons  
**NT2** cold neutrons  
**NT3** ultracold neutrons  
**NT2** cosmic neutrons  
**NT2** epithermal neutrons  
**NT2** fast neutrons  
**NT2** fission neutrons  
**NT3** delayed neutrons  
**NT3** prompt neutrons  
**NT2** intermediate neutrons  
**NT2** photonutrons  
**NT2** pile neutrons  
**NT2** polynutrons  
**NT3** dineutrons  
**NT3** tetranutrons  
**NT3** trineutrons  
**NT2** resonance neutrons  
**NT2** slow neutrons  
**NT2** solar neutrons  
**NT2** thermal neutrons  
**NT1** photonucleons  
**NT2** photonutrons  
**NT2** photoprotons  
**NT1** protons  
**NT2** antiprotons  
**NT2** cosmic protons  
**NT2** delayed protons  
**NT2** diprotons  
**NT2** photoprotons  
**NT2** prompt protons  
**NT2** solar protons  
**NT2** trapped protons  
*RT* brueckner method  
*RT* charge independence  
*RT* effective range theory  
*RT* hard-core potential  
*RT* levinger-bethe theory  
*RT* nucleon-nucleon potential  
*RT* ope potential  
*RT* pseudovector coupling  
*RT* rosenfeld force  
*RT* tabakin potential  
*RT* wolfenstein parameters  
*RT* yamaguchi potential  
*RT* yukawa potential

**NUCLEOPROTEINS**

*1995-01-10*

**\*BT1** proteins  
*RT* dna-ase  
*RT* dna methylases  
*RT* dna polymerases  
*RT* endonucleases  
*RT* gene recombination proteins  
*RT* gene repressors  
*RT* histones  
*RT* nucleases  
*RT* nucleic acids  
*RT* protamines  
*RT* rna polymerases  
*RT* rna processing  
*RT* splicing  
*RT* transcription factors

**NUCLEOSIDES**

**\*BT1** nucleotides  
**BT1** ribosides  
**NT1** adenosine  
**NT1** budr  
**NT1** cytidine  
**NT1** deoxycytidine  
**NT1** deoxyuridine  
**NT1** fudr  
**NT1** guanosine  
**NT1** inosine

**NT1** iododeoxyuridine  
**NT1** thymidine  
**NT2** fluorothymidine  
**NT1** uridine  
*RT* biological indicators  
*RT* purines  
*RT* pyrimidines

**NUCLEOSOMES**

*INIS: 1984-08-23; ETDE: 1980-04-14*  
*Chromatin subunits composed of DNA-histone complexes.*  
**BT1** chromatin  
*RT* dna  
*RT* histones

**NUCLEOSYNTHESIS**

*UF* nucleogenesis  
**BT1** synthesis  
**NT1** heavy ion fusion reactions  
**NT1** thermonuclear reactions  
**NT2** controlled thermonuclear fusion  
**NT2** impact fusion  
**NT2** muon-catalyzed fusion  
*RT* carbon burning  
*RT* cno cycle  
*RT* cosmochemistry  
*RT* helium burning  
*RT* hydrogen burning  
*RT* origin  
*RT* r process  
*RT* s process  
*RT* stars

**NUCLEOTIDASES**

*Code number 3.1.3.31, 3.1.3.5, and 3.1.3.6.*  
**\*BT1** phosphatases

**nucleotide dehydrogenases**

*INIS: 2000-04-12; ETDE: 1981-01-12*  
*Code number 1.6.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE oxidoreductases

**NUCLEOTIDES**

*1996-07-18*  
 (CYTRIPHOS and DEOXYCYTIDYLIC ACID have been valid ETDE descriptors.)  
*UF* cytriphos  
*UF* deoxycytidylic acid  
**BT1** organic compounds  
**NT1** adenylic acid  
**NT1** adp  
**NT1** amp  
**NT1** atp  
**NT1** cytidylic acid  
**NT1** guanylic acid  
**NT1** itp  
**NT1** nad  
**NT1** nadh2  
**NT1** nadp  
**NT1** nucleosides  
**NT2** adenosine  
**NT2** budr  
**NT2** cytidine  
**NT2** deoxycytidine  
**NT2** deoxyuridine  
**NT2** fudr  
**NT2** guanosine  
**NT2** inosine  
**NT2** iododeoxyuridine  
**NT2** thymidine  
**NT3** fluorothymidine  
**NT2** uridine  
**NT1** thymidylic acid  
**NT1** ump  
**NT1** uridine diphosphoglucose  
**NT1** uridylic acid  
**NT1** utp  
*RT* codons

*RT* dna sequencing  
*RT* hypoxanthine  
*RT* nucleic acids  
*RT* oligonucleotides  
*RT* organic acids

**NUCLEOTIDYLTRANSFERASES**

*INIS: 1986-12-03; ETDE: 1981-01-12*  
*Code number 2.7.7.*  
**\*BT1** phosphorus-group transferases  
**NT1** polymerases  
**NT2** dna polymerases  
**NT2** rna polymerases

**nuclides**

USE isotopes

**numak reactors**

*INIS: 1982-11-30; ETDE: 1978-10-23*  
*University of Wisconsin Tokamak upgrade of UWMAK I, II, and III.*  
 USE uwmak devices

**NUMATRON ACCELERATOR**

*INIS: 1984-02-22; ETDE: 1984-03-06*  
**\*BT1** heavy ion accelerators

**NUMBER CODES**

**BT1** computer codes

**NUMERICAL ANALYSIS**

*INIS: 1992-02-24; ETDE: 1976-01-23*  
*Study of approximation methods using arithmetic techniques.*  
**BT1** mathematics  
*RT* computer calculations  
*RT* computerized simulation  
*RT* numerical solution  
*RT* prony method

**NUMERICAL DATA**

*INIS: 1996-03-12; ETDE: 1979-02-27*  
*Use only in conjunction with literary indicator N for data flagging.*  
**\*BT1** data  
**NT1** compiled data  
**NT1** evaluated data  
**NT1** experimental data  
**NT1** financial data  
**NT1** statistical data  
**NT1** theoretical data  
*RT* data visualization

**numerical data tagging**

*INIS: 1999-05-13; ETDE: 1980-05-23*  
 USE data tagging

**NUMERICAL SOLUTION**

*For the procedure only.*  
**BT1** mathematical solutions  
**NT1** collision probability method  
**NT1** extrapolation  
**NT1** finite difference method  
**NT1** finite element method  
**NT2** boundary element method  
**NT1** interpolation  
**NT1** maximum-likelihood fit  
**NT2** least square fit  
**NT1** runge-kutta method  
*RT* calculation methods  
*RT* galerkin-petrov method  
*RT* genetic algorithms  
*RT* iterative methods  
*RT* newton method  
*RT* numerical analysis

**NUNAVUT**

*2006-07-28*  
**\*BT1** canada

**NUR REACTOR**

*2005-02-11*  
*Unite de Recherche en genie nucleaire (URGN), Draria, Algeria.*  
**\*BT1** enriched uranium reactors  
**\*BT1** pool type reactors  
**\*BT1** research reactors  
**\*BT1** thermal reactors

**NUSSELT NUMBER**

**BT1** dimensionless numbers  
*RT* boundary layers  
*RT* forced convection  
*RT* thermal conductivity  
*RT* viscosity

**NUTRIENTS**

*RT* culture media  
*RT* diet  
*RT* eutrophication  
*RT* feeding  
*RT* fertilizers  
*RT* food  
*RT* nutrition  
*RT* plant sap  
*RT* xenobiotics

**NUTRITION**

*RT* animal breeding  
*RT* animal feeds  
*RT* diet  
*RT* food  
*RT* mass rearing  
*RT* nutrients  
*RT* nutritional deficiency  
*RT* quality of life  
*RT* rearing

**NUTRITIONAL DEFICIENCY**

*UF* deficiency (nutritional)  
*UF* malnutrition  
*RT* diet  
*RT* nutrition

**NUTS**

*1982-01-13*  
 (Prior to February 1982, this concept in ETDE was indexed to SEEDS.)  
**\*BT1** fruits  
**NT1** chestnuts

**nuts (mechanical)**

*INIS: 1982-01-13; ETDE: 1982-02-11*  
 USE fasteners

**nx-188**

*INIS: 2000-04-12; ETDE: 1978-12-20*  
 USE alloy-nx-188

**NYLON**

**\*BT1** plastics  
**\*BT1** polyamides

**nymphs**

USE larvae

**NYQUIST DIAGRAMS**

**\*BT1** diagrams  
*RT* feedback  
*RT* oscillations  
*RT* reactor stability

**O CODES**

**BT1** computer codes

**O-GLYCOSYL HYDROLASES**

*INIS: 1986-12-03; ETDE: 1981-01-12*  
*Code number 3.2.1.*  
**\*BT1** glycosyl hydrolases  
**NT1** amylase  
**NT1** cellulase  
**NT1** galactosidase

NT1 glucosidase  
 NT1 glucuronidase  
 NT1 hyaluronidase  
 NT1 lysozyme  
 NT1 xylanase

**O GROUPS**

\*BT1 dynamical groups  
 \*BT1 lie groups

**o-rings**

INIS: 2000-04-12; ETDE: 1986-10-07  
 USE gaskets

**oak harbor ohio reactor**

ETDE: 2002-04-17  
 USE davis besse-1 reactor

**OAK RIDGE**

INIS: 1992-07-22; ETDE: 1977-06-24  
 \*BT1 tennessee  
 BT1 urban areas  
 RT oak ridge reservation  
 RT orgdp  
 RT orn1  
 RT y-12 plant

**oak ridge associated universities**

1999-06-18  
 USE orau

**oak ridge critical experiments facility**

1993-11-09  
 USE or-cef reactor

**oak ridge gaseous diffusion plant**

USE orgdp

**oak ridge institute of nuclear studies**

INIS: 2000-04-12; ETDE: 1984-12-26  
 USE orins

**oak ridge national laboratory**

USE orn1

**oak ridge research reactor**

USE orr reactor

**OAK RIDGE RESERVATION**

INIS: 1985-07-23; ETDE: 1985-01-28  
 DOE-owned land within the Oak Ridge area.  
 \*BT1 us doe  
 \*BT1 us erda  
 RT oak ridge  
 RT orgdp  
 RT orn1  
 RT tennessee  
 RT y-12 plant

**oak ridge sns**

2016-06-09  
 USE oak ridge spallation neutron source

**OAK RIDGE SPALLATION NEUTRON SOURCE**

2016-06-09  
 Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA.  
 UF oak ridge sns  
 UF sns (oak ridge)  
 UF spallation neutron source (oak ridge)  
 \*BT1 spallation neutron source facilities

**OAKS**

UF quercus  
 \*BT1 magnoliopsida  
 \*BT1 trees

**OAPEC**

INIS: 2000-04-12; ETDE: 1976-08-04  
 Organization of Arab Petroleum Exporting Countries.  
 BT1 international organizations

BT1 oil-exporting countries  
 RT algeria  
 RT bahrain  
 RT egyptian arab republic  
 RT iraq  
 RT kuwait  
 RT libyan arab jamahiriya  
 RT middle east  
 RT opec  
 RT petroleum  
 RT qatar  
 RT saudi arabia  
 RT syria  
 RT united arab emirates

**oas**

INIS: 2000-04-12; ETDE: 1978-03-03  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE international organizations

**OATS**

UF avena  
 \*BT1 cereals

**ob'edinennyj institut yadernykh issledovanij**

INIS: 1984-06-21; ETDE: 2002-04-17  
 USE jinr

**OBE MODEL**

UF one-boson-exchange model  
 \*BT1 boson-exchange models  
 NT1 ope model  
 NT2 electric born model

**obesity**

USE metabolic diseases

**OBRIGHEIM REACTOR**

Permanent shutdown since 2005.  
 UF kernkraftwerk obrigheim  
 UF kwo reactor  
 \*BT1 pwr type reactors

**obsidianites**

USE tektites

**obstetrics**

USE gynecology

**OCCIDENTAL FLASH PYROLYSIS PROCESS**

INIS: 2000-04-12; ETDE: 1976-08-04  
 The ORC process consists of rapidly pyrolyzing particles at a temperature of less than 1400 degrees F in an entrained stream of hot char and a gas substantially free of oxidizing constituents. Char, liquid and gas are products, with a portion of the char being heated and returned to the pyrolysis reactor. (Prior to July 1976, this concept in ETDE was indexed by GARRETT PYROLYSIS PROCESS.)

UF garrett pyrolysis process  
 UF orc flash pyrolysis process  
 \*BT1 coal gasification  
 \*BT1 coal liquefaction  
 \*BT1 waste processing  
 RT oil shales  
 RT pyrolysis  
 RT waste processing plants

**occlusion complexes**

USE clathrates

**occultation**

USE eclipse

**OCCUPANTS**

INIS: 1992-02-18; ETDE: 1978-04-05  
 UF passengers

RT automobiles  
 RT buildings  
 RT buses  
 RT elevators  
 RT human populations  
 RT motor vehicle operators  
 RT recreational vehicles  
 RT taxicabs  
 RT trains  
 RT trucks  
 RT vans  
 RT vehicles

**OCCUPATION NUMBER**

RT pauli principle  
 RT quantum mechanics  
 RT statistical mechanics

**OCCUPATIONAL DISEASES**

BT1 diseases  
 RT industrial medicine  
 RT occupational exposure  
 RT occupational safety  
 RT occupations  
 RT pneumoconioses  
 RT us occupational safety and health act  
 RT work  
 RT working conditions

**OCCUPATIONAL EXPOSURE**

INIS: 1985-04-23; ETDE: 1984-06-29  
 RT carcinogens  
 RT icrp critical group  
 RT ionizing radiations  
 RT mutagens  
 RT occupational diseases  
 RT occupational safety  
 RT occupations  
 RT radiation doses

**OCCUPATIONAL SAFETY**

INIS: 1981-02-27; ETDE: 1978-07-05  
 BT1 safety  
 RT drug abuse  
 RT health hazards  
 RT industrial medicine  
 RT occupational diseases  
 RT occupational exposure  
 RT occupations  
 RT personnel  
 RT working conditions

**occupational safety and health act**

INIS: 2000-04-12; ETDE: 1978-11-14  
 (Prior to February 1992 this was a valid ETDE descriptor.)  
 USE us occupational safety and health act

**occupational safety and health administration**

INIS: 1993-11-09; ETDE: 1978-06-14  
 USE us osha

**OCCUPATIONS**

1996-05-14  
 Nature of work performed.  
 UF caste (insects)  
 UF professions  
 RT craftsmen  
 RT employment  
 RT icrp critical group  
 RT manpower  
 RT occupational diseases  
 RT occupational exposure  
 RT occupational safety  
 RT personnel  
 RT personnel dosimetry  
 RT sociology  
 RT work

**ocean currents**

INIS: 2000-04-12; ETDE: 1977-04-12  
USE water currents

**ocean spreading center**

INIS: 2000-04-12; ETDE: 1985-04-24  
USE sea-floor spreading

**OCEAN THERMAL ENERGY CONVERSION**

INIS: 1991-12-11; ETDE: 1977-04-12  
UF otec  
\*BT1 solar energy conversion  
RT ocean thermal power plants

**OCEAN THERMAL POWER PLANTS**

INIS: 1991-12-11; ETDE: 1977-04-12  
UF solar sea power plants  
\*BT1 solar power plants  
\*BT1 thermal power plants  
RT lift cycles  
RT ocean thermal energy conversion

**OCEANIA**

INIS: 1992-06-04; ETDE: 1978-12-11  
Collective name for lands of the central and south Pacific Ocean, including Melanesia, Micronesia, and Polynesia; and sometimes including Australia, New Zealand, and the Malay Archipelago.  
UF pacific islands  
NT1 micronesia  
NT2 kiribati  
NT2 marshall islands  
NT3 bikini  
NT3 eniwetok  
NT2 nauru  
NT2 tuvalu  
NT1 new caledonia  
NT1 samoa  
NT1 solomon islands  
NT1 tonga  
NT1 vanuatu  
RT australia  
RT islands  
RT new zealand

**OCEANIC CIRCULATION**

INIS: 1992-01-20; ETDE: 1986-01-15  
Large-scale movement of discrete water masses which can be treated by equations of motion.  
RT box models  
RT general circulation models  
RT seas  
RT upwelling  
RT water currents

**OCEANIC CRUST**

INIS: 1986-12-18; ETDE: 1977-09-19  
BT1 earth crust  
RT continental crust  
RT earth planet

**OCEANOGRAPHY**

RT bathymetry  
RT buoys  
RT earth planet  
RT geography  
RT limnology  
RT seas

**oceans**

USE seas

**OCONEE-1 REACTOR**

Duke Energy Co., Seneca, South Carolina, USA.  
\*BT1 pwr type reactors

**OCONEE-2 REACTOR**

Duke Energy Co., Seneca, South Carolina, USA.  
\*BT1 pwr type reactors

**OCONEE-3 REACTOR**

Duke Energy Co., Seneca, South Carolina, USA.  
\*BT1 pwr type reactors

**OCTADECANOIC ACID**

UF stearic acid  
\*BT1 monocarboxylic acids  
RT stearates

**octadecyl glyceryl ether-alpha**

1996-06-26  
(Prior to June 1996 BATYL ALCOHOL was a valid ETDE descriptor.)  
USE alcohols  
USE ethers

**OCTAL 82 FACILITY**

1983-09-06  
Neodymium glass laser facility at Limeil, France for laser fusion experiments.  
RT neodymium lasers

**OCTANE**

\*BT1 alkanes

**octane number**

2000-04-12  
USE antiknock ratings

**OCTANOIC ACID**

UF caprylic acid  
\*BT1 monocarboxylic acids

**OCTANOLS**

UF octyl alcohols  
\*BT1 alcohols

**OCTENES**

2000-04-12  
\*BT1 alkenes

**OCTET MODEL**

UF eightfold way  
\*BT1 particle models  
RT baryon octets

**OCTUPOLAR CONFIGURATIONS**

\*BT1 multipolar configurations

**octupole radiation**

USE multipole radiation

**OCTUPOLES**

BT1 multipoles

**octyl alcohols**

USE octanols

**OCTYL RADICALS**

\*BT1 alkyl radicals

**ODD-EVEN NUCLEI**

1996-06-17  
Odd protons, even neutrons.  
BT1 nuclei  
NT1 actinium 207  
NT1 actinium 209  
NT1 actinium 211  
NT1 actinium 213  
NT1 actinium 215  
NT1 actinium 217  
NT1 actinium 219  
NT1 actinium 221  
NT1 actinium 223  
NT1 actinium 225  
NT1 actinium 227  
NT1 actinium 229  
NT1 actinium 231

NT1 actinium 233  
NT1 actinium 235  
NT1 aluminium 21  
NT1 aluminium 23  
NT1 aluminium 25  
NT1 aluminium 27  
NT1 aluminium 29  
NT1 aluminium 31  
NT1 aluminium 33  
NT1 aluminium 35  
NT1 aluminium 37  
NT1 aluminium 39  
NT1 aluminium 41  
NT1 americium 231  
NT1 americium 233  
NT1 americium 235  
NT1 americium 237  
NT1 americium 239  
NT1 americium 241  
NT1 americium 243  
NT1 americium 245  
NT1 americium 247  
NT1 americium 249  
NT1 antimony 103  
NT1 antimony 105  
NT1 antimony 107  
NT1 antimony 109  
NT1 antimony 111  
NT1 antimony 113  
NT1 antimony 115  
NT1 antimony 117  
NT1 antimony 119  
NT1 antimony 121  
NT1 antimony 123  
NT1 antimony 125  
NT1 antimony 127  
NT1 antimony 129  
NT1 antimony 131  
NT1 antimony 133  
NT1 antimony 135  
NT1 antimony 137  
NT1 antimony 139  
NT1 arsenic 61  
NT1 arsenic 63  
NT1 arsenic 65  
NT1 arsenic 67  
NT1 arsenic 69  
NT1 arsenic 71  
NT1 arsenic 73  
NT1 arsenic 75  
NT1 arsenic 77  
NT1 arsenic 79  
NT1 arsenic 81  
NT1 arsenic 83  
NT1 arsenic 85  
NT1 arsenic 87  
NT1 arsenic 89  
NT1 arsenic 91  
NT1 astatine 191  
NT1 astatine 193  
NT1 astatine 195  
NT1 astatine 197  
NT1 astatine 199  
NT1 astatine 201  
NT1 astatine 203  
NT1 astatine 205  
NT1 astatine 207  
NT1 astatine 209  
NT1 astatine 211  
NT1 astatine 213  
NT1 astatine 215  
NT1 astatine 217  
NT1 astatine 219  
NT1 astatine 221  
NT1 astatine 223  
NT1 berkelium 235  
NT1 berkelium 237  
NT1 berkelium 239  
NT1 berkelium 241



NT1	berkelium 243	NT1	chlorine 41	NT1	francium 199
NT1	berkelium 245	NT1	chlorine 43	NT1	francium 201
NT1	berkelium 247	NT1	chlorine 45	NT1	francium 203
NT1	berkelium 249	NT1	chlorine 47	NT1	francium 205
NT1	berkelium 251	NT1	chlorine 49	NT1	francium 207
NT1	berkelium 253	NT1	chlorine 51	NT1	francium 209
NT1	bismuth 185	NT1	cobalt 49	NT1	francium 211
NT1	bismuth 187	NT1	cobalt 51	NT1	francium 213
NT1	bismuth 189	NT1	cobalt 53	NT1	francium 215
NT1	bismuth 191	NT1	cobalt 55	NT1	francium 217
NT1	bismuth 193	NT1	cobalt 57	NT1	francium 219
NT1	bismuth 195	NT1	cobalt 59	NT1	francium 221
NT1	bismuth 197	NT1	cobalt 61	NT1	francium 223
NT1	bismuth 199	NT1	cobalt 63	NT1	francium 225
NT1	bismuth 201	NT1	cobalt 65	NT1	francium 227
NT1	bismuth 203	NT1	cobalt 67	NT1	francium 229
NT1	bismuth 205	NT1	cobalt 69	NT1	francium 231
NT1	bismuth 207	NT1	cobalt 71	NT1	gallium 57
NT1	bismuth 209	NT1	cobalt 73	NT1	gallium 59
NT1	bismuth 211	NT1	cobalt 75	NT1	gallium 61
NT1	bismuth 213	NT1	copper 53	NT1	gallium 63
NT1	bismuth 215	NT1	copper 55	NT1	gallium 65
NT1	bismuth 217	NT1	copper 57	NT1	gallium 67
NT1	bohrium 261	NT1	copper 59	NT1	gallium 69
NT1	bohrium 263	NT1	copper 61	NT1	gallium 71
NT1	bohrium 265	NT1	copper 63	NT1	gallium 73
NT1	bohrium 267	NT1	copper 65	NT1	gallium 75
NT1	bohrium 271	NT1	copper 67	NT1	gallium 77
NT1	bohrium 273	NT1	copper 69	NT1	gallium 79
NT1	bohrium 275	NT1	copper 71	NT1	gallium 81
NT1	boron 11	NT1	copper 73	NT1	gallium 83
NT1	boron 13	NT1	copper 75	NT1	gallium 85
NT1	boron 15	NT1	copper 77	NT1	gold 169
NT1	boron 17	NT1	copper 79	NT1	gold 171
NT1	boron 19	NT1	dubnium 255	NT1	gold 173
NT1	boron 7	NT1	dubnium 257	NT1	gold 175
NT1	boron 9	NT1	dubnium 259	NT1	gold 177
NT1	bromine 67	NT1	dubnium 261	NT1	gold 179
NT1	bromine 69	NT1	dubnium 263	NT1	gold 181
NT1	bromine 71	NT1	dubnium 265	NT1	gold 183
NT1	bromine 73	NT1	dubnium 267	NT1	gold 185
NT1	bromine 75	NT1	dubnium 269	NT1	gold 187
NT1	bromine 77	NT1	einsteinium 241	NT1	gold 189
NT1	bromine 79	NT1	einsteinium 243	NT1	gold 191
NT1	bromine 81	NT1	einsteinium 245	NT1	gold 193
NT1	bromine 83	NT1	einsteinium 247	NT1	gold 195
NT1	bromine 85	NT1	einsteinium 249	NT1	gold 197
NT1	bromine 87	NT1	einsteinium 251	NT1	gold 199
NT1	bromine 89	NT1	einsteinium 253	NT1	gold 201
NT1	bromine 91	NT1	einsteinium 255	NT1	gold 203
NT1	bromine 93	NT1	einsteinium 257	NT1	gold 205
NT1	bromine 95	NT1	europium 131	NT1	holmium 141
NT1	bromine 97	NT1	europium 133	NT1	holmium 143
NT1	cesium 113	NT1	europium 135	NT1	holmium 145
NT1	cesium 115	NT1	europium 137	NT1	holmium 147
NT1	cesium 117	NT1	europium 139	NT1	holmium 149
NT1	cesium 119	NT1	europium 141	NT1	holmium 151
NT1	cesium 121	NT1	europium 143	NT1	holmium 153
NT1	cesium 123	NT1	europium 145	NT1	holmium 155
NT1	cesium 125	NT1	europium 147	NT1	holmium 157
NT1	cesium 127	NT1	europium 149	NT1	holmium 159
NT1	cesium 129	NT1	europium 151	NT1	holmium 161
NT1	cesium 131	NT1	europium 153	NT1	holmium 163
NT1	cesium 133	NT1	europium 155	NT1	holmium 165
NT1	cesium 135	NT1	europium 157	NT1	holmium 167
NT1	cesium 137	NT1	europium 159	NT1	holmium 169
NT1	cesium 139	NT1	europium 161	NT1	holmium 171
NT1	cesium 141	NT1	europium 163	NT1	holmium 173
NT1	cesium 143	NT1	europium 165	NT1	holmium 175
NT1	cesium 145	NT1	europium 167	NT1	hydrogen 1
NT1	cesium 147	NT1	fluorine 15	NT1	hydrogen 5
NT1	cesium 149	NT1	fluorine 17	NT1	hydrogen 7
NT1	cesium 151	NT1	fluorine 19	NT1	indium 101
NT1	chlorine 29	NT1	fluorine 21	NT1	indium 103
NT1	chlorine 31	NT1	fluorine 23	NT1	indium 105
NT1	chlorine 33	NT1	fluorine 25	NT1	indium 107
NT1	chlorine 35	NT1	fluorine 27	NT1	indium 109
NT1	chlorine 37	NT1	fluorine 29	NT1	indium 111
NT1	chlorine 39	NT1	fluorine 31	NT1	indium 113

NT1	indium 115	NT1	lithium 3	NT1	niobium 97
NT1	indium 117	NT1	lithium 5	NT1	niobium 99
NT1	indium 119	NT1	lithium 7	NT1	nitrogen 11
NT1	indium 121	NT1	lithium 9	NT1	nitrogen 13
NT1	indium 123	NT1	lutetium 151	NT1	nitrogen 15
NT1	indium 125	NT1	lutetium 153	NT1	nitrogen 17
NT1	indium 127	NT1	lutetium 155	NT1	nitrogen 19
NT1	indium 129	NT1	lutetium 157	NT1	nitrogen 21
NT1	indium 131	NT1	lutetium 159	NT1	nitrogen 23
NT1	indium 133	NT1	lutetium 161	NT1	nitrogen 25
NT1	indium 135	NT1	lutetium 163	NT1	phosphorus 21
NT1	indium 97	NT1	lutetium 165	NT1	phosphorus 25
NT1	indium 99	NT1	lutetium 167	NT1	phosphorus 27
NT1	iodine 109	NT1	lutetium 169	NT1	phosphorus 29
NT1	iodine 111	NT1	lutetium 171	NT1	phosphorus 31
NT1	iodine 113	NT1	lutetium 173	NT1	phosphorus 33
NT1	iodine 115	NT1	lutetium 175	NT1	phosphorus 35
NT1	iodine 117	NT1	lutetium 177	NT1	phosphorus 37
NT1	iodine 119	NT1	lutetium 179	NT1	phosphorus 39
NT1	iodine 121	NT1	lutetium 181	NT1	phosphorus 41
NT1	iodine 123	NT1	lutetium 183	NT1	phosphorus 43
NT1	iodine 125	NT1	lutetium 187	NT1	phosphorus 45
NT1	iodine 127	NT1	manganese 45	NT1	potassium 33
NT1	iodine 129	NT1	manganese 47	NT1	potassium 35
NT1	iodine 131	NT1	manganese 49	NT1	potassium 37
NT1	iodine 133	NT1	manganese 51	NT1	potassium 39
NT1	iodine 135	NT1	manganese 53	NT1	potassium 41
NT1	iodine 137	NT1	manganese 55	NT1	potassium 43
NT1	iodine 139	NT1	manganese 57	NT1	potassium 45
NT1	iodine 141	NT1	manganese 59	NT1	potassium 47
NT1	iodine 143	NT1	manganese 61	NT1	potassium 49
NT1	iridium 165	NT1	manganese 63	NT1	potassium 51
NT1	iridium 167	NT1	manganese 65	NT1	potassium 53
NT1	iridium 169	NT1	manganese 67	NT1	potassium 55
NT1	iridium 171	NT1	manganese 69	NT1	praseodymium 121
NT1	iridium 173	NT1	meitnerium 265	NT1	praseodymium 123
NT1	iridium 175	NT1	meitnerium 267	NT1	praseodymium 125
NT1	iridium 177	NT1	meitnerium 271	NT1	praseodymium 127
NT1	iridium 179	NT1	meitnerium 273	NT1	praseodymium 129
NT1	iridium 181	NT1	meitnerium 275	NT1	praseodymium 131
NT1	iridium 183	NT1	meitnerium 279	NT1	praseodymium 133
NT1	iridium 185	NT1	mendelevium 245	NT1	praseodymium 135
NT1	iridium 187	NT1	mendelevium 247	NT1	praseodymium 137
NT1	iridium 189	NT1	mendelevium 249	NT1	praseodymium 139
NT1	iridium 191	NT1	mendelevium 251	NT1	praseodymium 141
NT1	iridium 193	NT1	mendelevium 253	NT1	praseodymium 143
NT1	iridium 195	NT1	mendelevium 255	NT1	praseodymium 145
NT1	iridium 197	NT1	mendelevium 257	NT1	praseodymium 147
NT1	iridium 199	NT1	mendelevium 259	NT1	praseodymium 149
NT1	lanthanum 117	NT1	mendelevium 261	NT1	praseodymium 151
NT1	lanthanum 119	NT1	moscovium 287	NT1	praseodymium 153
NT1	lanthanum 121	NT1	moscovium 288	NT1	praseodymium 155
NT1	lanthanum 123	NT1	neptunium 225	NT1	praseodymium 157
NT1	lanthanum 125	NT1	neptunium 227	NT1	praseodymium 159
NT1	lanthanum 127	NT1	neptunium 229	NT1	promethium 127
NT1	lanthanum 129	NT1	neptunium 231	NT1	promethium 129
NT1	lanthanum 131	NT1	neptunium 233	NT1	promethium 131
NT1	lanthanum 133	NT1	neptunium 235	NT1	promethium 133
NT1	lanthanum 135	NT1	neptunium 237	NT1	promethium 135
NT1	lanthanum 137	NT1	neptunium 239	NT1	promethium 137
NT1	lanthanum 139	NT1	neptunium 241	NT1	promethium 139
NT1	lanthanum 141	NT1	neptunium 243	NT1	promethium 141
NT1	lanthanum 143	NT1	nihonium 283	NT1	promethium 143
NT1	lanthanum 145	NT1	nihonium 284	NT1	promethium 145
NT1	lanthanum 147	NT1	niobium 101	NT1	promethium 147
NT1	lanthanum 149	NT1	niobium 103	NT1	promethium 149
NT1	lanthanum 151	NT1	niobium 105	NT1	promethium 151
NT1	lanthanum 153	NT1	niobium 107	NT1	promethium 153
NT1	lanthanum 155	NT1	niobium 109	NT1	promethium 155
NT1	lawrencium 251	NT1	niobium 111	NT1	promethium 157
NT1	lawrencium 253	NT1	niobium 113	NT1	promethium 159
NT1	lawrencium 255	NT1	niobium 81	NT1	promethium 161
NT1	lawrencium 257	NT1	niobium 83	NT1	promethium 163
NT1	lawrencium 259	NT1	niobium 85	NT1	protactinium 213
NT1	lawrencium 261	NT1	niobium 87	NT1	protactinium 215
NT1	lawrencium 263	NT1	niobium 89	NT1	protactinium 217
NT1	lawrencium 265	NT1	niobium 91	NT1	protactinium 219
NT1	lithium 11	NT1	niobium 93	NT1	protactinium 221
NT1	lithium 13	NT1	niobium 95	NT1	protactinium 223

NT1 protactinium 225  
 NT1 protactinium 227  
 NT1 protactinium 229  
 NT1 protactinium 231  
 NT1 protactinium 233  
 NT1 protactinium 235  
 NT1 protactinium 237  
 NT1 protactinium 239  
 NT1 rhenium 159  
 NT1 rhenium 161  
 NT1 rhenium 163  
 NT1 rhenium 165  
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 NT1 rhenium 195  
 NT1 rhodium 101  
 NT1 rhodium 103  
 NT1 rhodium 105  
 NT1 rhodium 107  
 NT1 rhodium 109  
 NT1 rhodium 111  
 NT1 rhodium 113  
 NT1 rhodium 115  
 NT1 rhodium 117  
 NT1 rhodium 119  
 NT1 rhodium 121  
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 NT1 rhodium 91  
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 NT1 rhodium 95  
 NT1 rhodium 97  
 NT1 rhodium 99  
 NT1 roentgenium 273  
 NT1 roentgenium 279  
 NT1 rubidium 101  
 NT1 rubidium 103  
 NT1 rubidium 71  
 NT1 rubidium 73  
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 NT1 rubidium 79  
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 NT1 scandium 37  
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 NT1 scandium 43  
 NT1 scandium 45  
 NT1 scandium 47  
 NT1 scandium 49  
 NT1 scandium 51  
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 NT1 scandium 55  
 NT1 scandium 57  
 NT1 scandium 59  
 NT1 scandium 61  
 NT1 silver 101  
 NT1 silver 103  
 NT1 silver 105

NT1 silver 107  
 NT1 silver 109  
 NT1 silver 111  
 NT1 silver 113  
 NT1 silver 115  
 NT1 silver 117  
 NT1 silver 119  
 NT1 silver 121  
 NT1 silver 123  
 NT1 silver 125  
 NT1 silver 127  
 NT1 silver 129  
 NT1 silver 93  
 NT1 silver 95  
 NT1 silver 97  
 NT1 silver 99  
 NT1 sodium 19  
 NT1 sodium 21  
 NT1 sodium 23  
 NT1 sodium 25  
 NT1 sodium 27  
 NT1 sodium 29  
 NT1 sodium 31  
 NT1 sodium 33  
 NT1 sodium 35  
 NT1 sodium 37  
 NT1 tantalum 155  
 NT1 tantalum 157  
 NT1 tantalum 159  
 NT1 tantalum 161  
 NT1 tantalum 163  
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 NT1 technetium 103  
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 NT1 technetium 91  
 NT1 technetium 93  
 NT1 technetium 95  
 NT1 technetium 97  
 NT1 technetium 99  
 NT1 terbium 135  
 NT1 terbium 137  
 NT1 terbium 139  
 NT1 terbium 141  
 NT1 terbium 143  
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 NT1 terbium 149  
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 NT1 terbium 167  
 NT1 terbium 169

NT1 terbium 171  
 NT1 thallium 177  
 NT1 thallium 179  
 NT1 thallium 181  
 NT1 thallium 183  
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 NT1 thallium 209  
 NT1 thallium 211  
 NT1 thulium 145  
 NT1 thulium 147  
 NT1 thulium 149  
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 NT1 thulium 159  
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 NT1 thulium 167  
 NT1 thulium 169  
 NT1 thulium 171  
 NT1 thulium 173  
 NT1 thulium 175  
 NT1 thulium 177  
 NT1 thulium 179  
 NT1 tritium  
 NT1 vanadium 41  
 NT1 vanadium 43  
 NT1 vanadium 45  
 NT1 vanadium 47  
 NT1 vanadium 49  
 NT1 vanadium 51  
 NT1 vanadium 53  
 NT1 vanadium 55  
 NT1 vanadium 57  
 NT1 vanadium 59  
 NT1 vanadium 61  
 NT1 vanadium 63  
 NT1 vanadium 65  
 NT1 yttrium 101  
 NT1 yttrium 103  
 NT1 yttrium 105  
 NT1 yttrium 107  
 NT1 yttrium 77  
 NT1 yttrium 79  
 NT1 yttrium 81  
 NT1 yttrium 83  
 NT1 yttrium 85  
 NT1 yttrium 87  
 NT1 yttrium 89  
 NT1 yttrium 91  
 NT1 yttrium 93  
 NT1 yttrium 95  
 NT1 yttrium 97  
 NT1 yttrium 99  
 RT nuclear structure

## ODD-ODD NUCLEI

1997-06-05

*Odd protons, odd neutrons.*

BT1 nuclei  
 NT1 actinium 206  
 NT1 actinium 208  
 NT1 actinium 210  
 NT1 actinium 212  
 NT1 actinium 214  
 NT1 actinium 216

<b>NT1</b> actinium 218	<b>NT1</b> astatine 220	<b>NT1</b> chlorine 30
<b>NT1</b> actinium 220	<b>NT1</b> astatine 222	<b>NT1</b> chlorine 32
<b>NT1</b> actinium 222	<b>NT1</b> berkelium 236	<b>NT1</b> chlorine 34
<b>NT1</b> actinium 224	<b>NT1</b> berkelium 238	<b>NT1</b> chlorine 36
<b>NT1</b> actinium 226	<b>NT1</b> berkelium 240	<b>NT1</b> chlorine 38
<b>NT1</b> actinium 228	<b>NT1</b> berkelium 242	<b>NT1</b> chlorine 40
<b>NT1</b> actinium 230	<b>NT1</b> berkelium 244	<b>NT1</b> chlorine 42
<b>NT1</b> actinium 232	<b>NT1</b> berkelium 246	<b>NT1</b> chlorine 44
<b>NT1</b> actinium 234	<b>NT1</b> berkelium 248	<b>NT1</b> chlorine 46
<b>NT1</b> actinium 236	<b>NT1</b> berkelium 250	<b>NT1</b> chlorine 48
<b>NT1</b> aluminium 22	<b>NT1</b> berkelium 252	<b>NT1</b> chlorine 50
<b>NT1</b> aluminium 24	<b>NT1</b> berkelium 254	<b>NT1</b> cobalt 50
<b>NT1</b> aluminium 26	<b>NT1</b> bismuth 184	<b>NT1</b> cobalt 52
<b>NT1</b> aluminium 28	<b>NT1</b> bismuth 186	<b>NT1</b> cobalt 54
<b>NT1</b> aluminium 30	<b>NT1</b> bismuth 188	<b>NT1</b> cobalt 56
<b>NT1</b> aluminium 32	<b>NT1</b> bismuth 190	<b>NT1</b> cobalt 58
<b>NT1</b> aluminium 34	<b>NT1</b> bismuth 192	<b>NT1</b> cobalt 60
<b>NT1</b> aluminium 36	<b>NT1</b> bismuth 194	<b>NT1</b> cobalt 62
<b>NT1</b> aluminium 38	<b>NT1</b> bismuth 196	<b>NT1</b> cobalt 64
<b>NT1</b> aluminium 40	<b>NT1</b> bismuth 198	<b>NT1</b> cobalt 66
<b>NT1</b> aluminium 42	<b>NT1</b> bismuth 200	<b>NT1</b> cobalt 68
<b>NT1</b> americium 232	<b>NT1</b> bismuth 202	<b>NT1</b> cobalt 70
<b>NT1</b> americium 234	<b>NT1</b> bismuth 204	<b>NT1</b> cobalt 72
<b>NT1</b> americium 236	<b>NT1</b> bismuth 206	<b>NT1</b> cobalt 74
<b>NT1</b> americium 238	<b>NT1</b> bismuth 208	<b>NT1</b> copper 52
<b>NT1</b> americium 240	<b>NT1</b> bismuth 210	<b>NT1</b> copper 54
<b>NT1</b> americium 242	<b>NT1</b> bismuth 212	<b>NT1</b> copper 56
<b>NT1</b> americium 244	<b>NT1</b> bismuth 214	<b>NT1</b> copper 58
<b>NT1</b> americium 246	<b>NT1</b> bismuth 216	<b>NT1</b> copper 60
<b>NT1</b> americium 248	<b>NT1</b> bismuth 218	<b>NT1</b> copper 62
<b>NT1</b> antimony 104	<b>NT1</b> bohrium 260	<b>NT1</b> copper 64
<b>NT1</b> antimony 106	<b>NT1</b> bohrium 262	<b>NT1</b> copper 66
<b>NT1</b> antimony 108	<b>NT1</b> bohrium 264	<b>NT1</b> copper 68
<b>NT1</b> antimony 110	<b>NT1</b> bohrium 266	<b>NT1</b> copper 70
<b>NT1</b> antimony 112	<b>NT1</b> bohrium 272	<b>NT1</b> copper 72
<b>NT1</b> antimony 114	<b>NT1</b> bohrium 274	<b>NT1</b> copper 74
<b>NT1</b> antimony 116	<b>NT1</b> boron 10	<b>NT1</b> copper 76
<b>NT1</b> antimony 118	<b>NT1</b> boron 12	<b>NT1</b> copper 78
<b>NT1</b> antimony 120	<b>NT1</b> boron 14	<b>NT1</b> copper 80
<b>NT1</b> antimony 122	<b>NT1</b> boron 16	<b>NT1</b> deuterium
<b>NT1</b> antimony 124	<b>NT1</b> boron 18	<b>NT1</b> dubnium 256
<b>NT1</b> antimony 126	<b>NT1</b> boron 6	<b>NT1</b> dubnium 258
<b>NT1</b> antimony 128	<b>NT1</b> boron 8	<b>NT1</b> dubnium 260
<b>NT1</b> antimony 130	<b>NT1</b> bromine 68	<b>NT1</b> dubnium 262
<b>NT1</b> antimony 132	<b>NT1</b> bromine 70	<b>NT1</b> dubnium 264
<b>NT1</b> antimony 134	<b>NT1</b> bromine 72	<b>NT1</b> dubnium 266
<b>NT1</b> antimony 136	<b>NT1</b> bromine 74	<b>NT1</b> dubnium 268
<b>NT1</b> antimony 138	<b>NT1</b> bromine 76	<b>NT1</b> einsteinium 240
<b>NT1</b> arsenic 60	<b>NT1</b> bromine 78	<b>NT1</b> einsteinium 242
<b>NT1</b> arsenic 62	<b>NT1</b> bromine 80	<b>NT1</b> einsteinium 244
<b>NT1</b> arsenic 64	<b>NT1</b> bromine 82	<b>NT1</b> einsteinium 246
<b>NT1</b> arsenic 66	<b>NT1</b> bromine 84	<b>NT1</b> einsteinium 248
<b>NT1</b> arsenic 68	<b>NT1</b> bromine 86	<b>NT1</b> einsteinium 250
<b>NT1</b> arsenic 70	<b>NT1</b> bromine 88	<b>NT1</b> einsteinium 252
<b>NT1</b> arsenic 72	<b>NT1</b> bromine 90	<b>NT1</b> einsteinium 254
<b>NT1</b> arsenic 74	<b>NT1</b> bromine 92	<b>NT1</b> einsteinium 256
<b>NT1</b> arsenic 76	<b>NT1</b> bromine 94	<b>NT1</b> einsteinium 258
<b>NT1</b> arsenic 78	<b>NT1</b> bromine 96	<b>NT1</b> europium 130
<b>NT1</b> arsenic 80	<b>NT1</b> cesium 112	<b>NT1</b> europium 132
<b>NT1</b> arsenic 82	<b>NT1</b> cesium 114	<b>NT1</b> europium 134
<b>NT1</b> arsenic 84	<b>NT1</b> cesium 116	<b>NT1</b> europium 136
<b>NT1</b> arsenic 86	<b>NT1</b> cesium 118	<b>NT1</b> europium 138
<b>NT1</b> arsenic 88	<b>NT1</b> cesium 120	<b>NT1</b> europium 140
<b>NT1</b> arsenic 90	<b>NT1</b> cesium 122	<b>NT1</b> europium 142
<b>NT1</b> arsenic 92	<b>NT1</b> cesium 124	<b>NT1</b> europium 144
<b>NT1</b> astatine 192	<b>NT1</b> cesium 126	<b>NT1</b> europium 146
<b>NT1</b> astatine 194	<b>NT1</b> cesium 128	<b>NT1</b> europium 148
<b>NT1</b> astatine 196	<b>NT1</b> cesium 130	<b>NT1</b> europium 150
<b>NT1</b> astatine 198	<b>NT1</b> cesium 132	<b>NT1</b> europium 152
<b>NT1</b> astatine 200	<b>NT1</b> cesium 134	<b>NT1</b> europium 154
<b>NT1</b> astatine 202	<b>NT1</b> cesium 136	<b>NT1</b> europium 156
<b>NT1</b> astatine 204	<b>NT1</b> cesium 138	<b>NT1</b> europium 158
<b>NT1</b> astatine 206	<b>NT1</b> cesium 140	<b>NT1</b> europium 160
<b>NT1</b> astatine 208	<b>NT1</b> cesium 142	<b>NT1</b> europium 162
<b>NT1</b> astatine 210	<b>NT1</b> cesium 144	<b>NT1</b> europium 164
<b>NT1</b> astatine 212	<b>NT1</b> cesium 146	<b>NT1</b> europium 166
<b>NT1</b> astatine 214	<b>NT1</b> cesium 148	<b>NT1</b> fluorine 14
<b>NT1</b> astatine 216	<b>NT1</b> cesium 150	<b>NT1</b> fluorine 16
<b>NT1</b> astatine 218	<b>NT1</b> chlorine 28	<b>NT1</b> fluorine 18

NT1	fluorine 20	NT1	indium 104	NT1	lawrencium 262
NT1	fluorine 22	NT1	indium 106	NT1	lawrencium 264
NT1	fluorine 24	NT1	indium 108	NT1	lawrencium 266
NT1	fluorine 26	NT1	indium 110	NT1	lithium 10
NT1	fluorine 28	NT1	indium 112	NT1	lithium 12
NT1	fluorine 30	NT1	indium 114	NT1	lithium 4
NT1	francium 200	NT1	indium 116	NT1	lithium 6
NT1	francium 202	NT1	indium 118	NT1	lithium 8
NT1	francium 204	NT1	indium 120	NT1	lutetium 150
NT1	francium 206	NT1	indium 122	NT1	lutetium 152
NT1	francium 208	NT1	indium 124	NT1	lutetium 154
NT1	francium 210	NT1	indium 126	NT1	lutetium 156
NT1	francium 212	NT1	indium 128	NT1	lutetium 158
NT1	francium 214	NT1	indium 130	NT1	lutetium 160
NT1	francium 216	NT1	indium 132	NT1	lutetium 162
NT1	francium 218	NT1	indium 134	NT1	lutetium 164
NT1	francium 220	NT1	indium 98	NT1	lutetium 166
NT1	francium 222	NT1	iodine 108	NT1	lutetium 168
NT1	francium 224	NT1	iodine 110	NT1	lutetium 170
NT1	francium 226	NT1	iodine 112	NT1	lutetium 172
NT1	francium 228	NT1	iodine 114	NT1	lutetium 174
NT1	francium 230	NT1	iodine 116	NT1	lutetium 176
NT1	francium 232	NT1	iodine 118	NT1	lutetium 178
NT1	gallium 56	NT1	iodine 120	NT1	lutetium 180
NT1	gallium 58	NT1	iodine 122	NT1	lutetium 182
NT1	gallium 60	NT1	iodine 124	NT1	lutetium 184
NT1	gallium 62	NT1	iodine 126	NT1	manganese 44
NT1	gallium 64	NT1	iodine 128	NT1	manganese 46
NT1	gallium 66	NT1	iodine 130	NT1	manganese 48
NT1	gallium 68	NT1	iodine 132	NT1	manganese 50
NT1	gallium 70	NT1	iodine 134	NT1	manganese 52
NT1	gallium 72	NT1	iodine 136	NT1	manganese 54
NT1	gallium 74	NT1	iodine 138	NT1	manganese 56
NT1	gallium 76	NT1	iodine 140	NT1	manganese 58
NT1	gallium 78	NT1	iodine 142	NT1	manganese 60
NT1	gallium 80	NT1	iodine 144	NT1	manganese 62
NT1	gallium 82	NT1	iridium 164	NT1	manganese 64
NT1	gallium 84	NT1	iridium 166	NT1	manganese 66
NT1	gallium 86	NT1	iridium 168	NT1	manganese 68
NT1	gold 170	NT1	iridium 170	NT1	manganese 70
NT1	gold 172	NT1	iridium 172	NT1	meitnerium 266
NT1	gold 174	NT1	iridium 174	NT1	meitnerium 268
NT1	gold 176	NT1	iridium 176	NT1	meitnerium 270
NT1	gold 178	NT1	iridium 178	NT1	meitnerium 272
NT1	gold 180	NT1	iridium 180	NT1	meitnerium 274
NT1	gold 182	NT1	iridium 182	NT1	meitnerium 276
NT1	gold 184	NT1	iridium 184	NT1	mendelevium 246
NT1	gold 186	NT1	iridium 186	NT1	mendelevium 248
NT1	gold 188	NT1	iridium 188	NT1	mendelevium 250
NT1	gold 190	NT1	iridium 190	NT1	mendelevium 252
NT1	gold 192	NT1	iridium 192	NT1	mendelevium 254
NT1	gold 194	NT1	iridium 194	NT1	mendelevium 256
NT1	gold 196	NT1	iridium 196	NT1	mendelevium 258
NT1	gold 198	NT1	iridium 198	NT1	mendelevium 260
NT1	gold 200	NT1	iridium 202	NT1	mendelevium 262
NT1	gold 202	NT1	lanthanum 118	NT1	neptunium 226
NT1	gold 204	NT1	lanthanum 120	NT1	neptunium 228
NT1	holmium 140	NT1	lanthanum 122	NT1	neptunium 230
NT1	holmium 142	NT1	lanthanum 124	NT1	neptunium 232
NT1	holmium 144	NT1	lanthanum 126	NT1	neptunium 234
NT1	holmium 146	NT1	lanthanum 128	NT1	neptunium 236
NT1	holmium 148	NT1	lanthanum 130	NT1	neptunium 238
NT1	holmium 150	NT1	lanthanum 132	NT1	neptunium 240
NT1	holmium 152	NT1	lanthanum 134	NT1	neptunium 242
NT1	holmium 154	NT1	lanthanum 136	NT1	neptunium 244
NT1	holmium 156	NT1	lanthanum 138	NT1	nihonium 278
NT1	holmium 158	NT1	lanthanum 140	NT1	niobium 100
NT1	holmium 160	NT1	lanthanum 142	NT1	niobium 102
NT1	holmium 162	NT1	lanthanum 144	NT1	niobium 104
NT1	holmium 164	NT1	lanthanum 146	NT1	niobium 106
NT1	holmium 166	NT1	lanthanum 148	NT1	niobium 108
NT1	holmium 168	NT1	lanthanum 150	NT1	niobium 110
NT1	holmium 170	NT1	lanthanum 152	NT1	niobium 112
NT1	holmium 172	NT1	lanthanum 154	NT1	niobium 82
NT1	holmium 174	NT1	lawrencium 252	NT1	niobium 84
NT1	hydrogen 4	NT1	lawrencium 254	NT1	niobium 86
NT1	hydrogen 6	NT1	lawrencium 256	NT1	niobium 88
NT1	indium 100	NT1	lawrencium 258	NT1	niobium 90
NT1	indium 102	NT1	lawrencium 260	NT1	niobium 92

<b>NT1</b> niobium 94	<b>NT1</b> protactinium 222	<b>NT1</b> silver 102
<b>NT1</b> niobium 96	<b>NT1</b> protactinium 224	<b>NT1</b> silver 104
<b>NT1</b> niobium 98	<b>NT1</b> protactinium 226	<b>NT1</b> silver 106
<b>NT1</b> nitrogen 10	<b>NT1</b> protactinium 228	<b>NT1</b> silver 108
<b>NT1</b> nitrogen 12	<b>NT1</b> protactinium 230	<b>NT1</b> silver 110
<b>NT1</b> nitrogen 14	<b>NT1</b> protactinium 232	<b>NT1</b> silver 112
<b>NT1</b> nitrogen 16	<b>NT1</b> protactinium 234	<b>NT1</b> silver 114
<b>NT1</b> nitrogen 18	<b>NT1</b> protactinium 236	<b>NT1</b> silver 116
<b>NT1</b> nitrogen 20	<b>NT1</b> protactinium 238	<b>NT1</b> silver 118
<b>NT1</b> nitrogen 22	<b>NT1</b> protactinium 240	<b>NT1</b> silver 120
<b>NT1</b> nitrogen 24	<b>NT1</b> rhenium 160	<b>NT1</b> silver 122
<b>NT1</b> phosphorus 24	<b>NT1</b> rhenium 162	<b>NT1</b> silver 124
<b>NT1</b> phosphorus 26	<b>NT1</b> rhenium 164	<b>NT1</b> silver 126
<b>NT1</b> phosphorus 28	<b>NT1</b> rhenium 166	<b>NT1</b> silver 128
<b>NT1</b> phosphorus 30	<b>NT1</b> rhenium 168	<b>NT1</b> silver 130
<b>NT1</b> phosphorus 32	<b>NT1</b> rhenium 170	<b>NT1</b> silver 94
<b>NT1</b> phosphorus 34	<b>NT1</b> rhenium 172	<b>NT1</b> silver 96
<b>NT1</b> phosphorus 36	<b>NT1</b> rhenium 174	<b>NT1</b> silver 98
<b>NT1</b> phosphorus 38	<b>NT1</b> rhenium 176	<b>NT1</b> sodium 18
<b>NT1</b> phosphorus 40	<b>NT1</b> rhenium 178	<b>NT1</b> sodium 20
<b>NT1</b> phosphorus 42	<b>NT1</b> rhenium 180	<b>NT1</b> sodium 22
<b>NT1</b> phosphorus 44	<b>NT1</b> rhenium 182	<b>NT1</b> sodium 24
<b>NT1</b> phosphorus 46	<b>NT1</b> rhenium 184	<b>NT1</b> sodium 26
<b>NT1</b> potassium 32	<b>NT1</b> rhenium 186	<b>NT1</b> sodium 28
<b>NT1</b> potassium 34	<b>NT1</b> rhenium 188	<b>NT1</b> sodium 30
<b>NT1</b> potassium 36	<b>NT1</b> rhenium 190	<b>NT1</b> sodium 32
<b>NT1</b> potassium 38	<b>NT1</b> rhenium 192	<b>NT1</b> sodium 34
<b>NT1</b> potassium 40	<b>NT1</b> rhenium 194	<b>NT1</b> tantalum 156
<b>NT1</b> potassium 42	<b>NT1</b> rhenium 196	<b>NT1</b> tantalum 158
<b>NT1</b> potassium 44	<b>NT1</b> rhodium 100	<b>NT1</b> tantalum 160
<b>NT1</b> potassium 46	<b>NT1</b> rhodium 102	<b>NT1</b> tantalum 162
<b>NT1</b> potassium 48	<b>NT1</b> rhodium 104	<b>NT1</b> tantalum 164
<b>NT1</b> potassium 50	<b>NT1</b> rhodium 106	<b>NT1</b> tantalum 166
<b>NT1</b> potassium 52	<b>NT1</b> rhodium 108	<b>NT1</b> tantalum 168
<b>NT1</b> potassium 54	<b>NT1</b> rhodium 110	<b>NT1</b> tantalum 170
<b>NT1</b> potassium 56	<b>NT1</b> rhodium 112	<b>NT1</b> tantalum 172
<b>NT1</b> praseodymium 122	<b>NT1</b> rhodium 114	<b>NT1</b> tantalum 174
<b>NT1</b> praseodymium 124	<b>NT1</b> rhodium 116	<b>NT1</b> tantalum 176
<b>NT1</b> praseodymium 126	<b>NT1</b> rhodium 118	<b>NT1</b> tantalum 178
<b>NT1</b> praseodymium 128	<b>NT1</b> rhodium 120	<b>NT1</b> tantalum 180
<b>NT1</b> praseodymium 130	<b>NT1</b> rhodium 122	<b>NT1</b> tantalum 182
<b>NT1</b> praseodymium 132	<b>NT1</b> rhodium 90	<b>NT1</b> tantalum 184
<b>NT1</b> praseodymium 134	<b>NT1</b> rhodium 92	<b>NT1</b> tantalum 186
<b>NT1</b> praseodymium 136	<b>NT1</b> rhodium 94	<b>NT1</b> tantalum 188
<b>NT1</b> praseodymium 138	<b>NT1</b> rhodium 96	<b>NT1</b> tantalum 190
<b>NT1</b> praseodymium 140	<b>NT1</b> rhodium 98	<b>NT1</b> technetium 100
<b>NT1</b> praseodymium 142	<b>NT1</b> roentgenium 272	<b>NT1</b> technetium 102
<b>NT1</b> praseodymium 144	<b>NT1</b> roentgenium 274	<b>NT1</b> technetium 104
<b>NT1</b> praseodymium 146	<b>NT1</b> roentgenium 280	<b>NT1</b> technetium 106
<b>NT1</b> praseodymium 148	<b>NT1</b> rubidium 100	<b>NT1</b> technetium 108
<b>NT1</b> praseodymium 150	<b>NT1</b> rubidium 102	<b>NT1</b> technetium 110
<b>NT1</b> praseodymium 152	<b>NT1</b> rubidium 72	<b>NT1</b> technetium 112
<b>NT1</b> praseodymium 154	<b>NT1</b> rubidium 74	<b>NT1</b> technetium 114
<b>NT1</b> praseodymium 156	<b>NT1</b> rubidium 76	<b>NT1</b> technetium 116
<b>NT1</b> praseodymium 158	<b>NT1</b> rubidium 78	<b>NT1</b> technetium 118
<b>NT1</b> promethium 126	<b>NT1</b> rubidium 80	<b>NT1</b> technetium 86
<b>NT1</b> promethium 128	<b>NT1</b> rubidium 82	<b>NT1</b> technetium 88
<b>NT1</b> promethium 130	<b>NT1</b> rubidium 84	<b>NT1</b> technetium 90
<b>NT1</b> promethium 132	<b>NT1</b> rubidium 86	<b>NT1</b> technetium 92
<b>NT1</b> promethium 134	<b>NT1</b> rubidium 88	<b>NT1</b> technetium 94
<b>NT1</b> promethium 136	<b>NT1</b> rubidium 90	<b>NT1</b> technetium 96
<b>NT1</b> promethium 138	<b>NT1</b> rubidium 92	<b>NT1</b> technetium 98
<b>NT1</b> promethium 140	<b>NT1</b> rubidium 94	<b>NT1</b> terbium 136
<b>NT1</b> promethium 142	<b>NT1</b> rubidium 96	<b>NT1</b> terbium 138
<b>NT1</b> promethium 144	<b>NT1</b> rubidium 98	<b>NT1</b> terbium 140
<b>NT1</b> promethium 146	<b>NT1</b> scandium 36	<b>NT1</b> terbium 142
<b>NT1</b> promethium 148	<b>NT1</b> scandium 38	<b>NT1</b> terbium 144
<b>NT1</b> promethium 150	<b>NT1</b> scandium 40	<b>NT1</b> terbium 146
<b>NT1</b> promethium 152	<b>NT1</b> scandium 42	<b>NT1</b> terbium 148
<b>NT1</b> promethium 154	<b>NT1</b> scandium 44	<b>NT1</b> terbium 150
<b>NT1</b> promethium 156	<b>NT1</b> scandium 46	<b>NT1</b> terbium 152
<b>NT1</b> promethium 158	<b>NT1</b> scandium 48	<b>NT1</b> terbium 154
<b>NT1</b> promethium 160	<b>NT1</b> scandium 50	<b>NT1</b> terbium 156
<b>NT1</b> promethium 162	<b>NT1</b> scandium 52	<b>NT1</b> terbium 158
<b>NT1</b> protactinium 212	<b>NT1</b> scandium 54	<b>NT1</b> terbium 160
<b>NT1</b> protactinium 214	<b>NT1</b> scandium 56	<b>NT1</b> terbium 162
<b>NT1</b> protactinium 216	<b>NT1</b> scandium 58	<b>NT1</b> terbium 164
<b>NT1</b> protactinium 218	<b>NT1</b> scandium 60	<b>NT1</b> terbium 166
<b>NT1</b> protactinium 220	<b>NT1</b> silver 100	<b>NT1</b> terbium 168

**NT1** terbium 170  
**NT1** thallium 176  
**NT1** thallium 178  
**NT1** thallium 180  
**NT1** thallium 182  
**NT1** thallium 184  
**NT1** thallium 186  
**NT1** thallium 188  
**NT1** thallium 190  
**NT1** thallium 192  
**NT1** thallium 194  
**NT1** thallium 196  
**NT1** thallium 198  
**NT1** thallium 200  
**NT1** thallium 202  
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**NT1** thallium 206  
**NT1** thallium 208  
**NT1** thallium 210  
**NT1** thallium 212  
**NT1** thulium 144  
**NT1** thulium 146  
**NT1** thulium 148  
**NT1** thulium 150  
**NT1** thulium 152  
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**NT1** thulium 170  
**NT1** thulium 172  
**NT1** thulium 174  
**NT1** thulium 176  
**NT1** thulium 178  
**NT1** vanadium 40  
**NT1** vanadium 42  
**NT1** vanadium 44  
**NT1** vanadium 46  
**NT1** vanadium 48  
**NT1** vanadium 50  
**NT1** vanadium 52  
**NT1** vanadium 54  
**NT1** vanadium 56  
**NT1** vanadium 58  
**NT1** vanadium 60  
**NT1** vanadium 62  
**NT1** vanadium 64  
**NT1** vanadium 66  
**NT1** yttrium 100  
**NT1** yttrium 102  
**NT1** yttrium 104  
**NT1** yttrium 106  
**NT1** yttrium 108  
**NT1** yttrium 76  
**NT1** yttrium 78  
**NT1** yttrium 80  
**NT1** yttrium 82  
**NT1** yttrium 84  
**NT1** yttrium 86  
**NT1** yttrium 88  
**NT1** yttrium 90  
**NT1** yttrium 92  
**NT1** yttrium 94  
**NT1** yttrium 96  
**NT1** yttrium 98  
**RT** nuclear structure

**odocoileus**

**USE** deer

**ODOR**

**BT1** organoleptic properties  
**RT** chemical attractants  
**RT** chemoreceptors  
**RT** odorization

**ODORANT DISPENSERS**

*INIS: 2000-04-12; ETDE: 1981-06-13*

**BT1** equipment  
**RT** odorization

**ODORANTS**

*INIS: 2000-04-12; ETDE: 1981-06-13*  
*Chemicals such as mercaptans and alkyl*

*sulfides added to gases to aid in leak*

*detection.*  
**RT** odorization

**ODORIZATION**

*INIS: 2000-04-12; ETDE: 1977-03-04*

**UF** gas odorization  
**BT1** processing  
**RT** odor  
**RT** odorant dispensers  
**RT** odorants  
**RT** odorometers

**ODOROMETERS**

*INIS: 2000-04-12; ETDE: 1981-06-13*

*Instruments that measure the concentrations*

*of odorants in gases.*

**BT1** measuring instruments  
**RT** odorization

**OECD**

**UF** organization economic co-operation and development

**BT1** international organizations

**NT1** nea

**RT** australia

**RT** austria

**RT** belgium

**RT** canada

**RT** czech republic

**RT** denmark

**RT** federal republic of germany

**RT** finland

**RT** france

**RT** greece

**RT** hungary

**RT** iceland

**RT** international energy agency

**RT** ireland

**RT** italy

**RT** japan

**RT** luxembourg

**RT** mexico

**RT** netherlands

**RT** new zealand

**RT** norway

**RT** poland

**RT** portugal

**RT** republic of korea

**RT** spain

**RT** sweden

**RT** switzerland

**RT** turkey

**RT** united kingdom

**RT** usa

**OECD MCMSDRW**

*INIS: 1978-08-14; ETDE: 1978-10-19*

*Multilateral Consultation and surveillance*

*Mechanism for Sea Dumping of Radioactive*

*Waste, set up by the OECD Council on 22 July*

*1977.*

**UF** consultation mechanism on sea

**UF** dumping

**UF** multilateral consultation mechanism,

*oecd*

**\*BT1** international regulations

**RT** contamination

**RT** lcpmpdpw

**RT** marine disposal

**oefzs**

*INIS: 1988-06-22; ETDE: 2002-04-17*

**USE** seibersdorf research centre

**oer**

**USE** oxygen enhancement ratio

**OFF-GAS SYSTEMS**

**RT** air cleaning systems

**RT** gaseous wastes

**RT** pollution control equipment

**RT** scrubbing

**OFF-HIGHWAY USE**

*INIS: 2000-04-12; ETDE: 1982-06-07*

**RT** fuel consumption

**RT** taxes

**OFF-PEAK ENERGY STORAGE**

*2000-04-19*

**\*BT1** energy storage

**RT** electric batteries

**RT** fuel cells

**RT** load management

**RT** peaking power plants

**RT** pumped storage

**RT** redox fuel cells

**OFF-PEAK POWER**

*INIS: 1993-01-22; ETDE: 1977-06-02*

**\*BT1** electric power

**RT** nuclear power

**RT** peak-load pricing

**RT** power demand

**RT** power plants

**RT** public utilities

**RT** time-of-use pricing

**OFFICE BUILDINGS**

*1993-03-24*

**BT1** buildings

**RT** commercial buildings

**RT** government buildings

**RT** office furniture

**RT** public buildings

**OFFICE FURNITURE**

*INIS: 2000-04-12; ETDE: 1983-03-24*

**RT** equipment

**RT** office buildings

**office of technology assessment**

*INIS: 2000-04-12; ETDE: 1981-03-17*

**USE** us ota

**OFFSHORE DRILLING**

*1992-01-08*

**BT1** drilling

**BT1** offshore operations

**RT** marine risers

**RT** mwd systems

**RT** offshore platforms

**RT** offshore sites

**OFFSHORE NUCLEAR POWER PLANTS**

**UF** floating nuclear power plants

**UF** platform mounted nuclear plant

**\*BT1** nuclear power plants

**RT** atlantic-1 reactor

**RT** atlantic-2 reactor

**RT** estuaries

**RT** offshore sites

**RT** reactor sites

**RT** seas

**RT** shores

**RT** site selection

**OFFSHORE OPERATIONS**

*INIS: 1992-05-18; ETDE: 1976-03-11*

**NT1** offshore drilling

**RT** buoys

RT diving operations  
 RT offshore platforms  
 RT skimmers  
 RT underwater facilities  
 RT underwater operations

**OFFSHORE PLATFORMS**

INIS: 1992-04-09; ETDE: 1975-08-19  
 Includes gravity or fixed, floating, and towed platforms.

UF drill ships  
 UF drilling platforms  
 NT1 semisubmersible platforms  
 RT marine risers  
 RT offshore drilling  
 RT offshore operations  
 RT offshore sites  
 RT positioning

**OFFSHORE SITES**

RT coastal waters  
 RT estuaries  
 RT offshore drilling  
 RT offshore nuclear power plants  
 RT offshore platforms  
 RT onshore sites  
 RT reactor sites  
 RT seas  
 RT shores  
 RT site selection

**offshore surveys**

INIS: 2000-01-24; ETDE: 1976-11-17  
 USE marine surveys

**offsprings**

USE progeny

**OGANESSON**

2017-04-11  
 Prior to March 2017 ELEMENT 118 was used for this element.  
 UF eka-radon  
 UF element 118  
 UF ununoctium  
 \*BT1 transactinide elements

**OGANESSON 294**

2017-04-11  
 Prior to March 2017 ELEMENT 118 294 was used for this concept.  
 UF element 118 294  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei

**OGANESSON IONS**

2018-01-24  
 \*BT1 ions

**OGANESSON ISOTOPES**

2017-04-11  
 Prior to March 2017 ELEMENT 118 ISOTOPES was used for this concept.  
 UF element 118 isotopes  
 BT1 isotopes

**OGO SATELLITES**

UF orbiting geophysical observatory  
 BT1 satellites  
 RT space flight

**OGRA**

\*BT1 magnetic mirrors

**ohi-3 reactor**

INIS: 1990-02-28; ETDE: 1990-03-15  
 USE oi-3 reactor

**ohi-4 reactor**

INIS: 1990-02-28; ETDE: 1990-03-15  
 USE oi-4 reactor

**OHIO**

UF scioto river  
 \*BT1 usa  
 NT1 cleveland  
 RT battelle columbus laboratory  
 RT chattanooga formation  
 RT feed materials production center  
 RT mound laboratory  
 RT ohio river  
 RT portsmouth centrifuge enrichment plant  
 RT portsmouth gaseous diffusion plant

**OHIO RIVER**

\*BT1 rivers  
 RT illinois  
 RT indiana  
 RT kentucky  
 RT ohio  
 RT ohio valley region  
 RT pennsylvania  
 RT west virginia

**ohio state university reactor**

1999-06-25  
 USE osur reactor

**OHIO VALLEY REGION**

INIS: 2000-04-12; ETDE: 1978-02-14  
 RT ohio river

**OHM LAW**

RT electric conductivity

**ohmic plasma heating**

USE joule heating

**ohmic plasma losses**

USE energy losses

**ohmic resistance**

USE electric conductivity

**OI-1 REACTOR**

KEPCO, Oi, Fukui, Japan.  
 UF kepc oshima oi-1 reactor  
 UF oshima oi-1 reactor  
 \*BT1 pwr type reactors

**OI-2 REACTOR**

KEPCO, Oi, Fukui, Japan.  
 UF kepc oshima oi-2 reactor  
 UF oshima oi-2 reactor  
 \*BT1 pwr type reactors

**OI-3 REACTOR**

INIS: 1990-02-28; ETDE: 1990-03-15  
 KEPCO, Oi, Fukui, Japan.  
 UF ohi-3 reactor  
 \*BT1 pwr type reactors

**OI-4 REACTOR**

INIS: 1990-02-28; ETDE: 1990-03-15  
 KEPCO, Oi, Fukui, Japan.  
 UF ohi-4 reactor  
 \*BT1 pwr type reactors

**OIL BURNERS**

INIS: 1999-05-18; ETDE: 1979-05-09  
 BT1 burners  
 RT combustion  
 RT oil furnaces

**OIL-EXPORTING COUNTRIES**

INIS: 1999-03-15; ETDE: 1979-08-07  
 For very broad, general use only. If specific countries are discussed, use the specific country descriptors.  
 NT1 oapec  
 NT1 opec  
 RT developed countries  
 RT developing countries

**OIL FIELDS**

INIS: 1992-03-17; ETDE: 1976-03-11  
 Surface boundary of an area from which petroleum is obtained; may correspond to an oil pool or may be circumscribed by political or legal limits.

\*BT1 petroleum deposits  
 NT1 weyburn field  
 RT associated gas  
 RT field production equipment  
 RT gas condensate fields  
 RT oil wells  
 RT reservoir fluids  
 RT reservoir rock  
 RT well injection equipment  
 RT well recovery equipment  
 RT well spacing

**OIL-FILLED CABLES**

INIS: 1999-10-13; ETDE: 1976-03-11  
 \*BT1 electric cables  
 RT power transmission  
 RT power transmission lines

**OIL FURNACES**

INIS: 1992-05-13; ETDE: 1977-06-21  
 BT1 furnaces  
 RT oil burners  
 RT space heating

**OIL-IMPORTING COUNTRIES**

INIS: 2000-04-12; ETDE: 1977-04-14  
 Countries, industrial or developing, that import some of their oil supplies. For broad, general use only; if specific countries are discussed, use the specific country descriptor.  
 RT developing countries  
 RT imports  
 RT trade

**OIL PALMS**

INIS: 1975-09-16; ETDE: 1975-10-28  
 \*BT1 liliopsida  
 \*BT1 trees  
 RT palm oil

**OIL POLLUTION CONTAINMENT**

INIS: 1992-04-07; ETDE: 1978-01-23  
 \*BT1 pollution control  
 RT oil retention booms  
 RT oil spills  
 RT water pollution control

**oil residues**

INIS: 1992-04-02; ETDE: 1977-10-20  
 USE petroleum residues

**OIL RETENTION BOOMS**

INIS: 1992-07-17; ETDE: 1978-01-23  
 \*BT1 pollution control equipment  
 RT oil pollution containment

**OIL SAND DEPOSITS**

1997-06-19  
 BT1 geologic deposits  
 NT1 asphalt ridge deposit  
 NT1 athabasca deposit  
 NT1 circle cliffs deposit  
 NT1 cold lake deposit  
 NT1 edna deposit  
 NT1 lloydminster deposit  
 NT1 peace river deposit  
 NT1 pr springs deposit  
 NT1 santa rosa deposit  
 NT1 sunnyside deposit  
 NT1 tar sand triangle deposit  
 NT1 uvalde deposit  
 NT1 wabasca deposit  
 RT oil sands  
 RT reserves



**OIL SAND INDUSTRY**

1994-09-29

- BT1 industry
- RT mineral industry
- RT oil sands

**OIL SAND MINING**

INIS: 1992-09-03; ETDE: 1980-10-28

- BT1 mining
- RT oil sands
- RT surface mining

**oil sand oils**

2000-04-12

- USE bitumens
- USE oil sands

**OIL SAND PROCESSING PLANTS**

1993-12-30

- BT1 industrial plants
- RT oil sands

**OIL SAND TAILINGS**

1992-05-04

- UF tar sand tailings
- \*BT1 tailings

**OIL SANDS**

1997-06-19

- UF oil sand oils
- UF tar sands
- \*BT1 bituminous materials
- \*BT1 fossil fuels
- BT1 sand
- RT asphalt ridge deposit
- RT athabasca deposit
- RT bitumens
- RT circle cliffs deposit
- RT cold lake deposit
- RT cold-water processes
- RT edna deposit
- RT fluid injection processes
- RT h-oil process
- RT hot-water processes
- RT oil sand deposits
- RT oil sand industry
- RT oil sand mining
- RT oil sand processing plants
- RT oil shales
- RT peace river deposit
- RT pr springs deposit
- RT rope process
- RT santa rosa deposit
- RT steam soak processes
- RT sunnyside deposit
- RT tar sand triangle deposit
- RT uvalde deposit
- RT wabasca deposit

**OIL SATURATION**

INIS: 1992-07-10; ETDE: 1976-07-07

Degree of filling of reservoir pore structure by reservoir oil.

- BT1 saturation
- RT gas saturation
- RT reservoir rock
- RT water saturation

**OIL SHALE DEPOSITS**

1997-06-19

- BT1 geologic deposits
- \*BT1 mineral resources
- NT1 us naval oil shale reserves
- RT chattanooga formation
- RT geophysical surveys
- RT green river formation
- RT oil shales
- RT piceance creek basin
- RT reserves
- RT rock springs sites
- RT sand wash basin

- RT uinta basin
- RT uinta formation
- RT washakie basin

**OIL SHALE FINES**

INIS: 2000-04-12; ETDE: 1976-11-01

- RT oil shales

**OIL SHALE INDUSTRY**

1992-07-22

- BT1 industry
- RT mineral industry
- RT oil shales
- RT shale oil

**OIL SHALE MINING**

INIS: 1992-04-09; ETDE: 1976-11-17

- UF shale mining
- BT1 mining
- RT mining engineering
- RT surface mining
- RT underground mining

**OIL SHALE PROCESSING PLANTS**

1997-06-17

- BT1 industrial plants
- NT1 anvil points research facility
- NT1 glen davis facility
- RT gas generators
- RT oil shales

**oil shale waste water**

INIS: 2000-04-12; ETDE: 1976-03-25

- USE oil shales
- USE waste water

**OIL SHALES**

1997-06-17

- UF holzheimer process
- UF lungstrom process
- UF oil shale waste water
- SF fushun process
- SF galoter process
- \*BT1 bituminous materials
- \*BT1 fossil fuels
- \*BT1 shales
- NT1 black shales
- RT anvil points research facility
- RT bitumens
- RT explosive stimulation
- RT fischer assay
- RT fluidized bed refuse gasification
- RT gas combustion process
- RT gas-flow processes
- RT gasbuggy event
- RT green river formation
- RT h-oil process
- RT hot-water processes
- RT hydroretorting assay
- RT hydrotorting process
- RT ichthammol
- RT in-situ processing
- RT in-situ retorting
- RT integrated in-situ process
- RT kerogen
- RT kiviter process
- RT lofreco process
- RT lurgi-ruhrgas process
- RT mahogany zone
- RT ntu process
- RT occidental flash pyrolysis process
- RT oil sands
- RT oil shale deposits
- RT oil shale fines
- RT oil shale industry
- RT oil shale processing plants
- RT oxy modified in-situ process
- RT parah process
- RT petrosix process
- RT retorting
- RT rio blanco oil shale project

- RT rise
- RT rope process
- RT shale gas
- RT shale oil
- RT shale oil fractions
- RT shell pellet heat exchanger retorting
- RT spent shales
- RT superior process
- RT t3 process
- RT tosc process
- RT uinta formation
- RT union oil process
- RT wasatch formation
- RT white river shale project

**oil skimmers**

INIS: 1992-07-21; ETDE: 2002-04-17

- USE skimmers

**oil spill fingerprinting**

INIS: 2000-04-12; ETDE: 1978-08-07

- USE oil spills
- USE pattern recognition

**OIL SPILLS**

1991-08-14

- UF fingerprinting (oil spills)
- UF oil spill fingerprinting
- BT1 accidents
- RT chemical spills
- RT hazardous materials spills
- RT natural attenuation
- RT oil pollution containment
- RT petroleum
- RT rotating disk removal systems
- RT skimmers
- RT sorbent recovery systems
- RT weir oil recovery systems

**oil-water separators**

INIS: 2000-04-12; ETDE: 1981-05-18

- SEE separation equipment

**OIL WELLS**

INIS: 1991-08-14; ETDE: 1975-09-11

- BT1 wells
- RT abandoned wells
- RT artificial lifts
- RT blowout preventers
- RT blowouts
- RT carbon dioxide injection
- RT drill stem testing
- RT dry holes
- RT exploratory wells
- RT field production equipment
- RT gas condensate wells
- RT gas lifts
- RT interstitial water
- RT oil fields
- RT petroleum
- RT plugging
- RT plugging agents
- RT sand consolidation
- RT water influx
- RT well completion
- RT well injection equipment
- RT well recovery equipment
- RT well servicing
- RT well stimulation
- RT wellhead prices
- RT wellheads

**OIL YIELDS**

1993-07-21

- BT1 yields
- RT petroleum
- RT productivity

**OILS**

- \*BT1 other organic compounds
- NT1 coal tar oils

**NT1** essential oils  
**NT1** fish oil  
**NT1** insulating oils  
**NT1** lipiodol  
**NT1** lubricating oils  
**NT1** pyrolytic oils  
**NT1** road oils  
**NT1** shale tar oils  
**NT1** tall oil  
**NT1** triolein  
**NT1** vegetable oils  
**NT2** castor oil  
**NT2** corn oil  
**NT2** cottonseed oil  
**NT2** linseed oil  
**NT2** olive oil  
**NT2** palm oil  
**NT2** peanut oil  
**NT2** sesame oil  
**NT2** soybean oil  
**NT2** sunflower oil  
**NT1** waste oils  
**NT1** wood oils  
**RT** bromine number  
**RT** coolants  
**RT** distillates  
**RT** fuel oils  
**RT** greases  
**RT** hydrocarbons  
**RT** petroleum  
**RT** petroleum products  
**RT** terpenes  
**RT** triglycerides

**OINTMENTS**

**RT** drugs  
**RT** skin

**oiyai**

**INIS:** 1984-06-21; **ETDE:** 2002-04-17  
**USE** jinr

**OKG-1 REACTOR**

**UF** oskarshamm-1 reactor  
**\*BT1** bwr type reactors

**OKG-2 REACTOR**

**UF** oskarshamm-2 reactor  
**\*BT1** bwr type reactors

**OKG-3 REACTOR**

**UF** oskarshamm-3 reactor  
**\*BT1** bwr type reactors

**OKG-4 REACTOR**

**UF** oskarshamm-4 reactor  
**\*BT1** power reactors

**OKINAWA**

**INIS:** 1992-06-04; **ETDE:** 1980-08-25  
**BT1** islands  
**RT** japan

**OKLAHOMA**

**\*BT1** usa  
**RT** chattanooga formation  
**RT** permian basin  
**RT** sequoyah uf6 production plant

**OKLO PHENOMENON**

**INIS:** 1976-01-28; **ETDE:** 1976-03-12  
**UF** natural reactor oklo  
**BT1** natural nuclear reactors  
**RT** chain reactions  
**RT** criticality  
**RT** gabon  
**RT** spontaneous fission  
**RT** uranium deposits  
**RT** uranium ores

**oktemberian-1 reactor**

**INIS:** 1984-08-23; **ETDE:** 2002-04-17  
**USE** armenian-1 reactor

**oktemberian-2 reactor**

**INIS:** 1984-08-23; **ETDE:** 1984-09-20  
**USE** armenian-2 reactor

**OKTEMBERYAN-2 REACTOR**

**2000-04-12**  
**\*BT1** pwr type reactors

**OKUBO MASS FORMULA**

**BT1** mass formulae  
**RT** particle multiplets

**OLADE**

**2006-10-11**  
**UF** latin american energy organization  
**UF** organizacion latinoamericana de energia  
**BT1** international organizations

**old faithful geyser**

**2000-04-12**  
 (Prior to February 1995, this was a valid  
**ETDE** descriptor.)  
**USE** geysers

**OLDBURY-A REACTOR**

*Oldbury on Severn, Gloucestershire, United Kingdom. OLDBURY A-1 and A-2 are permanently shut down since 2012 and 2011.*  
**\*BT1** carbon dioxide cooled reactors  
**\*BT1** magnox type reactors  
**\*BT1** thermal reactors

**OLDBURY-B REACTOR**

*Oldbury on Severn, Gloucestershire, United Kingdom.*  
**\*BT1** carbon dioxide cooled reactors  
**\*BT1** enriched uranium reactors  
**\*BT1** power reactors  
**\*BT1** thermal reactors

**olefins**

**USE** alkenes

**OLEIC ACID**

**\*BT1** monocarboxylic acids  
**RT** triolein

**olein**

**USE** triolein

**OLEORESINS**

**INIS:** 2000-04-12; **ETDE:** 1979-05-31  
*Plant products containing chiefly essential oil and resin; obtained from plants such as pine trees.*  
**RT** aromatics  
**RT** biomass

**OLFACTORY BULBS**

**\*BT1** brain  
**RT** sense organs

**oligocene epoch**

**INIS:** 2000-04-12; **ETDE:** 1977-10-20  
**USE** tertiary period

**OLIGONUCLEOTIDES**

**1994-04-12**  
*Chemically synthesized polynucleotides, generally shorter than 100 nucleotides. (Until April 1994 this concept was indexed to NUCLEOTIDES.)*  
**\*BT1** dna  
**RT** dna-cloning  
**RT** dna hybridization  
**RT** nucleotides  
**RT** recombinant dna

**OLIGOPHENYLENES**

**\*BT1** aromatics

**OLIGOSACCHARIDES**

**\*BT1** saccharides  
**NT1** disaccharides  
**NT2** cellobiose  
**NT2** lactose  
**NT2** maltose  
**NT2** saccharose  
**NT1** raffinose

**OLIVE OIL**

**UF** florence oil  
**UF** luccu oil  
**\*BT1** triglycerides  
**\*BT1** vegetable oils  
**RT** olives

**OLIVE TREES**

**INIS:** 1975-12-17; **ETDE:** 1976-01-26  
**\*BT1** magnoliopsida  
**\*BT1** trees

**OLIVES**

**\*BT1** fruits  
**RT** dacus oleae  
**RT** olive oil

**OLIVINE**

(Prior to August 1980 OLIVINES was a valid  
**ETDE** descriptor.)  
**\*BT1** silicate minerals  
**RT** anorthosites  
**RT** basalt  
**RT** dielectric track detectors  
**RT** iron silicates  
**RT** kimberlites  
**RT** magnesium silicates  
**RT** peridotites

**olkiluoto (halmholmen)-1 reactor**

**INIS:** 1993-11-09; **ETDE:** 2002-04-17  
**USE** olkiluoto-1 reactor

**olkiluoto (halmholmen)-2 reactor**

**INIS:** 1993-11-09; **ETDE:** 2002-04-17  
**USE** olkiluoto-2 reactor

**olkiluoto (halmholmen)-3 reactor**

**2005-09-08**  
**USE** olkiluoto-3 reactor

**OLKILUOTO-1 REACTOR**

**INIS:** 1997-06-19; **ETDE:** 1997-09-08  
*TVO, Olkiluoto (Halmholmen), Finland.*  
 (From August 1976 till June 1997  
 (INIS)/September 1997 (ETDE) the descriptor  
**TVO-1 REACTOR** was used for this reactor.  
**OLKILUOTO REACTOR** was also a valid  
**ETDE** descriptor till January 1995.)  
**UF** olkiluoto (halmholmen)-1 reactor  
**UF** olkiluoto reactor  
**UF** teollisuuden voima oy-1 reactor  
**UF** tvo-1 reactor  
**\*BT1** bwr type reactors

**OLKILUOTO-2 REACTOR**

**INIS:** 1997-06-19; **ETDE:** 1997-09-08  
*TVO, Olkiluoto (Halmholmen), Finland.*  
 (From August 1976 till June 1997  
 (INIS)/September 1997 (ETDE) the descriptor  
**TVO-2 REACTOR** was used for this reactor.  
**OLKILUOTO REACTOR** was also a valid  
**ETDE** descriptor till January 1995.)  
**UF** olkiluoto (halmholmen)-2 reactor  
**UF** teollisuuden voima oy-2 reactor  
**UF** tvo-2 reactor  
**\*BT1** bwr type reactors

**OLKILUOTO-3 REACTOR**

2005-09-08

*TVO, Olkiluoto (Halmholmen), Finland. The Framatome APN/Siemens AG European Pressurized Water Reactor (EPR).*

*UF olkiluoto (halmholmen)-3 reactor*

*UF teollisuuden voima oy-3 reactor*

*UF tvo-3 reactor*

\*BT1 pwr type reactors

**olkiluoto reactor**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor. TVO-1 REACTOR was a valid ETDE descriptor from August 1976 till September 1997.)

USE olkiluoto-1 reactor

**OLYMPIC DAM MINE**

*INIS: 1990-04-19; ETDE: 1990-05-16*

\*BT1 uranium mines

*RT roxby downs deposit*

*RT south australia*

**omaha veterans triga-mk-1**

USE triga-veterans reactor

**OMAN**

*INIS: 1981-09-17; ETDE: 1976-10-13*

BT1 arab countries

BT1 asia

BT1 developing countries

BT1 middle east

**OMEGA-1420 MESONS**

*1995-07-17*

\*BT1 vector mesons

**OMEGA-1600 MESONS**

*1995-07-17*

\*BT1 vector mesons

**omega-1675 resonances**

*INIS: 1987-12-21; ETDE: 1977-03-04*

(Prior to December 1987 this was a valid descriptor.)

USE omega3-1670 mesons

**omega-1778 resonances**

*INIS: 1988-03-08; ETDE: 1977-11-10*

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**OMEGA-2250 BARYONS**

*1995-07-17*

\*BT1 omega baryons

**OMEGA-782 MESONS**

*1995-08-07*

(Until December 1987 this concept was indexed by OMEGA-784RESONANCES; from then until July 1995 it was indexed by OMEGA-783 MESONS.)

*UF omega-783 mesons*

*UF omega-784 resonances*

\*BT1 vector mesons

**omega-783 mesons**

*INIS: 1995-08-07; ETDE: 1988-01-25*

(From December 1987 until July 1995 this was a valid term.)

USE omega-782 mesons

**omega-784 resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

USE omega-782 mesons

**OMEGA BARYONS**

*INIS: 1995-07-17; ETDE: 1988-02-26*

\*BT1 hyperons

**NT1** omega-2250 baryons

**NT1** omega particles

**NT2** antiomega particles

**NT2** omega minus particles

**OMEGA C NEUTRAL BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-26*

\*BT1 charmed baryons

**OMEGA FACILITY**

*INIS: 1984-05-28; ETDE: 1979-05-25*

*Large Nd laser facility at University of Rochester to be used for laser fusion experiments.*

*RT gdl facility*

*RT laser fusion reactors*

*RT neodymium lasers*

**omega minus**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

USE omega particles

**OMEGA MINUS PARTICLES**

*1995-07-17*

(Until July 1995 this concept was indexed to OMEGA PARTICLES.)

\*BT1 omega particles

**omega particle beams**

*1996-07-18*

(Until July 1996 this was a valid descriptor.)

USE hyperon beams

**OMEGA PARTICLES**

*1995-07-17*

*UF omega minus*

\*BT1 omega baryons

**NT1** antiomega particles

**NT1** omega minus particles

**omega west reactor**

USE owr reactor

**OMEGA3-1670 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*

(Prior to December 1987 this concept was indexed by OMEGA-1675 RESONANCES.)

*UF omega-1675 resonances*

\*BT1 tensor mesons

**omentum**

USE mesentery

**OMNES-MUSKHELISHVILI****METHOD**

BT1 calculation methods

*RT partial waves*

**omnitron**

*1996-06-28*

(Until June 1996 this was a valid descriptor.)

USE synchrotrons

**OMR TYPE REACTORS**

*UF organic cooled and moderated reactor*

\*BT1 organic cooled reactors

\*BT1 organic moderated reactors

**NT1** arbv reactor

**NT1** omre reactor

**NT1** pnpf reactor

*RT power reactors*

**OMRE REACTOR**

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1963.*

*UF organic moderated reactor experiment*

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 mixed spectrum reactors

\*BT1 omr type reactors

**ON-HIGHWAY USE**

*INIS: 2000-04-12; ETDE: 1982-06-07*

*RT fuel consumption*

*RT taxes*

**on-line computers**

USE computers

USE on-line systems

**ON-LINE CONTROL SYSTEMS**

BT1 control systems

BT1 on-line systems

**NT1** computerized control systems

**NT2** adaptive systems

*RT camac system*

*RT computer-aided manufacturing*

*RT fastbus system*

*RT nuclear instrument modules*

*RT process computers*

*RT reactor control systems*

*RT real time systems*

*RT remote multiplexing systems*

**ON-LINE MEASUREMENT SYSTEMS**

BT1 on-line systems

*RT digitizers*

*RT fastbus system*

*RT measuring instruments*

*RT reactor monitoring systems*

**ON-LINE SYSTEMS**

*UF on-line computers*

**NT1** on-line control systems

**NT2** computerized control systems

**NT3** adaptive systems

**NT1** on-line measurement systems

*RT computer networks*

*RT mwd systems*

*RT real time systems*

**ON-SITE INSPECTION**

*INIS: 1999-01-27; ETDE: 1988-05-23*

BT1 inspection

*RT in-country detection*

*RT verification*

**ON-SITE POWER GENERATION**

*INIS: 1986-04-03; ETDE: 1980-10-07*

*Production of power at location of use instead of purchase of power from a utility.*

BT1 power generation

*RT dispersed storage and generation*

*RT electric power*

*RT power plants*

*RT reactor sites*

**ONAGAWA-1 REACTOR**

*Tohoku Electric Power Co., Onagawa, Miyagi, Japan.*

*UF tohoku-1 reactor*

\*BT1 bwr type reactors

**ONAGAWA-2 REACTOR**

*INIS: 1989-11-24; ETDE: 1989-12-08*

*Tohoku Electric Power Co., Onagawa, Miyagi, Japan.*

\*BT1 bwr type reactors

**ONAGAWA-3 REACTOR**

INIS: 2000-04-25; ETDE: 2000-05-03  
Tohoku Electric Power Co., Onagawa,  
Miyagi, Japan.

\*BT1 bwr type reactors

**ONCE-THROUGH COOLING SYSTEMS**

1993-03-23

\*BT1 cooling systems  
RT cooling

**ONCOGENES**

INIS: 1987-04-28; ETDE: 1985-11-19

Genes whose expression may lead to cancer.  
The genes may be normal components of the  
genome or be derived from oncogenic viruses.

BT1 genes  
RT carcinogenesis  
RT growth factors  
RT gtp-ases  
RT oncogenic transformations  
RT oncogenic viruses

**ONCOGENIC TRANSFORMATIONS**

INIS: 1999-04-21; ETDE: 1979-07-18

The chemical alterations induced in a cell by  
exposure to carcinogens and leading  
ultimately to the development of a neoplastic  
condition.

UF transformations (oncogenic)  
BT1 cell transformations  
RT carcinogenesis  
RT carcinogens  
RT oncogenes

**ONCOGENIC VIRUSES**

INIS: 1976-03-17; ETDE: 1975-08-19

UF epstein-barr virus  
UF rous sarcoma virus  
UF sv40 virus  
UF tumor viruses  
\*BT1 viruses  
NT1 adenovirus  
NT1 leukemia viruses  
NT1 polyoma virus  
RT carcinogenesis  
RT leukemia  
RT oncogenes

**ONCOVIN**

INIS: 1976-05-07; ETDE: 1976-08-04

UF vincristine sulfate  
\*BT1 alkaloids  
\*BT1 antimetabolic drugs

**ONDULATOR RADIATION**

\*BT1 bremsstrahlung

**one-boson-exchange model**

USE obe model

**ONE-DIMENSIONAL****CALCULATIONS**

UF 1-dimensional calculations  
UF calculations (1-dimensional)  
RT adjoint difference method  
RT mathematics

**ONE-GROUP THEORY**

\*BT1 neutron transport theory

**ONE-NUCLEON TRANSFER REACTIONS**

\*BT1 transfer reactions

**ONIKOBE GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1975-11-28

BT1 geothermal fields  
RT japan

**ONIONS**

1999-08-10

\*BT1 liliopsida  
\*BT1 vegetables  
NT1 allium cepa  
RT bulbs  
RT hylemya antiqua  
RT sprout inhibition

**onsager principle**

USE onsager relations

**ONSAGER RELATIONS**

UF onsager principle  
UF onsager symmetry relations  
RT irreversible processes  
RT pressure gradients  
RT temperature gradients  
RT thermodynamics

**onsager symmetry relations**

USE onsager relations

**ONSHORE SITES**

INIS: 1992-10-05; ETDE: 1979-12-10

To be used only in conjunction with offshore  
sites if the paper discusses both.

RT offshore sites

**ONSHORE BAY**

INIS: 2000-04-12; ETDE: 1977-06-02

\*BT1 atlantic ocean  
\*BT1 bays  
RT north carolina  
RT south atlantic bight

**ONTARIO**

\*BT1 canada  
NT1 chalk river  
NT1 deep river  
NT1 elliot lake  
RT ottawa river  
RT st lawrence river

**ontario phwr pickering-1 reactor**

2000-04-12

USE pickering-1 reactor

**ontario phwr pickering-2 reactor**

2000-04-12

USE pickering-2 reactor

**ontario phwr pickering-3 reactor**

2000-04-12

USE pickering-3 reactor

**ontario phwr pickering-4 reactor**

2000-04-12

USE pickering-4 reactor

**ontario phwr pickering-5 reactor**

INIS: 1977-11-21; ETDE: 2002-04-17

USE pickering-5 reactor

**ontario phwr pickering-6 reactor**

INIS: 1977-11-21; ETDE: 2002-04-17

USE pickering-6 reactor

**ontario phwr pickering-7 reactor**

INIS: 1977-11-21; ETDE: 2002-04-17

USE pickering-7 reactor

**ontario phwr pickering-8 reactor**

INIS: 1977-11-21; ETDE: 2002-04-17

USE pickering-8 reactor

**ONTOGENESIS**

1996-04-30

UF embryonic development  
RT animal growth  
RT apoptosis  
RT cell differentiation

RT embryos  
RT fetuses  
RT genotype  
RT growth factors  
RT metamorphosis  
RT morphogenesis  
RT phenotype  
RT zygotes

**ONUMA GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields  
RT hachimantai  
RT japan

**OOCYTES**

BT1 germ cells  
RT ova

**OOGENESIS**

BT1 gametogenesis  
RT oogonia  
RT ova  
RT ovaries  
RT reproduction

**OOGONIA**

INIS: 1975-11-07; ETDE: 1975-12-16

BT1 germ cells  
RT oogenesis

**OPACITY**

UF optical density  
UF transparency  
SF absorptivity (optical)  
\*BT1 optical properties  
RT attenuation  
RT light transmission  
RT schlieren method  
RT transmission  
RT visibility  
RT visible radiation

**OPAL REACTOR**

2005-07-22

Open Pool Australian Light water reactor,  
ANSTO, Lucas Heights site, Sydney, Australia.

UF australian replacement research  
reactor  
\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 thermal reactors

**OPALINUS CLAY**

2009-01-29

\*BT1 clays  
RT radioactive waste disposal  
RT underground disposal

**OPALS**

INIS: 1999-03-03; ETDE: 1980-03-04

An amorphous form of silica containing a  
varying portion of water occurring in nearly all  
colors.

\*BT1 silica

**OPE MODEL**

UF pion-exchange model  
\*BT1 obe model  
NT1 electric born model  
RT ope potential

**OPE POTENTIAL**

BT1 potentials  
NT1 gammel-thaler potential  
RT nucleon-nucleon potential  
RT nucleons  
RT ope model

**OPEC**

INIS: 1997-01-06; ETDE: 1975-08-19

Organization of Oil Exporting Countries.

- BT1 international organizations
- BT1 oil-exporting countries
- RT algeria
- RT cartels
- RT ecuador
- RT gabon
- RT indonesia
- RT iran
- RT iraq
- RT kuwait
- RT libyan arab jamahiriya
- RT middle east
- RT nigeria
- RT opec
- RT petroleum
- RT qatar
- RT saudi arabia
- RT united arab emirates
- RT venezuela

**open-circuit voltage**

2006-01-19

- USE electric potential

**OPEN CONFIGURATIONS**

- UF magnetic traps (open)
- BT1 magnetic field configurations
- NT1 baseball seam configurations
- NT1 cusped geometries
- NT1 magnetic mirror configurations
  - NT2 tlm configurations
- NT1 minimum-b configurations
- RT open plasma devices

**OPEN-CYCLE COOLING SYSTEMS**

1977-09-06

- UF wet-type cooling towers
- \*BT1 cooling systems
- RT coolant loops
- RT cooling towers
- RT open-cycle systems
- RT reactor cooling systems

**OPEN-CYCLE MHD GENERATORS**

- \*BT1 mhd generators
- RT closed-cycle mhd generators

**OPEN-CYCLE SYSTEMS**

INIS: 2000-04-12; ETDE: 1975-12-16

- RT lift cycles
- RT open-cycle cooling systems

**open-flow collectors**

INIS: 2000-04-12; ETDE: 1978-09-11

- USE trickle-type collectors

**OPEN FUEL CYCLE**

2018-03-05

Nuclear fuel cycle where the spent fuel is not reprocessed.

- BT1 fuel cycle
- RT closed fuel cycle

**OPEN-LOOP CONTROL**

INIS: 1976-09-06; ETDE: 1976-11-01

Without feedback.

- BT1 control

**open pit mining**

INIS: 1975-11-07; ETDE: 2002-02-27

- USE surface mining

**OPEN PLASMA DEVICES**

- BT1 thermonuclear devices
- NT1 baseball devices
- NT1 gdt device
- NT1 linear pinch devices
  - NT2 linear hard core pinch devices
  - NT2 linear screw pinch devices

NT2 linear theta pinch devices

- NT3 isar devices
- NT3 scylla devices
- NT2 linear z pinch devices
- NT1 magnetic mirrors
  - NT2 2x devices
  - NT2 alicé
  - NT2 beta ii devices
  - NT2 bumpy tori
    - NT3 elmo bumpy torus
  - NT2 burnout devices
  - NT2 circe devices
  - NT2 deca devices
  - NT2 elmo devices
    - NT3 elmo bumpy torus
  - NT2 gdt device
  - NT2 gol-3 device
  - NT2 imp device
  - NT2 mftf devices
  - NT2 ogra
  - NT2 phoenix devices
  - NT2 pleiade device
  - NT2 reversed-field mirrors
  - NT2 tandem mirrors
    - NT3 gamma 10 devices
    - NT3 phaedrus mirror devices
    - NT3 tara devices
    - NT3 tmx devices
  - NT1 plasma focus devices
    - NT2 pf-1000 device
    - NT2 pf-3 device
  - NT1 q devices
    - NT2 helios devices
    - NT2 qp devices
- RT open configurations

**OPENINGS**

- NT1 apertures
- NT1 doors
  - NT2 storm doors
- NT1 orifices
- NT1 stomata
- NT1 windows
  - NT2 storm windows
- RT boreholes
- RT caves
- RT cavities
- RT craters
- RT ducts
- RT mine shafts
- RT shutters
- RT vents

**OPERATING COST**

INIS: 1982-12-03; ETDE: 1979-02-23

- BT1 cost
- RT capitalized cost
- RT economic analysis

**OPERATING LICENSES**

INIS: 1976-12-08; ETDE: 1978-03-08

- BT1 licenses
- RT licensing procedures
- RT licensing regulations

**operating systems (computer)**

INIS: 1988-11-16; ETDE: 2002-04-17

- USE executive codes

**OPERATION**

- NT1 reactor operation
  - NT2 reactor maintenance
- RT maintenance
- RT motor vehicle operators
- RT standby mode
- RT start-up

**operation (fission reactor)**

INIS: 1982-11-30; ETDE: 2002-04-17

- USE reactor operation

**operation (reactor)**

2000-04-12

- USE reactor operation

**OPERATIONAL AMPLIFIERS**

- \*BT1 amplifiers

**operations offices**

INIS: 2000-04-12; ETDE: 1983-03-24

- USE us doe field offices

**operations research**

INIS: 1986-07-09; ETDE: 1982-09-10

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE decision making
- SEE input-output analysis
- SEE management
- SEE mathematical models
- SEE optimization

**OPERATOR PRODUCT EXPANSION**

INIS: 1988-11-16; ETDE: 1988-12-05

- BT1 series expansion
- RT gauge invariance
- RT quantum operators

**operators (mathematical)**

- USE mathematical operators

**operators (nuclear facilities)**

INIS: 1976-12-08; ETDE: 2002-04-17

- USE nuclear operators

**operators (quantum field theory)**

INIS: 1993-11-09; ETDE: 2002-04-17

- USE quantum operators

**operators (quantum mechanical)**

- USE quantum operators

**OPHTHALMOLOGY**

- BT1 medicine
- RT eyes
- RT sense organs diseases

**opiates**

INIS: 2000-04-12; ETDE: 1981-04-20

- USE narcotics

**OPIUM**

INIS: 2000-04-12; ETDE: 1979-03-29

- \*BT1 analgesics
- \*BT1 narcotics
- NT1 morphine
  - NT2 thebaine
- RT papaver somniferum

**opix process**

INIS: 2000-04-12; ETDE: 1980-03-29

Separation of trivalent actinides and rare earths from other fission products in HLW by oxalate precipitation followed by ion exchange.

(Prior to April 1994, this was a valid ETDE descriptor.)

- USE radioactive waste processing

**opossum**

- USE marsupials

**OPPENHEIMER-PHILLIPS****PROCESS**

- RT direct reactions
- RT nuclear reactions
- RT stripping

**OPTICAL ACTIVITY**

INIS: 1977-06-13; ETDE: 1976-02-19

The ability to rotate the plane of vibration of polarized light.

- UF activity (optical)

\*BT1 optical properties  
 RT crystal structure  
 RT molecular structure  
 RT polarization  
 RT stereochemistry

**optical antipodes**

INIS: 1994-06-27; ETDE: 1976-02-23  
 USE enantiomorphs

**optical computers**

INIS: 2000-04-12; ETDE: 1986-02-21  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE computers

**optical density**

USE opacity

**OPTICAL DEPTH CURVE**

INIS: 1975-08-22; ETDE: 1976-08-24

\*BT1 diagrams  
 NT1 spectroscopic curve of growth  
 RT absorption spectra  
 RT cosmic gases  
 RT line broadening  
 RT optical properties  
 RT oscillator strengths

**OPTICAL DISPERSION**

RT diffraction  
 RT optics  
 RT refraction  
 RT refractive index

**OPTICAL EQUIPMENT**

1975-11-07

UF optical scanners  
 UF scanners (optical)  
 BT1 equipment  
 NT1 optoelectronic devices  
 RT antireflection coatings  
 RT fiber optics  
 RT optical fibers  
 RT parametric oscillators

**OPTICAL FIBERS**

INIS: 1982-09-21; ETDE: 1982-03-10  
 Long, thin threads of transparent materials used to transmit light.  
 UF light guides  
 BT1 fibers  
 RT fiber optics  
 RT optical equipment  
 RT optical systems

**OPTICAL FILTERS**

BT1 filters  
 RT optical systems

**optical isomers**

1994-06-27  
 USE enantiomorphs

**OPTICAL MICROSCOPES**

BT1 microscopes

**OPTICAL MICROSCOPY**

BT1 microscopy  
 NT1 scanning light microscopy

**OPTICAL MODELS**

1996-01-24

UF feshbach-porter-weisskopf model  
 UF kisslinger model  
 UF models (optical)  
 BT1 mathematical models  
 RT atomic models  
 RT cloudy crystal ball model  
 RT fsc approximation  
 RT nuclear models  
 RT nuclear potential

RT particle models  
 RT pery-buck model  
 RT woods-saxon potential

**OPTICAL MODES**

UF modes (optical)  
 BT1 oscillation modes

**OPTICAL PROPERTIES**

BT1 physical properties  
 NT1 brightness  
 NT1 color  
 NT1 emissivity  
 NT1 luminosity  
 NT1 opacity  
 NT1 optical activity  
 NT1 reflectivity  
 NT1 refractive index  
 NT1 spectral reflectance  
 RT absorptivity  
 RT birefringence  
 RT dichroism  
 RT diffraction  
 RT electro-optical effects  
 RT fiber optics  
 RT geometrical aberrations  
 RT light scattering  
 RT light transmission  
 RT magneto-optical effects  
 RT mirrors  
 RT optical depth curve  
 RT optical systems  
 RT optics  
 RT reflective coatings  
 RT refraction  
 RT spectroscopic curve of growth  
 RT visibility

**OPTICAL PUMPING**

2000-03-28

UF pumping (laser)  
 BT1 pumping  
 RT double resonance methods  
 RT electrical pumping  
 RT excitation  
 RT lasers  
 RT nuclear pumping  
 RT stimulated emission

**OPTICAL PYROMETERS**

\*BT1 pyrometers  
 RT temperature measurement

**OPTICAL RADAR**

INIS: 1992-04-13; ETDE: 1979-01-30

UF lidar  
 \*BT1 radar  
 RT laser radiation  
 RT lasers  
 RT optical systems  
 RT remote sensing

**OPTICAL REFLECTION**

1994-09-08

BT1 reflection  
 RT optics

**optical scanners**

INIS: 2000-04-12; ETDE: 1977-04-12  
 Single-unit combinations of a light source and phototube for scanning moving strips of paper or other materials in photoelectric side-register control systems.  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE image scanners  
 USE optical equipment

**OPTICAL SPECTROMETERS**

\*BT1 spectrometers

**OPTICAL SYSTEMS**

NT1 periscopes  
 RT antireflection coatings  
 RT beam optics  
 RT diffraction gratings  
 RT fiber optics  
 RT lenses  
 RT lighting systems  
 RT mirrors  
 RT optical fibers  
 RT optical filters  
 RT optical properties  
 RT optical radar  
 RT optics  
 RT remote viewing equipment  
 RT shutters  
 RT solar reflectors  
 RT telescopes

**OPTICAL THEOREM**

RT small angle scattering

**OPTICALLY THICK PLASMA**

BT1 plasma

**OPTICALLY THIN PLASMA**

BT1 plasma

**OPTICS**

INIS: 1978-01-13; ETDE: 1976-04-19

NT1 fiber optics  
 NT1 nonlinear optics  
 NT1 quantum optics  
 RT beam optics  
 RT illuminance  
 RT incidence angle  
 RT optical dispersion  
 RT optical properties  
 RT optical reflection  
 RT optical systems  
 RT optoelectronic devices  
 RT quantum electronics

**OPTIMAL CONTROL**

INIS: 1976-09-06; ETDE: 1976-11-01

BT1 control  
 RT optimization

**OPTIMIZATION**

(From September 1982 till March 1997 OPERATIONS RESEARCH was a valid ETDE descriptor.)

SF operations research  
 NT1 minimization  
 RT alara  
 RT augmentation  
 RT control  
 RT control systems  
 RT control theory  
 RT dynamic programming  
 RT econometrics  
 RT genetic algorithms  
 RT linear programming  
 RT mitigation  
 RT modifications  
 RT nonlinear programming  
 RT optimal control  
 RT parametric analysis  
 RT planning  
 RT variational methods

**optoacoustic cells**

INIS: 1978-02-23; ETDE: 1978-05-01

USE photoacoustic spectrometers

**OPTOELECTRONIC DEVICES**

2015-02-24

Electrical devices that convert electrical signals to photons or photons to electrical signals

\*BT1 electronic equipment

\*BT1 optical equipment  
 BT1 transducers  
 RT fiber optics  
 RT light transmission  
 RT optics  
 RT quantum electronics  
 RT semiconductor devices  
 RT visible radiation

**OR-CEF REACTOR**

ORNL, Oak Ridge, Tennessee, USA.

UF *cef-or reactor*  
 UF *critical experiments facility oak ridge*  
 UF *oak ridge critical experiments facility*  
 \*BT1 zero power reactors

**ORAL ADMINISTRATION**

UF *gastric administration*  
 BT1 intake  
 RT ingestion  
 RT intestinal absorption  
 RT radionuclide administration

**ORAL CAVITY**

UF *lips*  
 UF *mouth*  
 BT1 digestive system  
 NT1 teeth  
 NT1 tongue  
 RT face  
 RT head  
 RT ingestion  
 RT pharynx  
 RT salivary glands

**orange event**

INIS: 1994-10-14; ETDE: 1976-03-12  
 A test made during PROJECT HARDTACK.  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE atmospheric explosions  
 USE nuclear explosions

**orange-type spectrometers**

USE flat magnetic spectrometers

**ORANGES**

\*BT1 fruits  
 RT citrus

**ORAU**

UF *oak ridge associated universities*  
 \*BT1 us organizations

**ORBIT STABILITY**

BT1 stability  
 RT beam dynamics

**ORBITAL ANGULAR MOMENTUM**

BT1 angular momentum  
 RT fractional-parentage coefficients  
 RT j-j coupling  
 RT l-s coupling  
 RT spin

**ORBITAL MOMENTUM****OPERATORS**

\*BT1 angular momentum operators

**ORBITAL SOLAR POWER PLANTS**

1993-02-18

UF *satellite power system*  
 UF *satellite solar power stations*  
 \*BT1 solar power plants  
 RT orbital solar reflectors  
 RT satellites

**ORBITAL SOLAR REFLECTORS**

INIS: 2000-04-12; ETDE: 1980-02-11

*For providing concentrated solar radiation to ground-based solar power plants.*

\*BT1 solar reflectors  
 RT orbital solar power plants

RT solar power plants

**orbiting geophysical observatory**

INIS: 1993-11-09; ETDE: 2002-04-17  
 USE ogo satellites

**ORBITING SOLAR OBSERVATORIES**

BT1 satellites  
 RT space flight  
 RT sun

**ORBITS**

*For electron orbits in atoms use ELECTRONIC STRUCTURE.*

RT beam dynamics  
 RT limit cycle  
 RT precession  
 RT trajectories

**orc flash pyrolysis process**

INIS: 2000-04-12; ETDE: 1977-06-02  
 USE occidental flash pyrolysis process

**ORDER-DISORDER MODEL**

INIS: 1977-09-15; ETDE: 1977-11-10  
 \*BT1 nuclear models  
 RT fission

**ORDER-DISORDER****TRANSFORMATIONS**

BT1 phase transformations  
 RT crystal-phase transformations  
 RT ising model  
 RT superlattices

**ORDER PARAMETERS**

BT1 dimensionless numbers  
 RT crystal structure  
 RT wilson loop

**ORDERS**

INIS: 2000-04-12; ETDE: 1997-03-31  
 (From December 1979 till March 1997 CONSENT ORDERS was a valid ETDE descriptor.)

UF *consent orders*

BT1 administrative procedures

**ordnance**

INIS: 2000-04-12; ETDE: 1975-08-19  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE military equipment

**ORDOVICIAN PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19  
 \*BT1 paleozoic era

**ORE COMPOSITION**

UF *abundance (mineral)*  
 RT abundance  
 RT availability  
 RT mining  
 RT natural occurrence  
 RT ores

**ORE CONCENTRATES**

UF *concentrates (ore)*  
 UF *enriched materials (ores)*  
 NT1 uranium concentrates  
 RT ore enrichment

**ORE ENRICHMENT**

1996-07-08

UF *enrichment (ores)*  
 BT1 enrichment  
 \*BT1 ore processing  
 BT1 separation processes  
 RT flotation  
 RT leaching  
 RT ore concentrates

**ORE PROCESSING**

2000-02-01

UF *processing (ores)*  
 BT1 processing  
 NT1 ore enrichment  
 NT1 retorting  
 NT2 in-situ retorting  
 RT crushing  
 RT flotation  
 RT in-situ processing  
 RT leaching  
 RT mill tailings  
 RT ores  
 RT process control  
 RT radiometric sorting  
 RT refining  
 RT slurries  
 RT tailings  
 RT thiobacillus oxidans  
 RT uranium concentrates

**ore reserves**

*Index by coordination of RESERVES with ORES or with the descriptor for a specific type of ore.*

USE reserves

**OREGON**

1997-06-17

\*BT1 usa  
 NT1 mt hood  
 RT cascade mountains  
 RT columbia river basin  
 RT klamath falls  
 RT snake river plain  
 RT us west coast

**oregon state triga reactor**

USE ostr reactor

**ORELA**

*Oak Ridge Electron Linear Accelerator.*

\*BT1 linear accelerators

**ORES**

1996-07-23

(Prior to March 1997 RHENIUM ORES and SELENIUM ORES were valid ETDE descriptors.)

UF *rhenium ores*  
 UF *selenium ores*  
 NT1 aluminium ores  
 NT2 bauxite  
 NT1 bismuth ores  
 NT1 chromium ores  
 NT1 cobalt ores  
 NT1 copper ores  
 NT1 gold ores  
 NT1 iron ores  
 NT2 hematite  
 NT2 limonite  
 NT2 magnetite  
 NT2 siderite  
 NT1 lead ores  
 NT1 manganese ores  
 NT1 molybdenum ores  
 NT1 nickel ores  
 NT1 niobium ores  
 NT1 polymetallic ores  
 NT1 silver ores  
 NT1 sulfur ores  
 NT1 tantalum ores  
 NT1 tellurium ores  
 NT1 thorium ores  
 NT1 tin ores  
 NT1 titanium ores  
 NT1 tungsten ores  
 NT1 uranium ores  
 NT2 caldasite  
 NT2 uranium concentrates

NT1 vanadium ores  
 NT1 yttrium ores  
 NT1 zinc ores  
 NT1 zirconium ores  
 RT environmental materials  
 RT geologic deposits  
 RT minerals  
 RT ore composition  
 RT ore processing

**organ cultures**

USE tissue cultures

**organelles**

INIS: 2000-04-12; ETDE: 1985-10-10

USE cell constituents

**ORGANIC ACIDS**

1996-06-26

Not for the concepts covered by NUCLEIC

ACIDS and NUCLEOTIDES.

UF acids (organic)

UF cacodylic acid

UF sulfinic acids

BT1 organic compounds

NT1 arsonic acids

NT2 arsenazo

NT1 boronic acids

NT1 carboxylic acids

NT2 amino acids

NT3 alanines

NT4 alanine-alpha

NT5 alanine-l

NT4 alanine-beta

NT3 aminobutyric acid

NT3 aminolevulinic acid

NT3 anthranilic acid

NT3 arginine

NT3 asparagine

NT3 aspartic acid

NT3 betaine

NT3 carnitine

NT3 cdta

NT3 citrulline

NT3 creatine

NT3 cysteine

NT3 cystine

NT3 dcta

NT3 diiodotyrosine

NT3 dopa

NT3 dtpa

NT3 eddha

NT3 edta

NT3 ethionine

NT3 folic acid

NT3 glutamic acid

NT4 pyridoxylideneglutamate

NT3 glutamine

NT3 glycine

NT3 glycylglycine

NT3 hedta

NT3 heida

NT3 hippuric acid

NT3 histidine

NT3 homocysteine

NT3 hydroxyproline

NT3 hydroxytryptophan

NT3 kynurenine

NT3 leucine

NT3 lysine

NT3 methionine

NT3 methyl red

NT3 methyl tyrosine

NT3 mimosine

NT3 mpg

NT3 nta

NT3 ornithine

NT3 paba

NT3 pantothenic acid

NT3 penicillamine

NT3 phenylalanine  
 NT3 phosphocreatine  
 NT3 proline  
 NT3 sarcosine  
 NT3 serine  
 NT3 tetaha  
 NT3 threonine  
 NT3 thyronine  
 NT3 thyroxine  
 NT3 tryptophan  
 NT3 tyrosine  
 NT3 valine

NT2 bile acids

NT3 cholic acid

NT2 carminic acid

NT2 dicarboxylic acids

NT3 adipic acid

NT3 fumaric acid

NT3 glutaric acid

NT3 itaconic acid

NT3 maleic acid

NT3 malonic acid

NT3 oxalic acid

NT3 phthalic acid

NT3 sebacic acid

NT3 succinic acid

NT3 terephthalic acid

NT2 egta

NT2 glyoxylic acid

NT2 heterocyclic acids

NT3 bilirubin

NT3 biotin

NT3 histidine

NT3 hydroxyproline

NT3 lysergic acid

NT3 nicotinic acid

NT3 orotic acid

NT3 picolinic acid

NT3 porphyrins

NT4 chlorins

NT4 chlorophyll

NT4 hematoporphyrins

NT4 heme

NT4 hemoglobin

NT5 methemoglobin

NT4 hemosiderin

NT4 myoglobin

NT4 protoporphyrins

NT3 proline

NT3 rhodamines

NT3 thioctic acid

NT3 tryptophan

NT3 urocanic acid

NT2 hydroxy acids

NT3 acetylsalicylic acid

NT3 benzilic acid

NT3 carnitine

NT3 citric acid

NT3 diiodotyrosine

NT3 dopa

NT3 eddha

NT3 eosin

NT3 fluorescein

NT4 erythrosine

NT3 galacturonic acid

NT3 gallic acid

NT3 gibberellic acid

NT3 gluconic acid

NT3 glucuronic acid

NT3 glyceric acid

NT3 glycolic acid

NT3 hedta

NT3 heida

NT3 hydroxyproline

NT3 hydroxytryptophan

NT3 lactic acid

NT3 malic acid

NT3 mandelic acid

NT3 methyl tyrosine

NT3 mevalonic acid

NT3 pantothenic acid

NT3 rose bengal

NT3 salicylic acid

NT3 serine

NT3 shikimic acid

NT3 tartaric acid

NT3 threonine

NT3 thyronine

NT3 tyrosine

NT2 keto acids

NT3 acetoacetic acid

NT3 kynurenine

NT3 levulinic acid

NT3 pyruvic acid

NT2 mellitic acid

NT2 monocarboxylic acids

NT3 abscisic acid

NT3 acetic acid

NT3 acrylic acid

NT3 arachidonic acid

NT3 benzoic acid

NT3 butyric acid

NT3 chlorambucil

NT3 cinnamic acid

NT3 crotonic acid

NT3 decanoic acid

NT3 dodecanoic acid

NT3 eicosanoic acid

NT3 formic acid

NT3 glycolic acid

NT3 heptanoic acid

NT3 hexadecanoic acid

NT3 hexanoic acid

NT3 isobutyric acid

NT3 isovaleric acid

NT3 linoleic acid

NT3 linolenic acid

NT3 methacrylic acid

NT3 nicotinic acid

NT3 nonanoic acid

NT3 octadecanoic acid

NT3 octanoic acid

NT3 oleic acid

NT3 pethidine

NT3 pivalic acid

NT3 propionic acid

NT3 sorbic acid

NT3 tetradecanoic acid

NT3 trichloroacetic acid

NT3 uronic acids

NT3 valeric acid

NT2 tannic acid

NT1 coal tar acids

NT1 fulvic acids

NT1 humic acids

NT1 mdpa

NT1 phosphinic acids

NT1 phosphonic acids

NT1 phytic acid

NT1 shale tar acids

NT1 sulfonic acids

NT2 arsenazo

NT2 bromosulfophthalein

NT2 chromotropic acid

NT2 eriochrome dyes

NT2 evans blue

NT2 ferron

NT2 methyl orange

NT2 nitroso-r salt

NT2 sulfanilic acid

NT2 taurine

NT2 thorin

NT2 tiron

NT2 trypan blue

NT2 unithiol

NT1 thioic acids

RT acidification

RT anhydrides



RT chloranilic acid  
 RT hydrazides  
 RT hydroxamic acids  
 RT nucleotides  
 RT ph value  
 RT picric acid  
 RT rhodizonic acid  
 RT sialic acid  
 RT soaps  
 RT uric acid

**ORGANIC ARSENIC COMPOUNDS**

1999-06-18

UF arsonates  
 BT1 organic compounds  
 NT1 arsonic acids  
 NT2 arsenazo  
 RT arsenic compounds

**ORGANIC BORON COMPOUNDS**

BT1 organic compounds  
 NT1 carboranes  
 RT boron compounds

**ORGANIC BROMINE COMPOUNDS**

UF bromamines  
 UF brominated alicyclic hydrocarbons  
 UF brominated hydrocarbons  
 \*BT1 organic halogen compounds  
 NT1 brominated aliphatic hydrocarbons  
 NT2 bromoform  
 NT2 methyl bromide  
 NT1 brominated aromatic hydrocarbons  
 NT1 bromosulfophthalein  
 NT1 bromouracils  
 NT2 budr  
 NT1 eosin  
 RT bromine compounds

**ORGANIC CHLORINE COMPOUNDS**

1996-10-23

UF chlorinated hydrocarbons  
 UF iodochloroquine  
 UF thiophosgene  
 \*BT1 organic halogen compounds  
 NT1 chloral  
 NT1 chlorambucil  
 NT1 chloramines  
 NT1 chloranil  
 NT1 chlorinated alicyclic hydrocarbons  
 NT2 lindane  
 NT1 chlorinated aliphatic hydrocarbons  
 NT2 carbon tetrachloride  
 NT2 chloroform  
 NT2 methyl chloride  
 NT2 pvc  
 NT2 trichloroacetic acid  
 NT2 vinyl chloride  
 NT1 chlorinated aromatic hydrocarbons  
 NT2 aldrin  
 NT2 polychlorinated biphenyls  
 NT1 chlorofluorocarbons  
 NT1 chlorouracils  
 NT1 chlorpromazine  
 NT1 ddt  
 NT1 kel-f  
 NT1 methylene chloride  
 NT1 neoprene  
 NT1 nitrogen mustard  
 NT1 phosgene  
 NT1 rose bengal  
 RT atrazine  
 RT chlorine compounds  
 RT kepone

**ORGANIC COMPOUNDS**

UF compounds (organic)  
 UF voc  
 SF chemicals  
 SF renewable resources

NT1 aldehydes  
 NT2 acetaldehyde  
 NT2 acrolein  
 NT2 aldosterone  
 NT2 arabinose  
 NT2 benzaldehyde  
 NT2 chloral  
 NT2 deoxyribose  
 NT2 formaldehyde  
 NT2 furfural  
 NT2 galactose  
 NT2 galacturonic acid  
 NT2 glucose  
 NT2 glucuronic acid  
 NT2 glyoxal  
 NT2 glyoxylic acid  
 NT2 mannose  
 NT2 pyridoxal  
 NT2 ribose  
 NT2 xylose  
 NT1 alkaloids  
 NT2 atropine  
 NT2 cocaine  
 NT2 codeine  
 NT2 colchicine  
 NT2 ephedrine  
 NT2 ergotamine  
 NT2 eserine  
 NT2 lysergic acid  
 NT2 morphine  
 NT3 thebaine  
 NT2 nicotine  
 NT2 oncovin  
 NT2 pilocarpine  
 NT2 quinine  
 NT2 reserpine  
 NT2 strychnine  
 NT2 vinblastine  
 NT1 amines  
 NT2 acridine orange  
 NT2 adenines  
 NT3 kinetin  
 NT2 aminopterin  
 NT2 amphetamines  
 NT3 benzedrine  
 NT2 aniline  
 NT2 benzidine  
 NT2 beta-aminoethyl isothiouraea  
 NT2 bph  
 NT2 cadaverine  
 NT2 catecholamines  
 NT2 chlorambucil  
 NT2 chloramines  
 NT2 chlorpromazine  
 NT2 cupferron  
 NT2 cystamine  
 NT2 cystaphos  
 NT2 cysteamine  
 NT2 cytosine  
 NT2 deferroxamine  
 NT2 dopamine  
 NT2 ephedrine  
 NT2 flavines  
 NT3 acriflavine  
 NT3 proflavine  
 NT2 gammaphos  
 NT2 guanine  
 NT2 hexosamines  
 NT3 glucosamine  
 NT2 histamine  
 NT2 hydroxamic acids  
 NT3 benzohydroxamic acid  
 NT2 hydroxylamine  
 NT2 imipramine  
 NT2 luminol  
 NT2 melamine  
 NT2 methyl orange  
 NT2 methyl violet  
 NT2 methylamine

NT2 methylene blue  
 NT2 morpholines  
 NT2 mucopolysaccharides  
 NT3 chitin  
 NT3 chondroitin  
 NT3 heparin  
 NT3 hyaluronic acid  
 NT2 nitrogen mustard  
 NT2 nitrosamines  
 NT2 oximes  
 NT3 benzoinoxime  
 NT3 dimethylglyoxime  
 NT2 piperidines  
 NT3 dipyridamole  
 NT3 pethidine  
 NT3 triacetoneamine-n-oxyl  
 NT2 polycyclic aromatic amines  
 NT2 primene  
 NT2 putrescine  
 NT2 pyrrolidines  
 NT3 hydroxyproline  
 NT3 nicotine  
 NT3 proline  
 NT2 rhodamines  
 NT2 spermidine  
 NT2 spermine  
 NT2 sulfanilic acid  
 NT2 taurine  
 NT2 tda  
 NT2 teta  
 NT2 tetryl  
 NT2 thiamine  
 NT2 thionine  
 NT2 toluidines  
 NT2 tridodecylamine  
 NT2 trioctylamine  
 NT2 trypan blue  
 NT2 tryptamines  
 NT3 melatonin  
 NT3 serotonin  
 NT4 bufotenine  
 NT2 tyramine  
 NT2 urotropin  
 NT1 antibiotics  
 NT2 actinomycin  
 NT2 bleomycin  
 NT2 chloramphenicol  
 NT2 cycloheximide  
 NT2 doxorubicin  
 NT2 erythromycin  
 NT2 mitomycin  
 NT2 neocarcinostatin  
 NT2 neomycin  
 NT2 penicillin  
 NT2 puromycin  
 NT2 streptomycin  
 NT2 streptozocin  
 NT2 tetracyclines  
 NT3 oxytetracycline  
 NT2 valinomycin  
 NT1 carbohydrates  
 NT2 glycosides  
 NT3 cardiac glycosides  
 NT4 digitalis glycosides  
 NT5 digitoxin  
 NT5 digoxin  
 NT4 strophanthins  
 NT5 ouabain  
 NT3 saponins  
 NT3 strophanthin  
 NT3 uridine diphosphoglucose  
 NT2 saccharides  
 NT3 glycolipids  
 NT4 cerebrosides  
 NT4 gangliosides  
 NT3 glycoproteins  
 NT4 avidin  
 NT4 glucoproteins  
 NT5 lactoferrin

- NT5 ovalbumin  
 NT4 luteinizing hormone  
 NT3 monosaccharides  
 NT4 erythritol  
 NT4 hexoses  
 NT5 fructose  
 NT5 galactose  
 NT5 glucose  
 NT5 hexosamines  
 NT6 glucosamine  
 NT5 mannose  
 NT5 sorbose  
 NT4 inositols  
 NT5 inositol  
 NT4 pentoses  
 NT5 arabinose  
 NT5 deoxyribose  
 NT5 ribose  
 NT5 ribulose  
 NT5 xylose  
 NT4 sorbitol  
 NT3 oligosaccharides  
 NT4 disaccharides  
 NT5 cellobiose  
 NT5 lactose  
 NT5 maltose  
 NT5 saccharose  
 NT4 raffinose  
 NT3 polysaccharides  
 NT4 agar  
 NT4 alginic acid  
 NT4 cellophane  
 NT4 cellulose  
 NT4 dextran  
 NT4 dextrin  
 NT4 glycogen  
 NT4 gum acacia  
 NT4 hemicellulose  
 NT5 xylans  
 NT4 inulin  
 NT4 lignin  
 NT4 lipopolysaccharides  
 NT4 mucopolysaccharides  
 NT5 chitin  
 NT5 chondroitin  
 NT5 heparin  
 NT5 hyaluronic acid  
 NT4 mucoproteins  
 NT5 haptoglobins  
 NT5 intrinsic factor  
 NT5 phytohemagglutinin  
 NT4 nitrocellulose  
 NT4 pectins  
 NT4 rayon  
 NT4 starch  
 NT4 viscose  
 NT4 xanthan gum  
 NT1 carbonic acid derivatives  
 NT2 carbamates  
 NT3 dedtc  
 NT3 urethane  
 NT2 carbazides  
 NT2 carbazones  
 NT3 dithizone  
 NT2 cyanamides  
 NT2 cyanates  
 NT2 dpca  
 NT2 guanidines  
 NT3 mibg  
 NT2 isocyanates  
 NT2 isonitriles  
 NT2 isothiocyanates  
 NT2 mercaptoethylguanidine  
 NT2 methyl nitrosoarea  
 NT2 phosgene  
 NT2 semicarbazides  
 NT2 semicarbazones  
 NT2 thiocyanates  
 NT3 ammonium thiocyanates  
 NT2 thioureas  
 NT3 beta-aminoethyl isothiourea  
 NT3 thiourea  
 NT2 urea  
 NT1 coal tar bases  
 NT1 esters  
 NT2 acetylcholine  
 NT2 carbonic acid esters  
 NT2 carboxylic acid esters  
 NT3 acetic acid esters  
 NT4 methyl acetate  
 NT4 polyvinyl acetate  
 NT4 vinyl acetate  
 NT3 acetoacetic acid esters  
 NT3 acrylic acid esters  
 NT3 bromosulphthalein  
 NT3 carbamic acid esters  
 NT3 citric acid esters  
 NT3 glucoheptonate  
 NT3 malathion  
 NT3 methacrylic acid esters  
 NT3 oxalic acid esters  
 NT3 phenolphthalein  
 NT3 retinoic acid  
 NT2 cellulose esters  
 NT3 nitrocellulose  
 NT2 isocyanic acid esters  
 NT2 lactones  
 NT3 coumarin  
 NT3 gibberellic acid  
 NT2 nitric acid esters  
 NT3 nitrocellulose  
 NT3 nitroglycerin  
 NT3 peroxyacetyl nitrate  
 NT3 petn  
 NT2 nitrous acid esters  
 NT2 phorbol esters  
 NT2 phosphinic acid esters  
 NT2 phospholipids  
 NT3 cardiolipin  
 NT3 lecithins  
 NT3 sphingomyelins  
 NT2 phosphonic acid esters  
 NT3 damp  
 NT3 dhdecmp  
 NT2 phosphoric acid esters  
 NT3 butyl phosphates  
 NT4 dbp  
 NT4 mbp  
 NT4 tbp  
 NT3 hdehp  
 NT3 mdpa  
 NT3 phytic acid  
 NT3 tcp  
 NT2 phthalic acid esters  
 NT2 polyacrylates  
 NT3 lucite  
 NT3 perspex  
 NT3 plexiglas  
 NT3 pmma  
 NT2 polyesters  
 NT3 polyethylene terephthalate  
 NT4 dacron  
 NT4 homalite  
 NT4 mylar  
 NT2 sulfonic acid esters  
 NT3 alkyl benzenesulfonates  
 NT3 ethyl methanesulfonate  
 NT3 methyl methanesulfonate  
 NT3 petroleum sulfonates  
 NT2 sulfuric acid esters  
 NT2 thiophosphoric acid esters  
 NT3 cystaphos  
 NT3 gammaphos  
 NT3 parathion  
 NT2 triglycerides  
 NT3 corn oil  
 NT3 linseed oil  
 NT3 olive oil  
 NT3 peanut oil  
 NT3 soybean oil  
 NT3 triolein  
 NT1 heterocyclic compounds  
 NT2 azaarenes  
 NT3 acridines  
 NT4 acridine orange  
 NT4 flavines  
 NT5 acriflavine  
 NT5 proflavine  
 NT3 carbazoles  
 NT3 indoles  
 NT4 indigo  
 NT4 indocyanine green  
 NT4 lysergic acid  
 NT4 reserpine  
 NT4 strychnine  
 NT4 tryptamines  
 NT5 melatonin  
 NT5 serotonin  
 NT6 bufotenine  
 NT4 tryptophan  
 NT4 vinblastine  
 NT3 phenanthrolines  
 NT4 ferroin  
 NT4 phenanthroline-ortho  
 NT3 pteridines  
 NT4 aminopterin  
 NT4 folic acid  
 NT3 purines  
 NT4 adenines  
 NT5 kinetin  
 NT4 guanine  
 NT4 guanosine  
 NT4 hypoxanthine  
 NT4 inosine  
 NT4 mercaptopurine  
 NT4 xanthines  
 NT5 caffeine  
 NT5 theobromine  
 NT5 theophylline  
 NT5 uric acid  
 NT3 quinolines  
 NT4 ferron  
 NT4 oxine  
 NT4 quinaldine  
 NT2 azines  
 NT3 phenothiazines  
 NT4 chlorpromazine  
 NT4 methylene blue  
 NT3 pyrazines  
 NT4 phenazine  
 NT4 piperazines  
 NT3 pyridazines  
 NT4 phthalazines  
 NT5 luminol  
 NT3 pyridines  
 NT4 acridines  
 NT5 acridine orange  
 NT5 flavines  
 NT6 acriflavine  
 NT6 proflavine  
 NT4 bipyridines  
 NT4 nicotinamide  
 NT4 nicotine  
 NT4 nicotinic acid  
 NT4 picolines  
 NT5 picolinic acid  
 NT4 piperidines  
 NT5 dipyrindamole  
 NT5 pethidine  
 NT5 triacetoneamine-n-oxyl  
 NT4 pyridine  
 NT4 pyridinium compounds  
 NT4 pyridoxal  
 NT4 pyridoxine  
 NT4 pyridoxylidene-glutamate  
 NT4 pyridylazonaphthol  
 NT4 pyridylazoresorcinol

- NT4** quinolines  
**NT5** ferron  
**NT5** oxine  
**NT5** quinaldine  
**NT3** pyrimidines  
**NT4** alloxan  
**NT4** barbiturates  
**NT5** nembutal  
**NT5** phenobarbital  
**NT4** cytidine  
**NT4** cytosine  
**NT4** deoxycytidine  
**NT4** thiamine  
**NT4** thymidine  
**NT5** fluorothymidine  
**NT4** uracils  
**NT5** bromouracils  
**NT6** budr  
**NT5** chlorouracils  
**NT5** deoxyuridine  
**NT5** fluorouracils  
**NT6** fudr  
**NT5** iodouracils  
**NT6** iododeoxyuridine  
**NT5** orotic acid  
**NT5** thiouracil  
**NT5** thymine  
**NT5** uridine  
**NT3** triazines  
**NT4** cyanurates  
**NT4** melamine  
**NT2** azoles  
**NT3** carbazoles  
**NT3** imidazoles  
**NT4** allantoin  
**NT4** benzimidazoles  
**NT4** biotin  
**NT4** creatinine  
**NT4** histamine  
**NT4** histidine  
**NT4** hydantoins  
**NT4** metronidazole  
**NT4** misonidazole  
**NT4** urocanic acid  
**NT3** oxadiazoles  
**NT3** oxazoles  
**NT4** benzoxazoles  
**NT4** popop  
**NT3** pyrazoles  
**NT4** indazoles  
**NT4** pyrazolines  
**NT5** antipyrine  
**NT3** pyrroles  
**NT4** bilirubin  
**NT4** indoles  
**NT5** indigo  
**NT5** indocyanine green  
**NT5** lysergic acid  
**NT5** reserpine  
**NT5** strychnine  
**NT5** tryptamines  
**NT6** melatonin  
**NT6** serotonin  
**NT7** bufotenine  
**NT5** tryptophan  
**NT5** vinblastine  
**NT4** pyrrolidines  
**NT5** hydroxyproline  
**NT5** nicotine  
**NT5** proline  
**NT4** pyrrolidones  
**NT5** pvp  
**NT3** tetrazoles  
**NT4** tetrazolium  
**NT3** thiadiazoles  
**NT3** thiazoles  
**NT4** benzothiazoles  
**NT4** saccharin  
**NT4** thiamine  
**NT3** triazoles  
**NT2** bedt-ttf  
**NT2** dioxane  
**NT2** dioxin  
**NT2** furans  
**NT3** benzofurans  
**NT3** furfural  
**NT3** tetrahydrofuran  
**NT4** mthf  
**NT2** heterocyclic acids  
**NT3** bilirubin  
**NT3** biotin  
**NT3** histidine  
**NT3** hydroxyproline  
**NT3** lysergic acid  
**NT3** nicotinic acid  
**NT3** orotic acid  
**NT3** picolinic acid  
**NT3** porphyrins  
**NT4** chlorins  
**NT4** chlorophyll  
**NT4** hematoporphyrins  
**NT4** heme  
**NT4** hemoglobin  
**NT5** methemoglobin  
**NT4** hemosiderin  
**NT4** myoglobin  
**NT4** protoporphyrins  
**NT3** proline  
**NT3** rhodamines  
**NT3** thioctic acid  
**NT3** tryptophan  
**NT3** urocanic acid  
**NT2** heterocyclic oxygen compounds  
**NT3** pyrans  
**NT4** coumarin  
**NT4** hematoxylin  
**NT4** pyrones  
**NT4** quercetin  
**NT4** tetrahydropyran  
**NT2** imipramine  
**NT2** isoalloxazines  
**NT3** diaphorase  
**NT2** lactones  
**NT3** coumarin  
**NT3** gibberellic acid  
**NT2** morpholines  
**NT2** phthalocyanines  
**NT2** polycyclic sulfur heterocycles  
**NT2** psoralen  
**NT2** tetrathiafulvalene  
**NT2** thionaphthenes  
**NT2** thionine  
**NT2** thiophene  
**NT2** tmtsf  
**NT2** trioxanes  
**NT2** tta  
**NT2** ttf-tenq  
**NT1** hydroaromatics  
**NT2** tetralin  
**NT1** hydrocarbons  
**NT2** alkanes  
**NT3** 2-2-dimethylpropane  
**NT3** 2-methylbutane  
**NT3** 2-methylpropane  
**NT3** butane  
**NT3** cycloalkanes  
**NT4** cyclohexane  
**NT4** decalin  
**NT3** decane  
**NT3** dodecane  
**NT3** ethane  
**NT3** heptane  
**NT3** hexadecane  
**NT3** hexane  
**NT3** methane  
**NT3** octane  
**NT3** paraffin  
**NT3** pentane  
**NT3** propane  
**NT3** squalane  
**NT2** alkenes  
**NT3** 2-methylpropene  
**NT3** butenes  
**NT3** cycloalkenes  
**NT4** cyclopentadiene  
**NT4** norbornadiene  
**NT4** quadricyclene  
**NT3** ethylene  
**NT3** heptenes  
**NT3** hexenes  
**NT3** octenes  
**NT3** pentenes  
**NT3** propylene  
**NT2** alkynes  
**NT3** acetylene  
**NT3** cycloalkynes  
**NT3** propyne  
**NT2** aromatics  
**NT3** acetophenone  
**NT3** alkylated aromatics  
**NT4** cumene  
**NT4** cymene  
**NT4** durene  
**NT4** mesitylene  
**NT4** methylnaphthalenes  
**NT4** styrene  
**NT4** toluene  
**NT4** xylenes  
**NT5** xylene-para  
**NT3** aniline  
**NT3** azaarenes  
**NT4** acridines  
**NT5** acridine orange  
**NT5** flavines  
**NT6** acriflavine  
**NT6** proflavine  
**NT4** carbazoles  
**NT4** indoles  
**NT5** indigo  
**NT5** indocyanine green  
**NT5** lysergic acid  
**NT5** reserpine  
**NT5** strychnine  
**NT5** tryptamines  
**NT6** melatonin  
**NT6** serotonin  
**NT7** bufotenine  
**NT5** tryptophan  
**NT5** vinblastine  
**NT4** phenanthrolines  
**NT5** ferroin  
**NT5** phenanthroline-ortho  
**NT4** pteridines  
**NT5** aminopterin  
**NT5** folic acid  
**NT4** purines  
**NT5** adenines  
**NT6** kinetin  
**NT5** guanine  
**NT5** guanosine  
**NT5** hypoxanthine  
**NT5** inosine  
**NT5** mercaptopurine  
**NT5** xanthines  
**NT6** caffeine  
**NT6** theobromine  
**NT6** theophylline  
**NT6** uric acid  
**NT4** quinolines  
**NT5** ferron  
**NT5** oxine  
**NT5** quinaldine  
**NT3** benzene  
**NT3** benzidine  
**NT3** benzyl alcohol  
**NT3** bibenzyl  
**NT3** biphenyl

- NT3** ddt  
**NT3** divinylbenzene  
**NT3** halogenated aromatic hydrocarbons  
**NT4** brominated aromatic hydrocarbons  
**NT4** chlorinated aromatic hydrocarbons  
**NT5** aldrin  
**NT5** polychlorinated biphenyls  
**NT4** fluorinated aromatic hydrocarbons  
**NT4** iodinated aromatic hydrocarbons  
**NT3** indan  
**NT3** methyl tyrosine  
**NT3** oligophenylenes  
**NT3** pethidine  
**NT3** phenols  
**NT4** cresols  
**NT4** dinitrophenol  
**NT4** eriochrome dyes  
**NT4** hydroxypropiophenone  
**NT4** naphthols  
**NT5** 1-nitroso-2-naphthol  
**NT5** nitroso-r salt  
**NT5** pyridylazonaphthol  
**NT5** thorin  
**NT5** trypan blue  
**NT4** nitrophenol  
**NT4** phenol  
**NT4** phenolphthalein  
**NT4** picric acid  
**NT4** polyphenols  
**NT5** arsenazo  
**NT5** bromosulfophthalein  
**NT5** catecholamines  
**NT5** curcumin  
**NT5** dopamine  
**NT5** fluorescein  
**NT6** erythrosine  
**NT5** hematoxylin  
**NT5** morin  
**NT5** pyridylazoresorcinol  
**NT5** pyrocatechol  
**NT5** pyrogallol  
**NT5** quercetin  
**NT5** resorcinol  
**NT5** stilbestrol  
**NT5** tannic acid  
**NT5** tiron  
**NT4** thymol  
**NT4** tyramine  
**NT4** xylenols  
**NT3** phenylalanine  
**NT3** polycyclic aromatic hydrocarbons  
**NT4** 3-methylcholanthrene  
**NT4** acenaphthene  
**NT4** anthracene  
**NT4** azulene  
**NT4** benzanthracene  
**NT4** benzopyrene  
**NT4** calixarenes  
**NT4** cholanthrene  
**NT4** chrysene  
**NT4** dimethylbenzanthracene  
**NT4** fluorene  
**NT4** indene  
**NT4** indocyanine green  
**NT4** methylnaphthalenes  
**NT4** naphthalene  
**NT4** pentacene  
**NT4** perylene  
**NT4** phenanthrene  
**NT4** polyphenyls  
**NT5** terphenyls  
**NT6** terphenyl-ortho  
**NT6** terphenyl-para  
**NT4** pyrene  
**NT4** quaterphenyls  
**NT4** tetracene  
**NT4** triphenylene  
**NT3** quinones  
**NT4** anthraquinones  
**NT5** alizarin  
**NT5** carminic acid  
**NT5** quinizarin  
**NT4** benzoquinones  
**NT5** chloranil  
**NT5** chloranilic acid  
**NT5** plastoquinone  
**NT5** ubiquinone  
**NT4** rhodizonic acid  
**NT4** vitamin k  
**NT3** stilbene  
**NT3** tetralin  
**NT3** tolan  
**NT3** triphenylmethane dyes  
**NT4** methyl violet  
**NT4** methylthymol blue  
**NT2** carotenoids  
**NT2** polyenes  
**NT3** dienes  
**NT4** allene  
**NT4** butadiene  
**NT4** cyclopentadiene  
**NT4** ferrocene  
**NT4** isoprene  
**NT4** pentadienes  
**NT3** polyacetylenes  
**NT3** squalene  
**NT1** hydroxy compounds  
**NT2** alcohols  
**NT3** 2-methylpropanol  
**NT3** benzhydrol  
**NT3** benzyl alcohol  
**NT3** butanols  
**NT3** choline  
**NT3** cyclohexanol  
**NT3** decanols  
**NT3** enols  
**NT3** erythritol  
**NT3** ethanol  
**NT4** bioethanol  
**NT5** cellulose ethanol  
**NT3** glycerol  
**NT3** glycols  
**NT4** butanediols  
**NT4** cellosolves  
**NT4** egta  
**NT4** ethylene glycols  
**NT5** polyethylene glycols  
**NT6** carbowax  
**NT6** pluronics  
**NT4** pinacol  
**NT3** hexanols  
**NT3** methanol  
**NT3** metronidazole  
**NT3** misonidazole  
**NT3** octanols  
**NT3** pentanols  
**NT3** propanols  
**NT3** pva  
**NT2** alizarin  
**NT2** androsterone  
**NT2** bph  
**NT2** carminic acid  
**NT2** chromotropic acid  
**NT2** corticosteroids  
**NT3** glucocorticoids  
**NT4** corticosterone  
**NT4** cortisone  
**NT4** dexamethasone  
**NT4** hydrocortisone  
**NT4** prednisolone  
**NT4** prednisone  
**NT3** mineralocorticoids  
**NT4** aldosterone  
**NT2** cupferron  
**NT2** ephedrine  
**NT2** estradiol  
**NT3** fluoroestradiol  
**NT2** estriol  
**NT2** estrone  
**NT2** ferron  
**NT2** folic acid  
**NT2** guanine  
**NT2** hydroxamic acids  
**NT3** benzohydroxamic acid  
**NT2** hydroxyandrostenone  
**NT2** hydroxypregnenone  
**NT2** hydroxyurea  
**NT2** hypoxanthine  
**NT2** melanin  
**NT2** oximes  
**NT3** benzoinoxime  
**NT3** dimethylglyoxime  
**NT2** oxine  
**NT2** phenols  
**NT3** cresols  
**NT3** dinitrophenol  
**NT3** eriochrome dyes  
**NT3** hydroxypropiophenone  
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**NT4** pyrogallol  
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**NT4** tannic acid  
**NT4** tiron  
**NT3** thymol  
**NT3** tyramine  
**NT3** xylenols  
**NT2** pyridoxine  
**NT2** quinizarin  
**NT2** rhodizonic acid  
**NT2** serotonin  
**NT3** bufotenine  
**NT2** sterols  
**NT3** bile acids  
**NT4** cholic acid  
**NT3** cholesterol  
**NT3** ergosterol  
**NT3** sitosterol  
**NT2** testosterone  
**NT2** thiamine  
**NT2** uracils  
**NT3** bromouracils  
**NT4** budr  
**NT3** chlorouracils  
**NT3** deoxyuridine  
**NT3** fluorouracils  
**NT4** fudr  
**NT3** iodouracils  
**NT4** iododeoxyuridine  
**NT3** orotic acid

- NT3 thiouracil  
 NT3 thymine  
 NT3 uridine  
 NT1 isoenzymes  
 NT1 ketones  
 NT2 2-3-pentanedione  
 NT2 acetone  
 NT2 acetophenone  
 NT2 acetylacetone  
 NT2 androstenedione  
 NT2 androsterone  
 NT2 benzophenone  
 NT2 camphor  
 NT2 corticosteroids  
 NT3 glucocorticoids  
 NT4 corticosterone  
 NT4 cortisone  
 NT4 dexamethasone  
 NT4 hydrocortisone  
 NT4 prednisolone  
 NT4 prednisone  
 NT3 mineralocorticoids  
 NT4 aldosterone  
 NT2 curcumin  
 NT2 cyclohexanone  
 NT2 estrone  
 NT2 fructose  
 NT2 hydroxyandrostene  
 NT2 hydroxypregnenone  
 NT2 hydroxypropiophenone  
 NT2 methyl isobutyl ketone  
 NT2 progesterone  
 NT2 ribulose  
 NT2 sorbose  
 NT2 testosterone  
 NT2 triacetoneamine-n-oxyl  
 NT2 tropones  
 NT2 tta  
 NT1 lipids  
 NT2 glycolipids  
 NT3 cerebrosides  
 NT3 gangliosides  
 NT2 lipopolysaccharides  
 NT2 lipoproteins  
 NT3 apolipoproteins  
 NT3 myelin  
 NT2 phospholipids  
 NT3 cardiolipin  
 NT3 lecithins  
 NT3 sphingomyelins  
 NT2 triglycerides  
 NT3 corn oil  
 NT3 linseed oil  
 NT3 olive oil  
 NT3 peanut oil  
 NT3 soybean oil  
 NT3 triolein  
 NT1 nucleic acids  
 NT2 dna  
 NT3 contigs  
 NT3 oligonucleotides  
 NT3 recombinant dna  
 NT2 rna  
 NT3 messenger-rna  
 NT3 ribosomal rna  
 NT3 transfer rna  
 NT1 nucleotides  
 NT2 adenylic acid  
 NT2 adp  
 NT2 amp  
 NT2 atp  
 NT2 cytidylic acid  
 NT2 guanylic acid  
 NT2 itp  
 NT2 nad  
 NT2 nadh2  
 NT2 nadp  
 NT2 nucleosides  
 NT3 adenosine  
 NT3 budr  
 NT3 cytidine  
 NT3 deoxycytidine  
 NT3 deoxyuridine  
 NT3 fudr  
 NT3 guanosine  
 NT3 inosine  
 NT3 iododeoxyuridine  
 NT3 thymidine  
 NT4 fluorothymidine  
 NT3 uridine  
 NT2 thymidylic acid  
 NT2 ump  
 NT2 uridine diphosphoglucose  
 NT2 uridylic acid  
 NT2 utp  
 NT1 organic acids  
 NT2 arsonic acids  
 NT3 arsenazo  
 NT2 boronic acids  
 NT2 carboxylic acids  
 NT3 amino acids  
 NT4 alanines  
 NT5 alanine-alpha  
 NT6 alanine-l  
 NT5 alanine-beta  
 NT4 aminobutyric acid  
 NT4 aminolevulinic acid  
 NT4 anthranilic acid  
 NT4 arginine  
 NT4 asparagine  
 NT4 aspartic acid  
 NT4 betaine  
 NT4 carnitine  
 NT4 cda  
 NT4 citrulline  
 NT4 creatine  
 NT4 cysteine  
 NT4 cystine  
 NT4 dca  
 NT4 diiodotyrosine  
 NT4 dopa  
 NT4 dtpa  
 NT4 eddha  
 NT4 edta  
 NT4 ethionine  
 NT4 folic acid  
 NT4 glutamic acid  
 NT5 pyridoxylidene-glutamate  
 NT4 glutamine  
 NT4 glycine  
 NT4 glycyglycine  
 NT4 hedta  
 NT4 heida  
 NT4 hippuric acid  
 NT4 histidine  
 NT4 homocysteine  
 NT4 hydroxyproline  
 NT4 hydroxytryptophan  
 NT4 kynurenine  
 NT4 leucine  
 NT4 lysine  
 NT4 methionine  
 NT4 methyl red  
 NT4 methyl tyrosine  
 NT4 mimosine  
 NT4 mpg  
 NT4 nta  
 NT4 ornithine  
 NT4 paba  
 NT4 pantothenic acid  
 NT4 penicillamine  
 NT4 phenylalanine  
 NT4 phosphocreatine  
 NT4 proline  
 NT4 sarcosine  
 NT4 serine  
 NT4 tetaha  
 NT4 threonine  
 NT4 thyronine  
 NT4 thyroxine  
 NT4 tryptophan  
 NT4 tyrosine  
 NT4 valine  
 NT3 bile acids  
 NT4 cholic acid  
 NT3 carminic acid  
 NT3 dicarboxylic acids  
 NT4 adipic acid  
 NT4 fumaric acid  
 NT4 glutaric acid  
 NT4 itaconic acid  
 NT4 maleic acid  
 NT4 malonic acid  
 NT4 oxalic acid  
 NT4 phthalic acid  
 NT4 sebacic acid  
 NT4 succinic acid  
 NT4 terephthalic acid  
 NT3 egta  
 NT3 glyoxylic acid  
 NT3 heterocyclic acids  
 NT4 bilirubin  
 NT4 biotin  
 NT4 histidine  
 NT4 hydroxyproline  
 NT4 lysergic acid  
 NT4 nicotinic acid  
 NT4 orotic acid  
 NT4 picolinic acid  
 NT4 porphyrins  
 NT5 chlorins  
 NT5 chlorophyll  
 NT5 hematoporphyrins  
 NT5 heme  
 NT5 hemoglobin  
 NT6 methemoglobin  
 NT5 hemosiderin  
 NT5 myoglobin  
 NT5 protoporphyrins  
 NT4 proline  
 NT4 rhodamines  
 NT4 thioctic acid  
 NT4 tryptophan  
 NT4 urocanic acid  
 NT3 hydroxy acids  
 NT4 acetylsalicylic acid  
 NT4 benzilic acid  
 NT4 carnitine  
 NT4 citric acid  
 NT4 diiodotyrosine  
 NT4 dopa  
 NT4 eddha  
 NT4 eosin  
 NT4 fluorescein  
 NT5 erythrosine  
 NT4 galacturonic acid  
 NT4 gallic acid  
 NT4 gibberellic acid  
 NT4 gluconic acid  
 NT4 glucuronic acid  
 NT4 glyceric acid  
 NT4 glycolic acid  
 NT4 hedta  
 NT4 heida  
 NT4 hydroxyproline  
 NT4 hydroxytryptophan  
 NT4 lactic acid  
 NT4 malic acid  
 NT4 mandelic acid  
 NT4 methyl tyrosine  
 NT4 mevalonic acid  
 NT4 pantothenic acid  
 NT4 rose bengal  
 NT4 salicylic acid  
 NT4 serine  
 NT4 shikimic acid  
 NT4 tartaric acid

- NT4 threonine  
 NT4 thyronine  
 NT4 tyrosine  
 NT3 keto acids  
 NT4 acetoacetic acid  
 NT4 kynurenine  
 NT4 levulinic acid  
 NT4 pyruvic acid  
 NT3 mellitic acid  
 NT3 monocarboxylic acids  
 NT4 abscisic acid  
 NT4 acetic acid  
 NT4 acrylic acid  
 NT4 arachidonic acid  
 NT4 benzoic acid  
 NT4 butyric acid  
 NT4 chlorambucil  
 NT4 cinnamic acid  
 NT4 crotonic acid  
 NT4 decanoic acid  
 NT4 dodecanoic acid  
 NT4 eicosanoic acid  
 NT4 formic acid  
 NT4 glycolic acid  
 NT4 heptanoic acid  
 NT4 hexadecanoic acid  
 NT4 hexanoic acid  
 NT4 isobutyric acid  
 NT4 isovaleric acid  
 NT4 linoleic acid  
 NT4 linolenic acid  
 NT4 methacrylic acid  
 NT4 nicotinic acid  
 NT4 nonanoic acid  
 NT4 octadecanoic acid  
 NT4 octanoic acid  
 NT4 oleic acid  
 NT4 pethidine  
 NT4 pivalic acid  
 NT4 propionic acid  
 NT4 sorbic acid  
 NT4 tetradecanoic acid  
 NT4 trichloroacetic acid  
 NT4 uronic acids  
 NT4 valeric acid  
 NT3 tannic acid  
 NT2 coal tar acids  
 NT2 fulvic acids  
 NT2 humic acids  
 NT2 mdpa  
 NT2 phosphinic acids  
 NT2 phosphonic acids  
 NT2 phytic acid  
 NT2 shale tar acids  
 NT2 sulfonic acids  
 NT3 arsenazo  
 NT3 bromosulphophthalein  
 NT3 chromotropic acid  
 NT3 eriochrome dyes  
 NT3 evans blue  
 NT3 ferron  
 NT3 methyl orange  
 NT3 nitroso-r salt  
 NT3 sulfanilic acid  
 NT3 taurine  
 NT3 thorin  
 NT3 tirin  
 NT3 trypan blue  
 NT3 unithiol  
 NT2 thioic acids  
 NT1 organic arsenic compounds  
 NT2 arsonic acids  
 NT3 arsenazo  
 NT1 organic boron compounds  
 NT2 carboranes  
 NT1 organic halogen compounds  
 NT2 halogenated alicyclic hydrocarbons  
 NT3 chlorinated alicyclic hydrocarbons  
 NT4 lindane  
 NT3 fluorinated alicyclic hydrocarbons  
 NT3 iodinated alicyclic hydrocarbons  
 NT2 halogenated aliphatic hydrocarbons  
 NT3 brominated aliphatic hydrocarbons  
 NT4 bromoform  
 NT4 methyl bromide  
 NT3 chlorinated aliphatic hydrocarbons  
 NT4 carbon tetrachloride  
 NT4 chloroform  
 NT4 methyl chloride  
 NT4 pvc  
 NT4 trichloroacetic acid  
 NT4 vinyl chloride  
 NT3 fluorinated aliphatic hydrocarbons  
 NT4 carbon tetrafluoride  
 NT4 fluoroform  
 NT4 methyl fluoride  
 NT4 polytetrafluoroethylene  
 NT5 teflon  
 NT4 tedlar  
 NT3 freons  
 NT3 iodinated aliphatic hydrocarbons  
 NT4 iodoform  
 NT4 methyl iodide  
 NT2 halogenated aromatic hydrocarbons  
 NT3 brominated aromatic hydrocarbons  
 NT3 chlorinated aromatic hydrocarbons  
 NT4 aldrin  
 NT4 polychlorinated biphenyls  
 NT3 fluorinated aromatic hydrocarbons  
 NT3 iodinated aromatic hydrocarbons  
 NT2 organic bromine compounds  
 NT3 brominated aliphatic hydrocarbons  
 NT4 bromoform  
 NT4 methyl bromide  
 NT3 brominated aromatic hydrocarbons  
 NT3 bromosulphophthalein  
 NT3 bromouracils  
 NT4 budr  
 NT3 eosin  
 NT2 organic chlorine compounds  
 NT3 chloral  
 NT3 chlorambucil  
 NT3 chloramines  
 NT3 chloranil  
 NT3 chlorinated alicyclic hydrocarbons  
 NT4 lindane  
 NT3 chlorinated aliphatic hydrocarbons  
 NT4 carbon tetrachloride  
 NT4 chloroform  
 NT4 methyl chloride  
 NT4 pvc  
 NT4 trichloroacetic acid  
 NT4 vinyl chloride  
 NT3 chlorinated aromatic hydrocarbons  
 NT4 aldrin  
 NT4 polychlorinated biphenyls  
 NT3 chlorofluorocarbons  
 NT3 chlorouracils  
 NT3 chlorpromazine  
 NT3 ddt  
 NT3 kel-f  
 NT3 methylene chloride  
 NT3 neoprene  
 NT3 nitrogen mustard  
 NT3 phosgene  
 NT3 rose bengal  
 NT2 organic fluorine compounds  
 NT3 chlorofluorocarbons  
 NT3 fluorinated alicyclic hydrocarbons  
 NT3 fluorinated aliphatic hydrocarbons  
 NT4 carbon tetrafluoride  
 NT4 fluoroform  
 NT4 methyl fluoride  
 NT4 polytetrafluoroethylene  
 NT5 teflon  
 NT4 tedlar  
 NT3 fluorinated aromatic hydrocarbons  
 NT3 fluoroestradiol  
 NT3 fluorothymidine  
 NT3 fluorouracils  
 NT4 fudr  
 NT3 kel-f  
 NT3 tta  
 NT2 organic iodine compounds  
 NT3 diiodotyrosine  
 NT3 erythrosine  
 NT3 ferron  
 NT3 iodinated alicyclic hydrocarbons  
 NT3 iodinated aliphatic hydrocarbons  
 NT4 iodoform  
 NT4 methyl iodide  
 NT3 iodinated aromatic hydrocarbons  
 NT3 iodouracils  
 NT4 iododeoxyuridine  
 NT3 lipiodol  
 NT3 mibg  
 NT3 pbi  
 NT3 rose bengal  
 NT3 thyroxine  
 NT1 organic mercury compounds  
 NT2 methylmercury  
 NT1 organic nitrogen compounds  
 NT2 amides  
 NT3 acetamide  
 NT3 acrylamide  
 NT3 asparagine  
 NT3 dimethylformamide  
 NT3 formamide  
 NT3 glutamine  
 NT3 hydroxyurea  
 NT3 lactams  
 NT4 pyrrolidones  
 NT5 pvp  
 NT3 metrizamide  
 NT3 nicotinamide  
 NT3 sulfenamides  
 NT3 sulfonamides  
 NT3 thionalide  
 NT3 urea  
 NT2 amidines  
 NT2 azaarenes  
 NT3 acridines  
 NT4 acridine orange  
 NT4 flavines  
 NT5 acriflavine  
 NT5 proflavine  
 NT3 carbazoles  
 NT3 indoles  
 NT4 indigo  
 NT4 indocyanine green  
 NT4 lysergic acid  
 NT4 reserpine  
 NT4 strychnine  
 NT4 tryptamines  
 NT5 melatonin  
 NT5 serotonin  
 NT6 bufotenine  
 NT4 tryptophan  
 NT4 vinblastine  
 NT3 phenanthrolines  
 NT4 ferroin  
 NT4 phenanthroline-ortho  
 NT3 pteridines  
 NT4 aminopterin  
 NT4 folic acid

- NT3** purines  
**NT4** adenines  
**NT5** kinetin  
**NT4** guanine  
**NT4** guanosine  
**NT4** hypoxanthine  
**NT4** inosine  
**NT4** mercaptopurine  
**NT4** xanthines  
**NT5** caffeine  
**NT5** theobromine  
**NT5** theophylline  
**NT5** uric acid  
**NT3** quinolines  
**NT4** ferron  
**NT4** oxine  
**NT4** quinaldine  
**NT2** azido compounds  
**NT2** azines  
**NT3** phenothiazines  
**NT4** chlorpromazine  
**NT4** methylene blue  
**NT3** pyrazines  
**NT4** phenazine  
**NT4** piperazines  
**NT3** pyridazines  
**NT4** phthalazines  
**NT5** luminol  
**NT3** pyridines  
**NT4** acridines  
**NT5** acridine orange  
**NT5** flavines  
**NT6** acriflavine  
**NT6** proflavine  
**NT4** bipyridines  
**NT4** nicotinamide  
**NT4** nicotine  
**NT4** nicotinic acid  
**NT4** picolines  
**NT5** picolinic acid  
**NT4** piperidines  
**NT5** dipyridamole  
**NT5** pethidine  
**NT5** triacetoneamine-n-oxyl  
**NT4** pyridine  
**NT4** pyridinium compounds  
**NT4** pyridoxal  
**NT4** pyridoxine  
**NT4** pyridoxylideneglutamate  
**NT4** pyridylazonaphthol  
**NT4** pyridylazoresorcinol  
**NT4** quinolines  
**NT5** ferron  
**NT5** oxine  
**NT5** quinaldine  
**NT3** pyrimidines  
**NT4** alloxan  
**NT4** barbiturates  
**NT5** nembutal  
**NT5** phenobarbital  
**NT4** cytidine  
**NT4** cytosine  
**NT4** deoxycytidine  
**NT4** thiamine  
**NT4** thymidine  
**NT5** fluorothymidine  
**NT4** uracils  
**NT5** bromouracils  
**NT6** budr  
**NT5** chlorouracils  
**NT5** deoxyuridine  
**NT5** fluorouracils  
**NT6** fudr  
**NT5** iodouracils  
**NT6** iododeoxyuridine  
**NT5** orotic acid  
**NT5** thiouracil  
**NT5** thymine  
**NT5** uridine  
**NT3** triazines  
**NT4** cyanurates  
**NT4** melamine  
**NT2** azo compounds  
**NT3** arsenazo  
**NT3** azo dyes  
**NT4** eriochrome dyes  
**NT4** evans blue  
**NT4** methyl orange  
**NT4** methyl red  
**NT4** toluidine blue  
**NT4** trypan blue  
**NT2** azoles  
**NT3** carbazoles  
**NT3** imidazoles  
**NT4** allantoin  
**NT4** benzimidazoles  
**NT4** biotin  
**NT4** creatinine  
**NT4** histamine  
**NT4** histidine  
**NT4** hydantoin  
**NT4** metronidazole  
**NT4** misonidazole  
**NT4** urocanic acid  
**NT3** oxadiazoles  
**NT3** oxazoles  
**NT4** benzoxazoles  
**NT4** popop  
**NT3** pyrazoles  
**NT4** indazoles  
**NT4** pyrazolines  
**NT5** antipyrine  
**NT3** pyroles  
**NT4** bilirubin  
**NT4** indoles  
**NT5** indigo  
**NT5** indocyanine green  
**NT5** lysergic acid  
**NT5** reserpine  
**NT5** strychnine  
**NT5** tryptamines  
**NT6** melatonin  
**NT6** serotonin  
**NT7** bufotenine  
**NT5** tryptophan  
**NT5** vinblastine  
**NT4** pyrrolidines  
**NT5** hydroxyproline  
**NT5** nicotine  
**NT5** proline  
**NT4** pyrrolidones  
**NT5** pvp  
**NT3** tetrazoles  
**NT4** tetrazolium  
**NT3** thiadiazoles  
**NT3** thiazoles  
**NT4** benzothiazoles  
**NT4** saccharin  
**NT4** thiamine  
**NT3** triazoles  
**NT2** carbamates  
**NT3** dedtc  
**NT3** urethane  
**NT2** carbazides  
**NT2** carbazones  
**NT3** dithione  
**NT2** cyanamides  
**NT2** diazo compounds  
**NT3** pyridylazonaphthol  
**NT3** pyridylazoresorcinol  
**NT3** thorin  
**NT2** dpca  
**NT2** gangliosides  
**NT2** guanidines  
**NT3** mibg  
**NT2** hydrazides  
**NT3** isoniazid  
**NT2** hydrazones  
**NT2** imides  
**NT3** nem  
**NT2** imines  
**NT3** creatinine  
**NT3** schiff bases  
**NT2** imipramine  
**NT2** isoalloxazines  
**NT3** diaphorase  
**NT2** melanin  
**NT2** morpholines  
**NT2** nitriles  
**NT3** acetonitrile  
**NT3** acrylonitrile  
**NT3** propiolonitrile  
**NT3** ttf-icnq  
**NT2** nitro compounds  
**NT3** dinitrophenol  
**NT3** dpph  
**NT3** metronidazole  
**NT3** misonidazole  
**NT3** nitrobenzene  
**NT3** nitromethane  
**NT3** nitrophenol  
**NT3** picric acid  
**NT3** polycyclic nitro compounds  
**NT3** tetryl  
**NT3** tnt  
**NT2** nitroso compounds  
**NT3** 1-nitroso-2-naphthol  
**NT3** methyl nitrosoarea  
**NT3** nitrosamines  
**NT3** nitroso-r salt  
**NT3** nitrosoareas  
**NT2** oximes  
**NT3** benzoinoxime  
**NT3** dimethylglyoxime  
**NT2** parathion  
**NT2** porphyrins  
**NT3** chlorins  
**NT3** chlorophyll  
**NT3** hematoporphyrins  
**NT3** heme  
**NT3** hemoglobin  
**NT4** methemoglobin  
**NT3** hemosiderin  
**NT3** myoglobin  
**NT3** protoporphyrins  
**NT2** semicarbazides  
**NT2** semicarbazones  
**NT2** tamoxifen  
**NT2** thionine  
**NT1** organic oxygen compounds  
**NT2** allantoin  
**NT2** alloxan  
**NT2** barbiturates  
**NT3** nembutal  
**NT3** phenobarbital  
**NT2** benzoyl peroxide  
**NT2** cyanurates  
**NT2** cytosine  
**NT2** dioxane  
**NT2** dioxin  
**NT2** epoxides  
**NT3** araldite  
**NT2** ethers  
**NT3** acetals  
**NT4** acetal  
**NT3** anisole  
**NT3** butyl ether  
**NT3** cellosolves  
**NT3** crown ethers  
**NT3** curcumin  
**NT3** dme  
**NT3** ethyl ether  
**NT3** isopropyl ether  
**NT3** methyl ether  
**NT3** methylal  
**NT3** mexamine  
**NT3** morpholines

- NT3 phenyl ether  
 NT2 flavonoids  
 NT3 flavones  
   NT4 morin  
   NT4 quercetin  
 NT2 furans  
   NT3 benzofurans  
   NT3 furfural  
   NT3 tetrahydrofuran  
   NT4 mthf  
 NT2 heterocyclic oxygen compounds  
   NT3 pyrans  
     NT4 coumarin  
     NT4 hematoxylin  
     NT4 pyrones  
     NT4 quercetin  
     NT4 tetrahydropyran  
   NT2 isoxaloxazines  
   NT3 diaphorase  
 NT2 ketenes  
 NT2 malathion  
 NT2 oxadiazoles  
 NT2 oxazoles  
   NT3 benzoxazoles  
   NT3 popop  
 NT2 psoralen  
 NT2 pyridoxal  
 NT2 quinones  
   NT3 anthraquinones  
     NT4 alizarin  
     NT4 carminic acid  
     NT4 quinizarin  
   NT3 benzoquinones  
     NT4 chloranil  
     NT4 chloranilic acid  
     NT4 plastoquinone  
     NT4 ubiquinone  
   NT3 rhodizonic acid  
   NT3 vitamin k  
 NT2 rhodamines  
 NT2 saccharin  
 NT2 semicarbazides  
 NT2 triacetoneamine-n-oxyl  
 NT2 trioxanes  
 NT2 xanthines  
   NT3 caffeine  
   NT3 theobromine  
   NT3 theophylline  
   NT3 uric acid  
 NT1 organic phosphorus compounds  
   NT2 casein  
   NT2 cmpo  
   NT2 cystaphos  
   NT2 malathion  
   NT2 parathion  
   NT2 phosphinic acid esters  
   NT2 phosphinic acids  
   NT2 phosphocreatine  
   NT2 phospholipids  
     NT3 cardiolipin  
     NT3 lecithins  
     NT3 sphingomyelins  
   NT2 phosphonates  
   NT2 phosphonic acid esters  
     NT3 damp  
     NT3 dhdecmp  
   NT2 phosphonic acids  
   NT2 phosphoric acid esters  
     NT3 butyl phosphates  
       NT4 dbp  
       NT4 mbp  
     NT4 tbp  
     NT3 hdehp  
     NT3 mdpa  
     NT3 phytic acid  
     NT3 tcp  
   NT2 tributylphosphine oxide  
   NT2 trioctylphosphine oxide  
   NT2 trioctylphosphine sulfide  
   NT2 triphenylphosphine  
   NT2 triphenylphosphine oxide  
   NT2 uridine diphosphoglucose  
 NT1 organic polymers  
   NT2 araldite  
   NT2 copolymers  
   NT2 graft polymers  
   NT2 neoprene  
   NT2 plastic foams  
   NT2 plastics  
     NT3 aramids  
     NT3 bakelite  
     NT3 formvar  
     NT3 lucite  
     NT3 mylar  
     NT3 nylon  
     NT3 perspex  
     NT3 plexiglas  
     NT3 polystyrene  
     NT3 polyurethanes  
       NT4 halthane  
     NT3 reinforced plastics  
     NT3 tedlar  
     NT3 teflon  
     NT3 thermoplastics  
   NT2 polyacetals  
     NT3 formvar  
     NT3 polyoxymethylenes  
   NT2 polyacetylenes  
   NT2 polyamides  
     NT3 nylon  
     NT3 polyurethanes  
       NT4 halthane  
   NT2 polycarbonates  
   NT2 polyesters  
     NT3 polyethylene terephthalate  
       NT4 dacron  
       NT4 homalite  
       NT4 mylar  
   NT2 polyethylene glycols  
     NT3 carbowax  
     NT3 pluronics  
   NT2 polyisoprene  
   NT2 polyolefins  
     NT3 polyethylenes  
       NT4 kel-f  
       NT4 polytetrafluoroethylene  
       NT5 teflon  
     NT3 polypropylene  
     NT3 polystyrene  
     NT3 polystyrene-dvb  
   NT2 polyvinyls  
     NT3 polyacrylates  
       NT4 lucite  
       NT4 perspex  
       NT4 plexiglas  
       NT4 pmma  
     NT3 polystyrene  
     NT3 polyvinyl acetate  
     NT3 pva  
     NT3 pvc  
     NT3 pvp  
     NT3 tedlar  
   NT2 resins  
   NT2 rubbers  
     NT3 buna  
     NT3 latex  
     NT3 natural rubber  
     NT3 silastic  
     NT3 viton  
   NT2 textolite  
 NT1 organic silicon compounds  
   NT2 silanes  
   NT2 siloxanes  
     NT3 silicones  
     NT4 silastic  
 NT1 organic sulfur compounds  
   NT2 bedt-tf  
   NT2 biotin  
   NT2 cystamine  
   NT2 dedtc  
   NT2 dimethyl sulfide  
   NT2 disulfides  
     NT3 cystine  
     NT3 thioctic acid  
   NT2 dithizone  
   NT2 ethionine  
   NT2 heparin  
   NT2 isothiocyanates  
   NT2 methionine  
   NT2 phenothiazines  
     NT3 chlorpromazine  
     NT3 methylene blue  
   NT2 polycyclic sulfur heterocycles  
   NT2 sulfenamides  
   NT2 sulfonamides  
   NT2 sulfonates  
     NT3 indocyanine green  
     NT3 petroleum sulfonates  
   NT2 sulfones  
   NT2 sulfonic acid esters  
     NT3 alkyl benzenesulfonates  
     NT3 ethyl methanesulfonate  
     NT3 methyl methanesulfonate  
     NT3 petroleum sulfonates  
   NT2 sulfonic acids  
     NT3 arsenazo  
     NT3 bromosulphophthalein  
     NT3 chromotropic acid  
     NT3 eriochrome dyes  
     NT3 evans blue  
     NT3 ferron  
     NT3 methyl orange  
     NT3 nitroso-r salt  
     NT3 sulfanilic acid  
     NT3 taurine  
     NT3 thiorin  
     NT3 tiron  
     NT3 trypan blue  
     NT3 unithiol  
   NT2 sulfoxides  
     NT3 dms  
     NT3 dpso  
   NT2 sulfuric acid esters  
   NT2 tetrathiafulvalene  
   NT2 thiadiazoles  
   NT2 thiazoles  
     NT3 benzothiazoles  
     NT3 saccharin  
     NT3 thiamine  
   NT2 thiocyanates  
     NT3 ammonium thiocyanates  
   NT2 thioic acids  
   NT2 thiols  
     NT3 cysteamine  
     NT3 cysteine  
     NT3 dithiols  
       NT4 dimercaprol  
       NT4 unithiol  
     NT3 malathion  
     NT3 mercaptoethylguanidine  
     NT3 mercaptopurine  
     NT3 mpg  
     NT3 penicillamine  
     NT3 thionalide  
     NT3 thiouracil  
   NT2 thionaphthenes  
   NT2 thionates  
   NT2 thionine  
   NT2 thionyl halides  
     NT3 thionyl chlorides  
   NT2 thiophene  
   NT2 thiophenols  
   NT2 thioureas  
     NT3 beta-aminoethyl isothiouraea  
     NT3 thiourea  
   NT2 trioctylphosphine sulfide  
   NT2 tta



- NT2 ttf-tcnq  
 NT2 xanthates  
 NT3 viscose  
 NT1 organometallic compounds  
 NT2 grignard reagents  
 NT2 lactoferrin  
 NT2 tetraethyl lead  
 NT1 other organic compounds  
 NT2 amber  
 NT2 asphaltite  
 NT2 oils  
 NT3 coal tar oils  
 NT3 essential oils  
 NT3 fish oil  
 NT3 insulating oils  
 NT3 lipiodol  
 NT3 lubricating oils  
 NT3 pyrolytic oils  
 NT3 road oils  
 NT3 shale tar oils  
 NT3 tall oil  
 NT3 triolein  
 NT3 vegetable oils  
 NT4 castor oil  
 NT4 corn oil  
 NT4 cottonseed oil  
 NT4 linseed oil  
 NT4 olive oil  
 NT4 palm oil  
 NT4 peanut oil  
 NT4 sesame oil  
 NT4 soybean oil  
 NT4 sunflower oil  
 NT3 waste oils  
 NT3 wood oils  
 NT2 pitches  
 NT2 soaps  
 NT2 tar  
 NT3 bitumens  
 NT4 asphalts  
 NT4 coal tar  
 NT4 thucholite  
 NT3 shale tar  
 NT2 waxes  
 NT3 carbowax  
 NT3 paraffin  
 NT1 proteins  
 NT2 actin  
 NT2 albumins  
 NT3 luciferin  
 NT2 blood coagulation factors  
 NT3 fibrin  
 NT3 fibrinogen  
 NT3 kallikrein  
 NT3 plasminogen  
 NT3 prothrombin  
 NT3 thrombin  
 NT3 thromboplastin  
 NT3 urokinase  
 NT2 calmodulin  
 NT2 casein  
 NT2 chlorophyll-binding proteins  
 NT2 complement  
 NT2 cytochromes  
 NT2 enzymes  
 NT3 dna helicases  
 NT3 gene recombination proteins  
 NT3 hydrolases  
 NT4 acid anhydases  
 NT5 gtp-ases  
 NT5 phosphohydrolases  
 NT6 atp-ase  
 NT4 esterases  
 NT5 carboxylesterases  
 NT6 cholinesterase  
 NT6 lipases  
 NT5 phosphatases  
 NT6 acid phosphatase  
 NT6 alkaline phosphatase  
 NT6 nucleotidases  
 NT5 phosphodiesterases  
 NT6 nucleases  
 NT7 dna-ase  
 NT8 endonucleases  
 NT7 rna-ase  
 NT4 glycosyl hydrolases  
 NT5 o-glycosyl hydrolases  
 NT6 amylase  
 NT6 cellulase  
 NT6 galactosidase  
 NT6 glucosidase  
 NT6 glucuronidase  
 NT6 hyaluronidase  
 NT6 lysozyme  
 NT6 xylanase  
 NT4 non-peptide c-n hydrolases  
 NT5 amidases  
 NT6 arginase  
 NT6 urease  
 NT5 amidinases  
 NT4 peptide hydrolases  
 NT5 acid proteinases  
 NT6 pepsin  
 NT5 aminopeptidases  
 NT5 carboxypeptidases  
 NT5 nonspecific peptidases  
 NT6 renin  
 NT6 urokinase  
 NT5 serine proteinases  
 NT6 chymotrypsin  
 NT6 fibrinolysin  
 NT6 kallikrein  
 NT6 thrombin  
 NT6 trypsin  
 NT5 sh-proteinases  
 NT6 cathepsins  
 NT6 papain  
 NT6 streptococcal proteinase  
 NT3 isomerases  
 NT3 ligases  
 NT3 lyases  
 NT4 carbon-carbon lyases  
 NT5 aldehyde-lyases  
 NT5 aldolases  
 NT5 carboxy-lyases  
 NT6 carboxylase  
 NT6 decarboxylases  
 NT6 ribulose diphosphate carboxylase  
 NT4 carbon-oxygen lyases  
 NT5 hyaluronidase  
 NT5 hydro-lyases  
 NT6 carbonic anhydrase  
 NT4 cyclases  
 NT4 dna methylases  
 NT3 oxidoreductases  
 NT4 amine oxidases  
 NT4 aryl 4-monooxygenase  
 NT4 diaphorase  
 NT4 hemiacetal dehydrogenases  
 NT5 alcohol dehydrogenase  
 NT5 lactate dehydrogenase  
 NT4 hydrogenases  
 NT4 hydroxylases  
 NT5 tyrosinase  
 NT4 nitro-group dehydrogenases  
 NT5 nitrogenase  
 NT4 oxidases  
 NT5 cytochrome oxidase  
 NT5 luciferase  
 NT4 oxygenases  
 NT5 mixed-function oxidases  
 NT4 peroxidases  
 NT5 catalase  
 NT4 superoxide dismutase  
 NT3 transferases  
 NT4 carbon-group transferases  
 NT5 methyl transferases  
 NT4 glycosyl transferases  
 NT5 hexosyl transferases  
 NT5 pentosyl transferases  
 NT6 hypoxanthine phosphoribosyltransferase  
 NT4 nitrogen transferases  
 NT5 aminotransferases  
 NT4 phosphorus-group transferases  
 NT5 nucleotidyltransferases  
 NT6 polymerases  
 NT7 dna polymerases  
 NT7 rna polymerases  
 NT5 phosphotransferases  
 NT6 hexokinase  
 NT2 gelatin  
 NT2 globins  
 NT3 hemoglobin  
 NT4 methemoglobin  
 NT3 myoglobin  
 NT2 globulins  
 NT3 angiotensin  
 NT3 fibrinogen  
 NT3 globulins-alpha  
 NT4 ceruloplasmin  
 NT4 haptoglobins  
 NT3 globulins-beta  
 NT4 transferrin  
 NT3 globulins-gamma  
 NT3 immunoglobulins  
 NT3 lactoferrin  
 NT3 myosin  
 NT3 thyroglobulin  
 NT2 glycoproteins  
 NT3 avidin  
 NT3 glucoproteins  
 NT4 lactoferrin  
 NT4 ovalbumin  
 NT3 luteinizing hormone  
 NT2 growth factors  
 NT3 lymphokines  
 NT4 interferon  
 NT2 heat-shock proteins  
 NT2 histones  
 NT2 lipoproteins  
 NT3 apolipoproteins  
 NT3 myelin  
 NT2 membrane proteins  
 NT3 porins  
 NT3 receptors  
 NT3 thylakoid membrane proteins  
 NT4 phycobiliproteins  
 NT5 phycocyanin  
 NT2 metalloproteins  
 NT3 ceruloplasmin  
 NT3 ferredoxin  
 NT3 ferritin  
 NT3 hemocyanin  
 NT3 hemosiderin  
 NT3 lactoferrin  
 NT3 metallothionein  
 NT3 rubredoxin  
 NT3 transferrin  
 NT2 mucoproteins  
 NT3 haptoglobins  
 NT3 intrinsic factor  
 NT3 phytohemagglutinin  
 NT2 nucleoproteins  
 NT2 pbi  
 NT2 peptide hormones  
 NT3 calcitonin  
 NT3 erythropoietin  
 NT3 gastrin  
 NT3 glucagon  
 NT3 insulin  
 NT3 leptin  
 NT3 parathormone  
 NT3 pituitary hormones  
 NT4 acth  
 NT4 gonadotropins

NT5 fsh  
 NT5 hcg  
 NT5 lth  
 NT5 luteinizing hormone  
 NT4 liberins  
 NT5 lh-rh  
 NT4 oxytocin  
 NT4 sth  
 NT4 tsh  
 NT4 vasopressin  
 NT3 secretin  
 NT3 thyroid hormones  
 NT4 diiodothyronine  
 NT4 thyrocalcitonin  
 NT4 thyroxine  
 NT4 triiodothyronine  
 NT3 thyronine  
 NT3 trh  
 NT2 peptides  
 NT3 cyclosporine  
 NT3 glycylglycine  
 NT3 polypeptides  
 NT4 calcitonin  
 NT4 endorphins  
 NT5 enkephalins  
 NT4 endothelins  
 NT4 gastrin  
 NT4 glucagon  
 NT4 glutathione  
 NT4 kinins  
 NT5 bradykinin  
 NT4 leptin  
 NT2 peptone  
 NT2 phosphoproteins  
 NT2 phytochromes  
 NT3 chlorophyll  
 NT2 protamines  
 NT2 rhodopsin  
 NT2 scleroproteins  
 NT3 collagen  
 NT3 fibrin  
 NT3 glutin  
 NT3 keratin  
 NT2 transcription factors  
 NT2 tropomyosin  
 NT2 zein  
 NT1 shale tar bases  
 NT1 steroids  
 NT2 androstanes  
 NT3 androgens  
 NT4 androstenedione  
 NT4 androsterone  
 NT4 hydroxyandrostenone  
 NT4 testosterone  
 NT2 estranes  
 NT3 estradiol  
 NT4 fluoroestradiol  
 NT3 estriol  
 NT3 estrone  
 NT2 pregnanes  
 NT3 corticosteroids  
 NT4 glucocorticoids  
 NT5 corticosterone  
 NT5 cortisone  
 NT5 dexamethasone  
 NT5 hydrocortisone  
 NT5 prednisolone  
 NT5 prednisone  
 NT4 mineralocorticoids  
 NT5 aldosterone  
 NT3 hydroxypregnenone  
 NT3 progesterone  
 NT2 sterols  
 NT3 bile acids  
 NT4 cholic acid  
 NT3 cholesterol  
 NT3 ergosterol  
 NT3 sitosterol  
 NT1 terpenes

NT2 camphor  
 NT2 carotenoids  
 NT2 squalene  
 NT2 turpentine  
 RT chemical feedstocks  
 RT clathrates  
 RT organic semiconductors  
 RT organic superconductors  
 RT polar compounds  
 RT translocation

### ORGANIC COOLANTS

BT1 coolants  
 RT aromatics  
 RT organic cooled reactors  
 RT polyphenyls  
 RT refrigerants

#### *organic cooled and heavy water moderated chalk river reactor*

INIS: 1993-11-09; ETDE: 2002-04-17  
 USE zed-2 reactor

#### *organic cooled and moderated reactor*

1993-11-09  
 USE omr type reactors

#### *organic cooled heavy water moderated chalk river reactor*

2000-04-12  
 USE zed-2 reactor

### ORGANIC COOLED REACTORS

BT1 reactors  
 NT1 eco reactor  
 NT1 eocr reactor  
 NT1 essor reactor  
 NT1 lwor type reactors  
 NT1 omr type reactors  
 NT2 arbus reactor  
 NT2 omre reactor  
 NT2 pnpf reactor  
 NT1 wr-1 reactor  
 NT1 zed-2 reactor  
 RT organic coolants

### ORGANIC CRYSTAL PHOSPHORS

BT1 phosphors  
 RT anthracene  
 RT solid scintillation detectors  
 RT stilbene

### ORGANIC FLUORINE COMPOUNDS

UF *fluorinated hydrocarbons*  
 \*BT1 organic halogen compounds  
 NT1 chlorofluorocarbons  
 NT1 fluorinated alicyclic hydrocarbons  
 NT1 fluorinated aliphatic hydrocarbons  
 NT2 carbon tetrafluoride  
 NT2 fluoroform  
 NT2 methyl fluoride  
 NT2 polytetrafluoroethylene  
 NT3 teflon  
 NT2 tedlar  
 NT1 fluorinated aromatic hydrocarbons  
 NT1 fluoroestradiol  
 NT1 fluoroethymidine  
 NT1 fluorouracils  
 NT2 fudr  
 NT1 kel-f  
 NT1 tta  
 RT fluorine compounds

### ORGANIC HALOGEN COMPOUNDS

UF *halogenated hydrocarbons*  
 BT1 organic compounds  
 NT1 halogenated alicyclic hydrocarbons  
 NT2 chlorinated alicyclic hydrocarbons  
 NT3 lindane  
 NT2 fluorinated alicyclic hydrocarbons

NT2 iodinated alicyclic hydrocarbons  
 NT1 halogenated aliphatic hydrocarbons  
 NT2 brominated aliphatic hydrocarbons  
 NT3 bromoform  
 NT3 methyl bromide  
 NT2 chlorinated aliphatic hydrocarbons  
 NT3 carbon tetrachloride  
 NT3 chloroform  
 NT3 methyl chloride  
 NT3 pvc  
 NT3 trichloroacetic acid  
 NT3 vinyl chloride  
 NT2 fluorinated aliphatic hydrocarbons  
 NT3 carbon tetrafluoride  
 NT3 fluoroform  
 NT3 methyl fluoride  
 NT3 polytetrafluoroethylene  
 NT4 teflon  
 NT3 tedlar  
 NT2 freons  
 NT2 iodinated aliphatic hydrocarbons  
 NT3 iodoform  
 NT3 methyl iodide  
 NT1 halogenated aromatic hydrocarbons  
 NT2 brominated aromatic hydrocarbons  
 NT2 chlorinated aromatic hydrocarbons  
 NT3 aldrin  
 NT3 polychlorinated biphenyls  
 NT2 fluorinated aromatic hydrocarbons  
 NT2 iodinated aromatic hydrocarbons  
 NT1 organic bromine compounds  
 NT2 brominated aliphatic hydrocarbons  
 NT3 bromoform  
 NT3 methyl bromide  
 NT2 brominated aromatic hydrocarbons  
 NT2 bromosulphophthalein  
 NT2 bromouracils  
 NT3 budr  
 NT2 eosin  
 NT1 organic chlorine compounds  
 NT2 chloral  
 NT2 chlorambucil  
 NT2 chloramines  
 NT2 chloranil  
 NT2 chlorinated alicyclic hydrocarbons  
 NT3 lindane  
 NT2 chlorinated aliphatic hydrocarbons  
 NT3 carbon tetrachloride  
 NT3 chloroform  
 NT3 methyl chloride  
 NT3 pvc  
 NT3 trichloroacetic acid  
 NT3 vinyl chloride  
 NT2 chlorinated aromatic hydrocarbons  
 NT3 aldrin  
 NT3 polychlorinated biphenyls  
 NT2 chlorofluorocarbons  
 NT2 chlorouracils  
 NT2 chlorpromazine  
 NT2 ddt  
 NT2 kel-f  
 NT2 methylene chloride  
 NT2 neoprene  
 NT2 nitrogen mustard  
 NT2 phosgene  
 NT2 rose bengal  
 NT1 organic fluorine compounds  
 NT2 chlorofluorocarbons  
 NT2 fluorinated alicyclic hydrocarbons  
 NT2 fluorinated aliphatic hydrocarbons  
 NT3 carbon tetrafluoride  
 NT3 fluoroform  
 NT3 methyl fluoride  
 NT3 polytetrafluoroethylene  
 NT4 teflon  
 NT3 tedlar  
 NT2 fluorinated aromatic hydrocarbons  
 NT2 fluoroestradiol  
 NT2 fluoroethymidine

- NT2 fluorouracils  
 NT3 fudr  
 NT2 kel-f  
 NT2 tta  
 NT1 organic iodine compounds  
 NT2 diiodotyrosine  
 NT2 erythrosine  
 NT2 ferron  
 NT2 iodinated alicyclic hydrocarbons  
 NT2 iodinated aliphatic hydrocarbons  
 NT3 iodoform  
 NT3 methyl iodide  
 NT2 iodinated aromatic hydrocarbons  
 NT2 iodouracils  
 NT3 iododeoxyuridine  
 NT2 lipiodol  
 NT2 mibg  
 NT2 pbi  
 NT2 rose bengal  
 NT2 thyroxine  
 RT halogen compounds  
 RT refrigerants

**ORGANIC INSULATORS**

- RT dielectric materials  
 RT electrical insulation  
 RT electrical insulators

**ORGANIC IODINE COMPOUNDS**

1996-10-23

- UF diodrast  
 UF hypaque  
 UF iodinated hydrocarbons  
 UF iodochloroquine  
 UF iodopyracet  
 UF ioglycamic acid  
 UF risa  
 \*BT1 organic halogen compounds  
 NT1 diiodotyrosine  
 NT1 erythrosine  
 NT1 ferron  
 NT1 iodinated alicyclic hydrocarbons  
 NT1 iodinated aliphatic hydrocarbons  
 NT2 iodoform  
 NT2 methyl iodide  
 NT1 iodinated aromatic hydrocarbons  
 NT1 iodouracils  
 NT2 iododeoxyuridine  
 NT1 lipiodol  
 NT1 mibg  
 NT1 pbi  
 NT1 rose bengal  
 NT1 thyroxine  
 RT iodine compounds

**ORGANIC ION EXCHANGERS**

- UF amberlite  
 UF dowex  
 UF permutit (organic)  
 \*BT1 ion exchange materials  
 NT1 polystyrene-dvb

**ORGANIC MATTER**

INIS: 1982-07-22; ETDE: 1980-10-27

Only for unspecified materials containing chain and ring compounds of carbon; if specific organic compounds are studied, use descriptors for the compounds.

- BT1 matter  
 NT1 kerogen  
 NT1 peat  
 RT acid neutralizing capacity  
 RT carbonaceous materials  
 RT geochemistry

**ORGANIC MERCURY COMPOUNDS**

1999-03-03

- BT1 organic compounds  
 NT1 methylmercury  
 RT mercury compounds

**organic moderated reactor experiment**

1993-11-09

USE omre reactor

**organic moderated reactor piqua**

2000-04-12

USE pnpf reactor

**ORGANIC MODERATED REACTORS**

- BT1 reactors  
 NT1 akr-1 reactor  
 NT1 eocr reactor  
 NT1 omr type reactors  
 NT2 arbus reactor  
 NT2 omre reactor  
 NT2 pnpf reactor  
 NT1 rospo reactor  
 NT1 sur-100 series reactor  
 NT1 viper reactor  
 NT1 zerlina reactor  
 RT organic moderators

**ORGANIC MODERATORS**

- BT1 moderators  
 RT aromatics  
 RT organic moderated reactors  
 RT polyphenyls

**ORGANIC NITROGEN COMPOUNDS**

1996-10-23

Excluding those concepts included under the descriptors: *PROTEINS, AMINES, ALKALOIDS, AMINO ACIDS, NUCLEIC ACIDS, and NUCLEOTIDES.*

- UF guanethidine  
 UF imidines  
 BT1 organic compounds  
 NT1 amides  
 NT2 acetamide  
 NT2 acrylamide  
 NT2 asparagine  
 NT2 dimethylformamide  
 NT2 formamide  
 NT2 glutamine  
 NT2 hydroxyurea  
 NT2 lactams  
 NT3 pyrrolidones  
 NT4 pvp  
 NT2 metrizamide  
 NT2 nicotinamide  
 NT2 sulfenamides  
 NT2 sulfonamides  
 NT2 thionalide  
 NT2 urea  
 NT1 amidines  
 NT1 azaarenes  
 NT2 acridines  
 NT3 acridine orange  
 NT3 flavines  
 NT4 acriflavine  
 NT4 proflavine  
 NT2 carbazoles  
 NT2 indoles  
 NT3 indigo  
 NT3 indocyanine green  
 NT3 lysergic acid  
 NT3 reserpine  
 NT3 strychnine  
 NT3 tryptamines  
 NT4 melatonin  
 NT4 serotonin  
 NT5 bufotenine  
 NT3 tryptophan  
 NT3 vinblastine  
 NT2 phenanthrolines  
 NT3 feroin

- NT3 phenanthroline-ortho  
 NT2 pteridines  
 NT3 aminopterin  
 NT3 folic acid  
 NT2 purines  
 NT3 adenines  
 NT4 kinetin  
 NT3 guanine  
 NT3 guanosine  
 NT3 hypoxanthine  
 NT3 inosine  
 NT3 mercaptopurine  
 NT3 xanthines  
 NT4 caffeine  
 NT4 theobromine  
 NT4 theophylline  
 NT4 uric acid  
 NT2 quinolines  
 NT3 ferron  
 NT3 oxine  
 NT3 quinaldine  
 NT1 azido compounds  
 NT1 azines  
 NT2 phenothiazines  
 NT3 chlorpromazine  
 NT3 methylene blue  
 NT2 pyrazines  
 NT3 phenazine  
 NT3 piperazines  
 NT2 pyridazines  
 NT3 phthalazines  
 NT4 luminol  
 NT2 pyridines  
 NT3 acridines  
 NT4 acridine orange  
 NT4 flavines  
 NT5 acriflavine  
 NT5 proflavine  
 NT3 bipyridines  
 NT3 nicotinamide  
 NT3 nicotine  
 NT3 nicotinic acid  
 NT3 picolines  
 NT4 picolinic acid  
 NT3 piperidines  
 NT4 dipyridamole  
 NT4 pethidine  
 NT4 triacetoneamine-n-oxyl  
 NT3 pyridine  
 NT3 pyridinium compounds  
 NT3 pyridoxal  
 NT3 pyridoxine  
 NT3 pyridoxylideneglutamate  
 NT3 pyridylazonaphthol  
 NT3 pyridylazoresorcinol  
 NT3 quinolines  
 NT4 ferron  
 NT4 oxine  
 NT4 quinaldine  
 NT2 pyrimidines  
 NT3 alloxan  
 NT3 barbiturates  
 NT4 nembutal  
 NT4 phenobarbital  
 NT3 cytidine  
 NT3 cytosine  
 NT3 deoxycytidine  
 NT3 thiamine  
 NT3 thymidine  
 NT4 fluorothymidine  
 NT3 uracils  
 NT4 bromouracils  
 NT5 budr  
 NT4 chlorouracils  
 NT4 deoxyuridine  
 NT4 fluorouracils  
 NT5 fudr  
 NT4 iodouracils  
 NT5 iododeoxyuridine

NT4 orotic acid  
 NT4 thiouracil  
 NT4 thymine  
 NT4 uridine  
 NT2 triazines  
 NT3 cyanurates  
 NT3 melamine  
 NT1 azo compounds  
 NT2 arsenazo  
 NT2 azo dyes  
 NT3 eriochrome dyes  
 NT3 evans blue  
 NT3 methyl orange  
 NT3 methyl red  
 NT3 toluidine blue  
 NT3 trypan blue  
 NT1 azoles  
 NT2 carbazoles  
 NT2 imidazoles  
 NT3 allantoin  
 NT3 benzimidazoles  
 NT3 biotin  
 NT3 creatinine  
 NT3 histamine  
 NT3 histidine  
 NT3 hydantoins  
 NT3 metronidazole  
 NT3 misonidazole  
 NT3 urocanic acid  
 NT2 oxadiazoles  
 NT2 oxazoles  
 NT3 benzoxazoles  
 NT3 popop  
 NT2 pyrazoles  
 NT3 indazoles  
 NT3 pyrazolines  
 NT4 antipyrine  
 NT2 pyrroles  
 NT3 bilirubin  
 NT3 indoles  
 NT4 indigo  
 NT4 indocyanine green  
 NT4 lysergic acid  
 NT4 reserpine  
 NT4 strychnine  
 NT4 tryptamines  
 NT5 melatonin  
 NT5 serotonin  
 NT6 bufotenine  
 NT4 tryptophan  
 NT4 vinblastine  
 NT3 pyrrolidines  
 NT4 hydroxyproline  
 NT4 nicotine  
 NT4 proline  
 NT3 pyrrolidones  
 NT4 pvp  
 NT2 tetrazoles  
 NT3 tetrazolium  
 NT2 thiadiazoles  
 NT2 thiazoles  
 NT3 benzothiazoles  
 NT3 saccharin  
 NT3 thiamine  
 NT2 triazoles  
 NT1 carbamates  
 NT2 dedtc  
 NT2 urethane  
 NT1 carbazides  
 NT1 carbazones  
 NT2 dithizone  
 NT1 cyanamides  
 NT1 diazo compounds  
 NT2 pyridylazonaphthol  
 NT2 pyridylazoresorcinol  
 NT2 thorin  
 NT1 dpca  
 NT1 gangliosides  
 NT1 guanidines

NT2 mibg  
 NT1 hydrazides  
 NT2 isoniazid  
 NT1 hydrazones  
 NT1 imides  
 NT2 nem  
 NT1 imines  
 NT2 creatinine  
 NT2 schiff bases  
 NT1 imipramine  
 NT1 isoalloxazines  
 NT2 diaphorase  
 NT1 melanin  
 NT1 morpholines  
 NT1 nitriles  
 NT2 acetonitrile  
 NT2 acrylonitrile  
 NT2 propiolonitrile  
 NT2 ttf-tenq  
 NT1 nitro compounds  
 NT2 dinitrophenol  
 NT2 dpph  
 NT2 metronidazole  
 NT2 misonidazole  
 NT2 nitrobenzene  
 NT2 nitromethane  
 NT2 nitrophenol  
 NT2 picric acid  
 NT2 polycyclic nitro compounds  
 NT2 tetryl  
 NT2 tnt  
 NT1 nitroso compounds  
 NT2 1-nitroso-2-naphthol  
 NT2 methyl nitrosoarea  
 NT2 nitrosamines  
 NT2 nitroso-r salt  
 NT2 nitrosoareas  
 NT1 oximes  
 NT2 benzoinoxime  
 NT2 dimethylglyoxime  
 NT1 parathion  
 NT1 porphyrins  
 NT2 chlorins  
 NT2 chlorophyll  
 NT2 hematoporphyrins  
 NT2 heme  
 NT2 hemoglobin  
 NT3 methemoglobin  
 NT2 hemosiderin  
 NT2 myoglobin  
 NT2 protoporphyrins  
 NT1 semicarbazides  
 NT1 semicarbazones  
 NT1 tamoxifen  
 NT1 thionine  
 RT diazotization  
 RT nitrogen compounds  
 RT squarylium dyes

#### ORGANIC OXYGEN COMPOUNDS

1996-07-18

*Excluding those concepts included under the descriptors: HYDROXY COMPOUNDS, CARBONIC ACID DERIVATIVES, LIPIDS, ORGANIC ACIDS, ALDEHYDES, KETONES, and ESTERS.*

UF murexide  
 UF parabanic acid  
 UF purpuric acid  
 UF tmpn  
 BT1 organic compounds  
 NT1 allantoin  
 NT1 alloxan  
 NT1 barbiturates  
 NT2 nembutal  
 NT2 phenobarbital  
 NT1 benzoyl peroxide  
 NT1 cyanurates  
 NT1 cytosine

NT1 dioxane  
 NT1 dioxin  
 NT1 epoxides  
 NT2 araldite  
 NT1 ethers  
 NT2 acetals  
 NT3 acetal  
 NT2 anisole  
 NT2 butyl ether  
 NT2 cellosolves  
 NT2 crown ethers  
 NT2 curcumin  
 NT2 dme  
 NT2 ethyl ether  
 NT2 isopropyl ether  
 NT2 methyl ether  
 NT2 methylal  
 NT2 mexamine  
 NT2 morpholines  
 NT2 phenyl ether  
 NT1 flavonoids  
 NT2 flavones  
 NT3 morin  
 NT3 quercetin  
 NT1 furans  
 NT2 benzofurans  
 NT2 furfural  
 NT2 tetrahydrofuran  
 NT3 mthf  
 NT1 heterocyclic oxygen compounds  
 NT2 pyrans  
 NT3 coumarin  
 NT3 hematoxylin  
 NT3 pyrones  
 NT3 quercetin  
 NT3 tetrahydropyran  
 NT1 isoalloxazines  
 NT2 diaphorase  
 NT1 ketenes  
 NT1 malathion  
 NT1 oxadiazoles  
 NT1 oxazoles  
 NT2 benzoxazoles  
 NT2 popop  
 NT1 psoralen  
 NT1 pyridoxal  
 NT1 quinones  
 NT2 anthraquinones  
 NT3 alizarin  
 NT3 carminic acid  
 NT3 quinzarin  
 NT2 benzoquinones  
 NT3 chloranil  
 NT3 chloranilic acid  
 NT3 plastoquinone  
 NT3 ubiquinone  
 NT2 rhodizonic acid  
 NT2 vitamin k  
 NT1 rhodamines  
 NT1 saccharin  
 NT1 semicarbazides  
 NT1 triacetoneamine-n-oxyl  
 NT1 trioxanes  
 NT1 xanthines  
 NT2 caffeine  
 NT2 theobromine  
 NT2 theophylline  
 NT2 uric acid  
 RT oxygen compounds

#### ORGANIC PHOSPHORUS COMPOUNDS

*Excluding those concepts covered by NUCLEIC ACIDS and NUCLEOTIDES.*

UF diphenylphosphine oxide  
 UF dpo  
 BT1 organic compounds  
 NT1 casein  
 NT1 cmpo

NT1 cystaphos  
 NT1 malathion  
 NT1 parathion  
 NT1 phosphinic acid esters  
 NT1 phosphinic acids  
 NT1 phosphocreatine  
 NT1 phospholipids  
   NT2 cardiopin  
   NT2 lecithins  
   NT2 sphingomyelins  
 NT1 phosphonates  
 NT1 phosphonic acid esters  
   NT2 damp  
   NT2 dhdecmp  
 NT1 phosphonic acids  
 NT1 phosphoric acid esters  
   NT2 butyl phosphates  
     NT3 dbp  
     NT3 mbp  
     NT3 tbp  
   NT2 hdehp  
   NT2 mdpa  
   NT2 phytic acid  
   NT2 tcp  
 NT1 tributylphosphine oxide  
 NT1 trioctylphosphine oxide  
 NT1 trioctylphosphine sulfide  
 NT1 triphenylphosphine  
 NT1 triphenylphosphine oxide  
 NT1 uridine diphosphoglucose  
 RT phosphine oxides  
 RT phosphines  
 RT phosphorus compounds  
 RT thiophosphoric acid esters

**ORGANIC POLYMERS**

UF *poly(isobutylene oxide)*  
 UF *polyacrylonitrile*  
 UF *polytetraoxane*  
 BT1 organic compounds  
 BT1 polymers  
 NT1 araldite  
 NT1 copolymers  
 NT1 graft polymers  
 NT1 neoprene  
 NT1 plastic foams  
 NT1 plastics  
   NT2 aramids  
   NT2 bakelite  
   NT2 formvar  
   NT2 lucite  
   NT2 mylar  
   NT2 nylon  
   NT2 perspex  
   NT2 plexiglas  
   NT2 polystyrene  
   NT2 polyurethanes  
     NT3 halthane  
   NT2 reinforced plastics  
   NT2 tedlar  
   NT2 teflon  
   NT2 thermoplastics  
 NT1 polyacetals  
   NT2 formvar  
   NT2 polyoxymethylenes  
 NT1 polyacetylenes  
 NT1 polyamides  
   NT2 nylon  
   NT2 polyurethanes  
     NT3 halthane  
 NT1 polycarbonates  
 NT1 polyesters  
   NT2 polyethylene terephthalate  
     NT3 dacron  
     NT3 homalite  
     NT3 mylar  
 NT1 polyethylene glycols  
   NT2 carbowax  
   NT2 pluronics

NT1 polyisoprene  
 NT1 polyolefins  
   NT2 polyethylenes  
     NT3 kel-f  
     NT3 polytetrafluoroethylene  
   NT4 teflon  
   NT2 polypropylene  
   NT2 polystyrene  
   NT2 polystyrene-dvb  
 NT1 polyvinyls  
   NT2 polyacrylates  
     NT3 lucite  
     NT3 perspex  
     NT3 plexiglas  
     NT3 pmma  
   NT2 polystyrene  
   NT2 polyvinyl acetate  
   NT2 pva  
   NT2 pvc  
   NT2 pvp  
   NT2 tedlar  
 NT1 resins  
 NT1 rubbers  
   NT2 buna  
   NT2 latex  
   NT2 natural rubber  
   NT2 silastic  
   NT2 viton  
 NT1 textolite  
 RT acrylonitrile  
 RT benzofurans  
 RT butadiene  
 RT concrete-plastic composites  
 RT fiberglass  
 RT melamine  
 RT plasticizers  
 RT polyphenyls  
 RT wood-plastic composites  
 RT xenobiotics

**ORGANIC SEMICONDUCTORS**

1992-05-29

\*BT1 semiconductor materials  
 RT organic compounds  
 RT organic solar cells  
 RT organic superconductors

**ORGANIC SILICON COMPOUNDS**

INIS: 1986-07-09; ETDE: 1984-05-09

UF *silicic acid esters*  
 BT1 organic compounds  
 NT1 silanes  
 NT1 siloxanes  
   NT2 silicones  
   NT3 silastic  
 RT silicon compounds

**ORGANIC SOLAR CELLS**

INIS: 1997-06-19; ETDE: 1979-05-02

\*BT1 solar cells  
 RT dyes  
 RT organic semiconductors  
 RT photovoltaic conversion  
 RT pis solar cells  
 RT ps solar cells

**ORGANIC SOLVENTS**

1996-10-22

(AMSCO and CARBITOLS have been valid ETDE descriptors.)

UF *amsc*  
 UF *carbitols*  
 UF *diglycol monoalkyl ethers*  
 \*BT1 nonaqueous solvents  
 NT1 cellosolves  
 NT1 solvesso  
 NT1 turpentine  
 RT butyl ether  
 RT carbon tetrachloride  
 RT chloroform

RT dhdecmp  
 RT dimethylformamide  
 RT dme  
 RT ethyl ether  
 RT isopropyl ether  
 RT methyl ether  
 RT solutions  
 RT trioxanes

**ORGANIC SULFUR COMPOUNDS**

1996-10-23

UF *ethyrene*  
 UF *ethyreneethyl phosphinate*  
 UF *pentothal*  
 UF *sulfinic acids*  
 UF *thio compounds*  
 UF *thioethers*  
 UF *thiopental*  
 UF *thiophosgene*  
 BT1 organic compounds  
 NT1 bedt-ttf  
 NT1 biotin  
 NT1 cystamine  
 NT1 dedtc  
 NT1 dimethyl sulfide  
 NT1 disulfides  
   NT2 cystine  
   NT2 thioctic acid  
 NT1 dithizone  
 NT1 ethionine  
 NT1 heparin  
 NT1 isothiocyanates  
 NT1 methionine  
 NT1 phenothiazines  
   NT2 chlorpromazine  
   NT2 methylene blue  
 NT1 polycyclic sulfur heterocycles  
 NT1 sulfenamides  
 NT1 sulfonamides  
 NT1 sulfonates  
   NT2 indocyanine green  
   NT2 petroleum sulfonates  
 NT1 sulfones  
 NT1 sulfonic acid esters  
   NT2 alkyl benzenesulfonates  
   NT2 ethyl methanesulfonate  
   NT2 methyl methanesulfonate  
   NT2 petroleum sulfonates  
 NT1 sulfonic acids  
   NT2 arsenazo  
   NT2 bromosulfophthalein  
   NT2 chromotropic acid  
   NT2 eriochrome dyes  
   NT2 evans blue  
   NT2 ferron  
   NT2 methyl orange  
   NT2 nitroso-r salt  
   NT2 sulfanilic acid  
   NT2 taurine  
   NT2 thorin  
   NT2 tiron  
   NT2 trypan blue  
   NT2 unithiol  
 NT1 sulfoxides  
   NT2 dmso  
   NT2 dpso  
 NT1 sulfuric acid esters  
 NT1 tetrathiafulvalene  
 NT1 thiadiazoles  
 NT1 thiazoles  
   NT2 benzothiazoles  
   NT2 saccharin  
   NT2 thiamine  
 NT1 thiocyanates  
   NT2 ammonium thiocyanates  
 NT1 thioic acids  
 NT1 thiols  
   NT2 cysteamine  
   NT2 cysteine

**NT2** dithiols  
**NT3** dimercaprol  
**NT3** unithiol  
**NT2** malathion  
**NT2** mercaptoethylguanidine  
**NT2** mercaptopurine  
**NT2** mpg  
**NT2** penicillamine  
**NT2** thionalide  
**NT2** thiouracil  
**NT1** thionaphthenes  
**NT1** thionates  
**NT1** thionine  
**NT1** thionyl halides  
**NT2** thionyl chlorides  
**NT1** thiophene  
**NT1** thiophenols  
**NT1** thioureas  
**NT2** beta-aminoethyl isothiourea  
**NT2** thiourea  
**NT1** trioctylphosphine sulfide  
**NT1** tta  
**NT1** ttf-tcnq  
**NT1** xanthates  
**NT2** viscose  
*RT* sulfur compounds  
*RT* thiophosphoric acid esters

### ORGANIC SUPERCONDUCTORS

*INIS: 2000-05-02; ETDE: 1991-02-22*

**BT1** superconductors  
**NT1** bedt-ttf  
**NT1** tmtsf  
**NT1** ttf-tcnq  
*RT* organic compounds  
*RT* organic semiconductors

### ORGANIC WASTES

*INIS: 1991-12-11; ETDE: 1975-09-11*

**BT1** wastes  
**NT1** agricultural wastes  
**NT2** bagasse  
**NT2** manures  
**NT1** compost  
**NT1** stillage  
**NT1** wood wastes  
*RT* biological wastes  
*RT* industrial wastes  
*RT* liquid wastes  
*RT* sewage  
*RT* solid wastes

### organizacion latinoamericana de energia

*2006-10-11*

USE olade

### organization economic co-operation and development

*1993-11-09*

USE oecd

### organization of american states

*INIS: 2000-04-12; ETDE: 1978-03-03*

USE international organizations

### ORGANIZATIONAL MODELS

*INIS: 1975-11-07; ETDE: 1975-12-16*

*UF* models (organizational)  
*RT* management  
*RT* organizing  
*RT* planning

### ORGANIZING

*RT* organizational models  
*RT* planning  
*RT* schedules

### organoids

*1994-08-22*

(Until August 1994 this was a valid descriptor.)

USE golgi complexes

### ORGANOLEPTIC PROPERTIES

**NT1** color  
**NT1** flavor  
**NT1** odor  
*RT* food  
*RT* preservation  
*RT* sense organs

### ORGANOMETALLIC COMPOUNDS

*For compounds of metals and semimetals with organic compounds, but only when the metal or semimetal is directly bound to carbon.*

**BT1** organic compounds  
**NT1** grignard reagents  
**NT1** lactoferrin  
**NT1** tetraethyl lead

### organophosphinic acids

*1992-01-10*

(Prior to January 1992, this was a valid ETDE descriptor.)

USE phosphinic acids

### ORGANS

*1996-04-30*

**BT1** body  
**NT1** blood vessels  
**NT2** arteries  
**NT3** aorta  
**NT3** carotid arteries  
**NT3** cerebral arteries  
**NT3** coronaries  
**NT2** capillaries  
**NT2** veins  
**NT3** portal system  
**NT1** bone marrow  
**NT1** brain  
**NT2** cerebellum  
**NT2** cerebrum  
**NT3** cerebral cortex  
**NT2** hippocampus  
**NT2** hypothalamus  
**NT2** olfactory bulbs  
**NT2** thalamus  
**NT1** critical organs  
**NT1** diaphragm  
**NT1** esophagus  
**NT1** female genitals  
**NT2** ovaries  
**NT2** uterus  
**NT1** glands  
**NT2** endocrine glands  
**NT3** adrenal glands  
**NT3** pancreas  
**NT3** parathyroid glands  
**NT3** pituitary gland  
**NT3** thyroid  
**NT2** liver  
**NT2** mammary glands  
**NT2** pineal gland  
**NT2** prostate  
**NT2** salivary glands  
**NT1** heart  
**NT2** myocardium  
**NT2** pericardium  
**NT1** intestines  
**NT2** large intestine  
**NT3** rectum  
**NT2** small intestine  
**NT1** kidneys  
**NT2** glomeruli  
**NT2** tubules  
**NT1** lungs  
**NT1** male genitals

**NT2** prostate  
**NT2** testes  
**NT1** perfused organs  
**NT1** pharynx  
**NT1** sense organs  
**NT2** auditory organs  
**NT2** eyes  
**NT3** conjunctiva  
**NT3** cornea  
**NT3** crystalline lens  
**NT3** lacrimal ducts  
**NT3** retina  
**NT3** uvea  
**NT2** taste buds  
**NT2** vestibular apparatus  
**NT1** skeleton  
**NT2** bone joints  
**NT2** exoskeleton  
**NT2** femur  
**NT2** skull  
**NT3** jaw  
**NT2** tibia  
**NT2** vertebrae  
**NT1** skin  
**NT2** epidermis  
**NT2** hair  
**NT2** hair follicles  
**NT2** nails  
**NT1** spleen  
**NT1** stomach  
**NT1** thymus  
**NT1** tongue  
**NT1** urinary tract  
**NT2** bladder  
**NT2** ureters  
*RT* animal tissues  
*RT* artificial organs  
*RT* biological regeneration  
*RT* biology  
*RT* blood flow  
*RT* cardiovascular system  
*RT* digestive system  
*RT* homogenates  
*RT* in vivo  
*RT* lymphatic system  
*RT* morphogenesis  
*RT* nervous system  
*RT* respiratory system  
*RT* retention

### ORGDP

*UF* *k-25 plant*  
*UF* *oak ridge gaseous diffusion plant*  
 \***BT1** gaseous diffusion plants  
 \***BT1** us doe  
 \***BT1** us erda  
*RT* gaseous diffusion process  
*RT* oak ridge  
*RT* oak ridge reservation  
*RT* tennessee

### orgel reactor

USE essor reactor

### ORIENTAL AMERICANS

*INIS: 2000-04-12; ETDE: 1982-01-21*

*UF* *american orientals*  
 \***BT1** minority groups  
*RT* sociology

### ORIENTATION

(From December 1975 till February 1997 AZIMUTH was a valid ETDE descriptor.)

*UF* *attitude control*  
*SF* *azimuth*  
**NT1** grain orientation  
**NT1** spin orientation  
*RT* anisotropy  
*RT* asymmetry  
*RT* configuration

RT incidence angle  
 RT isotropy  
 RT symmetry  
 RT tilt mechanisms

**orientation (grain)**

2000-04-12

USE grain orientation

**ORIENTED NUCLEI**

UF polarized nuclei  
 BT1 nuclei  
 RT nuclear alignment  
 RT polarization

**ORIFICES**

BT1 openings  
 RT apertures  
 RT flowmeters  
 RT nozzles  
 RT pipe fittings

**ORIGIN**

UF earthquake foci  
 UF genesis  
 RT catagenesis  
 RT cosmology  
 RT diagenesis  
 RT nucleosynthesis  
 RT orogenesis  
 RT petrogenesis  
 RT protostars  
 RT star evolution  
 RT white holes

**ORINS**

INIS: 2000-04-12; ETDE: 1984-12-26

UF oak ridge institute of nuclear studies  
 \*BT1 us organizations

**orion computers**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE computers

**ORMAK DEVICES**

\*BT1 tokamak devices

**ORNAMENTAL PLANTS**

BT1 plants  
 RT aesthetics

**ORNITHINE**

UF 2,5-diaminovaleric acid  
 \*BT1 amino acids

**ORNL**

UF oak ridge national laboratory  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
 RT oak ridge  
 RT oak ridge reservation  
 RT tennessee

**ORNL ISOCRONOUS****CYCLOTRON**

\*BT1 isochronous cyclotrons  
 RT hhirf accelerator

**ORNL-PCA REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.

UF pca-ornl reactor  
 UF pool critical assembly ornl  
 \*BT1 zero power reactors

**ornl research reactor**

USE orr reactor

**ornl x-10 area graphite reactor**

USE x-10 reactor

**OROGENESIS**

The process of mountain making, especially by folding of the earth's crust.

RT mountains  
 RT origin  
 RT petrogenesis  
 RT rocks

**OROTIC ACID**

UF 6-carboxyuracil  
 UF uracil-6-carboxylic acid  
 \*BT1 heterocyclic acids  
 \*BT1 uracils

**ORPHEE REACTOR**

1979-11-02

High flux reactor at Saclay Nuclear Research Centre, Gif-sur-Yvette, France.

\*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 water cooled reactors

**ORR REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1987.

UF oak ridge research reactor  
 UF ornl research reactor

\*BT1 enriched uranium reactors  
 \*BT1 tank type reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**orsat apparatus**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

SEE gas analysis

**orsay alice cyclotron**

USE alice cyclotron

**ORSAY CYCLOTRON**

\*BT1 isochronous cyclotrons

**ORSAY LINAC**

\*BT1 linear accelerators

**ORSAY STORAGE RINGS**

2005-01-25

(Prior to January 2005 ACO was used for this concept.)

UF aco (anneau de collisions d'orsay)  
 UF anneau de collisions d'orsay  
 BT1 storage rings

**ORSAY SYNCHROCYCLOTRON**

INIS: 1984-10-23; ETDE: 1990-11-20

\*BT1 synchrocyclotrons

**ORSAY TANDEM ACCELERATOR**

INIS: 1977-01-25; ETDE: 1977-04-13

\*BT1 tandem electrostatic accelerators  
 \*BT1 van de graaff accelerators

**orthicons**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE camera tubes

**orthite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE allanite

**ORTHOCLASE**

INIS: 2000-04-12; ETDE: 1983-06-20

A white to pale yellow, red, or transparent mineral of the feldspar group, monoclinic in form.

\*BT1 feldspars  
 RT aluminium silicates

**orthogonal pinch devices (linear)**

USE linear theta pinch devices

**ORTHOGONAL TRANSFORMATIONS**

BT1 transformations  
 NT1 moshinsky transformation

**orthoiodohippurate**

INIS: 1975-10-23; ETDE: 2002-04-17

USE hippuran

**ORTHONOL**

2000-04-12

\*BT1 iron alloys  
 \*BT1 nickel alloys

**ORTHOPTERA**

INIS: 1993-07-15; ETDE: 1981-06-16

\*BT1 insects  
 NT1 grasshoppers  
 NT2 locusts

**ORTHORHOMBIC LATTICES**

\*BT1 three-dimensional lattices

**oryza**

USE rice

**OSAMU UTSUMI MINE**

INIS: 1993-02-09; ETDE: 1992-11-20

\*BT1 uranium mines  
 RT brazil

**OSCILLATION MODES**

UF modes (oscillation)  
 UF vibration modes  
 NT1 bernstein mode  
 NT1 optical modes  
 NT1 single-particle modes  
 RT harmonics  
 RT lattice vibrations  
 RT mode control  
 RT mode conversion  
 RT mode selection  
 RT oscillations  
 RT plasma waves

**oscillation techniques (pile)**

USE pile oscillation techniques

**OSCILLATIONS**

(From February 1976 till March 1997 pendulums was a valid ETDE descriptor.)

SF pendulums  
 NT1 betatron oscillations  
 NT1 harmonics  
 NT2 cyclotron harmonics  
 NT1 phase oscillations  
 NT1 sawtooth oscillations  
 NT1 synchrotron oscillations  
 RT amplitudes  
 RT disturbances  
 RT mechanical vibrations  
 RT nyquist diagrams  
 RT oscillation modes  
 RT periodicity  
 RT pulsations  
 RT samarium oscillations  
 RT variations  
 RT xenon oscillations

**oscillations (plasma)**

USE plasma waves

**OSCILLATOR STRENGTHS**

RT einstein coefficients  
 RT energy-level transitions  
 RT optical depth curve  
 RT spectroscopic curve of growth  
 RT strength functions

**OSCILLATORS**

- \*BT1 electronic equipment
- NT1** blocking oscillators
- NT1** parametric oscillators
- NT1** transistor oscillators
- RT* electronic circuits
- RT* pulse techniques
- RT* reactor oscillators
- RT* resonators
- RT* semiconductor devices

**oscillators (reactor)**

- USE reactor oscillators

**OSCILLOGRAPHS**

- \*BT1 electronic equipment
- RT* cathode ray tubes

**OSEEN METHOD**

- BT1 calculation methods
- RT* fluid flow

**osha**

- INIS: 2000-04-12; ETDE: 1978-06-14*
- USE us osha

**oshima oi-1 reactor**

- USE oi-1 reactor

**oshima oi-2 reactor**

- USE oi-2 reactor

**OSIRIS REACTOR**

- CEA/CEN de Saclay, Gif-sur-Yvette, France.*
- shut down since 2015. Under decommissioning.*

- \*BT1 enriched uranium reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**oskarshamn-1 reactor**

- USE okg-1 reactor

**oskarshamn-2 reactor**

- USE okg-2 reactor

**oskarshamn-3 reactor**

- USE okg-3 reactor

**oskarshamn-4 reactor**

- USE okg-4 reactor

**OSLO CYCLOTRON**

- INIS: 1980-07-24; ETDE: 1980-08-12*
- \*BT1 isochronous cyclotrons

**OSMIUM**

- \*BT1 platinum metals
- \*BT1 refractory metals

**OSMIUM 161**

- 2009-08-28*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 162**

- INIS: 1989-07-19; ETDE: 1989-08-01*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 163**

- INIS: 1986-05-08; ETDE: 1986-07-03*
- \*BT1 alpha decay radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes

**OSMIUM 164**

- INIS: 1986-05-08; ETDE: 1986-07-03*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 165**

- INIS: 1978-11-24; ETDE: 1978-12-20*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 166**

- INIS: 1978-02-23; ETDE: 1978-05-01*
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 167**

- INIS: 1978-02-23; ETDE: 1978-05-01*
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 168**

- INIS: 1978-02-23; ETDE: 1979-04-12*
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 169**

- INIS: 1982-08-27; ETDE: 1979-09-26*
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 170**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 171**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 172**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 173**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 174**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 175**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 176**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 177**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 178**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 179**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 180**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 181**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 182**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes



\*BT1 osmium isotopes

### OSMIUM 183

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 osmium isotopes

### OSMIUM 184

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 osmium isotopes  
 \*BT1 stable isotopes

### OSMIUM 184 TARGET

*ETDE: 1976-07-09*

BT1 targets

### OSMIUM 185

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 osmium isotopes

### OSMIUM 186

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 osmium isotopes  
 \*BT1 stable isotopes  
 \*BT1 years living radioisotopes

### OSMIUM 186 TARGET

*ETDE: 1976-07-09*

BT1 targets

### OSMIUM 187

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 osmium isotopes  
 \*BT1 stable isotopes

### OSMIUM 187 TARGET

*ETDE: 1976-07-09*

BT1 targets

### OSMIUM 188

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 osmium isotopes  
 \*BT1 stable isotopes

### OSMIUM 188 TARGET

*ETDE: 1976-07-09*

BT1 targets

### OSMIUM 189

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 osmium isotopes  
 \*BT1 stable isotopes

### OSMIUM 189 TARGET

*ETDE: 1976-07-09*

BT1 targets

### OSMIUM 190

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 osmium isotopes  
 \*BT1 stable isotopes

### OSMIUM 190 TARGET

*ETDE: 1976-07-09*

BT1 targets

### OSMIUM 191

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 osmium isotopes

### OSMIUM 191 TARGET

*INIS: 1979-04-27; ETDE: 1979-05-25*

BT1 targets

### OSMIUM 192

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 osmium isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 stable isotopes

### OSMIUM 192 TARGET

*ETDE: 1976-07-09*

BT1 targets

### OSMIUM 193

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 osmium isotopes

### OSMIUM 193 TARGET

*INIS: 1992-09-23; ETDE: 1982-03-29*

BT1 targets

### OSMIUM 194

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 osmium isotopes  
 \*BT1 years living radioisotopes

### OSMIUM 195

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 osmium isotopes

### OSMIUM 196

*INIS: 1977-01-26; ETDE: 1976-10-13*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 osmium isotopes

### OSMIUM 197

*2006-10-13*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 osmium isotopes

### OSMIUM 199

*2007-11-22*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 osmium isotopes  
 \*BT1 seconds living radioisotopes

### OSMIUM 200

*2010-03-02*

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 osmium isotopes  
 \*BT1 seconds living radioisotopes

### OSMIUM ADDITIONS

*Alloys containing not more than 1% Os are listed here.*

\*BT1 osmium alloys

### OSMIUM ALLOYS

*Alloys containing more than 1% Os.*

\*BT1 platinum metal alloys

NT1 osmium additions

NT1 osmium base alloys

### OSMIUM BASE ALLOYS

\*BT1 osmium alloys

### OSMIUM BORIDES

*INIS: 1976-02-05; ETDE: 1975-12-16*

\*BT1 borides

\*BT1 osmium compounds

### OSMIUM CARBIDES

*INIS: 1991-09-16; ETDE: 1976-01-23*

\*BT1 carbides

\*BT1 osmium compounds

### OSMIUM CHLORIDES

\*BT1 chlorides

\*BT1 osmium halides

### OSMIUM COMPLEXES

\*BT1 transition element complexes

### OSMIUM COMPOUNDS

*1997-06-18*

BT1 refractory metal compounds

BT1 transition element compounds

NT1 osmium borides

NT1 osmium carbides

NT1 osmium halides

NT2 osmium chlorides

NT2 osmium fluorides

NT1 osmium nitrides

NT1 osmium oxides

NT1 osmium phosphides

NT1 osmium sulfates

NT1 osmium sulfides

### OSMIUM FLUORIDES

\*BT1 fluorides

\*BT1 osmium halides

### OSMIUM HALIDES

*2012-07-20*

\*BT1 halides

\*BT1 osmium compounds

NT1 osmium chlorides

NT1 osmium fluorides

### OSMIUM IONS

\*BT1 ions

### OSMIUM ISOTOPES

*1999-07-16*

BT1 isotopes

NT1 osmium 161

NT1 osmium 162

NT1 osmium 163

NT1 osmium 164

NT1 osmium 165

NT1 osmium 166

NT1 osmium 167

NT1 osmium 168

NT1 osmium 169

NT1 osmium 170

NT1 osmium 171

NT1 osmium 172

NT1 osmium 173

NT1 osmium 174

NT1 osmium 175

NT1 osmium 176  
 NT1 osmium 177  
 NT1 osmium 178  
 NT1 osmium 179  
 NT1 osmium 180  
 NT1 osmium 181  
 NT1 osmium 182  
 NT1 osmium 183  
 NT1 osmium 184  
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 NT1 osmium 186  
 NT1 osmium 187  
 NT1 osmium 188  
 NT1 osmium 189  
 NT1 osmium 190  
 NT1 osmium 191  
 NT1 osmium 192  
 NT1 osmium 193  
 NT1 osmium 194  
 NT1 osmium 195  
 NT1 osmium 196  
 NT1 osmium 197  
 NT1 osmium 199  
 NT1 osmium 200

**OSMIUM NITRIDES**

2010-02-24

\*BT1 nitrides  
 \*BT1 osmium compounds

**OSMIUM OXIDES**

\*BT1 osmium compounds  
 \*BT1 oxides

**OSMIUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1984-06-14

\*BT1 osmium compounds  
 \*BT1 phosphides

**OSMIUM SULFATES**

INIS: 1996-07-08; ETDE: 1977-04-12

(From June 1996 to November 2007  
 OSMIUM COMPOUNDS + SULFATES was  
 used for this concept.)

\*BT1 osmium compounds  
 \*BT1 sulfates

**OSMIUM SULFIDES**

INIS: 2000-04-12; ETDE: 1977-03-04

\*BT1 osmium compounds  
 \*BT1 sulfides

**OSMOSIS**

UF reverse osmosis  
 BT1 diffusion  
 RT advection  
 RT donnan theory  
 RT hypertonic solutions  
 RT isotonic solutions  
 RT mass transfer  
 RT membrane transport  
 RT membranes  
 RT molecular weight  
 RT permeability

**osmotic power plants**

INIS: 2000-04-12; ETDE: 1977-09-19

USE salinity gradient power plants

**osteitis (radioinduced)**

USE osteoradionecrosis

**osteoblasts**

USE connective tissue cells

**osteocytes**

USE bone cells

**OSTEODENSITOMETRY**

\*BT1 biomedical radiography  
 RT bone mineral density  
 RT bone tissues

RT osteoporosis  
 RT scintiscanning

**OSTEOMYELITIS**

\*BT1 skeletal diseases  
 RT bone tissues

**OSTEOPOROSIS**

\*BT1 skeletal diseases  
 RT bone mineral density  
 RT bone tissues  
 RT osteodensitometry

**OSTEORADIONECROSIS**

UF osteitis (radioinduced)

\*BT1 local radiation effects  
 \*BT1 necrosis  
 \*BT1 radiation injuries  
 \*BT1 skeletal diseases  
 RT bone tissues

**OSTEOSARCOMAS**

\*BT1 sarcomas  
 \*BT1 skeletal diseases  
 RT bone tissues

**OSTR REACTOR**

Oregon State Univ., Corvallis, Oregon, USA.

UF oregon state triga reactor  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**OSUR REACTOR**

Ohio State Univ., Columbus, Ohio, USA.

UF ohio state university reactor  
 \*BT1 pool type reactors  
 \*BT1 training reactors

**oswego nuclear power plant**

USE nine mile point-2 reactor

**OTAKE GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields  
 RT geothermal hot-water systems  
 RT japan

**otec**

INIS: 1991-12-11; ETDE: 1981-01-27  
 USE ocean thermal energy conversion

**otec foam-lift cycle**

INIS: 2000-04-12; ETDE: 1980-08-12  
 USE lift cycles

**otec lift cycles**

INIS: 2000-04-12; ETDE: 1980-08-12  
 USE lift cycles

**otec mist-lift cycle**

INIS: 2000-04-12; ETDE: 1980-08-12  
 USE mist-lift cycles

**OTHER ORGANIC COMPOUNDS**

For organic materials, usually naturally  
 occurring, composed of undetermined or  
 mixed organic compounds.

BT1 organic compounds  
 NT1 amber  
 NT1 asphaltite  
 NT1 oils  
 NT2 coal tar oils  
 NT2 essential oils  
 NT2 fish oil  
 NT2 insulating oils  
 NT2 lipiodol  
 NT2 lubricating oils  
 NT2 pyrolytic oils  
 NT2 road oils  
 NT2 shale tar oils  
 NT2 tall oil

NT2 triolein  
 NT2 vegetable oils  
 NT3 castor oil  
 NT3 corn oil  
 NT3 cottonseed oil  
 NT3 linseed oil  
 NT3 olive oil  
 NT3 palm oil  
 NT3 peanut oil  
 NT3 sesame oil  
 NT3 soybean oil  
 NT3 sunflower oil  
 NT2 waste oils  
 NT2 wood oils  
 NT1 pitches  
 NT1 soaps  
 NT1 tar  
 NT2 bitumens  
 NT3 asphalts  
 NT3 coal tar  
 NT3 thucholite  
 NT2 shale tar  
 NT1 waxes  
 NT2 carbowax  
 NT2 paraffin

**OTISCA PROCESS**

INIS: 2000-04-12; ETDE: 1981-06-13  
 Heavy media separation process using  
 chlorofluoromethanes.

\*BT1 heavy media separation

**OTTAWA RIVER**

\*BT1 rivers  
 RT ontario  
 RT quebec

**ottawa slowpoke reactor**

INIS: 1984-06-21; ETDE: 2002-04-17  
 USE slowpoke-ottawa reactor

**OTTERS**

INIS: 1993-05-04; ETDE: 1984-05-08  
 \*BT1 mammals  
 RT aquatic ecosystems  
 RT aquatic organisms

**OTTO CYCLE**

2000-04-12  
 BT1 thermodynamic cycles

**otto hahn (nuclear ship)**

USE ns otto hahn

**OTTO HAHN REACTOR**

UF fdr reactor  
 UF nuclear ship otto hahn reactor  
 \*BT1 pwr type reactors  
 \*BT1 ship propulsion reactors  
 RT ns otto hahn

**OTTO PROCESS**

2000-04-12  
 Process for removal of hydrogen sulfide from  
 coal gas.  
 \*BT1 desulfurization  
 RT sulfur

**OTTO RUMMEL SLAG BATH PROCESS**

INIS: 2000-04-12; ETDE: 1977-05-07  
 Slag bath gasification using either steam or  
 oxygen-steam; steam blown system requires a  
 dual shaft, which permits the separation of the  
 combustor function from the gasification  
 function, thereby permitting synthesis gas  
 generation with low nitrogen content.  
 \*BT1 coal gasification

**OUABAIN**

\*BT1 strophanthins

**OUNCE METAL**

2000-04-12

- \*BT1 copper base alloys
- \*BT1 lead alloys
- \*BT1 nickel additions
- \*BT1 tin alloys
- \*BT1 zinc alloys
- RT brass

**OUTAGES**

INIS: 1995-03-27; ETDE: 1979-07-18

*Accidental or planned shutdowns or significant reductions of all or part of an electrical or thermal power system.*

- UF blackouts
- UF brownouts
- RT accidents
- RT availability
- RT capacity
- RT failures
- RT maintenance
- RT power losses
- RT power plants
- RT power supplies
- RT power systems
- RT power transmission
- RT reliability
- RT shutdown

**OUTDOORS**

INIS: 2004-05-14; ETDE: 2004-11-02

*Only for documents where this concept is significant. Consider also more specific descriptors such as ARCTIC REGIONS or one indicating the temperature range.*

- RT ambient temperature
- RT climates
- RT indoors

**outer continental shelf**

INIS: 2000-04-12; ETDE: 1979-11-23

- USE continental shelf

**outgassing**

- USE degassing

**OUTLET STRUCTURES**

INIS: 2000-04-12; ETDE: 1979-05-31

- BT1 mechanical structures

**output**

INIS: 2000-04-12; ETDE: 1980-05-06

- USE production

**OVA**

- \*BT1 gametes
- RT eggs
- RT fertilization
- RT life cycle
- RT oocytes
- RT oogenesis
- RT ovulation

**OVALBUMIN**

- \*BT1 glucoproteins

**OVARIES**

- \*BT1 female genitals
- BT1 gonads
- RT estrogens
- RT oogenesis
- RT ovulation
- RT progesterone

**OVEN COKE**

INIS: 2000-04-12; ETDE: 1979-09-27

- BT1 coke

**OVENS**

INIS: 1999-12-31; ETDE: 1982-08-11

- \*BT1 appliances
- NT1 microwave ovens

- RT electric appliances
- RT gas appliances
- RT stoves
- RT wood burning appliances

**OVERBURDEN**

1990-12-07

*The loose soil, silt, sand, gravel, or other unconsolidated material overlying bedrock, either transported or formed in place.*

- SF regolith
- RT dusts
- RT earth mantle
- RT mining
- RT rock mechanics
- RT rocks
- RT soil mechanics

**OVERCURRENT**

1986-04-03

- \*BT1 electric currents
- RT surges
- RT transients

**OVERHAUSER EFFECT**

1980-07-24

- RT electron spin resonance
- RT nuclear magnetic resonance
- RT nuclei
- RT polarization

**OVERHEAD POWER****TRANSMISSION**

INIS: 1992-06-04; ETDE: 1976-08-04

- BT1 power transmission
- RT power transmission towers

**OVERPRESSURE**

2018-02-16

- RT bombs
- RT explosions
- RT nuclear weapons
- RT pressure dependence
- RT pressure vessels

**overthrust belt**

INIS: 2000-04-12; ETDE: 1982-07-27

- USE western us overthrust belt

**OVERVOLTAGE**

1999-06-30

- RT breakdown
- RT electric potential
- RT electrical transients
- RT surges
- RT transients
- RT var control systems

**OVULATION**

- RT estrous cycle
- RT fertilization
- RT menstrual cycle
- RT ova
- RT ovaries
- RT reproduction

**OWNERSHIP**

INIS: 1978-11-24; ETDE: 1977-07-23

(From December 1977 until March 1996 MULTINATIONAL OWNERSHIP was a valid ETDE descriptor.)

- UF multinational ownership
- NT1 land ownership
- RT legal aspects
- RT mineral rights
- RT property rights
- RT public enterprises
- RT solar rights

**OWR REACTOR**

*Univ. of California, LANL, Los Alamos, New Mexico, USA.*

- UF los alamos omega west reactor
- UF omega west reactor
- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**OXADIAZOLES**

*Compounds that contain a five-membered heterocyclic ring containing one oxygen and two nitrogen atoms.*

- \*BT1 azoles
- \*BT1 organic oxygen compounds

**oxalaldehyde**

- USE glyoxal

**OXALATES**

- BT1 carboxylic acid salts
- RT oxalic acid esters

**OXALIC ACID**

- \*BT1 dicarboxylic acids

**OXALIC ACID ESTERS**

- \*BT1 carboxylic acid esters
- RT oxalates

**OXAZOLES**

1996-01-24

*Compounds that contain a five-membered heterocyclic ring containing one nitrogen and one oxygen atom.*

- \*BT1 azoles
- \*BT1 organic oxygen compounds
- NT1 benzoxazoles
- NT1 popop

**oxetane**

INIS: 2000-04-12; ETDE: 1980-12-08

- USE ethers
- USE heterocyclic oxygen compounds

**oxidants**

INIS: 1983-02-04; ETDE: 1977-01-10

- USE oxidizers

**OXIDASES**

1996-11-13

- \*BT1 oxidoreductases
- NT1 cytochrome oxidase
- NT1 luciferase

**OXIDATION**

- UF disproportionation
- BT1 chemical reactions
- NT1 combustion
- NT2 cocombustion
- NT2 fluidized-bed combustion
- NT2 in-situ combustion
- NT2 oxyfuel combustion process
- NT2 pulse combustion
- NT2 reverse combustion
- NT2 spontaneous combustion
- NT2 staged combustion
- NT1 roasting
- RT anoxia
- RT antioxidants
- RT bioreactors
- RT corrosion
- RT corrosion products
- RT oxidizers
- RT oxidoreductases
- RT redox potential
- RT redox reactions
- RT reduction

RT sesame process  
 RT sulfation  
 RT thiobacillus ferrooxidans  
 RT thiobacillus oxidans  
 RT wet oxidation processes

**oxidation-reduction**

2016-05-03

USE redox reactions

**oxidation state**

INIS: 2000-04-12; ETDE: 1980-10-27

USE valence

**OXIDE MINERALS**

INIS: 1996-11-13; ETDE: 1982-05-12

(The UF terms below have been valid ETDE descriptors.)

UF *aeschynite*  
 UF *cerianite*  
 UF *coesite*  
 UF *curite*  
 UF *dauidite*  
 UF *demesmaekerite*  
 UF *francevillite*  
 UF *gummite*  
 UF *hatchettolite*  
 UF *iriginite*  
 UF *masuyite*  
 UF *moluranite*  
 UF *strelkinite*  
 UF *umohoite*  
 UF *uranothorianite*  
 UF *wulfenite*  
 UF *zeunerite*  
 BT1 minerals  
 NT1 baddeleyite  
 NT1 bastnaesite  
 NT1 becquerelite  
 NT1 billietite  
 NT1 brannerite  
 NT1 chrysoberyl  
 NT1 clarkeite  
 NT1 compregnacite  
 NT1 corundum  
 NT2 ruby  
 NT2 sapphire  
 NT1 corvusite  
 NT1 cristobalite  
 NT1 ellsworthite  
 NT1 ferghanite  
 NT1 ferrite garnets  
 NT1 gibbsite  
 NT1 goethite  
 NT1 guilleminite  
 NT1 hallimondite  
 NT1 heinrichite  
 NT1 hematite  
 NT1 hollandite  
 NT1 ianthinite  
 NT1 ilmenite  
 NT1 kahlerite  
 NT1 kaolin  
 NT1 kirchheimerite  
 NT1 limonite  
 NT1 lodochnikite  
 NT1 lyndochite  
 NT1 magnetite  
 NT1 marignacite  
 NT1 melanovanadite  
 NT1 moctezumite  
 NT1 mullite  
 NT1 naegite  
 NT1 nogizawalite  
 NT1 nordstrandite  
 NT1 novacekite  
 NT1 para-schoepite  
 NT1 pascoite  
 NT1 perovskite  
 NT1 quartz

NT1 rauvite  
 NT1 rutile  
 NT1 schoepite  
 NT1 sengierite  
 NT1 silica  
 NT2 opals  
 NT1 spinels  
 NT1 stishovite  
 NT1 tantalite  
 NT1 tapiolite  
 NT1 thorianite  
 NT1 tyuyamunite  
 NT1 uraninites  
 NT2 broeggerite  
 NT2 pitchblende  
 NT1 uranium black  
 NT1 wolframite  
 NT1 zirconolite  
 RT aluminium oxides  
 RT arsenic oxides  
 RT barium oxides  
 RT calcium oxides  
 RT cerium oxides  
 RT cobalt oxides  
 RT copper oxides  
 RT hafnium oxides  
 RT iron oxides  
 RT kimberlites  
 RT lead oxides  
 RT magnesium oxides  
 RT manganese oxides  
 RT molybdenum oxides  
 RT niobium oxides  
 RT perovskites  
 RT potassium oxides  
 RT selenium oxides  
 RT shales  
 RT silicon oxides  
 RT sodium oxides  
 RT tantalum oxides  
 RT tellurium oxides  
 RT thorium oxides  
 RT titanium oxides  
 RT tungsten oxides  
 RT uranium oxides  
 RT vanadium oxides  
 RT zirconium oxides

**OXIDES**

1997-06-19

BT1 chalcogenides  
 BT1 oxygen compounds  
 NT1 actinium oxides  
 NT1 aluminium oxides  
 NT1 americium oxides  
 NT1 antimony oxides  
 NT1 argon oxides  
 NT1 arsenic oxides  
 NT1 barium oxides  
 NT1 berkelium oxides  
 NT1 beryllium oxides  
 NT1 bismuth oxides  
 NT1 boron oxides  
 NT1 bromine oxides  
 NT1 cadmium oxides  
 NT1 calcium oxides  
 NT1 californium oxides  
 NT1 carbon oxides  
 NT2 carbon dioxide  
 NT2 carbon monoxide  
 NT1 cerium oxides  
 NT1 cesium oxides  
 NT1 chlorine oxides  
 NT1 chromium oxides  
 NT1 cobalt oxides  
 NT1 copper oxides  
 NT1 curium oxides  
 NT1 dysprosium oxides  
 NT1 einsteinium oxides

NT1 erbium oxides  
 NT1 europium oxides  
 NT1 fermium oxides  
 NT1 fluorine oxides  
 NT1 gadolinium oxides  
 NT1 gallium oxides  
 NT1 germanium oxides  
 NT1 gold oxides  
 NT1 hafnium oxides  
 NT1 helium oxides  
 NT1 holmium oxides  
 NT1 indium oxides  
 NT1 iodine oxides  
 NT1 iridium oxides  
 NT1 iron oxides  
 NT1 krypton oxides  
 NT1 lanthanum oxides  
 NT1 lead oxides  
 NT1 lithium oxides  
 NT1 lutetium oxides  
 NT1 magnesium oxides  
 NT1 manganese oxides  
 NT1 mendelevium oxides  
 NT1 mercury oxides  
 NT1 molybdenum oxides  
 NT2 molybdenum blue  
 NT1 neodymium oxides  
 NT1 neon oxides  
 NT1 neptunium oxides  
 NT1 nickel oxides  
 NT1 niobium oxides  
 NT1 nitrogen oxides  
 NT2 nitric oxide  
 NT2 nitrogen dioxide  
 NT2 nitrous oxide  
 NT1 nobelium oxides  
 NT1 osmium oxides  
 NT1 palladium oxides  
 NT1 phosphorus oxides  
 NT1 platinum oxides  
 NT1 plutonium oxides  
 NT2 plutonium dioxide  
 NT1 polonium oxides  
 NT1 potassium oxides  
 NT1 praseodymium oxides  
 NT1 promethium oxides  
 NT1 protactinium oxides  
 NT1 radium oxides  
 NT1 radon oxides  
 NT1 rhenium oxides  
 NT1 rhodium oxides  
 NT1 rubidium oxides  
 NT1 ruthenium oxides  
 NT1 samarium oxides  
 NT1 scandium oxides  
 NT1 selenium oxides  
 NT1 silicon oxides  
 NT1 silver oxides  
 NT1 sodium oxides  
 NT2 sodium tungsten bronze  
 NT1 strontium oxides  
 NT1 sulfur oxides  
 NT2 sulfur dioxide  
 NT2 sulfur trioxide  
 NT1 tantalum oxides  
 NT1 technetium oxides  
 NT1 tellurium oxides  
 NT1 terbium oxides  
 NT1 thallium oxides  
 NT1 thorium oxides  
 NT2 thorotrast  
 NT1 thulium oxides  
 NT1 tin oxides  
 NT1 titanium oxides  
 NT1 tritium oxides  
 NT1 tungsten oxides  
 NT2 sodium tungsten bronze  
 NT1 uranium oxides  
 NT2 uranium dioxide

- NT2 uranium oxides u3o8  
 NT2 uranium trioxide  
 NT1 vanadium oxides  
 NT1 xenon oxides  
 NT1 ytterbium oxides  
 NT1 yttrium oxides  
 NT2 alloy-in-853  
 NT1 zinc oxides  
 NT1 zirconium oxides  
 RT ceramics  
 RT corrosion products  
 RT oxybromides  
 RT oxycarbides  
 RT oxychlorides  
 RT oxyfluorides  
 RT oxygen additions  
 RT oxyiodides  
 RT oxynitrates  
 RT oxyselenides  
 RT oxysulfides  
 RT oxytellurides

**OXIDIZERS**

- INIS: 1983-02-04; ETDE: 1977-01-10  
 UF oxidants  
 UF oxidizing agents  
 RT antioxidants  
 RT oxidation

**oxidizing agents**

- INIS: 1983-02-04; ETDE: 1977-01-10  
 USE oxidizers

**OXIDOREDUCTASES**

- 1997-06-17  
 Code number 1.  
 (DEHYDROGENASES, HAEM DEHYDROGENASES, and NUCLEOTIDE DEHYDROGENASES have been valid descriptors.)  
 UF dehydrogenases  
 UF haem dehydrogenases  
 UF nucleotide dehydrogenases  
 UF reductases  
 \*BT1 enzymes  
 NT1 amine oxidases  
 NT1 aryl 4-monooxygenase  
 NT1 diaphorase  
 NT1 hemiacetal dehydrogenases  
 NT2 alcohol dehydrogenase  
 NT2 lactate dehydrogenase  
 NT1 hydrogenases  
 NT1 hydroxylases  
 NT2 tyrosinase  
 NT1 nitro-group dehydrogenases  
 NT2 nitrogenase  
 NT1 oxidases  
 NT2 cytochrome oxidase  
 NT2 luciferase  
 NT1 oxygenases  
 NT2 mixed-function oxidases  
 NT1 peroxidases  
 NT2 catalase  
 NT1 superoxide dismutase  
 RT oxidation  
 RT redox process  
 RT reduction  
 RT respiration

**OXIMES**

- 1996-10-23  
 UF furildioxime  
 \*BT1 amines  
 \*BT1 hydroxy compounds  
 \*BT1 organic nitrogen compounds  
 NT1 benzoinoxime  
 NT1 dimethylglyoxime  
 RT aldehydes  
 RT hydroxylamine  
 RT ketones

**OXINE**

- 1980-07-24  
 UF 8-hydroxyquinoline  
 UF 8-quinolinol  
 \*BT1 hydroxy compounds  
 \*BT1 quinolines

**oxirans**

- USE epoxides

**oxoacetic acid**

- USE glyoxylic acid

**oxocarboxylic acids**

- USE keto acids

**OXONIUM IONS**

- UF hydronium ions  
 \*BT1 molecular ions  
 RT hydrogen ions 1 plus  
 RT radiation chemistry

**oxopropane**

- USE acetone

**OXY MODIFIED IN-SITU PROCESS**

- INIS: 2000-04-12; ETDE: 1977-03-08  
 Before March 1977 GARRETT PROCESS was used for this process.  
 UF garrett process  
 BT1 modified in-situ processes  
 RT oil shales

**OXYBROMIDES**

- Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.  
 \*BT1 bromine compounds  
 \*BT1 oxyhalides  
 RT bromides  
 RT bromine oxides  
 RT oxides

**OXYCARBIDES**

- INIS: 1984-08-23; ETDE: 1976-06-07  
 Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.  
 BT1 carbon compounds  
 BT1 oxygen compounds  
 RT carbides  
 RT carbon oxides  
 RT oxides

**OXYCHLORIDES**

- Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.  
 \*BT1 chlorine compounds  
 \*BT1 oxyhalides  
 RT chlorides  
 RT chlorine oxides  
 RT oxides

**OXYFLUORIDES**

- Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.  
 \*BT1 fluorine compounds  
 \*BT1 oxyhalides  
 RT fluorides  
 RT fluorine oxides  
 RT oxides

**OXYFUEL COMBUSTION PROCESS**

- 2007-09-07  
 Combustion of a fuel with pure oxygen instead of air.  
 \*BT1 combustion  
 RT air pollution abatement  
 RT carbon sequestration  
 RT combustion control

**OXYGEN**

- UF dissolved oxygen  
 UF oxygen effect (radiobiology)  
 \*BT1 nonmetals  
 RT anoxia  
 RT biochemical oxygen demand  
 RT chemical oxygen demand  
 RT cryogenic fluids  
 RT ozone

**OXYGEN 12**

- \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 oxygen isotopes

**OXYGEN 13**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 oxygen isotopes

**OXYGEN 14**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 oxygen isotopes

**OXYGEN 14 REACTIONS**

- 1992-02-18  
 \*BT1 heavy ion reactions

**OXYGEN 14 TARGET**

- 1998-01-27  
 BT1 targets

**OXYGEN 15**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 oxygen isotopes

**OXYGEN 15 TARGET**

- INIS: 1976-04-03; ETDE: 1976-07-12  
 BT1 targets

**OXYGEN 16**

- \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 oxygen isotopes  
 \*BT1 stable isotopes  
 RT oxygen 16 beams  
 RT oxygen 16 reactions

**OXYGEN 16 BEAMS**

- \*BT1 ion beams  
 RT oxygen 16

**OXYGEN 16 EMISSION DECAY**

- INIS: 1991-07-29; ETDE: 1991-09-13  
 \*BT1 heavy ion emission decay

**OXYGEN 16 REACTIONS**

- \*BT1 heavy ion reactions  
 RT oxygen 16

**OXYGEN 16 TARGET**

- ETDE: 1976-07-09  
 BT1 targets

**OXYGEN 17**

- \*BT1 even-odd nuclei

- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 stable isotopes
- RT oxygen 17 reactions

**OXYGEN 17 REACTIONS**

- \*BT1 heavy ion reactions
- RT oxygen 17

**OXYGEN 17 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**OXYGEN 18**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 stable isotopes
- RT oxygen 18 beams
- RT oxygen 18 reactions

**OXYGEN 18 BEAMS**

- \*BT1 ion beams
- RT oxygen 18

**OXYGEN 18 REACTIONS**

- \*BT1 heavy ion reactions
- RT oxygen 18

**OXYGEN 18 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**OXYGEN 19**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 seconds living radioisotopes

**OXYGEN 20**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 seconds living radioisotopes

**OXYGEN 21**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 seconds living radioisotopes

**OXYGEN 22**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 seconds living radioisotopes

**OXYGEN 23**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes

**OXYGEN 24**

- INIS: 1978-02-23; ETDE: 1978-05-01
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 oxygen isotopes

**OXYGEN 25**

- 2007-03-12
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 oxygen isotopes

**OXYGEN 26**

- 2007-03-12
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 oxygen isotopes

**OXYGEN 27**

- 2007-03-12
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 oxygen isotopes

**OXYGEN 28**

- INIS: 1979-02-21; ETDE: 1979-03-28
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes

**OXYGEN ADDITIONS**

- RT oxides

**OXYGEN COMPLEXES**

- BT1 complexes

**OXYGEN COMPOUNDS**

- 1996-07-16
- UF aurates
- UF chlorites
- UF polythionates
- UF polythionic acids
- NT1 aluminates
- NT1 antimonates
- NT1 arsenates
- NT1 borates
- NT2 borax
- NT1 boric acid
- NT1 bromates
- NT1 bromic acid
- NT1 carbonates
- NT2 americium carbonates
- NT2 ammonium carbonates
- NT3 auct
- NT2 barium carbonates
- NT2 beryllium carbonates
- NT2 bismuth carbonates
- NT2 cadmium carbonates
- NT2 calcium carbonates
- NT2 cerium carbonates
- NT2 cesium carbonates
- NT2 cobalt carbonates
- NT2 copper carbonates
- NT2 curium carbonates
- NT2 erbium carbonates
- NT2 europium carbonates
- NT2 gadolinium carbonates
- NT2 holmium carbonates
- NT2 iron carbonates
- NT2 lanthanum carbonates
- NT2 lead carbonates
- NT2 lithium carbonates
- NT2 lutetium carbonates
- NT2 magnesium carbonates
- NT2 manganese carbonates
- NT2 molybdenum carbonates
- NT2 neodymium carbonates
- NT2 neptunium carbonates
- NT2 nickel carbonates
- NT2 plutonium carbonates
- NT2 polycarbonates
- NT2 potassium carbonates
- NT2 praseodymium carbonates
- NT2 radium carbonates
- NT2 rhenium carbonates
- NT2 rubidium carbonates
- NT2 samarium carbonates
- NT2 scandium carbonates
- NT2 silver carbonates
- NT2 sodium carbonates
- NT2 strontium carbonates
- NT2 terbium carbonates
- NT2 thallium carbonates
- NT2 thorium carbonates
- NT2 uranium carbonates
- NT2 uranyl carbonates
- NT2 ytterbium carbonates
- NT2 yttrium carbonates
- NT2 zinc carbonates
- NT2 zirconium carbonates
- NT1 carbonic acid
- NT1 chlorates
- NT1 chloric acid
- NT1 chlorous acid
- NT1 chromates
- NT1 chromic acid
- NT1 chromites
- NT1 cuprates
- NT1 dichromates
- NT1 ferrates
- NT1 ferrites
- NT1 fluorates
- NT1 germanates
- NT2 bismuth germanates
- NT2 lead germanates
- NT1 hafnates
- NT1 hydroxides
- NT2 actinium hydroxides
- NT2 aluminium hydroxides
- NT2 americium hydroxides
- NT2 ammonium hydroxides
- NT2 antimony hydroxides
- NT2 barium hydroxides
- NT2 beryllium hydroxides
- NT2 bismuth hydroxides
- NT2 boron hydroxides
- NT2 cadmium hydroxides
- NT2 calcium hydroxides
- NT2 cerium hydroxides
- NT2 cesium hydroxides
- NT2 chromium hydroxides
- NT2 cobalt hydroxides
- NT2 copper hydroxides
- NT2 curium hydroxides
- NT2 dysprosium hydroxides
- NT2 erbium hydroxides
- NT2 europium hydroxides
- NT2 gadolinium hydroxides
- NT2 gallium hydroxides
- NT2 germanium hydroxides
- NT2 hafnium hydroxides
- NT2 helium hydroxides
- NT2 holmium hydroxides
- NT2 indium hydroxides
- NT2 iron hydroxides
- NT2 lanthanum hydroxides
- NT2 lead hydroxides
- NT2 lithium hydroxides
- NT2 lutetium hydroxides
- NT2 magnesium hydroxides
- NT2 manganese hydroxides
- NT2 molybdenum hydroxides
- NT2 neodymium hydroxides
- NT2 neptunium hydroxides
- NT2 nickel hydroxides
- NT2 niobium hydroxides
- NT2 palladium hydroxides
- NT2 platinum hydroxides
- NT2 plutonium hydroxides
- NT2 potassium hydroxides
- NT2 praseodymium hydroxides
- NT2 promethium hydroxides
- NT2 protactinium hydroxides
- NT2 rhenium hydroxides
- NT2 rhodium hydroxides
- NT2 rubidium hydroxides
- NT2 ruthenium hydroxides
- NT2 samarium hydroxides
- NT2 scandium hydroxides

- NT2 silicon hydroxides  
 NT2 silver hydroxides  
 NT2 sodium hydroxides  
 NT2 strontium hydroxides  
 NT2 tantalum hydroxides  
 NT2 tellurium hydroxides  
 NT2 terbium hydroxides  
 NT2 thallium hydroxides  
 NT2 thorium hydroxides  
 NT2 thulium hydroxides  
 NT2 tin hydroxides  
 NT2 titanium hydroxides  
 NT2 tungsten hydroxides  
 NT2 uranium hydroxides  
 NT2 vanadium hydroxides  
 NT2 ytterbium hydroxides  
 NT2 yttrium hydroxides  
 NT2 zinc hydroxides  
 NT2 zirconium hydroxides  
 NT1 hypochlorous acid  
 NT1 hypofluorous acid  
 NT1 hypoiodous acid  
 NT1 hypophosphorous acid  
 NT1 iodates  
 NT1 iodic acid  
 NT1 manganates  
 NT1 molybdates  
 NT1 molybdophosphates  
 NT1 molybdophosphoric acid  
 NT1 nickelates  
 NT1 niobates  
 NT1 nitrates  
   NT2 aluminium nitrates  
   NT2 americium nitrates  
   NT2 ammonium nitrates  
   NT2 barium nitrates  
   NT2 berkelium nitrates  
   NT2 beryllium nitrates  
   NT2 bismuth nitrates  
   NT2 cadmium nitrates  
   NT2 calcium nitrates  
   NT2 californium nitrates  
   NT2 cerium nitrates  
   NT2 cesium nitrates  
   NT2 chlorine nitrates  
   NT2 chromium nitrates  
   NT2 cobalt nitrates  
   NT2 copper nitrates  
   NT2 curium nitrates  
   NT2 dysprosium nitrates  
   NT2 einsteinium nitrates  
   NT2 erbium nitrates  
   NT2 europium nitrates  
   NT2 gadolinium nitrates  
   NT2 gallium nitrates  
   NT2 hafnium nitrates  
   NT2 holmium nitrates  
   NT2 hydrogen nitrates  
   NT2 indium nitrates  
   NT2 iron nitrates  
   NT2 lanthanum nitrates  
   NT2 lead nitrates  
   NT2 lithium nitrates  
   NT2 lutetium nitrates  
   NT2 magnesium nitrates  
   NT2 manganese nitrates  
   NT2 mercury nitrates  
   NT2 molybdenum nitrates  
   NT2 neodymium nitrates  
   NT2 neptunium nitrates  
   NT2 nickel nitrates  
   NT2 niobium nitrates  
   NT2 palladium nitrates  
   NT2 peroxyacetyl nitrate  
   NT2 petn  
   NT2 plutonium nitrates  
   NT2 polonium nitrates  
   NT2 potassium nitrates  
   NT2 praseodymium nitrates  
   NT2 promethium nitrates  
   NT2 protactinium nitrates  
   NT2 radium nitrates  
   NT2 rhodium nitrates  
   NT2 rubidium nitrates  
   NT2 ruthenium nitrates  
   NT2 samarium nitrates  
   NT2 scandium nitrates  
   NT2 silver nitrates  
   NT2 sodium nitrates  
   NT2 strontium nitrates  
   NT2 tellurium nitrates  
   NT2 terbium nitrates  
   NT2 thallium nitrates  
   NT2 thorium nitrates  
   NT2 thulium nitrates  
   NT2 titanium nitrates  
   NT2 uranium nitrates  
   NT2 uranyl nitrates  
   NT3 unh  
   NT2 vanadium nitrates  
   NT2 ytterbium nitrates  
   NT2 yttrium nitrates  
   NT2 zinc nitrates  
   NT2 zirconium nitrates  
 NT1 nitric acid  
 NT1 nitrites  
 NT1 nitrous acid  
 NT1 oxides  
   NT2 actinium oxides  
   NT2 aluminium oxides  
   NT2 americium oxides  
   NT2 antimony oxides  
   NT2 argon oxides  
   NT2 arsenic oxides  
   NT2 barium oxides  
   NT2 berkelium oxides  
   NT2 beryllium oxides  
   NT2 bismuth oxides  
   NT2 boron oxides  
   NT2 bromine oxides  
   NT2 cadmium oxides  
   NT2 calcium oxides  
   NT2 californium oxides  
   NT2 carbon oxides  
   NT3 carbon dioxide  
   NT3 carbon monoxide  
   NT2 cerium oxides  
   NT2 cesium oxides  
   NT2 chlorine oxides  
   NT2 chromium oxides  
   NT2 cobalt oxides  
   NT2 copper oxides  
   NT2 curium oxides  
   NT2 dysprosium oxides  
   NT2 einsteinium oxides  
   NT2 erbium oxides  
   NT2 europium oxides  
   NT2 fermium oxides  
   NT2 fluorine oxides  
   NT2 gadolinium oxides  
   NT2 gallium oxides  
   NT2 germanium oxides  
   NT2 gold oxides  
   NT2 hafnium oxides  
   NT2 helium oxides  
   NT2 holmium oxides  
   NT2 indium oxides  
   NT2 iodine oxides  
   NT2 iridium oxides  
   NT2 iron oxides  
   NT2 krypton oxides  
   NT2 lanthanum oxides  
   NT2 lead oxides  
   NT2 lithium oxides  
   NT2 lutetium oxides  
   NT2 magnesium oxides  
   NT2 manganese oxides  
   NT2 mendelevium oxides  
   NT2 mercury oxides  
   NT2 molybdenum oxides  
   NT3 molybdenum blue  
   NT2 neodymium oxides  
   NT2 neon oxides  
   NT2 neptunium oxides  
   NT2 nickel oxides  
   NT2 niobium oxides  
   NT2 nitrogen oxides  
   NT3 nitric oxide  
   NT3 nitrogen dioxide  
   NT3 nitrous oxide  
   NT2 nobelium oxides  
   NT2 osmium oxides  
   NT2 palladium oxides  
   NT2 phosphorus oxides  
   NT2 platinum oxides  
   NT2 plutonium oxides  
   NT3 plutonium dioxide  
   NT2 polonium oxides  
   NT2 potassium oxides  
   NT2 praseodymium oxides  
   NT2 promethium oxides  
   NT2 protactinium oxides  
   NT2 radium oxides  
   NT2 radon oxides  
   NT2 rhenium oxides  
   NT2 rhodium oxides  
   NT2 rubidium oxides  
   NT2 ruthenium oxides  
   NT2 samarium oxides  
   NT2 scandium oxides  
   NT2 selenium oxides  
   NT2 silicon oxides  
   NT2 silver oxides  
   NT2 sodium oxides  
   NT3 sodium tungsten bronze  
   NT2 strontium oxides  
   NT2 sulfur oxides  
   NT3 sulfur dioxide  
   NT3 sulfur trioxide  
   NT2 tantalum oxides  
   NT2 technetium oxides  
   NT2 tellurium oxides  
   NT2 terbium oxides  
   NT2 thallium oxides  
   NT2 thorium oxides  
   NT3 thorotrast  
   NT2 thulium oxides  
   NT2 tin oxides  
   NT2 titanium oxides  
   NT2 tritium oxides  
   NT2 tungsten oxides  
   NT3 sodium tungsten bronze  
   NT2 uranium oxides  
   NT3 uranium dioxide  
   NT3 uranium oxides u3o8  
   NT3 uranium trioxide  
   NT2 vanadium oxides  
   NT2 xenon oxides  
   NT2 ytterbium oxides  
   NT2 yttrium oxides  
   NT3 alloy-in-853  
   NT2 zinc oxides  
   NT2 zirconium oxides  
 NT1 oxycarbides  
 NT1 oxyhalides  
   NT2 oxybromides  
   NT2 oxychlorides  
   NT2 oxyfluorides  
   NT2 oxyiodides  
 NT1 oxynitrates  
 NT1 oxyselenides  
 NT1 oxysulfides  
 NT1 oxytellurides  
 NT1 perchromates  
 NT1 perchlorates  
   NT2 aluminium perchlorates  
   NT2 americium perchlorates

NT2	ammonium perchlorates	NT2	germanium phosphates	NT2	lanthanum silicates
NT2	barium perchlorates	NT2	hafnium phosphates	NT2	lead silicates
NT2	cadmium perchlorates	NT2	holmium phosphates	NT2	lithium silicates
NT2	calcium perchlorates	NT2	hydrogen phosphates	NT2	lutetium silicates
NT2	cerium perchlorates	NT2	indium phosphates	NT2	magnesium silicates
NT2	cesium perchlorates	NT2	iron phosphates	NT2	manganese silicates
NT2	chromium perchlorates	NT2	lanthanum phosphates	NT2	molybdenum silicates
NT2	cobalt perchlorates	NT2	lead phosphates	NT2	neodymium silicates
NT2	copper perchlorates	NT2	lithium phosphates	NT2	nickel silicates
NT2	dysprosium perchlorates	NT2	lutetium phosphates	NT2	niobium silicates
NT2	erbium perchlorates	NT2	magnesium phosphates	NT2	plutonium silicates
NT2	europium perchlorates	NT2	manganese phosphates	NT2	potassium silicates
NT2	gadolinium perchlorates	NT2	molybdenum phosphates	NT2	praseodymium silicates
NT2	hafnium perchlorates	NT2	neodymium phosphates	NT2	radium silicates
NT2	holmium perchlorates	NT2	neptunium phosphates	NT2	rubidium silicates
NT2	indium perchlorates	NT2	nickel phosphates	NT2	samarium silicates
NT2	iron perchlorates	NT2	niobium phosphates	NT2	scandium silicates
NT2	lanthanum perchlorates	NT2	plutonium phosphates	NT2	sodium silicates
NT2	lead perchlorates	NT2	potassium phosphates	NT2	strontium silicates
NT2	lithium perchlorates	NT2	praseodymium phosphates	NT2	tantalum silicates
NT2	lutetium perchlorates	NT2	promethium phosphates	NT2	thorium silicates
NT2	magnesium perchlorates	NT2	protactinium phosphates	NT2	thulium silicates
NT2	manganese perchlorates	NT2	rubidium phosphates	NT2	titanium silicates
NT2	mercury perchlorates	NT2	samarium phosphates	NT2	uranium silicates
NT2	neodymium perchlorates	NT2	scandium phosphates	NT2	uranyl silicates
NT2	neptunium perchlorates	NT2	silicon phosphates	NT2	vanadium silicates
NT2	plutonium perchlorates	NT2	silver phosphates	NT2	ytterbium silicates
NT2	potassium perchlorates	NT2	sodium phosphates	NT2	yttrium silicates
NT2	praseodymium perchlorates	NT2	strontium phosphates	NT2	zinc silicates
NT2	rubidium perchlorates	NT2	superphosphates	NT2	zirconium silicates
NT2	samarium perchlorates	NT2	tantalum phosphates	NT1	silicic acid
NT2	scandium perchlorates	NT2	technetium phosphates	NT1	stannates
NT2	silver perchlorates	NT2	terbium phosphates	NT2	cadmium stannates
NT2	sodium perchlorates	NT2	thallium phosphates	NT1	sulfates
NT2	strontium perchlorates	NT2	thorium phosphates	NT2	acid sulfates
NT2	terbium perchlorates	NT2	thulium phosphates	NT2	actinium sulfates
NT2	thallium perchlorates	NT2	tin phosphates	NT2	aluminium sulfates
NT2	thorium perchlorates	NT2	titanium phosphates	NT2	americium sulfates
NT2	thulium perchlorates	NT2	uranium phosphates	NT2	ammonium sulfates
NT2	uranium perchlorates	NT2	uranyl phosphates	NT2	antimony sulfates
NT2	uranyl perchlorates	NT2	vanadium phosphates	NT2	barium sulfates
NT2	ytterbium perchlorates	NT2	ytterbium phosphates	NT2	berkelium sulfates
NT2	yttrium perchlorates	NT2	yttrium phosphates	NT2	beryllium sulfates
NT2	zinc perchlorates	NT2	zinc phosphates	NT2	bismuth sulfates
NT2	zirconium perchlorates	NT2	zirconium phosphates	NT2	cadmium sulfates
NT1	perchloric acid	NT1	phosphine oxides	NT2	calcium sulfates
NT1	periodates	NT2	cm <sub>po</sub>	NT2	cerium sulfates
NT1	periodic acid	NT2	tributylphosphine oxide	NT2	cesium sulfates
NT1	permanganates	NT2	triethylphosphine oxide	NT2	chromium sulfates
NT1	peroxides	NT2	triphenylphosphine oxide	NT2	cobalt sulfates
NT2	benzoyl peroxide	NT1	phosphoric acid	NT2	copper sulfates
NT2	hydrogen peroxide	NT1	phosphorous acid	NT2	dysprosium sulfates
NT2	plutonium peroxide	NT1	plumbates	NT2	erbium sulfates
NT2	uranium peroxide	NT1	pyrophosphates	NT2	europium sulfates
NT1	perrhenates	NT1	rhenates	NT2	gadolinium sulfates
NT1	persulfates	NT1	selenates	NT2	gallium sulfates
NT1	persulfuric acid	NT1	selenites	NT2	hafnium sulfates
NT1	pertechnetates	NT1	silicates	NT2	holmium sulfates
NT1	phosphates	NT2	aluminium silicates	NT2	hydrogen sulfates
NT2	aluminium phosphates	NT2	americium silicates	NT2	indium sulfates
NT2	americium phosphates	NT2	barium silicates	NT2	iridium sulfates
NT2	ammonium phosphates	NT2	beryllium silicates	NT2	iron sulfates
NT2	barium phosphates	NT2	boron silicates	NT2	lanthanum sulfates
NT2	berkelium phosphates	NT2	cadmium silicates	NT2	lead sulfates
NT2	beryllium phosphates	NT2	calcium silicates	NT2	lithium sulfates
NT2	bismuth phosphates	NT2	cerium silicates	NT2	lutetium sulfates
NT2	boron phosphates	NT2	cesium silicates	NT2	magnesium sulfates
NT2	cadmium phosphates	NT2	chromium silicates	NT2	manganese sulfates
NT2	calcium phosphates	NT2	cobalt silicates	NT2	mercury sulfates
NT2	cerium phosphates	NT2	copper silicates	NT2	molybdenum sulfates
NT2	cesium phosphates	NT2	curium silicates	NT2	neodymium sulfates
NT2	chromium phosphates	NT2	dysprosium silicates	NT2	neptunium sulfates
NT2	cobalt phosphates	NT2	europium silicates	NT2	nickel sulfates
NT2	copper phosphates	NT2	germanium silicates	NT2	niobium sulfates
NT2	dysprosium phosphates	NT2	hafnium silicates	NT2	osmium sulfates
NT2	erbium phosphates	NT2	holmium silicates	NT2	platinum sulfates
NT2	europium phosphates	NT2	hydrogen silicates	NT2	plutonium sulfates
NT2	gadolinium phosphates	NT2	indium silicates	NT2	potassium sulfates
NT2	gallium phosphates	NT2	iron silicates	NT2	praseodymium sulfates



NT2 protactinium sulfates  
 NT2 radium sulfates  
 NT2 rhenium sulfates  
 NT2 rubidium sulfates  
 NT2 ruthenium sulfates  
 NT2 samarium sulfates  
 NT2 scandium sulfates  
 NT2 silver sulfates  
 NT2 sodium sulfates  
 NT2 strontium sulfates  
 NT2 tantalum sulfates  
 NT2 terbium sulfates  
 NT2 thallium sulfates  
 NT2 thorium sulfates  
 NT2 thulium sulfates  
 NT2 tin sulfates  
 NT2 titanium sulfates  
 NT2 uranium sulfates  
 NT2 uranyl sulfates  
 NT2 vanadium sulfates  
 NT2 ytterbium sulfates  
 NT2 yttrium sulfates  
 NT2 zinc sulfates  
 NT2 zirconium sulfates  
 NT1 sulfites  
   NT2 acid sulfites  
 NT1 sulfuric acid  
 NT1 sulfurous acid  
 NT1 tantalates  
 NT1 technetates  
 NT1 tellurates  
 NT1 telluric acid  
 NT1 titanates  
   NT2 cadmium titanates  
   NT2 lithium titanates  
   NT2 plzt  
   NT2 pzt  
   NT2 strontium titanates  
 NT1 tungstates  
   NT2 aluminium tungstates  
   NT2 ammonium tungstates  
   NT2 barium tungstates  
   NT2 bismuth tungstates  
   NT2 cadmium tungstates  
   NT2 calcium tungstates  
   NT2 cerium tungstates  
   NT2 cesium tungstates  
   NT2 cobalt tungstates  
   NT2 copper tungstates  
   NT2 dysprosium tungstates  
   NT2 erbium tungstates  
   NT2 gadolinium tungstates  
   NT2 hafnium tungstates  
   NT2 indium tungstates  
   NT2 iron tungstates  
   NT2 lanthanum tungstates  
   NT2 lead tungstates  
   NT2 lithium tungstates  
   NT2 lutetium tungstates  
   NT2 manganese tungstates  
   NT2 neodymium tungstates  
   NT2 nickel tungstates  
   NT2 potassium tungstates  
   NT2 praseodymium tungstates  
   NT2 rubidium tungstates  
   NT2 samarium tungstates  
   NT2 scandium tungstates  
   NT2 silver tungstates  
   NT2 sodium tungstates  
   NT2 strontium tungstates  
   NT2 tantalum tungstates  
   NT2 thallium tungstates  
   NT2 thorium tungstates  
   NT2 tin tungstates  
   NT2 titanium tungstates  
   NT2 uranium tungstates  
   NT2 uranyl tungstates  
   NT2 vanadium tungstates  
   NT2 ytterbium tungstates  
   NT2 yttrium tungstates  
   NT2 zinc tungstates  
   NT2 zirconium tungstates  
 NT1 tungstophosphates  
 NT1 tungstophosphoric acid  
 NT1 uranates  
   NT2 ammonium uranates  
   NT3 adu  
   NT2 bismuth uranates  
   NT2 cesium uranates  
   NT2 lithium uranates  
   NT2 potassium uranates  
   NT2 rubidium uranates  
   NT2 sodium uranates  
   NT2 strontium uranates  
   NT2 thallium uranates  
 NT1 vanadates  
   NT2 potassium vanadates  
   NT2 uranium vanadates  
 NT1 water  
   NT2 drinking water  
   NT2 feedwater  
   NT2 fresh water  
   NT2 ground water  
   NT3 interstitial water  
   NT3 magmatic water  
   NT2 heavy water  
   NT2 hot water  
   NT2 rain water  
   NT3 throughfall  
   NT2 seawater  
   NT2 tritium oxides  
   NT2 waste water  
   NT3 shale tar water  
 NT1 zirconates  
   NT2 plzt  
   NT2 pzt  
 RT cyanates  
 RT hydroxyl radicals  
 RT isocyanates  
 RT organic oxygen compounds  
 RT ozone

### **oxygen effect (radiobiology)**

USE oxygen  
 USE response modifying factors

### **OXYGEN ENHANCEMENT RATIO**

UF oer  
 BT1 dimensionless numbers  
 RT aerobic conditions  
 RT anaerobic conditions  
 RT biological radiation effects  
 RT let  
 RT quality factor  
 RT rbe  
 RT response modifying factors

### **OXYGEN ENRICHMENT**

INIS: 2000-04-12; ETDE: 1979-07-24  
 BT1 enrichment  
 RT fuel-air ratio  
 RT fuel systems

### **oxygen fluorides**

USE fluorine oxides

### **oxygen hydrides**

USE water

### **OXYGEN IONS**

\*BT1 ions

### **OXYGEN ISOTOPES**

1999-07-16  
 BT1 isotopes  
 NT1 oxygen 12  
 NT1 oxygen 13  
 NT1 oxygen 14  
 NT1 oxygen 15  
 NT1 oxygen 16

NT1 oxygen 17  
 NT1 oxygen 18  
 NT1 oxygen 19  
 NT1 oxygen 20  
 NT1 oxygen 21  
 NT1 oxygen 22  
 NT1 oxygen 23  
 NT1 oxygen 24  
 NT1 oxygen 25  
 NT1 oxygen 26  
 NT1 oxygen 27  
 NT1 oxygen 28

### **oxygen logs**

INIS: 2000-04-12; ETDE: 1979-03-27  
 USE neutron-gamma logging

### **OXYGEN METERS**

\*BT1 meters  
 RT chemical analysis

### **OXYGEN PLANTS**

INIS: 2000-04-12; ETDE: 1981-03-17  
 Large capacity plants for liquefying air and separating oxygen, e.g., for coal gasification.  
 BT1 industrial plants  
 RT moltox oxygen process

### **OXYGEN POTENTIAL**

1981-04-03  
 Partial molar free enthalpy of oxygen in an oxide phase.  
 \*BT1 free enthalpy

### **oxygen reduction reactions**

2016-05-03  
 USE redox reactions

### **OXYGENASES**

INIS: 1996-11-13; ETDE: 1981-01-12  
 Code number 1.13.  
 (From 1974 till March 1997 TRYPTOPHAN OXYGENASE was a valid ETDE descriptor.)  
 UF pyrrolase (tryptophan)  
 UF tryptophan oxygenase  
 \*BT1 oxidoreductases  
 NT1 mixed-function oxidases

### **OXYGENATED FUELS**

2013-07-19  
 \*BT1 liquid fuels  
 RT automotive fuels

### **OXYHALIDES**

INIS: 1989-11-24; ETDE: 1989-12-08  
 BT1 halogen compounds  
 BT1 oxygen compounds  
 NT1 oxybromides  
 NT1 oxychlorides  
 NT1 oxyfluorides  
 NT1 oxyiodides

### **OXYIODIDES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.  
 \*BT1 iodine compounds  
 \*BT1 oxyhalides  
 RT iodides  
 RT iodine oxides  
 RT oxides

### **oxymethylene**

USE formaldehyde

### **OXYNITRATES**

2000-04-12  
 BT1 nitrogen compounds  
 BT1 oxygen compounds  
 RT nitrates  
 RT oxides

**OXYSELENIDES**

2000-04-12

- BT1 oxygen compounds
- BT1 selenium compounds
- RT oxides
- RT selenides

**OXYSULFIDES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 oxygen compounds
- BT1 sulfur compounds
- RT oxides
- RT sulfides
- RT sulfur oxides

**OXYTELLURIDES**

2000-04-12

- BT1 oxygen compounds
- BT1 tellurium compounds
- RT oxides
- RT tellurides

**OXYTETRACYCLINE**

- UF *terramycin*
- \*BT1 tetracyclines

**OXYTOCIN**

- \*BT1 pituitary hormones
- RT parturition
- RT uterus

**OYSTER CREEK-1 REACTOR**

*AmerGen Energy Co., LLC, Forked River, New Jersey, USA.*

- \*BT1 bwr type reactors

***oyster creek-2 reactor***

- USE forked river-1 reactor

**OYSTERS**

- \*BT1 molluscs
- RT seafood

***ozark region***

*INIS: 2000-04-12; ETDE: 1978-03-09*

*Use the specific states if known; otherwise, use the descriptor below.*

*(Prior to May 1996 this was a valid ETDE descriptor.)*

- USE usa

**OZONE**

- RT atmospheric chemistry
- RT oxygen
- RT oxygen compounds
- RT ozonization

**OZONE LAYER**

*INIS: 1983-02-03; ETDE: 1979-05-03*

- BT1 layers
- RT chlorofluorocarbons
- RT climatic change
- RT stratosphere

**OZONIZATION**

*INIS: 1992-04-13; ETDE: 1980-07-09*

- BT1 chemical reactions
- RT ozone

***p-branes***

*2007-08-13*

- USE branes

**P CODES**

- BT1 computer codes

**P INVARIANCE**

- UF *parity nonconservation*
- UF *space reflection*
- BT1 invariance principles

- RT *lee-yang theory*

- RT *parity*

***p-n counters***

- USE junction detectors

**P-N JUNCTIONS**

*1977-01-26*

- BT1 semiconductor junctions
- RT n-type conductors
- RT p-type conductors
- RT semiconductor materials

**P REACTOR**

*Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.*

- UF *savannah river plant p reactor*
- \*BT1 heavy water moderated reactors
- \*BT1 special production reactors

**P STATES**

- BT1 energy levels

**P-TYPE CONDUCTORS**

- \*BT1 semiconductor materials
- RT p-n junctions

**P WAVES**

*For seismic waves use SEISMIC P WAVES.*

- BT1 partial waves
- RT angular momentum
- RT quantum mechanics

***p waves (seismic)***

- USE seismic p waves

**P1-APPROXIMATION**

- \*BT1 spherical harmonics method
- RT boltzmann equation
- RT perturbation theory

**P2-APPROXIMATION**

- \*BT1 spherical harmonics method
- RT boltzmann equation
- RT perturbation theory

**P3-APPROXIMATION**

- \*BT1 spherical harmonics method
- RT boltzmann equation
- RT perturbation theory

**PABA**

- UF *aminobenzoic acid-para*
- UF *para-aminobenzoic acid*
- UF *vitamin h-1*
- \*BT1 amino acids
- RT folic acid
- RT vitamin b group

***pacemakers***

- USE cardiac pacemakers

***pacific gas diablo canyon-1 reactor***

*1993-11-09*

- USE diablo canyon-1 reactor

***pacific gas diablo canyon-2 reactor***

*1993-11-09*

- USE diablo canyon-2 reactor

***pacific islands***

*INIS: 1992-06-04; ETDE: 1978-12-11*

- USE oceania

***pacific northwest laboratories***

*INIS: 2000-04-12; ETDE: 1982-09-10*

- USE battelle pacific northwest laboratories

***pacific northwest region***

*INIS: 2000-04-12; ETDE: 1978-07-06*

*(Prior to June 1982 this was a valid ETDE descriptor.)*

- USE usa

**PACIFIC OCEAN**

*1996-07-18*

- UF *humboldt bay*
- \*BT1 seas
- NT1 bering sea
- NT1 china sea
- NT1 gulf of alaska
- NT1 gulf of california
- NT1 puget sound
- NT1 san francisco bay
- NT1 santa barbara channel
- NT1 sequim bay
- NT1 tasman sea
- RT aleutian islands
- RT american samoa
- RT fiji
- RT hawaii
- RT indonesia
- RT kiribati
- RT kurile islands
- RT marshall islands
- RT micronesia
- RT nauru
- RT new guinea
- RT new hebrides islands
- RT new zealand
- RT philippines
- RT samoa
- RT singapore
- RT southern oscillation
- RT tasmania
- RT tonga
- RT trust territory of the pacific islands
- RT tuvalu
- RT us west coast
- RT vanuatu

**PACKAGE REACTORS**

*Compact power reactors specially designed to simplify shipping and assembly.*

- \*BT1 power reactors
- \*BT1 transportable reactors

**PACKAGING**

- RT containers
- RT packaging rules
- RT transport

**PACKAGING RULES**

*INIS: 1976-12-08; ETDE: 1978-03-08*

*Including labelling.*

- UF *labelling (packages)*
- \*BT1 regulations
- RT packaging
- RT transport

**PACKED BEDS**

*INIS: 1992-03-02; ETDE: 1992-04-01*

*(Prior to April 1992 PACKED BED was a valid ETDE descriptor.)*

- UF *fixed beds*
- RT ebullated bed
- RT fluidized beds

***packing***

*INIS: 2000-04-12; ETDE: 1979-06-06*

- USE stowing

***packing (column)***

*INIS: 1984-04-04; ETDE: 2002-04-26*

- USE column packing

**PACKINGS**

*2000-04-12*

- UF *cooling tower packing grids*
- NT1 column packing
- RT cooling towers

**PAD DISTRICTS**

INIS: 2000-04-12; ETDE: 1979-09-27

UF petroleum administration for defense districts

RT petroleum

RT usa

**PADE APPROXIMATION**

\*BT1 approximations

RT series expansion

**PADUCAH PLANT**

\*BT1 gaseous diffusion plants

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT kentucky

**paec**

INIS: 1977-09-06; ETDE: 1977-10-19

USE philippine atomic energy commission

**pah**

INIS: 2000-04-12; ETDE: 1976-08-24

USE polycyclic aromatic hydrocarbons

**pahr**

INIS: 1984-06-21; ETDE: 2002-04-26

Post-accident heat removal.

USE after-heat removal

**PAIN**

BT1 symptoms

RT analgesics

RT anesthesia

RT nervous system

**paintings**

INIS: 1984-04-04; ETDE: 2002-04-26

USE cultural objects

**PAINTS**

BT1 coatings

NT1 luminous paints

RT corrosion protection

RT pigments

**pair conversion**

INIS: 1985-01-17; ETDE: 2000-10-23

USE internal pair production

**PAIR PRODUCTION**

For production of particle pairs only; ion pairs should be indexed to IONIZATION and ION PAIRS.

UF production (pair)

BT1 interactions

BT1 particle production

NT1 internal pair production

RT bethe-heitler theory

RT electron pairs

RT muon pairs

**PAIR SPECTROMETERS**

\*BT1 gamma spectrometers

**PAIRING ENERGY**

\*BT1 binding energy

**PAIRING INTERACTIONS**

BT1 interactions

RT generator-coordinate method

**PAKHRA SYNCHROTRON**

\*BT1 synchrotrons

**PAKISTAN**

BT1 asia

BT1 developing countries

**pakistan (east)**

INIS: 2000-04-12; ETDE: 1976-05-17

USE bangladesh

**pakistan atomic research reactor**

2000-04-12

USE parr-1 reactor

**pakistan miniature neutron source reactor**

2004-03-15

USE parr-2 reactor

**PAKISTANI ORGANIZATIONS**

2004-03-31

BT1 national organizations

**PAKS-1 REACTOR**

Paks, Tolna, Hungary.

UF hungarian paks-1 reactor

\*BT1 wwer type reactors

**PAKS-2 REACTOR**

Paks, Tolna, Hungary.

UF hungarian paks-2 reactor

\*BT1 wwer type reactors

**PAKS-3 REACTOR**

INIS: 1980-07-24; ETDE: 1980-08-12

Paks, Tolna, Hungary.

UF hungarian paks-3 reactor

\*BT1 wwer type reactors

**PAKS-4 REACTOR**

INIS: 1980-07-24; ETDE: 1980-08-12

Paks, Tolna, Hungary.

UF hungarian paks-4 reactor

\*BT1 wwer type reactors

**palanquin event**

2000-04-12

(Prior to July 1996 this was a valid ETDE descriptor.)

USE cratering explosions

USE underground explosions

**PALAU**

2000-04-12

Alloy made of 80% gold and 20% palladium.

\*BT1 gold base alloys

\*BT1 palladium alloys

**palau islands**

INIS: 2000-04-12; ETDE: 1983-05-21

USE trust territory of the pacific islands

**paleocene epoch**

INIS: 2000-04-12; ETDE: 1977-10-20

USE tertiary period

**PALEOCLIMATOLOGY**

INIS: 1993-01-28; ETDE: 1986-07-25

The study of climates in the geologic past, involving fossil, glacial, isotopic, or other data.

BT1 paleontology

RT climate models

RT climates

RT climatic change

RT fossils

RT little ice age

**paleogene period**

INIS: 2000-04-12; ETDE: 1977-10-20

USE tertiary period

**PALEOMAGNETISM**

INIS: 1999-05-19; ETDE: 1979-07-24

BT1 magnetism

RT geologic ages

RT geomagnetic field

RT plate tectonics

**PALEONTOLOGY**

NT1 paleoclimatology

RT age estimation

RT biological evolution

RT biological extinction

RT fossils

RT paleotemperature

RT palynology

**PALEOTEMPERATURE**

INIS: 2000-04-12; ETDE: 1985-11-19

RT paleontology

RT temperature measurement

**PALEOZOIC ERA**

INIS: 1992-04-14; ETDE: 1977-10-19

BT1 geologic ages

NT1 cambrian period

NT1 carboniferous period

NT1 devonian period

NT1 ordovician period

NT1 permian period

NT1 silurian period

**PALIMPINON GEOTHERMAL FIELD**

INIS: 1992-06-04; ETDE: 1984-02-23

UF southern negros geothermal field

BT1 geothermal fields

RT philippines

**PALISADES-1 REACTOR**

Nuclear Management Co., LLC, South Haven, Michigan, USA.

UF consumers michigan palisades reactor

UF south haven michigan reactor

\*BT1 pwr type reactors

**PALLADIUM**

\*BT1 platinum metals

**PALLADIUM 100**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 palladium isotopes

**PALLADIUM 101**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 palladium isotopes

**PALLADIUM 102**

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 palladium isotopes

\*BT1 stable isotopes

**PALLADIUM 102 TARGET**

ETDE: 1976-07-09

BT1 targets

**PALLADIUM 103**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 palladium isotopes

**PALLADIUM 104**

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 palladium isotopes

\*BT1 stable isotopes

**PALLADIUM 104 TARGET**

ETDE: 1976-07-09

BT1 targets

**PALLADIUM 105**

\*BT1 even-odd nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 105 TARGET***ETDE: 1976-07-09*

- BT1 targets

**PALLADIUM 106**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 106 TARGET***ETDE: 1976-07-09*

- BT1 targets

**PALLADIUM 107**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 years living radioisotopes

**PALLADIUM 107 TARGET***INIS: 1978-07-03; ETDE: 1977-11-28*

- BT1 targets

**PALLADIUM 108**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 108 TARGET***ETDE: 1976-07-09*

- BT1 targets

**PALLADIUM 109**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 110**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 110 REACTIONS***1992-02-04*

- \*BT1 heavy ion reactions

**PALLADIUM 110 TARGET***ETDE: 1976-07-09*

- BT1 targets

**PALLADIUM 111**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 112**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 113**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 114**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 115**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 116**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 117**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 118***1976-07-06*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 118 REACTIONS***INIS: 1979-12-20; ETDE: 1979-07-18*

- \*BT1 heavy ion reactions

**PALLADIUM 118 TARGET***INIS: 1979-12-20; ETDE: 1979-07-18*

- BT1 targets

**PALLADIUM 119***INIS: 1991-03-22; ETDE: 1991-04-09*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 120***INIS: 1993-04-13; ETDE: 1993-07-06*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 121***2007-11-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes

**PALLADIUM 122***2007-11-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes

**PALLADIUM 123***2007-11-22*

- \*BT1 beta-minus decay radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes

**PALLADIUM 124***2007-11-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes

**PALLADIUM 91***2007-11-22*

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes

**PALLADIUM 92***2007-11-22*

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 93***2001-11-30*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 94***1996-02-14*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 95***1981-09-17*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 96**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 97**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 98**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 99**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM ADDITIONS**

*Alloys containing not more than 1% Pd are listed here.*

RT palladium alloys

**PALLADIUM ALLOYS**

*Alloys containing more than 1% Pd.*

\*BT1 platinum metal alloys

NT1 palau

NT1 palladium base alloys

RT palladium additions

**PALLADIUM ARSENIDES**

*INIS: 1991-09-16; ETDE: 1976-07-07*

\*BT1 arsenides

\*BT1 palladium compounds

**PALLADIUM BASE ALLOYS**

\*BT1 palladium alloys

**PALLADIUM BORIDES**

*1991-09-16*

\*BT1 borides

\*BT1 palladium compounds

**PALLADIUM BROMIDES**

*INIS: 1979-05-28; ETDE: 1979-03-05*

\*BT1 bromides

\*BT1 palladium halides

**PALLADIUM CARBIDES**

\*BT1 carbides

\*BT1 palladium compounds

**PALLADIUM CHLORIDES**

\*BT1 chlorides

\*BT1 palladium halides

**PALLADIUM COMPLEXES**

\*BT1 transition element complexes

**PALLADIUM COMPOUNDS**

*1997-06-19*

BT1 transition element compounds

NT1 palladium arsenides

NT1 palladium borides

NT1 palladium carbides

NT1 palladium halides

NT2 palladium bromides

NT2 palladium chlorides

NT2 palladium fluorides

NT2 palladium iodides

NT1 palladium hydrides

NT1 palladium hydroxides

NT1 palladium nitrates

NT1 palladium nitrides

NT1 palladium oxides

NT1 palladium phosphides

NT1 palladium selenides

NT1 palladium silicides

NT1 palladium sulfides

NT1 palladium tellurides

**PALLADIUM FLUORIDES**

\*BT1 fluorides

\*BT1 palladium halides

**PALLADIUM HALIDES**

*2012-07-25*

\*BT1 halides

\*BT1 palladium compounds

NT1 palladium bromides

NT1 palladium chlorides

NT1 palladium fluorides

NT1 palladium iodides

**PALLADIUM HYDRIDES**

\*BT1 hydrides

\*BT1 palladium compounds

**PALLADIUM HYDROXIDES**

*INIS: 1996-07-08; ETDE: 1979-05-25*

(From June 1996 to November 2007

PALLADIUM COMPOUNDS + HYDROXIDES was used for this concept.)

\*BT1 hydroxides

\*BT1 palladium compounds

**PALLADIUM IODIDES**

\*BT1 iodides

\*BT1 palladium halides

**PALLADIUM IONS**

\*BT1 ions

**PALLADIUM ISOTOPES**

*1999-07-16*

BT1 isotopes

NT1 palladium 100

NT1 palladium 101

NT1 palladium 102

NT1 palladium 103

NT1 palladium 104

NT1 palladium 105

NT1 palladium 106

NT1 palladium 107

NT1 palladium 108

NT1 palladium 109

NT1 palladium 110

NT1 palladium 111

NT1 palladium 112

NT1 palladium 113

NT1 palladium 114

NT1 palladium 115

NT1 palladium 116

NT1 palladium 117

NT1 palladium 118

NT1 palladium 119

NT1 palladium 120

NT1 palladium 121

NT1 palladium 122

NT1 palladium 123

NT1 palladium 124

NT1 palladium 91

NT1 palladium 92

NT1 palladium 93

NT1 palladium 94

NT1 palladium 95

NT1 palladium 96

NT1 palladium 97

NT1 palladium 98

NT1 palladium 99

**PALLADIUM NITRATES**

*INIS: 1994-08-22; ETDE: 1978-10-20*

(From January 1993 to November 2007

PALLADIUM COMPOUNDS + NITRATES was used for this concept.)

\*BT1 nitrates

\*BT1 palladium compounds

**PALLADIUM NITRIDES**

*INIS: 2000-04-12; ETDE: 1975-12-16*

(From January 1995 to November 2007

PALLADIUM COMPOUNDS + NITRIDES was used for this concept.)

\*BT1 nitrides

\*BT1 palladium compounds

**PALLADIUM OXIDES**

\*BT1 oxides

\*BT1 palladium compounds

**PALLADIUM PHOSPHIDES**

*INIS: 2000-04-12; ETDE: 1975-10-01*

\*BT1 palladium compounds

\*BT1 phosphides

**PALLADIUM SELENIDES**

*INIS: 2000-04-12; ETDE: 1976-03-11*

\*BT1 palladium compounds

\*BT1 selenides

**PALLADIUM SILICIDES**

*INIS: 1976-10-29; ETDE: 1976-02-19*

\*BT1 palladium compounds

\*BT1 silicides

**PALLADIUM SULFIDES**

*1976-10-07*

\*BT1 palladium compounds

\*BT1 sulfides

**PALLADIUM TELLURIDES**

*INIS: 1978-02-23; ETDE: 1976-06-07*

\*BT1 palladium compounds

\*BT1 tellurides

**PALM OIL**

*INIS: 2001-06-19; ETDE: 2001-11-30*

\*BT1 vegetable oils

RT oil palms

**palmitic acid**

USE hexadecanoic acid

**PALO DURO BASIN**

*INIS: 2000-04-12; ETDE: 1984-02-10*

BT1 permian basin

RT radioactive waste disposal

RT texas

**PALO VERDE-1 REACTOR**

*Arizona Public Service Co., Wintersburg, Arizona, USA.*

\*BT1 pwr type reactors

RT ce standard reactor

**PALO VERDE-2 REACTOR**

*Arizona Public Service Co., Wintersburg, Arizona, USA.*

\*BT1 pwr type reactors

RT ce standard reactor

**PALO VERDE-3 REACTOR**

*Arizona Public Service Co., Wintersburg, Arizona, USA.*

\*BT1 pwr type reactors

RT ce standard reactor

**PALO VERDE-4 REACTOR**

*INIS: 1978-07-31; ETDE: 1978-06-14*

*Arizona Public Service Co., Wintersburg, Arizona, USA. Canceled in 1979 before construction began.*

\*BT1 pwr type reactors

RT ce standard reactor

**PALO VERDE-5 REACTOR**

*INIS: 1978-07-31; ETDE: 1978-06-14*

*Arizona Public Service Co., Wintersburg, Arizona, USA. Canceled in 1979 before construction began.*

\*BT1 pwr type reactors

RT ce standard reactor

**PALUEL-1 REACTOR**

*INIS: 1981-05-11; ETDE: 1981-06-13*

*Electricite de France, Cany Barville, Seine-Maritime, France*

\*BT1 pwr type reactors

**PALUEL-2 REACTOR**

*INIS: 1981-07-13; ETDE: 1981-08-04*

*Electricite de France, Cany Barville, Seine-Maritime, France*

\*BT1 pwr type reactors

**PALUEL-3 REACTOR**

*INIS: 1981-07-13; ETDE: 1981-08-04*

*Electricite de France, Cany Barville, Seine-Maritime, France*

\*BT1 pwr type reactors

**PALUEL-4 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04  
Electricite de France, Cany Barville, Seine-Maritime, France

\*BT1 pwr type reactors

**PALYNOLOGY**

INIS: 2000-04-12; ETDE: 1986-01-15  
The study of pollen and spores of plants, including their dispersal and applications in stratigraphy and paleoecology.

RT paleontology

RT pollen

RT stratigraphy

**PAMCO PROCESS**

2000-04-12  
Spencer chemical company process for direct catalytic conversion of coal to synthetic crude oil by hydrogenation during and after solvent extraction.

\*BT1 coal liquefaction

**PAMELA PLANT**

1988-02-02  
Vitrification plant for high-level radioactive wastes in Mol, Belgium.

\*BT1 radioactive waste facilities

RT high-level radioactive wastes

RT pilot plants

RT radioactive waste processing

RT vitrification

**PAMPUS STORAGE RING**

INIS: 1977-09-15; ETDE: 1977-11-10  
Photons for Atomic and Molecular Processes and Universal Studies storage ring facility in Amsterdam.

BT1 storage rings

**pan (pyridylazonaphthol)**

ETDE: 2005-02-01  
(Prior to January 2005 PAN was a valid descriptor.)

USE pyridylazonaphthol

**PANAMA**

\*BT1 central america

BT1 developing countries

**PANAMA CANAL**

1996-07-08  
\*BT1 inland waterways

**panama canal zone**

1996-07-08  
(Until June 1996 this was a valid descriptor.)  
USE central america

**PANCREAS**

BT1 digestive system

\*BT1 endocrine glands

RT amylase

RT chymotrypsin

RT glucagon

RT insulin

RT trypsin

**PANDA DETECTOR**

2017-11-01  
Antiproton annihilation at Darmstadt  
UF panda experiment  
\*BT1 radiation detectors  
RT fair accelerator complex

**panda experiment**

2017-11-01  
USE panda detector

**PANELS**

INIS: 1999-05-26; ETDE: 1985-04-09  
RT underground mining

RT walls

**panindco process**

2000-04-12  
Pulverized coal is fed into center of cylinder and surrounded by oxygen-steam or air-steam mixtures. Synthesis gas of 210 or 125 btu/scf is produced.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**PANOFSKY RATIO**

Charge exchange to capture ratio.

BT1 dimensionless numbers

RT capture

RT photoproduction

**PANSTWOWA AGENCJA ATOMISTYKI**

INIS: 1992-01-28; ETDE: 1992-02-14

\*BT1 polish organizations

**PANTEX PLANT**

INIS: 1977-09-06; ETDE: 1976-11-17

\*BT1 us doe

\*BT1 us erda

RT texas

**PANTOTHENIC ACID**

UF vitamin b-5

\*BT1 amino acids

\*BT1 hydroxy acids

\*BT1 vitamin b group

RT alanine-beta

**PAPAIN**

Code number 3.4.22.2.

\*BT1 sh-proteinases

**PAPAVER SOMNIFERUM**

\*BT1 magnoliopsida

\*BT1 medicinal plants

RT morphine

RT opium

**PAPAYAS**

\*BT1 fruits

**PAPER**

RT dielectric materials

RT paper industry

**paper chromatography**

USE chromatography

**PAPER INDUSTRY**

INIS: 1992-03-10; ETDE: 1977-01-31

\*BT1 wood products industry

RT forestry

RT paper

RT printing and publishing industry

RT wood

**papp**

1996-07-18  
Aminopropiophenone-para.  
(Until July 1996 this was a valid descriptor.)

USE amines

USE ketones

**paprika**

INIS: 1984-04-04; ETDE: 2001-01-23

USE peppers

**papua**

INIS: 1992-06-04; ETDE: 1978-10-25

USE papua new guinea

**PAPUA NEW GUINEA**

INIS: 1992-02-21; ETDE: 1978-10-25  
(Prior to February 1992, this was indexed by NEW GUINEA.)

UF papua

\*BT1 new guinea

**para-aminobenzoic acid**

USE paba

**PARA-SCHOEPITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT uranium oxides

**parabanic acid**

USE imidazoles

USE organic oxygen compounds

**PARABIOSIS**

BT1 mosaicism

RT blood circulation

**PARABOLAS**

2000-04-12

BT1 shape

**PARABOLIC COLLECTORS**

INIS: 1992-03-11; ETDE: 1977-06-21

\*BT1 concentrating collectors

NT1 parabolic dish collectors

NT1 parabolic trough collectors

RT parabolic reflectors

**PARABOLIC DISH COLLECTORS**

INIS: 1992-03-30; ETDE: 1978-10-25

UF circular point collectors

UF parabolic point collectors

\*BT1 parabolic collectors

RT parabolic dish reflectors

**PARABOLIC DISH REFLECTORS**

INIS: 2000-04-12; ETDE: 1981-04-17

\*BT1 parabolic reflectors

RT parabolic dish collectors

**parabolic point collectors**

INIS: 1992-03-30; ETDE: 1978-10-25

USE parabolic dish collectors

**PARABOLIC REFLECTORS**

2000-04-12

\*BT1 solar reflectors

NT1 parabolic dish reflectors

NT1 parabolic trough reflectors

RT cassegrainian concentrators

RT compound parabolic concentrators

RT mirrors

RT parabolic collectors

RT parabolic trough collectors

RT reflection

**PARABOLIC TROUGH COLLECTORS**

INIS: 1992-03-11; ETDE: 1978-10-25

UF cylindrical parabolic collectors

\*BT1 parabolic collectors

RT parabolic reflectors

RT parabolic trough reflectors

**PARABOLIC TROUGH REFLECTORS**

INIS: 2000-04-12; ETDE: 1981-04-17

\*BT1 parabolic reflectors

RT parabolic trough collectors

**paracharge**

INIS: 1996-07-18; ETDE: 1976-11-01  
(Until July 1996 this was a valid descriptor.)  
USE particle properties

**PARACHUTES**

2000-04-12

- RT aerodynamics
- RT reentry

**PARADISE STEAM PLANT**

INIS: 2000-04-12; ETDE: 1978-09-13

- \*BT1 fossil-fuel power plants
- RT tennessee valley authority

**PARADOX BASIN**

INIS: 1986-07-09; ETDE: 1984-03-19

An area of about 10, 000 square miles in southeastern Utah and southwestern Colorado underlain by a series of salt-core anticlines.

- RT colorado
- RT radioactive waste disposal
- RT utah

**PARAELECTRIC RESONANCE**

Resonant rotation of electric dipoles in ionic crystals.

- UF *per* (paraelectric resonance)
- \*BT1 electric resonance

**PARAFFIN**

- \*BT1 alkanes
- \*BT1 waxes
- RT shielding materials

**paraffin removal**

INIS: 2000-04-12; ETDE: 1984-10-24

- USE dewaxing

**paraffins**

- USE alkanes

**paragenes**

INIS: 1982-01-13; ETDE: 1977-12-22

- USE plasmids

**paragenesis**

INIS: 2000-04-12; ETDE: 1981-08-21

A characteristic association of minerals connoting contemporaneous formation. (Prior to March 1997 this was a valid ETDE descriptor.)

- SEE geologic deposits
- SEE petrogenesis

**paragonite**

INIS: 2000-04-12; ETDE: 1976-01-26

A yellowish or greenish mineral of the mica group.

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE mica

**PARAGUAY**

1982-02-09

- BT1 developing countries
- \*BT1 south america

**PARAGUAYAN CNEA**

2005-07-06

Comision Nacional de Energia Atomica.

- UF *cnea* (paraguay)
- \*BT1 paraguay organizations

**PARAGUAYAN ORGANIZATIONS**

2005-07-06

- BT1 national organizations
- NT1 paraguay cnea

**PARAHO PROCESS**

2000-04-12

An oil shale processing method in which heat transfer during the vertical-kiln retorting process is effected by internal combustion of spent shale carbon residue. An alternative method makes use of hot recycle gas with no combustion in the retort.

- RT oil shales

**PARALLEL PROCESSING**

INIS: 1997-06-17; ETDE: 1984-01-27

The concurrent or simultaneous execution of more than one program, or the handling of input for more than one operation at the same time.

- UF multiprocessing
- BT1 programming
- RT algorithms
- RT cedar computers
- RT computers
- RT memory management
- RT task scheduling
- RT vector processing

**paramagnetic resonance (electron acoustic)**

INIS: 1993-11-09; ETDE: 2002-04-26

- USE acoustic esr

**paramagnetic resonance (electron)**

- USE electron spin resonance

**paramagnetic resonance (nuclear acoustic)**

INIS: 1993-11-09; ETDE: 2002-04-26

- USE acoustic nmr

**paramagnetic resonance (nuclear)**

- USE nuclear magnetic resonance

**PARAMAGNETISM**

- BT1 magnetism
- RT van vleck theory

**PARAMECIUM**

- \*BT1 ciliata

**parameter computers**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE digital computers

**PARAMETRIC AMPLIFIERS**

- \*BT1 amplifiers
- RT frequency converters

**PARAMETRIC ANALYSIS**

INIS: 1992-03-09; ETDE: 1980-03-04

Experimental or theoretical study of the changes in the characteristics of a system due to changes in design or operating parameters.

- NT1 prony method
- RT mathematical models
- RT multi-parameter analysis
- RT optimization
- RT response functions
- RT sensitivity analysis
- RT systems analysis

**PARAMETRIC INSTABILITIES**

- UF non-linear plasma instabilities
- UF nonlinear plasma instabilities
- \*BT1 plasma macroinstabilities
- RT alternating current
- RT electric fields

**PARAMETRIC OSCILLATORS**

INIS: 1994-06-27; ETDE: 1978-12-11

- \*BT1 oscillators
- RT optical equipment

**PARASITES**

1996-07-18

- UF *claviceps*
- SF *helminths*
- NT1 ascaridae
- NT2 ascaris
- NT1 cestodes
- NT1 dictyocaulus
- NT1 fusarium
- NT1 hookworm
- NT1 mildew
- NT1 sporozoa
- NT2 babesidae
- NT2 plasmodium
- NT1 trematodes
- NT2 fasciola
- NT2 schistosoma
- NT1 trichinella
- NT1 trypanosoma
- NT1 ustilago
- NT1 viruses
- NT2 aids virus
- NT2 bacteriophages
- NT2 influenza viruses
- NT2 measles virus
- NT2 oncogenic viruses
- NT3 adenovirus
- NT3 leukemia viruses
- NT3 polyoma virus
- NT2 polio virus
- NT2 simian virus
- NT2 tobacco mosaic virus
- NT2 vaccinia virus
- NT2 zika virus
- RT disease vectors
- RT filariasis
- RT fungi
- RT hydatidosis
- RT insects
- RT invertebrates
- RT microorganisms
- RT mites
- RT nematodes
- RT parasitic diseases
- RT pest control
- RT pest eradication
- RT pesticides
- RT plant diseases
- RT protozoa
- RT screwworm fly
- RT sterile male technique
- RT trypanosomes

**PARASITIC DISEASES**

INIS: 1982-12-08; ETDE: 1981-01-12

- \*BT1 infectious diseases
- NT1 fascioliasis
- NT1 filariasis
- NT1 hydatidosis
- NT1 malaria
- NT1 schistosomiasis
- NT1 trichinosis
- NT1 trypanosomiasis
- RT dictyocaulus
- RT hookworm
- RT host
- RT parasites

**PARASTATISTICS**

INIS: 1977-01-26; ETDE: 1977-04-13

- RT bose-einstein statistics
- RT fermi statistics
- RT field algebra
- RT statistical mechanics

**parasympathetic nervous system**

- USE autonomic nervous system

**PARASYMPATHOLYTICS**

- \*BT1 autonomic nervous system agents

NT1 atropine  
 NT1 nicotine  
 RT autonomic nervous system  
 RT neuroregulators  
 RT parasympathomimetics  
 RT sympatholytics  
 RT sympathomimetics

**PARASYMPATHOMIMETICS**

\*BT1 autonomic nervous system agents  
 NT1 acetylcholine  
 NT1 eserine  
 NT1 nicotine  
 NT1 pilocarpine  
 RT autonomic nervous system  
 RT neuroregulators  
 RT parasympatholytics  
 RT sympatholytics  
 RT sympathomimetics  
 RT vagus

**PARATHION**

INIS: 1976-05-07; ETDE: 1976-08-04

\*BT1 insecticides  
 \*BT1 organic nitrogen compounds  
 \*BT1 organic phosphorus compounds  
 \*BT1 thiophosphoric acid esters

**PARATHORMONE**

\*BT1 peptide hormones  
 RT bone tissues  
 RT calcium  
 RT parathyroid glands

**PARATHYROID GLANDS**

\*BT1 endocrine glands  
 RT calcitonin  
 RT hyperparathyroidism  
 RT neck  
 RT parathormone  
 RT thyroid

**PARATUNKA GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields

**paratyphoid**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE bacterial diseases

**PARIS AGREEMENT**

2016-04-20

An agreement within the framework of the United Nations Framework Convention on Climate Change (UNFCCC) governing carbon dioxide reduction measures from 2020.

UF paris climate change agreement

\*BT1 multilateral agreements  
 RT carbon dioxide  
 RT carbon footprint  
 RT climatic change  
 RT emissions tax  
 RT emissions trading  
 RT environmental protection  
 RT greenhouse gases  
 RT kyoto protocol  
 RT pollution laws  
 RT unfccc

**paris climate change agreement**

2016-04-20

USE paris agreement

**paris convention-third party liability**

USE pcotpl

**PARITY**

1996-06-28

(Prior to July 1996 MINAMI AMBIGUITY was a valid ETDE descriptor.)

SF minami ambiguity

BT1 particle properties  
 RT morrison rule  
 RT p invariance  
 RT quantum numbers

**parity nonconservation**

USE p invariance

**PARKA REACTOR**

INIS: 1979-02-21; ETDE: 1976-12-16  
 LANL, Los Alamos, New Mexico, USA. Shut down in 1987.

UF lasl critical assembly

\*BT1 zero power reactors

**parks**

INIS: 2000-04-12; ETDE: 1981-01-09

SEE everglades national park

SEE public lands

SEE recreational areas

SEE yellowstone national park

**parks (energy)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE energy parks

**parks (nuclear)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE nuclear parks

**paroxypropione**

INIS: 2005-01-31; ETDE: 2005-02-01

USE hydroxypropiophenone

**PARR-1 REACTOR**

2004-03-15

Pakistan Atomic Energy Commission, Islamabad, Pakistan.

(Prior to March 2004 the descriptor PARR REACTOR was used for this reactor.)

UF islamabad reactor pakistan

UF pakistan atomic research reactor

UF parr reactor

UF rawalpindi research reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

**PARR-2 REACTOR**

2004-03-15

Pakistan Atomic Energy Commission, Islamabad, Pakistan.

UF pakistan miniature neutron source reactor

\*BT1 mnsr type reactors

**parr carolinas cvtr reactor**

USE cvtr reactor

**parr reactor**

(Prior to March 2004 this was a valid descriptor.)

USE parr-1 reactor

**parsonsite**

INIS: 1996-07-08; ETDE: 2002-04-26

(Until June 1996 this was a valid descriptor.)

USE phosphate minerals

USE uranium minerals

**part-time work schedules**

INIS: 2000-04-12; ETDE: 1984-05-08

USE alternative work schedules

**parthenium argentatum**

INIS: 2000-04-12; ETDE: 1980-01-15

USE guayule

**parthenogenesis**

USE reproduction

**PARTIAL BODY IRRADIATION**

UF shielded organs

\*BT1 external irradiation  
 RT abscopal radiation effects  
 RT local irradiation  
 RT spatial dose distributions

**partial conservation axial currents**

1993-11-09

USE pcac theory

**partial conservation vector current**

1993-11-09

USE pcvc theory

**PARTIAL DIFFERENTIAL EQUATIONS**

INIS: 1982-12-07; ETDE: 1980-11-25

\*BT1 differential equations

NT1 boltzmann equation

NT1 boltzmann-vlasov equation

NT2 plasma fluid equations

NT1 continuity equations

NT1 diffusion equations

NT2 neutron diffusion equation

NT1 equations of motion

NT1 fokker-planck equation

NT1 fourier heat equation

NT1 grad-shafranov equation

NT1 hamilton-jacobi equations

NT1 korteweg-de vries equation

NT1 lagrange equations

NT1 laplace equation

NT1 maxwell equations

NT1 navier-stokes equations

NT1 poisson equation

NT1 proca equations

NT1 wave equations

NT2 dirac equation

NT3 dirac spinors

NT2 klein-gordon equation

NT2 majorana equation

NT2 schrodinger equation

RT cauchy problem

RT dirichlet problem

**PARTIAL MOLAL VOLUME**

INIS: 2000-04-12; ETDE: 1975-09-11

Partial molal volume is the change in volume of a solution which would be brought about by the addition of one mole of solute to such a large amount of solution that the composition of the solution remains essentially unchanged.

RT thermodynamic properties

**PARTIAL OXIDATION PROCESSES**

2000-04-12

BT1 chemical reactions

BT1 thermochemical processes

RT autothermal reformer processes

RT hydrocarbons

RT hydrogen production

RT shell gasification process

**PARTIAL PRESSURE**

INIS: 1985-07-23; ETDE: 1981-11-10

The pressure that would be exerted by one component of a mixture of gases if it were present alone in a container.

\*BT1 thermodynamic properties

RT dissolved gases

**PARTIAL WAVES**

NT1 d waves

NT1 f waves

NT1 p waves

NT1 s waves

RT angular momentum

RT cdd poles

RT dispersion relations

RT linear absorption models

RT n-d method

RT omnes-muskhelishvili method



RT phase shift  
 RT quantum mechanics  
 RT scattering  
 RT scattering amplitudes

### PARTICLE BEAM FUSION ACCELERATOR

INIS: 1999-01-20; ETDE: 1980-03-04

UF *pbfa*  
 BT1 accelerators  
 RT electron beam fusion accelerator  
 RT inertial confinement  
 RT ion beam fusion reactors

### particle-beam weapons

INIS: 2000-04-12; ETDE: 1981-08-21

USE directed-energy weapons

### PARTICLE BEAMS

BT1 beams  
 NT1 hyperon beams  
 NT2 lambda particle beams  
 NT2 sigma particle beams  
 NT1 lepton beams  
 NT2 electron beams  
 NT2 muon beams  
 NT2 neutrino beams  
 NT3 antineutrino beams  
 NT2 positron beams  
 NT1 meson beams  
 NT2 eta meson beams  
 NT2 kaon beams  
 NT2 pion beams  
 NT1 nucleon beams  
 NT2 neutron beams  
 NT2 proton beams  
 RT beam neutralization  
 RT directed-energy weapons  
 RT ion beams  
 RT photon beams  
 RT pomeranchuk theorem  
 RT q-shift

### PARTICLE BOOSTERS

First stage of a multistage accelerator.

UF *boosters (particle)*  
 RT accelerators  
 RT beam injection

### PARTICLE-CORE COUPLING MODEL

INIS: 1977-01-26; ETDE: 1977-04-13

UF *particle-core model*  
 UF *particle-rotor model*  
 \*BT1 nuclear models  
 RT coupling  
 RT nuclear structure

### particle-core model

1984-04-04

(Prior to July 1985, this was a valid ETDE descriptor.)

USE particle-core coupling model

### PARTICLE DECAY

SF *disintegration (nuclear particles)*  
 BT1 decay  
 NT1 electromagnetic particle decay  
 NT1 hadronic particle decay  
 NT1 radiative decay  
 NT1 weak particle decay  
 NT2 leptonic decay  
 NT2 semileptonic decay  
 NT2 weak hadronic decay  
 RT multiple production  
 RT particle production

### PARTICLE DISCRIMINATION

Particle or radiation discrimination in a mixed field.

BT1 particle identification

RT measuring methods  
 RT radiation detection  
 RT resolution

### PARTICLE ELECTRIC POLARIZABILITY

2015-01-29

UF *polarizability (particle electric)*  
 \*BT1 particle polarizability  
 RT electric dipole moments

### PARTICLE-HOLE MODEL

\*BT1 nuclear models  
 RT aligned coupling scheme  
 RT weak-coupling model

### PARTICLE IDENTIFICATION

NT1 particle discrimination

### particle-induced x-ray emission analysis

INIS: 2000-04-12; ETDE: 1978-08-07

USE x-ray emission analysis

### PARTICLE INFLUX

1995-07-03

UF *influx (particles)*  
 RT particle losses  
 RT plasma impurities  
 RT thermonuclear fuels  
 RT wall effects

### PARTICLE INTERACTIONS

BT1 interactions  
 NT1 annihilation  
 NT1 charged-current interactions  
 NT1 coherent production  
 NT1 electron-quark interactions  
 NT1 electroproduction  
 NT1 exclusive interactions  
 NT2 semi-exclusive interactions  
 NT1 gluon-gluon interactions  
 NT1 hadron-hadron interactions  
 NT2 baryon-baryon interactions  
 NT3 hyperon-hyperon interactions  
 NT3 nucleon-antinucleon interactions  
 NT4 antiproton-neutron interactions  
 NT4 neutron-antineutron interactions  
 NT4 proton-antineutron interactions  
 NT4 proton-antiproton interactions  
 NT3 nucleon-deuteron interactions  
 NT4 proton-deuteron interactions  
 NT3 nucleon-hyperon interactions  
 NT3 nucleon-nucleon interactions  
 NT4 neutron-neutron interactions  
 NT4 proton-nucleon interactions  
 NT5 proton-neutron interactions  
 NT5 proton-proton interactions  
 NT2 meson-baryon interactions  
 NT3 meson-hyperon interactions  
 NT4 kaon-hyperon interactions  
 NT4 pion-hyperon interactions  
 NT3 meson-nucleon interactions  
 NT4 kaon-nucleon interactions  
 NT5 kaon-neutron interactions  
 NT6 kaon minus-neutron interactions  
 NT6 kaon neutral-neutron interactions  
 NT6 kaon plus-neutron interactions  
 NT5 kaon-proton interactions  
 NT6 kaon minus-proton interactions  
 NT6 kaon neutral-proton interactions  
 NT6 kaon plus-proton interactions  
 NT4 pion-nucleon interactions  
 NT5 pion-neutron interactions

NT6 pion minus-neutron interactions  
 NT6 pion plus-neutron interactions  
 NT5 pion-proton interactions  
 NT6 pion minus-proton interactions  
 NT6 pion plus-proton interactions  
 NT2 meson-meson interactions  
 NT3 kaon-kaon interactions  
 NT3 pion-kaon interactions  
 NT3 pion-pion interactions  
 NT1 inclusive interactions  
 NT2 semi-inclusive interactions  
 NT1 incoherent production  
 NT1 lepton-hadron interactions  
 NT2 lepton-baryon interactions  
 NT3 lepton-nucleon interactions  
 NT4 deep inelastic scattering  
 NT4 electron-nucleon interactions  
 NT5 electron-neutron interactions  
 NT5 electron-proton interactions  
 NT4 lepton-neutron interactions  
 NT5 antilepton-neutron interactions  
 NT6 antineutrino-neutron interactions  
 NT4 lepton-proton interactions  
 NT5 antilepton-proton interactions  
 NT6 antineutrino-proton interactions  
 NT4 muon-nucleon interactions  
 NT5 muon-neutron interactions  
 NT5 muon-proton interactions  
 NT4 neutrino-nucleon interactions  
 NT5 antineutrino-nucleon interactions  
 NT6 antineutrino-neutron interactions  
 NT6 antineutrino-proton interactions  
 NT5 neutrino-neutron interactions  
 NT6 antineutrino-neutron interactions  
 NT5 neutrino-proton interactions  
 NT6 antineutrino-proton interactions  
 NT2 lepton-meson interactions  
 NT3 electron-meson interactions  
 NT4 electron-pion interactions  
 NT3 muon-meson interactions  
 NT3 neutrino-meson interactions  
 NT1 lepton-lepton interactions  
 NT2 electron-electron interactions  
 NT2 electron-muon interactions  
 NT2 electron-positron interactions  
 NT2 muon-muon interactions  
 NT2 neutrino-electron interactions  
 NT3 antineutrino-electron interactions  
 NT2 neutrino-muon interactions  
 NT2 neutrino-neutrino interactions  
 NT2 positron-positron interactions  
 NT1 neutral-current interactions  
 NT1 photon-hadron interactions  
 NT2 photon-baryon interactions  
 NT3 photon-hyperon interactions  
 NT3 photon-nucleon interactions  
 NT4 photon-neutron interactions  
 NT4 photon-proton interactions  
 NT2 photon-meson interactions  
 NT1 photon-lepton interactions  
 NT2 photon-electron interactions  
 NT2 photon-muon interactions  
 NT2 photon-neutrino interactions  
 NT1 photon-photon interactions  
 NT1 photoproduction  
 NT2 primakoff effect  
 NT1 quark-antiquark interactions  
 NT1 quark-gluon interactions  
 NT1 quark-hadron interactions

**NT1** quark-quark interactions  
*RT* centauro-type events  
*RT* coherent tube model  
*RT* four momentum transfer  
*RT* longitudinal momentum  
*RT* m-theory  
*RT* morrison rule  
*RT* multiple production  
*RT* particle kinematics  
*RT* particle production  
*RT* polarized products  
*RT* s channel  
*RT* straight-line path approximation  
*RT* string models  
*RT* t channel  
*RT* transverse energy  
*RT* transverse momentum  
*RT* u channel

**PARTICLE KINEMATICS**

*UF* kinematics (particle)  
*RT* angular correlation  
*RT* collisions  
*RT* conservation laws  
*RT* decay  
*RT* distribution  
*RT* equations of motion  
*RT* particle interactions  
*RT* particle rapidity

**PARTICLE LOSSES**

*INIS: 1995-07-03; ETDE: 1983-03-24*

**BT1** losses  
*RT* energy losses  
*RT* particle influx  
*RT* plasma confinement  
*RT* plasma disruption

**PARTICLE MAGNETIC****POLARIZABILITY**

*2015-01-29*

*UF* polarizability (particle magnetic)  
 \***BT1** particle polarizability  
*RT* magnetic dipole moments

**PARTICLE MOBILITY**

**BT1** mobility  
**NT1** electron mobility  
**NT1** ion mobility

**PARTICLE MODELS**

*UF* models (particle)  
**BT1** mathematical models  
**NT1** coherent tube model  
**NT1** composite models  
**NT2** bootstrap model  
**NT2** cim model  
**NT2** quark model  
**NT3** bag model  
**NT3** color model  
**NT3** flavor model  
**NT3** string models  
**NT4** superstring models  
**NT1** correlated-particle models  
**NT1** diffraction models  
**NT1** dual absorption model  
**NT1** extended particle model  
**NT2** bag model  
**NT2** string models  
**NT3** superstring models  
**NT1** feynman gas model  
**NT1** fireball model  
**NT1** gluon model  
**NT1** hard collision models  
**NT1** higgs model  
**NT1** isobar model  
**NT1** jet model  
**NT1** lee model  
**NT1** linear absorption models  
**NT1** nova model  
**NT1** octet model

**NT1** peripheral models  
**NT2** baryon-exchange models  
**NT2** boson-exchange models  
**NT3** obe model  
**NT4** ope model  
**NT5** electric born model  
**NT3** sigma model  
**NT2** multiperipheral model  
**NT3** cluster emission model  
**NT4** space-time model  
**NT1** strong-coupling model  
**NT1** tensor dominance model  
**NT1** thermodynamic model  
**NT2** hydrodynamic model  
**NT1** uncorrelated-particle model  
**NT1** unified gauge models  
**NT2** grand unified theory  
**NT3** standard model  
**NT2** weinberg-salam gauge model  
**NT1** van hove model  
**NT1** vector dominance model  
**NT1** veneziano model  
**NT2** dual resonance model  
*RT* branes  
*RT* harmonic oscillator models  
*RT* leading particles  
*RT* limiting fragmentation  
*RT* m-theory  
*RT* optical models  
*RT* particle multiplets  
*RT* particle structure  
*RT* statistical models  
*RT* structure functions

**PARTICLE MULTIPLETS**

**BT1** multiplets  
**NT1** baryon decuplets  
**NT1** baryon octets  
**NT1** meson nonets  
**NT1** meson octets  
*RT* okubo mass formula  
*RT* particle models  
*RT* spectra

**PARTICLE POLARIZABILITY**

*2015-01-29*

**BT1** particle properties  
**NT1** particle electric polarizability  
**NT1** particle magnetic polarizability

**PARTICLE PRODUCTION**

*UF* cumulative effect  
*UF* diffractive dissociation  
*UF* production (particle)  
*UF* production mechanisms (particle)  
**NT1** coherent production  
**NT1** electroproduction  
**NT1** incoherent production  
**NT1** multiple production  
**NT2** pionization  
**NT1** pair production  
**NT2** internal pair production  
**NT1** photoproduction  
**NT2** primakoff effect  
*RT* blankenbecler-sugar equations  
*RT* hydrodynamic model  
*RT* leading particles  
*RT* mixing ratio  
*RT* particle decay  
*RT* particle interactions  
*RT* regeneration

**PARTICLE PROPERTIES**

*1996-07-18*

*Use only for data compilations or papers of a similar broad nature; otherwise use the specific terms listed below.*

*UF* parachute  
**NT1** chirality  
**NT1** form factors

**NT2** dirac form factors  
**NT2** electromagnetic form factors  
**NT2** pauli form factors  
**NT1** g parity  
**NT1** helicity  
**NT1** hypercharge  
**NT1** isospin  
**NT1** mass difference  
**NT1** parity  
**NT1** particle polarizability  
**NT2** particle electric polarizability  
**NT2** particle magnetic polarizability  
**NT1** particle radii  
**NT1** particle rapidity  
**NT1** particle widths  
**NT1** spin  
**NT1** strangeness  
*RT* lifetime  
*RT* limiting values  
*RT* quantum numbers  
*RT* spin orientation

**PARTICLE RADII**

*For quantum objects only; otherwise use*

**PARTICLE SIZE.**

*UF* charge radius (particle)  
*UF* mass radius (particle)  
**BT1** particle properties  
*RT* nuclear radii  
*RT* particle structure

**PARTICLE RAPIDITY**

*Defined as  $(1/2)\ln((E+pc)/(E-pc))$ , where p is the longitudinal momentum; widely used in high energy physics.*

*UF* rapidity  
**BT1** particle properties  
*RT* kinetic energy  
*RT* longitudinal momentum  
*RT* particle kinematics  
*RT* scale invariance

**PARTICLE RESUSPENSION**

*INIS: 1977-09-06; ETDE: 1976-07-07*

*UF* resuspension  
*UF* resuspension (particles)  
*RT* aerodynamics  
*RT* aerosols  
*RT* air pollution  
*RT* chemical effluents  
*RT* diffusion  
*RT* dispersions  
*RT* dusts  
*RT* earth crust  
*RT* fallout  
*RT* radioactive aerosols  
*RT* radioactive effluents  
*RT* radionuclide migration  
*RT* surface air  
*RT* wind

**particle-rotor model**

*INIS: 1984-04-04; ETDE: 2002-04-26*

*USE* particle-core coupling model

**PARTICLE SIZE**

*For quantum objects see PARTICLE RADII.*

**BT1** size  
*RT* aerosols  
*RT* agglomeration  
*RT* ceramography  
*RT* colloids  
*RT* dispersions  
*RT* droplets  
*RT* dusts  
*RT* elutriation  
*RT* microspheres  
*RT* particle size classifiers  
*RT* particles  
*RT* powders

**PARTICLE SIZE CLASSIFIERS**

*INIS: 1999-09-08; ETDE: 1977-03-08*

- BT1 equipment
- RT classification
- RT particle size
- RT screens
- RT separation processes
- RT sorting
- RT trommels

**PARTICLE SOURCES**

- BT1 radiation sources
- NT1 alpha sources
- NT1 antiproton sources
- NT1 beta sources
- NT1 deuteron sources
- NT1 electron sources
- NT2 pierce electron guns
- NT1 neutron sources
- NT2 neutron generators
- NT1 positron sources
- NT1 proton sources
- RT ion sources

**PARTICLE STRUCTURE**

*1996-06-26*

(Prior to June 1996 BACH-TAMAID

THEORY was a valid ETDE descriptor.)

- SF *bach-tamaid theory*
- RT emc effect
- RT landau quasi particles
- RT particle models
- RT particle radii
- RT string models
- RT structure functions
- RT superstring models

**PARTICLE TRACKS**

- UF *prongs*
- UF *tracks*
- NT1 fission tracks
- RT dielectric track detectors
- RT etching
- RT image scanners
- RT particles
- RT pattern recognition
- RT trajectories

**PARTICLE WIDTHS**

- BT1 particle properties
- RT lifetime

**PARTICLES**

*When appropriate, see the more specific descriptors listed under CHARGED PARTICLES, ELEMENTARY PARTICLES, and QUASIPARTICLES.*

- UF *fallout particulates*
- UF *fragments (particles)*
- UF *radioactive particulates*
- NT1 coarse particles
- NT1 droplets
- NT1 fine particles
- NT1 interstellar grains
- NT1 nanoparticles
- NT1 particulates
- NT2 soot
- NT2 total suspended particulates
- NT1 soot
- RT aerosols
- RT colloids
- RT condensation nuclei
- RT dispersions
- RT dusts
- RT elutriation
- RT granular materials
- RT micellar systems
- RT particle size
- RT particle tracks
- RT powders

- RT sedimentation
- RT stokes number
- RT virial theorem
- RT viruses

**particles (fuel)**

USE fuel particles

**PARTICULATES**

*INIS: 1991-08-14; ETDE: 1981-09-08*

(Prior to August 1991, this concept was indexed to AEROSOLS and PARTICLES.)

- UF *airborne particles*
- UF *airborne particulates*
- UF *waterborne particles*
- UF *waterborne particulates*
- SF *inhalable particles*
- BT1 particles
- NT1 soot
- NT1 total suspended particulates
- RT aerosols
- RT air pollution
- RT air pollution abatement
- RT air pollution monitoring
- RT ashes
- RT dispersions
- RT dusts
- RT fly ash
- RT water pollution

**PARTITION**

*Not to be used in connection with ion exchange or ion exchange chromatography.*

- RT arrhenius equation
- RT equilibrium
- RT gas chromatography
- RT solvent extraction

**partition chromatography**

USE chromatography

**PARTITION FUNCTIONS**

- BT1 functions
- RT statistical mechanics
- RT thermodynamics

**parton model**

(This was a valid descriptor until March 2006.)

- SEE gluon model
- SEE quark model

**partons**

*INIS: 1980-02-26; ETDE: 1980-03-29*

(This was a valid descriptor from February 1980 to March 2006.)

- SEE gluons
- SEE quarks

**PARTURITION**

- UF *birth*
- RT oxytocin
- RT pregnancy
- RT progeny

**PASCAL**

*INIS: 2000-04-12; ETDE: 1985-12-11*

- BT1 programming languages

**PASCHEN-BACK EFFECT**

- RT fine structure
- RT zeeman effect

**paschen curve**

USE paschen law

**PASCHEN LAW**

- UF *paschen curve*
- UF *paschen minimum*
- RT breakdown
- RT electric discharges
- RT electric potential

- RT gases
- RT spark gaps

**PASCHEN LINES**

- RT spectra

**paschen minimum**

USE paschen law

**PASCO BASIN**

*INIS: 1992-06-04; ETDE: 1984-08-20*

- \*BT1 columbia river basin
- RT hanford reservation
- RT radioactive waste disposal
- RT washington

**PASCOITE**

*2000-04-12*

- \*BT1 oxide minerals
- \*BT1 radioactive minerals
- RT calcium oxides
- RT vanadium oxides

**PASSAMAQUODDY POWER PLANT**

*INIS: 2000-04-12; ETDE: 1975-11-11*

- \*BT1 tidal power plants

**passengers**

*INIS: 2000-04-12; ETDE: 1978-04-05*

USE occupants

**PASSIVATION**

- RT corrosion protection

**PASSIVE SOLAR COOLING SYSTEMS**

*INIS: 2000-04-12; ETDE: 1977-07-23*

- \*BT1 solar cooling systems
- NT1 bead walls
- NT1 drum walls
- NT1 roof ponds
- RT curtains
- RT solar architecture

**PASSIVE SOLAR HEATING SYSTEMS**

*INIS: 2000-05-08; ETDE: 1977-07-23*

- \*BT1 solar heating systems
- NT1 bead walls
- NT1 direct gain systems
- NT1 drum walls
- NT1 roof ponds
- NT1 thermic diode solar panels
- NT1 trombe walls
- NT1 water walls
- RT attached greenhouses
- RT curtains
- RT double envelope buildings
- RT load collector ratio
- RT solar air heaters
- RT solar architecture

**PASSIVE SOLAR WATER HEATERS**

*INIS: 2000-04-12; ETDE: 1981-01-09*

- \*BT1 solar water heaters
- NT1 thermic diode solar panels
- RT thermosyphon effect

**PASSIVITY**

- RT corrosion
- RT corrosion resistance

**PASTEURIZATION**

- \*BT1 food processing
- NT1 radacidation
- RT preservation
- RT sterilization

**PASTURES**

*INIS: 1979-12-20; ETDE: 1979-05-31*

- RT cattle
- RT forage
- RT gramineae

RT rangelands

## PAT REACTOR

2000-04-12

*Land-based submarine prototype reactor.*

*Decommissioned.*

UF *prototype a terre*

\*BT1 pwr type reactors

\*BT1 research reactors

\*BT1 test reactors

## PATENT LAWS

INIS: 1990-12-15; ETDE: 1978-03-08

(Prior to December 1990, this descriptor was spelled PATENT LAW.)

BT1 laws

## PATENTS

*Use only for items about patents, not for items which are patents.*

BT1 document types

RT inventions

RT legal aspects

RT licensing

RT specifications

## patgas process

INIS: 2000-04-12; ETDE: 1976-10-13

*Coal gasification process to produce a fuel gas containing 36% hydrogen and 64% carbon monoxide at 1000 psig and 100 degrees F.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

## PATH INTEGRALS

2003-07-24

BT1 integrals

NT1 feynman path integral

## PATHE GEOTHERMAL FIELD

2000-04-12

BT1 geothermal fields

RT geothermal hot-water systems

RT mexico

## PATHFINDER REACTOR

*Northern States Power Co., Sioux Falls, South Dakota, USA. Decommissioned in 1967.*

UF *sioux falls pathfinder reactor*

\*BT1 bwr type reactors

## PATHOGENESIS

NT1 carcinogenesis

NT2 leukemogenesis

RT aids

RT diseases

RT pathogens

RT pathological changes

## PATHOGENS

INIS: 1981-05-11; ETDE: 1979-05-25

*Disease-producing agents, usually refers to living organisms.*

RT anti-infective agents

RT disease vectors

RT diseases

RT fungi

RT microorganisms

RT pathogenesis

RT pathological changes

## PATHOLOGICAL CHANGES

NT1 abscesses

NT1 allergy

NT1 ascites

NT1 atrophy

NT1 biological shock

NT1 calcinosis

NT1 caries

NT1 chlorosis

NT1 cysts

NT1 edema

NT1 emphysema

NT1 epilation

NT1 fibrosis

NT1 fistulae

NT1 hemolysis

NT1 hemorrhage

NT1 hypertrophy

NT1 inflammation

NT1 jaundice

NT1 malformations

NT2 congenital malformations

NT3 downs syndrome

NT1 necrosis

NT2 gangrene

NT2 osteoradionecrosis

NT1 splenomegaly

NT1 ulcers

RT diseases

RT granulomas

RT leukopenia

RT pathogenesis

RT pathogens

RT pathology

RT symptoms

## PATHOLOGY

RT autopsy

RT diseases

RT medicine

RT pathological changes

## PATIENTS

RT drug delivery

RT human populations

RT man

RT medicine

RT therapy

## PATTERN RECOGNITION

INIS: 1976-05-07; ETDE: 1975-12-16

*Identification of shapes and patterns without active human participation.*

UF *fingerprinting (oil spills)*

UF *oil spill fingerprinting*

RT cluster analysis

RT data processing

RT diagrams

RT display devices

RT fiducial markers

RT identification systems

RT image scanners

RT image tubes

RT images

RT particle tracks

RT visibility

## PATTERSON METHOD

BT1 calculation methods

RT crystallography

RT diffraction methods

## pauli exclusion principle

USE pauli principle

## PAULI FORM FACTORS

\*BT1 form factors

## pauli matrices

USE pauli spin operators

## PAULI PRINCIPLE

UF *exclusion principle*

UF *pauli exclusion principle*

RT occupation number

RT quantum mechanics

## PAULI SPIN OPERATORS

UF *pauli matrices*

\*BT1 angular momentum operators

RT spin

## PAUZHETSK GEOTHERMAL FIELD

2000-04-12

BT1 geothermal fields

RT geothermal hot-water systems

## PAVEMENTS

INIS: 1992-05-18; ETDE: 1978-06-14

RT asphalts

RT building materials

RT concretes

RT roads

## pavia triga-mk-2 reactor

INIS: 1984-06-21; ETDE: 2002-04-26

USE triga-2-pavia reactor

## pawling research reactor

USE prr reactor

## PAYBACK PERIOD

INIS: 1986-04-03; ETDE: 1978-03-03

*Time required for the cost savings from a new installation to equal the initial capital investment.*

RT cost

RT economics

RT financial incentives

RT investment

RT life-cycle cost

## PBF REACTOR

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1992; decommissioned.*

UF *national reactor testing station burst facility*

UF *power burst facility usaec*

\*BT1 pulsed reactors

\*BT1 tank type reactors

## pbfa

INIS: 1982-09-21; ETDE: 1980-03-04

USE particle beam fusion accelerator

## PBI

UF *protein-bound iodine*

\*BT1 organic iodine compounds

\*BT1 proteins

RT blood chemistry

RT blood-plasma clearance

RT cpb

RT hyperthyroidism

RT hypothyroidism

RT radiotherapy

RT thyroid hormones

## PBR REACTOR

*NASA, Lewis Research Center, Plum Brook Station, Sandusky, Ohio, USA. Shut down in 1973.*

UF *nasa-test reactor*

UF *nasa-tr reactor*

UF *plum brook nasa-tr*

UF *plum brook reactor facility*

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

## PBX DEVICES

INIS: 1988-11-16; ETDE: 1983-10-11

*A modification of the PDX device with a rearrangement of the divertor coils.*

UF *princeton beta experiment*

\*BT1 tokamak devices

RT pdx devices

RT poloidal field divertors

## pca

USE polar-cap absorption

**pca-lasl facility**

INIS: 2000-04-12; ETDE: 1977-04-12

USE plasma core assembly

**pca-ornl reactor**

USE ornl-pca reactor

**PCAC THEORY**

UF partial conservation axial currents

RT axial-vector currents

RT current algebra

**pcb**

INIS: 2000-04-12; ETDE: 1980-11-12

Polychlorinated biphenyl.

USE polychlorinated biphenyls

**pcb (polychlorinated biphenyl)**

ETDE: 2002-04-26

USE polychlorinated biphenyls

**pcm accidents**

USE power-cooling-mismatch accidents

**PCOTPL**

Paris Convention on Third Party Liability.

UF liability conv on third party, paris

UF paris convention-third party liability

UF third party liability convention, paris

\*BT1 multilateral agreements

RT bcstpc

RT civil liability

RT liabilities

RT nuclear liability

**pcr**

1994-06-27

USE polymerase chain reaction

**PCTR REACTOR**

Battelle Memorial Institute, Richland, Washington, USA. Shut down in 1972.

UF physical constants test reactor

UF richland physical constants test reactor

\*BT1 enriched uranium reactors

\*BT1 graphite moderated reactors

\*BT1 research reactors

\*BT1 thermal reactors

**PCV SYSTEMS**

INIS: 2000-04-12; ETDE: 1979-03-05

UF positive crankcase ventilation systems

\*BT1 pollution control equipment

RT automobiles

RT internal combustion engines

**PCVC THEORY**

UF partial conservation vector current

RT current algebra

RT vector currents

**PDP COMPUTERS**

\*BT1 dec computers

**PDP REACTOR**

Savannah River Plant, Aiken, South Carolina, USA. Shut down in 1979.

UF process development pile

UF savannah river process development reactor

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 zero power reactors

RT enriched uranium reactors

RT natural uranium reactors

**pdu**

INIS: 2000-04-12; ETDE: 1976-11-17

USE process development units

**PDX DEVICES**

INIS: 1978-07-03; ETDE: 1977-11-28

UF poloidal divertor experiment

\*BT1 tokamak devices

RT pbx devices

RT poloidal field divertors

**pe-16**

INIS: 1975-08-20; ETDE: 2002-04-26

USE alloy-ni43fe33cr16mo3

**pea plant**

USE pisum

**PEACE RIVER**

INIS: 1992-06-04; ETDE: 1975-11-28

\*BT1 rivers

RT alberta

RT british columbia

**PEACE RIVER DEPOSIT**

1992-06-04

\*BT1 oil sand deposits

RT alberta

RT canada

RT oil sands

**PEACH BOTTOM-1 REACTOR**

Philadelphia Electric Co., Delta, Pennsylvania, USA. Shut down in 1974.

UF htgr peach bottom reactor

\*BT1 enriched uranium reactors

\*BT1 helium cooled reactors

\*BT1 htgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**PEACH BOTTOM-2 REACTOR**

Exelon Generation Co., LLC, Delta, Pennsylvania, USA.

\*BT1 bwr type reactors

**PEACH BOTTOM-3 REACTOR**

Exelon Generation Co., LLC, Delta, Pennsylvania, USA.

\*BT1 bwr type reactors

**PEACHES**

\*BT1 fruits

RT fruit trees

RT rosaceae

**PEAK LOAD**

INIS: 1982-12-03; ETDE: 1979-09-06

Maximum instantaneous load or maximum average load over a designated interval of time.

UF peak power

RT electric utilities

RT load analysis

RT load management

RT power demand

**PEAK-LOAD PRICING**

INIS: 1984-04-04; ETDE: 1976-03-22

BT1 prices

RT electric power

RT load management

RT off-peak power

RT power meters

RT public utilities

RT time-of-use pricing

**peak power**

INIS: 2000-04-12; ETDE: 1979-09-06

USE peak load

**PEAKING POWER PLANTS**

INIS: 1995-02-27; ETDE: 1979-02-27

BT1 power plants

NT1 compressed air storage power plants

NT1 pumped storage power plants

RT capacitive energy storage equipment

RT compressed air energy storage equipment

RT gas turbine power plants

RT hydroelectric power plants

RT load management

RT magnetic energy storage equipment

RT off-peak energy storage

RT thermal energy storage equipment

RT thermal power plants

**PEAKS**

NT1 escape peaks

RT pulse rise time

RT transients

**PEANUT OIL**

\*BT1 triglycerides

\*BT1 vegetable oils

**PEANUTS**

UF groundnuts

BT1 seeds

RT leguminosae

RT proteins

**pearl pulsations**

USE pulsations

**pearl spar**

INIS: 2000-04-12; ETDE: 1976-03-31

SEE ankerite

SEE dolomite

**PEARLITE**

An aggregate in steel of ferrite and cementite.

UF perlite (iron-carbon alloy)

RT cast iron

RT cementite

RT ferrite

RT steels

**PEARS**

\*BT1 fruits

RT rosaceae

**PEAS**

BT1 seeds

\*BT1 vegetables

RT pisum

**PEAT**

\*BT1 fossil fuels

\*BT1 organic matter

\*BT1 solid fuels

RT coal

RT soils

**PEATGAS PROCESS**

INIS: 2000-04-12; ETDE: 1978-08-07

Dilute-phase, concurrent short-residence time hydrogasification and fluidized-bed nonslagging char gasification.

\*BT1 coal gasification

BT1 sng processes

**peatlands**

INIS: 2000-04-12; ETDE: 1983-01-21

USE wetlands

**PEBBLE BED REACTORS**

\*BT1 gas cooled reactors

\*BT1 solid homogeneous reactors

NT1 avr reactor

NT1 thtr-300 reactor

NT1 vg-400 reactor

NT1 vgr-50 reactor

**PEBBLE SPRINGS-1 REACTOR**

Portland General Electric Co., Arlington, Oregon, USA. Canceled in 1982 before construction began.

\*BT1 pwr type reactors

**PEBBLE SPRINGS-2 REACTOR**

Portland General Electric Co., Arlington, Oregon, USA. Canceled in 1982 before construction began.

\*BT1 pwr type reactors

**PEC BRASIMONE REACTOR**

UF brasimone pec reactor

\*BT1 fbr type reactors

\*BT1 power reactors

**PECAN TREES**

INIS: 1992-01-10; ETDE: 1979-05-31

\*BT1 magnoliopsida

\*BT1 trees

**PECTINS**

\*BT1 blood substitutes

\*BT1 polysaccharides

RT galacturonic acid

RT glucuronic acid

**peculiar a-stars**

USE magnetic stars

**PEDIATRICS**

BT1 medicine

RT children

RT congenital malformations

**peening**

USE shot peening

**pegase critical experiments**

USE peggy reactor

**PEGASE REACTOR**

Cadarache Nuclear Research Center, France.

Permanent shutdown since 1974

UF cadarache fuel element testing reactor

\*BT1 enriched uranium reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**PEGGY REACTOR**

Decommissioned since 1976.

UF pegase critical experiments

\*BT1 enriched uranium reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

\*BT1 zero power reactors

**PEGMATITES**

Exceptionally coarse grained igneous rocks, with interlocking crystals, usually found as irregular dikes, lenses, or veins, esp. at the margins of batholiths.

\*BT1 plutonic rocks

RT feldspars

RT granites

RT mica

RT xenotime

**PEIERLS METHOD**

UF kapur-peierls method

UF wigner method

RT bremsstrahlung

RT compound nuclei

RT cross sections

RT photoneutrons

**PEIERLS-NABARRO FORCE**

RT crystal structure

RT dislocations

**pelargonic acid**

USE nonanoic acid

**PELINDABA TREATY**

1999-01-26

Treaty for the prohibition of nuclear weapons in Africa.

BT1 treaties

RT arms control

RT nuclear weapons

**PELINDUNA REACTOR**

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 zero power reactors

**PELLET INJECTION**

1983-03-15

UF injection (pellets)

RT fuel feeding systems

RT fuel pellets

RT thermonuclear fuels

RT thermonuclear reactor fueling

**PELLETIZING**

INIS: 1981-02-27; ETDE: 1975-10-01

\*BT1 molding

RT agglomeration

RT breeding pellets

RT briquetting

RT compacting

RT fuel pellets

RT moderator pellets

RT waste pellets

**PELLETRON ACCELERATORS**

INIS: 1979-12-20; ETDE: 1980-01-24

UF pelletrons

\*BT1 electrostatic accelerators

NT1 5u pelletron accelerator

**pelletrons**

INIS: 2000-04-12; ETDE: 1979-08-09

(Prior to December 1980, this was a valid ETDE descriptor.)

USE pelletron accelerators

**PELLETS**

INIS: 2000-04-12; ETDE: 1976-10-13

UF wood pellets

NT1 absorber pellets

NT1 breeding pellets

NT1 fuel pellets

NT1 moderator pellets

NT1 waste pellets

**pellicularia**

INIS: 2000-04-12; ETDE: 1979-08-07

Cellulase-producing fungus.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE eumycota

**PELVIS**

1999-04-06

BT1 body

RT bladder

RT female genitals

RT gonads

RT rectum

**penalties**

INIS: 2000-04-12; ETDE: 1979-07-24

USE charges

**pendulums**

INIS: 2000-04-12; ETDE: 1976-02-19

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE mechanical vibrations

SEE oscillations

SEE time measurement

**PENELEC PROCESS**

2000-04-12

A process for desulfurization of flue gas using V catalyst to oxidize sulfur dioxide to sulfur trioxide.

\*BT1 desulfurization

RT sulfur

**penetrant inspection (liquid)**

USE liquid penetrant inspection

**PENETRATION DEPTH**

1978-11-24

May be used in any field; in particular in the field of superconductivity it is the depth to which an external magnetic field penetrates a superconductor.

RT ginzburg-landau theory

RT skin effect

RT superconductivity

**PENETRATORS**

INIS: 2000-04-12; ETDE: 1975-10-01

NT1 earth penetrators

NT2 subterrene penetrators

RT weapons

**PENETROMETERS**

1992-05-12

BT1 measuring instruments

**PENFOLD-LEISS METHOD**

RT bremsstrahlung

**PENICILLAMINE**

UF mercaptoaminoisovaleric acid

UF mercaptovaline

\*BT1 amino acids

BT1 chelating agents

\*BT1 radioprotective substances

\*BT1 thiols

**PENICILLIN**

\*BT1 antibiotics

**PENICILLIUM**

\*BT1 eumycota

**PENLY-1 REACTOR**

INIS: 1984-07-23; ETDE: 1984-09-05

Electricite de France, Saint-Martin-en-Campagne / Penly, Seine-Maritime, France

\*BT1 pwr type reactors

**PENLY-2 REACTOR**

2010-08-17

Electricite de France, Saint-Martin-en-Campagne / Penly, Seine-Maritime, France

\*BT1 pwr type reactors

**PENLY-3 REACTOR**

2010-08-17

European Pressurised Reactor - EPR, Electricite de France, Saint-Martin-en-Campagne / Penly, Seine-Maritime, France; construction of Penly-3 will start in 2012.

\*BT1 pwr type reactors

**penn state breazeale nuclear reactor**

2010-10-14

Pennsylvania State Univ., University Park, Pennsylvania, USA.

USE psbr reactor

**PENNING DISCHARGES**

UF pig discharges

BT1 electric discharges

RT penning ion sources

RT sputter-ion pumps

**PENNING EFFECT**

RT ionization

**penning gages**

USE philips gages

**PENNING ION SOURCES**

UF pig ion sources

\*BT1 plasma ion sources

RT penning discharges

**PENNSYLVANIA**

\*BT1 usa

NT1 pittsburgh

RT allegheny river

RT bettis

RT delaware river

RT monongahela river basin

RT ohio river

RT potomac river basin

RT susquehanna river

**pennsylvania state triga reactor**

INIS: 1993-11-09; ETDE: 2002-04-26

USE psbr reactor

**pennsylvania state university****research reactor**

1993-11-09

USE psbr reactor

**pennsylvanian period**

INIS: 1992-05-22; ETDE: 1977-10-19

(Prior to April 1990 this was a valid ETDE descriptor.)

USE carboniferous period

**penrose twistor theory**

INIS: 2000-04-12; ETDE: 1975-08-19

USE twistor theory

**PENSTOCKS**

INIS: 1992-10-01; ETDE: 1976-03-11

\*BT1 pipes

RT flow regulators

RT hydraulic turbines

RT hydraulics

RT hydroelectric power plants

**PENTACENE**

INIS: 2000-04-12; ETDE: 1985-09-23

UF 2,3,4,7-dibenzoanthracene

\*BT1 polycyclic aromatic hydrocarbons

**pentacyn**

INIS: 2000-04-12; ETDE: 1978-04-06

(Prior to January 1995, this was a valid ETDE descriptor.)

USE radioprotective substances

**PENTADIENES**

2000-05-04

\*BT1 dienes

**pentaerythritol tetranitrate**

USE petn

**PENTAGONAL LATTICES**

2002-09-23

\*BT1 three-dimensional lattices

**PENTAGONAL SYSTEMS**

2015-06-22

\*BT1 two-dimensional systems

**pentamethylenediamine**

USE cadaverine

**pentamethyleneimines**

USE piperidines

**PENTANE**

\*BT1 alkanes

**pentanedione (2,3)**

ETDE: 2002-04-26

USE 2-3-pentanedione

**pentanoic acid**

USE valeric acid

**PENTANOLS**

UF amyl alcohols

UF pentyl alcohols

\*BT1 alcohols

**PENTENES**

\*BT1 alkenes

**pentobarbital**

ETDE: 1981-04-20

(Prior to October 1982, this was a valid ETDE descriptor.)

USE nembutal

**PENTOSE**

\*BT1 monosaccharides

NT1 arabinose

NT1 deoxyribose

NT1 ribose

NT1 ribulose

NT1 xylose

RT ribosides

**PENTOSYL TRANSFERASES**

INIS: 2000-04-12; ETDE: 1981-06-13

Code number 2.4.2.

\*BT1 glycosyl transferases

NT1 hypoxanthine phosphoribosyltransferase

**pentothal**

1996-10-23

(Prior to March 1997 THIOFENTAL was used for this concept in ETDE.)

USE barbiturates

USE organic sulfur compounds

**pentyl alcohols**

USE pentanols

**PENTYL RADICALS**

UF amyl radicals

\*BT1 alkyl radicals

**people**

INIS: 2000-04-12; ETDE: 1981-06-16

USE human populations

**peoples democratic republic of yemen**

INIS: 2000-04-12; ETDE: 1980-08-12

(Prior to November 1991 this was a valid ETDE descriptor.)

USE yemen

**peoples republic of china**

INIS: 2000-04-12; ETDE: 1977-11-09

USE china

**peos**

INIS: 1986-01-21; ETDE: 2002-04-26

Plasma Erosion Opening Switches.

USE plasma switches

**pep**

INIS: 2000-04-12; ETDE: 1984-10-10

USE phosphoenolpyruvate

**PEP STORAGE RINGS**

UF positron-electron-proton storage ring

BT1 storage rings

NT1 epic storage ring

**PEPPERS**

Fruit of Capsicum plant.

UF paprika

UF red peppers

\*BT1 vegetables

RT capsicum

RT spices

**pepr devices**

USE cathode ray tube digitizers

**PEPSIN**

Code numbers 3.4.23.1, 3.4.23.2, and 3.4.23.3.

\*BT1 acid proteinases

RT digestion

RT stomach

**PEPTIDE HORMONES**

1995-07-03

BT1 hormones

\*BT1 proteins

NT1 calcitonin

NT1 erythropoietin

NT1 gastrin

NT1 glucagon

NT1 insulin

NT1 leptin

NT1 parathormone

NT1 pituitary hormones

NT2 acth

NT2 gonadotropins

NT3 fsh

NT3 hcg

NT3 lth

NT3 luteinizing hormone

NT2 liberins

NT3 lh-rh

NT2 oxytocin

NT2 sth

NT2 tsh

NT2 vasopressin

NT1 secretin

NT1 thyroid hormones

NT2 diiodothyronine

NT2 thyrocalcitonin

NT2 thyroxine

NT2 triiodothyronine

NT1 thyronine

NT1 trh

RT growth factors

RT lactogens

**PEPTIDE HYDROLASES**

Code number 3.4.

\*BT1 hydrolases

NT1 acid proteinases

NT2 pepsin

NT1 aminopeptidases

NT1 carboxypeptidases

NT1 nonspecific peptidases

NT2 renin

NT2 urokinase

NT1 serine proteinases

NT2 chymotrypsin

NT2 fibrinolysin

NT2 kallikrein

NT2 thrombin

NT2 trypsin

NT1 sh-proteinases

NT2 cathepsins

NT2 papain

NT2 streptococcal proteinase

RT proteolysis

**PEPTIDES**

\*BT1 proteins

NT1 cyclosporine

NT1 glycylglycine

NT1 polypeptides

NT2 calcitonin

NT2 endorphins

NT3 enkephalins

NT2 endothelins

NT2 gastrin

NT2 glucagon  
 NT2 glutathione  
 NT2 kinins  
 NT3 bradykinin  
 NT2 leptin  
 RT pyrogens

**PEPTONE**

\*BT1 proteins

**per (paraelectric resonance)**

USE paraelectric resonance

**PER CAPITA VALUES**

INIS: 2000-04-12; ETDE: 1981-12-21

RT economic analysis  
 RT energy consumption

**peratization procedure**

1996-07-18

(Prior to March 1997 FEINBERG-PAIS THEORY was used for this concept in ETDE.)

SEE leptons  
 SEE weak interactions

**PERBROMATES**

ETDE: 1975-09-11

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 bromine compounds  
 BT1 oxygen compounds

**PERCHLORATES**

1997-06-19

\*BT1 chlorine compounds  
 BT1 oxygen compounds  
 NT1 aluminium perchlorates  
 NT1 americium perchlorates  
 NT1 ammonium perchlorates  
 NT1 barium perchlorates  
 NT1 cadmium perchlorates  
 NT1 calcium perchlorates  
 NT1 cerium perchlorates  
 NT1 cesium perchlorates  
 NT1 chromium perchlorates  
 NT1 cobalt perchlorates  
 NT1 copper perchlorates  
 NT1 dysprosium perchlorates  
 NT1 erbium perchlorates  
 NT1 europium perchlorates  
 NT1 gadolinium perchlorates  
 NT1 hafnium perchlorates  
 NT1 holmium perchlorates  
 NT1 indium perchlorates  
 NT1 iron perchlorates  
 NT1 lanthanum perchlorates  
 NT1 lead perchlorates  
 NT1 lithium perchlorates  
 NT1 lutetium perchlorates  
 NT1 magnesium perchlorates  
 NT1 manganese perchlorates  
 NT1 mercury perchlorates  
 NT1 neodymium perchlorates  
 NT1 neptunium perchlorates  
 NT1 plutonium perchlorates  
 NT1 potassium perchlorates  
 NT1 praseodymium perchlorates  
 NT1 rubidium perchlorates  
 NT1 samarium perchlorates  
 NT1 scandium perchlorates  
 NT1 silver perchlorates  
 NT1 sodium perchlorates  
 NT1 strontium perchlorates  
 NT1 terbium perchlorates  
 NT1 thallium perchlorates  
 NT1 thorium perchlorates  
 NT1 thulium perchlorates  
 NT1 uranium perchlorates

NT1 uranyl perchlorates  
 NT1 ytterbium perchlorates  
 NT1 yttrium perchlorates  
 NT1 zinc perchlorates  
 NT1 zirconium perchlorates  
 RT perchloric acid

**PERCHLORIC ACID**

\*BT1 chlorine compounds  
 \*BT1 inorganic acids  
 BT1 oxygen compounds  
 RT perchlorates

**PERCUS-YEVICK EQUATION**

BT1 equations  
 RT many-body problem

**PERCUSSIVE DRILLS**

INIS: 2000-04-12; ETDE: 1979-09-27

\*BT1 drills  
 RT drill bits

**PEREY-BUCK MODEL**

UF *perey-wilkins model*  
 \*BT1 nuclear models  
 RT nonlocal potential  
 RT optical models

**perey-wilkins model**

USE perey-buck model

**perfect flow**

INIS: 1992-03-21; ETDE: 1992-05-22

SEE incompressible flow  
 SEE steady flow

**perforated pipe distributors**

INIS: 2000-04-12; ETDE: 1979-09-06

USE spargers

**PERFORATION**

INIS: 1999-01-22; ETDE: 1981-05-18

RT natural gas wells  
 RT well completion  
 RT wells

**PERFORMANCE**

1997-06-17

UF *figure of merit*  
 RT coefficient of performance  
 RT cost effectiveness analysis  
 RT efficiency  
 RT errors  
 RT f-chart  
 RT feasibility studies  
 RT heat rate  
 RT performance testing  
 RT productivity  
 RT reliability  
 RT resolution  
 RT spectral response  
 RT uses

**PERFORMANCE TESTING**

BT1 testing  
 RT bioassay  
 RT certification  
 RT federal test procedure  
 RT inspection  
 RT performance  
 RT post-irradiation examination  
 RT quality control

**PERFUSED ORGANS**

\*BT1 organs  
 RT perfused tissues

**PERFUSED TISSUES**

INIS: 1975-10-29; ETDE: 1975-12-16

\*BT1 animal tissues  
 RT perfused organs

**perhydroxyl radical**

2000-04-12

HO(sub 2).

USE hydroperoxy radicals

**PERICARDIUM**

INIS: 1980-09-12; ETDE: 1979-07-18

\*BT1 heart  
 \*BT1 serous membranes

**PERIDOTITES**

1983-09-01

\*BT1 plutonic rocks  
 NT1 kimberlites  
 RT hornblende  
 RT olivine  
 RT silicate minerals

**PERINATAL IRRADIATION**

*A combination of prenatal and postnatal irradiation.*

BT1 irradiation  
 RT prenatal irradiation

**period (reactor)**

USE reactor period

**PERIODATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 iodine compounds  
 BT1 oxygen compounds  
 RT periodic acid

**PERIODIC ACID**

\*BT1 inorganic acids  
 \*BT1 iodine compounds  
 BT1 oxygen compounds  
 RT periodates

**periodic functions**

2002-09-12

USE functions  
 USE periodicity

**periodic potentials**

2002-09-12

USE periodicity  
 USE potentials

**PERIODIC SYSTEM**

UF *mendeleev periodic system*  
 RT atomic number  
 RT elements

**PERIODICITY**

UF *periodic functions*  
 UF *periodic potentials*  
 BT1 variations  
 RT functional analysis  
 RT group theory  
 RT measure theory  
 RT modulation  
 RT oscillations  
 RT pulsations  
 RT set theory  
 RT topology

**periosteum**

USE bone tissues

**PERIPHERAL COLLISIONS**

\*BT1 strong interactions  
 RT impact parameter

**PERIPHERAL MODELS**

UF *exchange models*  
 \*BT1 particle models  
 NT1 baryon-exchange models  
 NT1 boson-exchange models



- NT2 obe model  
 NT3 ope model  
 NT4 electric born model  
 NT2 sigma model  
 NT1 multiperipheral model  
 NT2 cluster emission model  
 NT3 space-time model

**periphyton**

INIS: 1993-07-12; ETDE: 1977-04-12

USE aufwuchs

**PERISCOPES**

- BT1 optical systems  
 RT hot cells  
 RT hot labs  
 RT remote handling

**PERITONEUM**

- \*BT1 serous membranes  
 RT abdomen  
 RT ascites  
 RT gastrointestinal tract  
 RT intraperitoneal injection  
 RT liver  
 RT mesentery  
 RT peritonitis  
 RT spleen

**PERITONITIS**

- \*BT1 digestive system diseases  
 RT peritoneum  
 RT symptoms

**PERKINS-1 REACTOR**

Duke Power Co., Mocksville, North Carolina, USA. Canceled in 1982 before construction began.

- \*BT1 pwr type reactors

**PERKINS-2 REACTOR**

Duke Power Co., Mocksville, North Carolina, USA. Canceled in 1982 before construction began.

- \*BT1 pwr type reactors

**PERKINS-3 REACTOR**

Duke Power Co., Mocksville, North Carolina, USA. Canceled in 1982 before construction began.

- \*BT1 pwr type reactors

**PERLITE**

INIS: 1999-03-05; ETDE: 1976-05-13

Volcanic glass that has a concentric shelly structure, appears as if composed of concretions, is usually grayish and sometime spherulitic, and when expanded by heat forms a lightweight aggregate used especially in concrete and plaster.

- \*BT1 volcanic rocks  
 RT glass  
 RT rhyolites  
 RT trachytes

**perlite (iron-carbon alloy)**

INIS: 1978-11-24; ETDE: 2001-01-23

USE pearlite

**PERMAFROST**

INIS: 1992-07-21; ETDE: 1976-01-23

Permanently frozen ground, occurring wherever the temperature remains below freezing for several years.

- RT alaska oil pipeline  
 RT alaskan north slope  
 RT arctic regions  
 RT soils

**PERMALLOY**

1996-11-13

UF alloy-ni80fe16mo4

UF permalloy c

\*BT1 iron alloys

\*BT1 nickel alloys

**permalloy c**

INIS: 1996-11-13; ETDE: 2002-04-26

USE nickel base alloys  
 USE permalloy

**PERMANENT MAGNETS**

\*BT1 magnets  
 RT magnetic properties

**PERMANGANATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

UF potassium permanganates

\*BT1 manganese compounds

BT1 oxygen compounds  
 RT manganese oxides

**PERMEABILITY**

UF collector properties  
 UF collector properties (rocks)  
 UF tight sands  
 BT1 physical properties  
 RT dialysis  
 RT membranes  
 RT osmosis  
 RT plugging  
 RT porosity

**permeability (magnetic)**

USE magnetic susceptibility

**permeability coefficient (fluid mechanics)**

INIS: 1993-11-09; ETDE: 1983-07-20

USE hydraulic conductivity

**permeability damage**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**permeability reduction**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**PERMENDUR**

1993-10-03

\*BT1 alloy-co50fe50

**PERMIAN BASIN**

INIS: 2000-04-12; ETDE: 1984-02-10

That portion of western Texas, eastern New Mexico, western Oklahoma, southwestern Kansas, and southeastern Colorado that is underlain by bedded salt deposits of Permian age.

NT1 dalhart basin  
 NT1 palo duro basin  
 RT colorado  
 RT kansas  
 RT new mexico  
 RT oklahoma  
 RT radioactive waste disposal  
 RT texas

**PERMIAN PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

UF rotliegende epoch  
 SF appalachian orogeny  
 \*BT1 paleozoic era

**permit applications**

INIS: 1996-02-12; ETDE: 1980-07-09

(Prior to February 1996 this was a valid ETDE descriptor.)

USE license applications

**permits**

INIS: 1984-04-04; ETDE: 1979-12-10

(Prior to February 1996 this was a valid ETDE descriptor.)

USE licenses

**PERMITTIVITY**

UF dielectric constant  
 \*BT1 dielectric properties

**permutit (inorganic)**

USE inorganic ion exchangers

**permutit (organic)**

USE organic ion exchangers

**pernicious anemia**

USE anemias

**PEROVSKITE**

CaTiO/sub 3/.

\*BT1 oxide minerals  
 \*BT1 perovskites  
 RT calcium oxides  
 RT kimberlites  
 RT synroc process  
 RT titanium oxides

**perovskite crystal structure**

INIS: 1984-04-25; ETDE: 1984-05-23

USE cubic lattices

**PEROVSKITES**

INIS: 1994-07-14; ETDE: 1976-09-28

Minerals with a close-packed lattice and the general formula ABX/sub 3/ where A and B are metals and X is a nonmetal, usually O.

BT1 minerals  
 NT1 perovskite  
 RT ferrimagnetic materials  
 RT oxide minerals  
 RT sodium tungsten bronze

**PEROX PROCESS**

2000-04-12

Method for removal of hydrogen sulfide from waste gases.

\*BT1 desulfurization  
 RT waste processing

**PEROXIDASES**

Code number 1.11.

\*BT1 oxidoreductases  
 NT1 catalase  
 RT porphyrins

**PEROXIDES**

1996-11-13

BT1 oxygen compounds  
 NT1 benzoyl peroxide  
 NT1 hydrogen peroxide  
 NT1 plutonium peroxide  
 NT1 uranium peroxide  
 RT peroxyacetyl nitrate

**PEROXY RADICALS**

BT1 radicals

**PEROXYACETYL NITRATE**

INIS: 2000-04-12; ETDE: 1976-08-24

\*BT1 nitrates  
 \*BT1 nitric acid esters  
 RT peroxides

**PERRHENATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 oxygen compounds  
 \*BT1 rhenium compounds  
 RT rhenium oxides

**PERRY-1 REACTOR**

FirstEnergy Nuclear Operating Co., North Perry, Ohio, USA.

\*BT1 bwr type reactors

**PERRY-2 REACTOR**

Cleveland Electric Illuminating Co., North Perry, Ohio, USA. Canceled in 1994 after construction began (1974).

\*BT1 bwr type reactors

**PERRYMAN-1 REACTOR**

INIS: 1978-01-16; ETDE: 1977-09-19

Baltimore Gas and Electric Co., Perryman, Maryland, USA. Canceled in 1972 before construction began.

\*BT1 enriched uranium reactors

\*BT1 power reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**PERRYMAN-2 REACTOR**

INIS: 1978-01-16; ETDE: 1977-09-19

Baltimore Gas and Electric Co., Perryman, Maryland, USA. Canceled in 1972 before construction began.

\*BT1 enriched uranium reactors

\*BT1 power reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**PERSIAN GULF**

1992-06-04

\*BT1 arabian sea

NT1 strait of hormuz

**PERSONAL COMPUTERS**

INIS: 1994-06-27; ETDE: 1985-04-09

(Until June 1994 this concept was indexed to MICROCOMPUTERS.)

\*BT1 microcomputers

RT data processing

**PERSONNEL**

1996-05-14

Studies of groups of persons employed in a particular field of endeavor. For studies on individuals in a group see also MAN.

UF clerical personnel

UF employees

UF workers

SF labor

SF professional personnel

SF senior executive service

NT1 architects

NT1 astronauts

NT1 aviation personnel

NT1 builders

NT1 consultants

NT1 contractor personnel

NT1 craftsmen

NT1 dial painters

NT1 engineers

NT1 medical personnel

NT2 radiological personnel

NT1 military personnel

NT1 miners

NT2 coal miners

NT1 motor vehicle operators

NT1 public officials

NT2 state officials

NT1 reactor operators

NT1 scientific personnel

NT1 security personnel

RT alternative work schedules

RT human factors

RT human factors engineering

RT human populations

RT industrial medicine

RT labor relations

RT man

RT man-machine systems

RT management

RT manpower

RT medical surveillance

RT occupational safety

RT occupations

RT personnel dosimetry

RT personnel monitoring

RT safety

RT security violations

RT wages

RT work

RT working days

**PERSONNEL DOSIMETRY**

UF personnel film dosimetry

BT1 dosimetry

RT bubble dosimeters

RT external irradiation

RT occupations

RT personnel

RT personnel monitoring

RT thermoluminescent dosimetry

**personnel film dosimetry**

USE personnel dosimetry

**PERSONNEL MANAGEMENT**

INIS: 1992-08-12; ETDE: 1983-03-23

UF accountability (personnel)

SF accountability

SF nepotism

SF sick leave

BT1 management

**PERSONNEL MONITORING**

To include medical surveillance of early and late radiation effects.

UF excretion analysis

\*BT1 radiation monitoring

RT albedo-neutron dosimeters

RT ambient dose equivalents

RT effective radiation doses

RT medical surveillance

RT personnel

RT personnel dosimetry

RT radiation doses

RT radioactivity

RT radionuclide kinetics

RT whole-body counting

**PERSPEX**

\*BT1 plastics

\*BT1 polyacrylates

**PERSULFATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 oxygen compounds

BT1 sulfur compounds

RT persulfuric acid

**PERSULFURIC ACID**

BT1 oxygen compounds

BT1 sulfur compounds

RT persulfates

RT sulfuric acid

**PERT METHOD**

Program Evaluation and Review Technique.

UF cpm

UF critical path method

RT planning

RT schedules

**PERTECHNETATES**

Specific compounds should be indexed by coordination of a descriptor of the form

(CATION) COMPOUNDS and the above anion descriptor.

BT1 oxygen compounds

\*BT1 technetium compounds

RT technetium oxides

**PERTURBATION THEORY**

1996-07-08

(Prior to August 1996 RITCHIE-ELDRIDGE THEORY was a valid ETDE descriptor.)

UF reductive perturbation method

SF ritchie-eldridge theory

NT1 hsk procedure

RT adjoint flux

RT born approximation

RT brinkman-kramers approximation

RT mathematics

RT neutron importance function

RT neutron transport theory

RT p1-approximation

RT p2-approximation

RT p3-approximation

RT quantum mechanics

RT quasilinear problems

RT rayleigh-schrodinger formula

RT reactor kinetics

RT scattering

**perturbations**

USE disturbances

**PERTURBED ANGULAR CORRELATION**

\*BT1 angular correlation

NT1 differential pac

NT1 integral pac

RT nuclear electric moments

RT nuclear magnetic moments

**perturbed angular correlation (differential)**

INIS: 1993-11-09; ETDE: 2002-04-26

USE differential pac

**perturbed angular correlation (integral)**

INIS: 1993-11-09; ETDE: 2002-04-26

USE integral pac

**perturbed stationary states method**

USE pss method

**PERU**

BT1 developing countries

\*BT1 south america

RT amazon river

RT andes

**PERYLENE**

\*BT1 polycyclic aromatic hydrocarbons

**PEST CONTROL**

1999-05-12

BT1 control

NT1 genetic control

NT1 pest eradication

RT agriculture

RT chemical attractants

RT insects

RT mites

RT parasites

RT pesticides

RT phosphines

RT quarantine

RT rodents

RT sterile insect release

RT sterile male technique

**PEST ERADICATION**

INIS: 1975-09-01; ETDE: 1975-10-01

\*BT1 pest control

RT insects  
RT parasites

**PESTICIDES**

NT1 algicides  
NT1 fumigants  
NT1 fungicides  
NT2 cycloheximide  
NT1 herbicides  
NT2 atrazine  
NT1 insecticides  
NT2 aldrin  
NT2 ddt  
NT2 dieldrin  
NT2 kepone  
NT2 lindane  
NT2 malathion  
NT2 parathion

RT agriculture  
RT disinfectants  
RT disinfestation  
RT ecosystems  
RT grain disinfestation  
RT mutagens  
RT parasites  
RT pest control  
RT phosphines  
RT pollutants  
RT pollution

**pet scanning**

INIS: 1991-09-16; ETDE: 2001-01-23  
USE positron computed tomography

**PETA BQ RANGE**

2012-05-31  
BT1 radioactivity range

**PETALITE**

INIS: 2000-04-12; ETDE: 1983-01-21  
A lithium aluminium silicate of unit formula occurring in pegmatites.  
\*BT1 silicate minerals  
RT aluminium silicates  
RT lithium silicates

**petawatt lasers**

INIS: 2003-08-15; ETDE: 2002-10-02  
USE lasers  
USE petawatt power range

**PETAWATT POWER RANGE**

INIS: 2003-08-15; ETDE: 2002-09-17  
From 10 exp 15 to 10 exp 18 W.  
UF petawatt lasers  
BT1 power range  
NT1 power range 01-10 pw  
NT1 power range 10-100 pw  
NT1 power range 100-1000 pw

**petersburg nuclear physics institute**

2016-07-28  
USE st petersburg institute of nuclear physics

**PETHIDINE**

UF demerol  
UF dolantal  
UF meperidine  
\*BT1 analgesics  
\*BT1 aromatics  
\*BT1 monocarboxylic acids  
\*BT1 narcotics  
\*BT1 piperidines

**petit process**

2000-04-12  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE desulfurization

**PETN**

UF pentaerythritol tetranitrate  
\*BT1 chemical explosives  
\*BT1 nitrates  
\*BT1 nitric acid esters

**PETRA STORAGE RING**

INIS: 1976-07-16; ETDE: 1976-09-15  
Positron-Elektron-Tandem-Ringbeschleuniger Anlage.  
BT1 storage rings

**petrochemical feedstocks**

INIS: 2000-04-12; ETDE: 1979-03-27  
USE chemical feedstocks  
USE petrochemicals

**PETROCHEMICAL PLANTS**

INIS: 1992-03-17; ETDE: 1977-08-24  
\*BT1 chemical plants  
RT petrochemicals  
RT petroleum refineries

**PETROCHEMICALS**

1999-03-15  
UF petrochemical feedstocks  
SF chemicals  
SF coal chemicals  
BT1 petroleum products  
NT1 plastics  
NT2 aramids  
NT2 bakelite  
NT2 formvar  
NT2 lucite  
NT2 mylar  
NT2 nylon  
NT2 perspex  
NT2 plexiglas  
NT2 polystyrene  
NT2 polyurethanes  
NT3 halthane  
NT2 reinforced plastics  
NT2 tedlar  
NT2 teflon  
NT2 thermoplastics  
NT1 resins  
RT chemical feedstocks  
RT chemical plants  
RT petrochemical plants  
RT synthetic materials

**PETROCHEMISTRY**

BT1 chemistry  
RT cracking  
RT mineralogy  
RT natural gas  
RT petroleum  
RT petroleum products

**PETROGENESIS**

A branch of petrology that deals with the origin and formation of rocks, esp. igneous rocks.

(From August 1981 till March 1997 PARAGENESIS was a valid ETDE descriptor.)

SF paragenesis  
\*BT1 petrology  
RT diagenesis  
RT origin  
RT orogenesis  
RT rocks  
RT tectonics

**PETROGRAPHY**

INIS: 1993-03-23; ETDE: 1976-12-15  
BT1 geology  
RT petrology

**PETROLEUM**

Limited to crude oil; see also COAL LIQUIDS, SHALE OIL, etc.

UF crude oil  
UF heavy oils  
SF mineral oil  
SF petroleum marketing practices act  
\*BT1 fossil fuels  
NT1 petroleum fractions  
NT2 petroleum distillates  
NT3 gas oils  
NT4 diesel fuels  
NT4 fuel oils  
NT5 heating oils  
NT5 residual fuels  
NT4 kerosene  
NT2 petroleum residues  
NT2 refinery gases  
NT1 residual petroleum  
NT1 shale oil  
NT2 shale oil fractions  
NT1 sour crudes  
RT alaska oil pipeline  
RT deregulation  
RT distillation  
RT energy conservation and production act  
RT floating roof tanks  
RT fluidized bed hydrogenation process  
RT gas injection  
RT gas lifts  
RT gas recycle hydrogenation process  
RT hydraulic equipment  
RT hydrocarbons  
RT lightering  
RT maturation  
RT microemulsion flooding  
RT miscible-phase displacement  
RT oapc  
RT oil spills  
RT oil wells  
RT oil yields  
RT oils  
RT opec  
RT pad districts  
RT petrochemistry  
RT petroleum deposits  
RT petroleum industry  
RT petroleum refineries  
RT primary recovery  
RT road oils  
RT shell gasification process  
RT sng processes  
RT strategic petroleum reserve  
RT synthetic petroleum  
RT tanker ships  
RT waterflooding

**petroleum administration for defense districts**

INIS: 2000-04-12; ETDE: 1979-09-27  
USE pad districts

**petroleum coke**

INIS: 1991-10-07; ETDE: 1979-05-03  
USE coke  
USE petroleum products

**petroleum cooperatives**

INIS: 2000-04-12; ETDE: 1993-07-09  
USE cooperatives  
USE petroleum industry

**PETROLEUM DEPOSITS**

1991-08-14  
BT1 geologic deposits  
\*BT1 mineral resources  
NT1 gas condensate fields  
NT1 oil fields

**NT2** weyburn field

**NT1** us naval petroleum reserves

*RT* acidization

*RT* anticlines

*RT* associated gas

*RT* geologic traps

*RT* geophysical surveys

*RT* petroleum

*RT* petroleum geology

*RT* powder river basin

*RT* reserves

*RT* seeps

*RT* well logging equipment

*RT* western us overthrust belt

*RT* williston basin

## PETROLEUM DISTILLATES

*INIS: 1992-04-01; ETDE: 1976-05-19*

*Boiling point range 0-600 degrees c.*

*UF* middle distillates

**BT1** distillates

\***BT1** petroleum fractions

**NT1** gas oils

**NT2** diesel fuels

**NT2** fuel oils

**NT3** heating oils

**NT3** residual fuels

**NT2** kerosene

*RT* petroleum products

*RT* road oils

## petroleum ether

*INIS: 2000-04-12; ETDE: 1975-12-16*

USE ligroin

## PETROLEUM FRACTIONS

*INIS: 1992-04-01; ETDE: 1977-09-19*

*Hydrocarbon mixtures occurring in petroleum that can be characterized by specific physical properties such as boiling range, density and viscosity.*

\***BT1** petroleum

**NT1** petroleum distillates

**NT2** gas oils

**NT3** diesel fuels

**NT3** fuel oils

**NT4** heating oils

**NT4** residual fuels

**NT3** kerosene

**NT1** petroleum residues

**NT1** refinery gases

*RT* petroleum products

## PETROLEUM GEOLOGY

*INIS: 1992-05-04; ETDE: 1979-03-28*

**BT1** geology

*RT* exploration

*RT* natural gas deposits

*RT* petroleum deposits

## PETROLEUM INDUSTRY

1995-04-06

*UF* petroleum cooperatives

**BT1** industry

**NT1** lpg industry

*RT* horizontal divestiture

*RT* horizontal integration

*RT* mineral industry

*RT* petroleum

*RT* petroleum products

*RT* petroleum refineries

*RT* resource exploitation

*RT* vertical divestiture

*RT* vertical integration

*RT* windfall profits tax

## petroleum marketing practices act

*INIS: 2000-04-12; ETDE: 1979-12-10*

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE laws

SEE marketing

SEE petroleum

## PETROLEUM PRODUCTS

*UF* finished oils

*UF* petroleum coke

**NT1** gas oils

**NT2** diesel fuels

**NT2** fuel oils

**NT3** heating oils

**NT3** residual fuels

**NT2** kerosene

**NT1** gasoline

**NT2** unleaded gasoline

**NT1** ligroin

**NT1** liquefied petroleum gases

**NT1** lubricating oils

**NT1** petrochemicals

**NT2** plastics

**NT3** aramids

**NT3** bakelite

**NT3** formvar

**NT3** lucite

**NT3** mylar

**NT3** nylon

**NT3** perspex

**NT3** plexiglas

**NT3** polystyrene

**NT3** polyurethanes

**NT4** halthane

**NT3** reinforced plastics

**NT3** tedlar

**NT3** teflon

**NT3** thermoplastics

**NT2** resins

**NT1** refinery gases

**NT1** unfinished oils

*RT* naphtha

*RT* oils

*RT* petrochemistry

*RT* petroleum distillates

*RT* petroleum fractions

*RT* petroleum industry

*RT* petroleum refineries

*RT* refining

*RT* sng processes

## PETROLEUM REFINERIES

*UF* bom refining districts

**BT1** industrial plants

*RT* activated sludge process

*RT* distillation

*RT* distillation equipment

*RT* entitlements program

*RT* petrochemical plants

*RT* petroleum

*RT* petroleum industry

*RT* petroleum products

*RT* refinery gases

*RT* waste oil refineries

## PETROLEUM RESIDUES

1992-04-01

*Boiling point over 593 degrees c; includes oil residues, residua.*

*UF* liquid asphalt

*UF* oil residues

*UF* resid

*UF* residual oils

\***BT1** petroleum fractions

*RT* residual fuels

*RT* road oils

## petroleum stocks

*INIS: 2000-04-12; ETDE: 1975-12-16*

USE inventories

## PETROLEUM SULFONATES

*INIS: 2000-04-12; ETDE: 1976-08-04*

*Mixtures of many surfactant compounds of the alkylaryl sulfonate type.*

\***BT1** sulfonates

\***BT1** sulfonic acid esters

## PETROLOGY

2000-01-21

*That branch of geology dealing with the origin, occurrence, structure, and history of rocks, esp. igneous and metamorphic rocks.*

**BT1** geology

**NT1** lithology

**NT1** petrogenesis

*RT* coalification

*RT* lithotypes

*RT* macerals

*RT* petrography

*RT* rocks

## PETROSIX PROCESS

2000-04-12

*Process developed by Petrobras, Brazilian National Oil Company that is capable of handling oil shale fines; similar to gas combustion process except that an outside furnace is used for heating of recycle gas.*

*RT* oil shales

## petrov-galerkin method

USE galerkin-petrov method

## pett

*INIS: 2000-04-12; ETDE: 1980-06-06*

*Positron Emission Transaxial Tomography.*

USE positron computed tomography

## petten high flux reactor

USE hfr reactor

## petten low flux reactor

USE lfr reactor

## petten stek reactor

USE stek reactor

## PETULA TOKAMAK

*INIS: 1975-11-11; ETDE: 1975-12-16*

\***BT1** tokamak devices

## PEV RANGE

*INIS: 1977-01-26; ETDE: 1976-08-24*

*From 10 exp 15 to 10 exp 18 eV.*

**BT1** energy range

## PEWEE-1 REACTOR

*LASL, Los Alamos, New Mexico, USA.*

\***BT1** hydrogen cooled reactors

\***BT1** space propulsion reactors

## PEWEE-2 REACTOR

*LASL, Los Alamos, New Mexico, USA.*

\***BT1** hydrogen cooled reactors

\***BT1** space propulsion reactors

## PEWEE-3 REACTOR

*LASL, Los Alamos, New Mexico, USA.*

\***BT1** hydrogen cooled reactors

\***BT1** space propulsion reactors

## PEWEE-4 REACTOR

*LASL, Los Alamos, New Mexico, USA.*

\***BT1** hydrogen cooled reactors

\***BT1** space propulsion reactors

## PF-1000 DEVICE

*INIS: 1999-07-26; ETDE: 1999-09-03*

*Plasma Focus Device, Andrzej Soltan Institute for Nuclear Studies, Poland.*

\***BT1** plasma focus devices

**PF-3 DEVICE**

2016-07-28

Plasma Focus Device, NRC Kurchatov  
Institute, Moscow, Russian Federation.

\*BT1 plasma focus devices

**PFIRSCH-SCHLUETER REGIME**

INIS: 1981-10-15; ETDE: 1979-01-30

The transport regime in a tokamak plasma  
characterized by the mean free path shorter  
than the connection length. In this regime, the  
diffusion coefficient is  $q/\text{sup } 2$  times the  
classical value, where  $q \geq 1$  is the safety  
factor.

RT collisional plasma

RT neoclassical transport theory

RT stellarators

RT tokamak devices

**PFR REACTOR**

Permanent shutdown since 1994.

UF downreay prototype fast reactor

UF prototype fast reactor downreay

\*BT1 lmfr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

RT enriched uranium reactors

RT plutonium reactors

**PH VALUE**

UF acidity

UF neutralization (chemical)

RT acid neutralizing capacity

RT acid soils

RT bases

RT buffers

RT inorganic acids

RT liming

RT nucleic acid denaturation

RT organic acids

RT protein denaturation

**ph'chromosome**

USE philadelphia chromosome

**PHAEDRUS MIRROR DEVICES**

INIS: 1989-02-24; ETDE: 1989-03-20

\*BT1 tandem mirrors

**PHAEDRUS-T TOKAMAK**

INIS: 1995-06-30; ETDE: 1995-07-03

Univ. of Wisconsin, Madison, Wisconsin, USA.

\*BT1 tokamak devices

**phages**

USE bacteriophages

**PHAGOCYTES**

\*BT1 somatic cells

NT1 macrophages

RT leukocytes

RT phagocytosis

**PHAGOCYTOSIS**

RT amoeba

RT cell constituents

RT excretion

RT immune reactions

RT intracellular digestion

RT macrophages

RT phagocytes

RT reticuloendothelial system

**PHANEROCHAETE**

INIS: 1991-12-16; ETDE: 1979-03-29

Ligninolytic fungus.

\*BT1 eumycota

**PHANTOMS**

\*BT1 mockup

RT biological models

RT depth dose distributions

RT functional models

RT isodose curves

RT radiotherapy

RT tissue-equivalent materials

**pharmaceuticals**

USE drugs

**PHARMACOLOGY**

RT antiandrogens

RT drugs

**pharmacotherapy**

USE chemotherapy

**PHARYNX**

UF nasopharynx

UF throat

UF tonsils

BT1 digestive system

\*BT1 organs

BT1 respiratory system

RT neck

RT oral cavity

**PHASE CHANGE MATERIALS**

INIS: 1992-02-18; ETDE: 1978-07-05

Materials that undergo a phase change, e.g.  
from solid to liquid, at a temperature desired  
for heat storage.

BT1 materials

RT eutectics

RT fusion heat

RT latent heat storage

RT phase transformations

RT transition heat

**PHASE DIAGRAMS**

UF state diagrams

\*BT1 diagrams

RT allotropy

RT alloy systems

RT critical temperature

RT eutectics

RT eutectoids

RT gases

RT glass

RT liquids

RT melting points

RT microstructure

RT monotectics

RT monotectoids

RT phase rule

RT phase studies

RT phase transformations

RT solid solutions

RT solids

RT thermal analysis

RT triple point

**phase factor**

INIS: 2000-06-27; ETDE: 1977-09-19

USE power factor

**PHASE OSCILLATIONS**

\*BT1 beam dynamics

BT1 oscillations

**PHASE RULE**

RT phase diagrams

**PHASE SHIFT**

RT aharonov-bohm effect

RT argand diagrams

RT partial waves

RT scattering

**PHASE SPACE**

\*BT1 mathematical space

RT attractors

RT dalitz plot

RT ergodic hypothesis

RT limit cycle

RT liouville theorem

RT mathematics

RT prism plot

**PHASE STABILITY**

BT1 stability

RT beam dynamics

**PHASE STUDIES**

RT phase diagrams

RT phase transformations

RT thermochemical diagrams

RT thermodynamic activity

**PHASE TRANSFORMATIONS**

UF transformations (phase)

UF transitions (phase)

NT1 boiling

NT2 film boiling

NT2 nucleate boiling

NT3 departure nucleate boiling

NT2 pool boiling

NT2 subcooled boiling

NT2 transition boiling

NT1 crystal-phase transformations

NT1 crystallization

NT1 evaporation

NT2 flashing

NT2 sublimation

NT2 vacuum evaporation

NT1 freezing

NT1 melting

NT2 electron beam melting

NT2 vacuum melting

NT2 zone melting

NT1 order-disorder transformations

NT1 solidification

NT1 thawing

RT allotropy

RT bifurcation

RT critical temperature

RT dew point

RT eutectics

RT eutectoids

RT glass

RT guinier-preston zones

RT habit planes

RT kosterlitz-thouless theory

RT microstructure

RT phase change materials

RT phase diagrams

RT phase studies

RT shape memory effect

RT supercritical state

RT thermal analysis

RT transition heat

RT transition temperature

RT triple point

RT widmanstaetten structure

**PHASE VELOCITY**

BT1 velocity

RT wave propagation

**PHASEOLUS**

UF bean plant

\*BT1 leguminosae

RT beans

RT mungbeans

RT phytohemagglutinin

**phasotrons**

USE synchrocyclotrons

**PHEBUS FACILITY**

INIS: 1992-08-18; ETDE: 1987-04-08

Neodymium glass laser facility at Limeil,  
France, for laser fusion experiments.

RT neodymium lasers

**PHEBUS REACTOR**

*INIS: 1990-05-17; ETDE: 1990-06-01*  
*Nuclear Protection and Safety Institute, CEA*  
*St. Paul lez Durance, France. Under*  
*decommissioning.*

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**phenacetin**

(Prior to April 1981, this concept in ETDE was indexed to ANALGESICS and ANTIPYRETICS.)  
 USE analgesics  
 USE antipyretics

**PHENANTHRENE**

- \*BT1 polycyclic aromatic hydrocarbons

**PHENANTHROLINE-ORTHO**

- \*BT1 phenanthrolines
- BT1 reagents
- RT ferroin

**PHENANTHROLINES**

- \*BT1 azaarenes
- NT1 ferroin
- NT1 phenanthroline-ortho

**PHENAZINE**

- \*BT1 pyrazines

**PHENETHYL RADICALS**

- \*BT1 aryl radicals

**PHENIX DETECTOR**

*2015-10-27*  
*UF phenix experiment*  
 \*BT1 radiation detectors  
 RT bnl  
 RT brookhaven rhic

**phenix experiment**

*2015-10-27*  
 USE phenix detector

**PHENIX REACTOR**

*Marcoule, Gard, France. Permanent*  
*shutdown since 2010.*  
*UF marcoule phenix reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 lmfr type reactors  
 \*BT1 plutonium reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors

**PHENOBARBITAL**

- UF luminal
- \*BT1 anticonvulsants
- \*BT1 barbiturates

**PHENOL**

- UF hydroxybenzene
- \*BT1 phenols

**PHENOLATES**

*INIS: 1979-12-20; ETDE: 1976-11-17*  
 RT phenols

**PHENOLOGY**

*INIS: 2000-04-12; ETDE: 1980-03-29*  
*A branch of science dealing with the relations*  
*between climate and periodic biological*  
*phenomena.*  
 RT climates

**PHENOLPHTHALEIN**

- \*BT1 carboxylic acid esters
- BT1 indicators
- \*BT1 phenols
- RT phthalic acid

**PHENOLS**

*1996-07-16*  
 (Prior to June 1996 BAMBP was a valid ETDE descriptor.)

- UF amidol
- UF bambp
- UF butyl-alpha-methylbenzylphenol
- \*BT1 aromatics
- \*BT1 hydroxy compounds
- NT1 cresols
- NT1 dinitrophenol
- NT1 eriochrome dyes
- NT1 hydroxypropiophenone
- NT1 naphthols
- NT2 1-nitroso-2-naphthol
- NT2 nitroso-r salt
- NT2 pyridylazonaphthol
- NT2 thorin
- NT2 trypan blue
- NT1 nitrophenol
- NT1 phenol
- NT1 phenolphthalein
- NT1 picric acid
- NT1 polyphenols
- NT2 arsenazo
- NT2 bromosulfophthalein
- NT2 catecholamines
- NT2 curcumin
- NT2 dopamine
- NT2 fluorescein
- NT3 erythrosine
- NT2 hematoxylin
- NT2 morin
- NT2 pyridylazoresorcinol
- NT2 pyrocatechol
- NT2 pyrogallol
- NT2 quercetin
- NT2 resorcinol
- NT2 stilbestrol
- NT2 tannic acid
- NT2 tiron
- NT1 thymol
- NT1 tyramine
- NT1 xlenols
- RT alkoxides
- RT bakelite
- RT dephenolization
- RT phenolates
- RT phenosolvan process

**PHENOSOLVAN PROCESS**

*INIS: 2000-04-12; ETDE: 1983-03-23*  
*Proprietary process for extracting phenols*  
*from gas liquids by counter current contact*  
*with isopropyl ether solvent.*  
 \*BT1 solvent extraction  
 RT phenols

**PHENOTHIAZINES**

- \*BT1 azines
- \*BT1 organic sulfur compounds
- NT1 chlorpromazine
- NT1 methylene blue
- RT thionine
- RT tranquilizers

**PHENOTYPE**

- RT genotype
- RT ontogenesis

**PHENOXY RADICALS**

- BT1 radicals

**PHENYL ETHER**

*2000-04-12*  
*UF dowtherm*  
 \*BT1 ethers

**phenyl methyl ether**

- USE anisole

**PHENYL RADICALS**

- \*BT1 aryl radicals

**phenylacetylene**

- USE tolan

**phenylacrylic acid-beta**

- USE cinnamic acid

**PHENYLALANINE**

- UF aminophenylacetic acid-alpha
- \*BT1 amino acids
- \*BT1 aromatics
- RT dopa
- RT tyrosine

**phenylamine**

- USE aniline

**phenylcarbinol**

*1982-02-10*  
 USE benzyl alcohol

**PHENYLENE RADICALS**

- BT1 radicals

**phenylethylene**

- USE styrene

**phenylhydroxylamine**

- USE cupferron

**phenylisopropylamine**

- USE benzedrine

**PEROMONE**

- BT1 chemical attractants
- BT1 secretion
- RT insects
- RT sex
- RT yeasts

**phi-1019 resonances**

*1987-12-21*  
 (Prior to December 1987 this was a valid descriptor.)  
 USE phi-1020 mesons

**PHI-1020 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-25*  
 (Prior to December 1987 this concept was indexed by PHI-1019 RESONANCES.)  
*UF phi-1019 resonances*  
 \*BT1 phi mesons  
 \*BT1 vector mesons

**PHI-1680 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
 \*BT1 phi mesons  
 \*BT1 vector mesons

**phi j-1850 mesons**

*INIS: 1995-08-07; ETDE: 1988-02-01*  
 (Until July 1995 this was a valid term.)  
 USE phi3-1850 mesons

**PHI MESONS**

*2007-03-02*  
 \*BT1 mesons  
 NT1 phi-1020 mesons  
 NT1 phi-1680 mesons  
 NT1 phi3-1850 mesons

**PHI3-1850 MESONS**

*1995-08-07*  
 (Until July 1995 this concept was indexed by PHI J-1850 MESONS.)  
*UF phi j-1850 mesons*  
 \*BT1 phi mesons  
 \*BT1 tensor mesons

**PHI4-FIELD THEORY**

INIS: 1978-02-23; ETDE: 1978-05-01

- \*BT1 quantum field theory
- RT boundary conditions
- RT haag theorem
- RT heisenberg model
- RT ising model
- RT locality
- RT radiative corrections

**PHILADELPHIA CHROMOSOME**

- UF *ph'chromosome*
- \*BT1 human chromosomes
- RT myeloid leukemia

**philadelphia electric power reactor-1**

1993-11-09

- USE limerick-1 reactor

**philadelphia electric power reactor-2**

1993-11-09

- USE limerick-2 reactor

**philco computers**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

- USE computers

**PHILIPPINE ATOMIC ENERGY COMMISSION**

INIS: 1977-09-06; ETDE: 1977-10-19

Philippine Atomic Energy Commission, abolished in 1988 and replaced by the Philippine Nuclear Research Institute.

UF *paec*

- \*BT1 philippine nuclear research institute

**PHILIPPINE ATOMIC RESEARCH CENTER**

INIS: 1995-02-16; ETDE: 1977-10-19

- \*BT1 philippine nuclear research institute

**philippine nucl res inst**

INIS: 1990-12-17; ETDE: 2002-04-26

(From June to December 1990, this was a valid descriptor.)

- USE philippine nuclear research institute

**philippine nuclear power plant-1**

INIS: 1993-11-09; ETDE: 1982-07-08

- USE pnp-1 reactor

**PHILIPPINE NUCLEAR RESEARCH INSTITUTE**

INIS: 1990-12-17; ETDE: 1990-10-09

Philippine Nuclear Research Institute, created in 1988 and replacing the Philippine Atomic Energy Commission.

UF *philippine nucl res inst*

- \*BT1 philippine organizations
- NT1 philippine atomic energy commission
- NT1 philippine atomic research center

**PHILIPPINE ORGANIZATIONS**

INIS: 1977-09-06; ETDE: 1977-06-02

- BT1 national organizations
- NT1 philippine nuclear research institute
- NT2 philippine atomic energy commission
- NT2 philippine atomic research center

**philippine research reactor-1**

- USE prr-1 reactor

**PHILIPPINES**

1997-06-19

- BT1 asia
- BT1 developing countries
- BT1 islands
- RT pacific ocean
- RT palimpinon geothermal field

RT tiwi geothermal field

RT tongonan geothermal field

**PHILIPPSBURG-1 REACTOR**

Philippsburg, Federal Republic of Germany.

Permanent shutdown since August 2011.

UF *kernkraftwerk philippsburg-1*

UF *kkp-1 philippsburg reactor*

- \*BT1 bwr type reactors

**PHILIPPSBURG-2 REACTOR**

UF *kernkraftwerk philippsburg-2*

UF *kkp-2 philippsburg reactor*

- \*BT1 pwr type reactors

**PHILIPS GAGES**

UF *penning gages*

\*BT1 ionization gages

RT sputter-ion pumps

**PHIPPS BEND-1 REACTOR**

INIS: 1978-01-16; ETDE: 1975-12-16

TVA, Surgoinsville, Tennessee, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors

RT ge standard reactor

**PHIPPS BEND-2 REACTOR**

INIS: 1978-01-16; ETDE: 1975-12-16

TVA, Surgoinsville, Tennessee, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors

RT ge standard reactor

**phloredzin**

1996-10-23

(Prior to March 1997 PHLORIZIN was used for this concept in ETDE.)

USE glycosides

USE ketones

**phlorhizin**

1996-10-23

(Prior to March 1997 PHLORIZIN was used for this concept in ETDE.)

USE glycosides

USE ketones

**phlorizin**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE glycosides

USE ketones

**PHOBOS DETECTOR**

2015-10-27

UF *phobos experiment*

\*BT1 radiation detectors

RT bnl

RT brookhaven rhic

**phobos experiment**

2015-10-27

USE phobos detector

**PHOEBUS-1A REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF *rocket reactor experiment phoebus-1a*

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**PHOEBUS-1B REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF *rocket reactor experiment phoebus-1b*

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**PHOEBUS-2A REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF *rocket reactor experiment phoebus-2a*

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**PHOENIX DEVICES**

\*BT1 magnetic mirrors

**PHONONS**

BT1 quasi particles

RT acoustic esr

RT acoustic nmr

RT electron-phonon coupling

RT landau liquid helium theory

RT photoacoustic effect

RT quasiparticle-phonon model

RT solitons

RT umklapp processes

**PHORBOL ESTERS**

INIS: 1981-12-23; ETDE: 1980-05-06

\*BT1 esters

RT carcinogens

**PHOSAM PROCESS**

INIS: 2000-04-12; ETDE: 1983-03-23

Absorber unit for recovering ammonia from the vapor phase with ammonium phosphate solution.

BT1 separation processes

RT ammonia

**PHOSGENE**

UF *carbon oxychloride*

UF *carbonyl chloride*

\*BT1 carbonic acid derivatives

\*BT1 organic chlorine compounds

**PHOSPHATASES**

Code number 3.1.3.

\*BT1 esterases

NT1 acid phosphatase

NT1 alkaline phosphatase

NT1 nucleotidases

RT itp

**PHOSPHATE GLASS**

2000-04-04

Glass with phosphorus pentoxide as a major component.

BT1 glass

RT borophosphate glass

RT rpl dosimeters

**PHOSPHATE MINERALS**

INIS: 1996-11-13; ETDE: 1982-05-12

UF *dumontite*

UF *florencite*

UF *lermontovite*

UF *parsonsite*

UF *phosphuranylite*

UF *steenstrupine*

UF *uranocircite*

BT1 minerals

NT1 apatites

NT1 autunite

NT1 monazites

NT1 ningyoite

NT1 saleeite

NT1 torbernite

NT1 xenotime

RT aluminium phosphates

RT barium phosphates

RT cerium phosphates

RT copper phosphates

RT lead phosphates

RT magnesium phosphates

RT phosphate rocks

RT phosphorites

RT uranium phosphates  
RT yttrium phosphates

**phosphate process**

INIS: 2000-04-12; ETDE: 1977-04-12

*Buffered aqueous absorption process using sodium phosphate solution to absorb sulfur dioxide from flue gas.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**PHOSPHATE ROCKS**

INIS: 1980-05-14; ETDE: 1976-10-13

\*BT1 sedimentary rocks

NT1 phosphorites  
RT calcium carbonates  
RT calcium phosphates  
RT phosphate minerals

**PHOSPHATES**

1997-06-17

*For salts only; see also PHOSPHORIC ACID ESTERS.*

UF acid phosphates

UF biphosphates

BT1 oxygen compounds  
BT1 phosphorus compounds  
NT1 aluminium phosphates  
NT1 americium phosphates  
NT1 ammonium phosphates  
NT1 barium phosphates  
NT1 berkelium phosphates  
NT1 beryllium phosphates  
NT1 bismuth phosphates  
NT1 boron phosphates  
NT1 cadmium phosphates  
NT1 calcium phosphates  
NT1 cerium phosphates  
NT1 cesium phosphates  
NT1 chromium phosphates  
NT1 cobalt phosphates  
NT1 copper phosphates  
NT1 dysprosium phosphates  
NT1 erbium phosphates  
NT1 europium phosphates  
NT1 gadolinium phosphates  
NT1 gallium phosphates  
NT1 germanium phosphates  
NT1 hafnium phosphates  
NT1 holmium phosphates  
NT1 hydrogen phosphates  
NT1 indium phosphates  
NT1 iron phosphates  
NT1 lanthanum phosphates  
NT1 lead phosphates  
NT1 lithium phosphates  
NT1 lutetium phosphates  
NT1 magnesium phosphates  
NT1 manganese phosphates  
NT1 molybdenum phosphates  
NT1 neodymium phosphates  
NT1 neptunium phosphates  
NT1 nickel phosphates  
NT1 niobium phosphates  
NT1 plutonium phosphates  
NT1 potassium phosphates  
NT1 praseodymium phosphates  
NT1 promethium phosphates  
NT1 protactinium phosphates  
NT1 rubidium phosphates  
NT1 samarium phosphates  
NT1 scandium phosphates  
NT1 silicon phosphates  
NT1 silver phosphates  
NT1 sodium phosphates  
NT1 strontium phosphates  
NT1 superphosphates  
NT1 tantalum phosphates  
NT1 technetium phosphates

NT1 terbium phosphates  
NT1 thallium phosphates  
NT1 thorium phosphates  
NT1 thulium phosphates  
NT1 tin phosphates  
NT1 titanium phosphates  
NT1 uranium phosphates  
NT1 uranyl phosphates  
NT1 vanadium phosphates  
NT1 ytterbium phosphates  
NT1 yttrium phosphates  
NT1 zinc phosphates  
NT1 zirconium phosphates  
RT molybdophosphates  
RT phosphorites

**phosphatides**

USE phospholipids

**phosphatidylcholine**

INIS: 2000-04-12; ETDE: 1986-03-04

USE lecithins

**PHOSPHIDES**

1997-06-19

BT1 phosphorus compounds  
BT1 pnictides  
NT1 aluminium phosphides  
NT1 americium phosphides  
NT1 berkelium phosphides  
NT1 beryllium phosphides  
NT1 boron phosphides  
NT1 cadmium phosphides  
NT1 cerium phosphides  
NT1 cobalt phosphides  
NT1 copper phosphides  
NT1 curium phosphides  
NT1 dysprosium phosphides  
NT1 erbium phosphides  
NT1 europium phosphides  
NT1 gadolinium phosphides  
NT1 gallium phosphides  
NT1 germanium phosphides  
NT1 hafnium phosphides  
NT1 holmium phosphides  
NT1 indium phosphides  
NT1 iron phosphides  
NT1 lanthanum phosphides  
NT1 lithium phosphides  
NT1 manganese phosphides  
NT1 molybdenum phosphides  
NT1 neptunium phosphides  
NT1 nickel phosphides  
NT1 microbraz 50  
NT1 niobium phosphides  
NT1 osmium phosphides  
NT1 palladium phosphides  
NT1 platinum phosphides  
NT1 plutonium phosphides  
NT1 potassium phosphides  
NT1 praseodymium phosphides  
NT1 rhodium phosphides  
NT1 ruthenium phosphides  
NT1 samarium phosphides  
NT1 scandium phosphides  
NT1 silicon phosphides  
NT1 sodium phosphides  
NT1 tantalum phosphides  
NT1 terbium phosphides  
NT1 thorium phosphides  
NT1 thulium phosphides  
NT1 tin phosphides  
NT1 titanium phosphides  
NT1 tungsten phosphides  
NT1 uranium phosphides  
NT1 vanadium phosphides  
NT1 ytterbium phosphides  
NT1 yttrium phosphides  
NT1 zinc phosphides  
NT1 zirconium phosphides

RT phosphorus additions

**PHOSPHINE OXIDES**

INIS: 1992-01-07; ETDE: 1985-09-23

BT1 oxygen compounds  
\*BT1 phosphines  
NT1 cmpo  
NT1 tributylphosphine oxide  
NT1 trioctylphosphine oxide  
NT1 triphenylphosphine oxide  
RT organic phosphorus compounds

**PHOSPHINES**

BT1 phosphorus compounds  
NT1 phosphine oxides  
NT2 cmpo  
NT2 tributylphosphine oxide  
NT2 trioctylphosphine oxide  
NT2 triphenylphosphine oxide  
NT1 triphenylphosphine  
RT organic phosphorus compounds  
RT pest control  
RT pesticides  
RT phosphorus hydrides

**PHOSPHINIC ACID ESTERS**

\*BT1 esters  
\*BT1 organic phosphorus compounds  
RT phosphinic acids

**PHOSPHINIC ACIDS**

1992-01-10

(Before 1992, this information was indexed to ORGANOPHOSPHINIC ACIDS.)

UF organophosphinic acids

\*BT1 organic acids

\*BT1 organic phosphorus compounds  
RT phosphinic acid esters

**phosphites**

*Specific phosphites should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and PHOSPHOROUS ACID.*

USE phosphorous acid

**PHOSPHOCREATINE**

\*BT1 amino acids  
\*BT1 organic phosphorus compounds  
RT creatine

**PHOSPHODIESTERASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.1.4.

\*BT1 esterases

NT1 nucleases

NT2 dna-ase

NT3 endonucleases

NT2 rna-ase

**PHOSPHOENOLPYRUVATE**

INIS: 2000-04-12; ETDE: 1984-10-10

*An intermediate compound in both the C4 photosynthetic pathway and carbohydrate metabolism.*

UF pep

RT biosynthesis

RT carbohydrates

RT carbon dioxide

RT chemical reactions

RT metabolism

RT photosynthesis

RT uptake

**PHOSPHOHYDROLASES**

INIS: 1985-09-09; ETDE: 1981-01-30

Code number 3.6.1.

\*BT1 acid anhydrases

NT1 atp-ase



**PHOSPHOLIPIDS**

1996-10-22

UF cephalins

UF phosphatides

\*BT1 esters

\*BT1 lipids

\*BT1 organic phosphorus compounds

NT1 cardioliplin

NT1 lecithins

NT1 sphingomyelins

**phosphomolybdic acid**

1980-05-14

USE molybdophosphoric acid

**PHOSPHONATES**

1976-02-05

For salts only; see also PHOSPHONIC ACID ESTERS.

\*BT1 organic phosphorus compounds

**PHOSPHONIC ACID ESTERS**

SF dehp

\*BT1 esters

\*BT1 organic phosphorus compounds

NT1 damp

NT1 dhdecmp

**PHOSPHONIC ACIDS**

1994-03-15

\*BT1 organic acids

\*BT1 organic phosphorus compounds

**PHOSPHOPROTEINS**

INIS: 2000-04-12; ETDE: 1987-04-24

Proteins which have phosphoric acid as a prosthetic group.

\*BT1 proteins

RT cyclases

RT phosphotransferases

RT post-translation modification

**PHOSPHORESCENCE**

\*BT1 luminescence

RT afterglow

RT phosphors

**PHOSPHORIC ACID**

Prior to August 2012 the concept "hydrogen phosphates" was indexed here.

\*BT1 inorganic acids

BT1 oxygen compounds

BT1 phosphorus compounds

RT hydrogen phosphates

RT molybdophosphoric acid

RT tungstophosphoric acid

**PHOSPHORIC ACID ESTERS**

UF t2ehp

UF tri-2-ethylhexyl phosphate

\*BT1 esters

\*BT1 organic phosphorus compounds

NT1 butyl phosphates

NT2 dbp

NT2 mbp

NT2 tbp

NT1 hdehp

NT1 mdpa

NT1 phytic acid

NT1 tcp

**PHOSPHORITES**

Sedimentary rocks composed chiefly of phosphate.

\*BT1 phosphate rocks

RT phosphate minerals

RT phosphates

**PHOSPHOROUS ACID**

UF phosphites

\*BT1 inorganic acids

BT1 oxygen compounds

BT1 phosphorus compounds

**PHOSPHORS**

UF fluors

UF scintillators

NT1 glass scintillators

NT1 inorganic phosphors

NT2 cadmium sulfides

NT2 cadmium tungstates

NT2 calcium tungstates

NT2 cesium iodides

NT2 lithium iodides

NT2 potassium iodides

NT2 sodium iodides

NT2 zinc sulfides

NT1 liquid scintillators

NT1 organic crystal phosphors

NT1 plastic scintillators

RT luminescent chambers

RT luminescent concentrators

RT luminescent dosimeters

RT phosphorescence

RT scintillation counters

**PHOSPHORUS**

\*BT1 nonmetals

**PHOSPHORUS 21**

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 phosphorus isotopes

**PHOSPHORUS 24**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 light nuclei

\*BT1 odd-odd nuclei

\*BT1 phosphorus isotopes

**PHOSPHORUS 25**

2002-02-27

\*BT1 light nuclei

\*BT1 nanoseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 phosphorus isotopes

**PHOSPHORUS 26**

INIS: 1983-09-01; ETDE: 1983-04-28

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 phosphorus isotopes

**PHOSPHORUS 27**

1986-04-02

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 phosphorus isotopes

**PHOSPHORUS 28**

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 phosphorus isotopes

**PHOSPHORUS 29**

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 phosphorus isotopes

\*BT1 seconds living radioisotopes

**PHOSPHORUS 30**

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 phosphorus isotopes

**PHOSPHORUS 30 TARGET**

INIS: 1992-09-23; ETDE: 1984-11-29

BT1 targets

**PHOSPHORUS 31**

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 phosphorus isotopes

\*BT1 stable isotopes

**PHOSPHORUS 31 BEAMS**

1983-09-01

\*BT1 ion beams

**PHOSPHORUS 31 REACTIONS**

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 heavy ion reactions

**PHOSPHORUS 31 TARGET**

ETDE: 1976-07-09

BT1 targets

**PHOSPHORUS 32**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 light nuclei

\*BT1 odd-odd nuclei

\*BT1 phosphorus isotopes

**PHOSPHORUS 32 TARGET**

ETDE: 1976-07-09

BT1 targets

**PHOSPHORUS 33**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 phosphorus isotopes

**PHOSPHORUS 34**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 odd-odd nuclei

\*BT1 phosphorus isotopes

\*BT1 seconds living radioisotopes

**PHOSPHORUS 35**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 phosphorus isotopes

\*BT1 seconds living radioisotopes

**PHOSPHORUS 36**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 odd-odd nuclei

\*BT1 phosphorus isotopes

\*BT1 seconds living radioisotopes

**PHOSPHORUS 37**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 phosphorus isotopes

\*BT1 seconds living radioisotopes

**PHOSPHORUS 38**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 phosphorus isotopes

**PHOSPHORUS 39**

INIS: 1977-10-17; ETDE: 1977-08-09

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 phosphorus isotopes

**PHOSPHORUS 40***INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 41***INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 42***INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 43***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 44***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 45***INIS: 1990-04-19; ETDE: 1990-05-16*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 46***INIS: 1990-04-19; ETDE: 1990-11-20*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS ADDITIONS**

- BT1 alloys
- RT phosphides

**PHOSPHORUS BROMIDES**

- \*BT1 bromides
- \*BT1 phosphorus halides

**PHOSPHORUS CHLORIDES**

- \*BT1 chlorides
- \*BT1 phosphorus halides

**PHOSPHORUS COMPLEXES**

- BT1 complexes

**PHOSPHORUS COMPOUNDS**

- NT1 hypophosphorous acid
- NT1 molybdophosphates
- NT1 molybdophosphoric acid
- NT1 phosphates
  - NT2 aluminium phosphates
  - NT2 americium phosphates
  - NT2 ammonium phosphates
  - NT2 barium phosphates
  - NT2 berkelium phosphates
  - NT2 beryllium phosphates
  - NT2 bismuth phosphates
  - NT2 boron phosphates
  - NT2 cadmium phosphates
  - NT2 calcium phosphates
  - NT2 cerium phosphates
  - NT2 cesium phosphates
  - NT2 chromium phosphates
  - NT2 cobalt phosphates
  - NT2 copper phosphates
  - NT2 dysprosium phosphates
  - NT2 erbium phosphates

- NT2 europium phosphates
- NT2 gadolinium phosphates
- NT2 gallium phosphates
- NT2 germanium phosphates
- NT2 hafnium phosphates
- NT2 holmium phosphates
- NT2 hydrogen phosphates
- NT2 indium phosphates
- NT2 iron phosphates
- NT2 lanthanum phosphates
- NT2 lead phosphates
- NT2 lithium phosphates
- NT2 lutetium phosphates
- NT2 magnesium phosphates
- NT2 manganese phosphates
- NT2 molybdenum phosphates
- NT2 neodymium phosphates
- NT2 neptunium phosphates
- NT2 nickel phosphates
- NT2 niobium phosphates
- NT2 plutonium phosphates
- NT2 potassium phosphates
- NT2 praseodymium phosphates
- NT2 promethium phosphates
- NT2 protactinium phosphates
- NT2 rubidium phosphates
- NT2 samarium phosphates
- NT2 scandium phosphates
- NT2 silicon phosphates
- NT2 silver phosphates
- NT2 sodium phosphates
- NT2 strontium phosphates
- NT2 superphosphates
- NT2 tantalum phosphates
- NT2 technetium phosphates
- NT2 terbium phosphates
- NT2 thallium phosphates
- NT2 thorium phosphates
- NT2 thulium phosphates
- NT2 tin phosphates
- NT2 titanium phosphates
- NT2 uranium phosphates
- NT2 uranyl phosphates
- NT2 vanadium phosphates
- NT2 ytterbium phosphates
- NT2 yttrium phosphates
- NT2 zinc phosphates
- NT2 zirconium phosphates
- NT1 phosphides
  - NT2 aluminium phosphides
  - NT2 americium phosphides
  - NT2 berkelium phosphides
  - NT2 beryllium phosphides
  - NT2 boron phosphides
  - NT2 cadmium phosphides
  - NT2 cerium phosphides
  - NT2 cobalt phosphides
  - NT2 copper phosphides
  - NT2 curium phosphides
  - NT2 dysprosium phosphides
  - NT2 erbium phosphides
  - NT2 europium phosphides
  - NT2 gadolinium phosphides
  - NT2 gallium phosphides
  - NT2 germanium phosphides
  - NT2 hafnium phosphides
  - NT2 holmium phosphides
  - NT2 indium phosphides
  - NT2 iron phosphides
  - NT2 lanthanum phosphides
  - NT2 lithium phosphides
  - NT2 manganese phosphides
  - NT2 molybdenum phosphides
  - NT2 neptunium phosphides
  - NT2 nickel phosphides
  - NT2 niobium phosphides
  - NT2 osmium phosphides
  - NT2 palladium phosphides

- NT2 platinum phosphides
- NT2 plutonium phosphides
- NT2 potassium phosphides
- NT2 praseodymium phosphides
- NT2 rhodium phosphides
- NT2 ruthenium phosphides
- NT2 samarium phosphides
- NT2 scandium phosphides
- NT2 silicon phosphides
- NT2 sodium phosphides
- NT2 tantalum phosphides
- NT2 terbium phosphides
- NT2 thorium phosphides
- NT2 thulium phosphides
- NT2 tin phosphides
- NT2 titanium phosphides
- NT2 tungsten phosphides
- NT2 uranium phosphides
- NT2 vanadium phosphides
- NT2 ytterbium phosphides
- NT2 yttrium phosphides
- NT2 zinc phosphides
- NT2 zirconium phosphides
- NT1 phosphines
  - NT2 phosphine oxides
    - NT3 cmpo
    - NT3 tributylphosphine oxide
    - NT3 trioctylphosphine oxide
    - NT3 triphenylphosphine oxide
  - NT2 triphenylphosphine
- NT1 phosphoric acid
- NT1 phosphorous acid
- NT1 phosphorus halides
  - NT2 phosphorus bromides
  - NT2 phosphorus chlorides
  - NT2 phosphorus fluorides
  - NT2 phosphorus iodides
- NT1 phosphorus hydrides
- NT1 phosphorus nitrides
- NT1 phosphorus oxides
- NT1 phosphorus sulfides
- NT1 pyrophosphates
- NT1 tungstophosphates
- NT1 tungstophosphoric acid
- RT organic phosphorus compounds

**PHOSPHORUS FLUORIDES**

- \*BT1 fluorides
- \*BT1 phosphorus halides

**PHOSPHORUS-GROUP TRANSFERASES***INIS: 1986-12-03; ETDE: 1981-01-30*

Code number 2.7.

- \*BT1 transferases
- NT1 nucleotidyltransferases
  - NT2 polymerases
    - NT3 dna polymerases
    - NT3 rna polymerases
- NT1 phosphotransferases
  - NT2 hexokinase

**PHOSPHORUS HALIDES**

2012-07-25

- \*BT1 halides
- BT1 phosphorus compounds
- NT1 phosphorus bromides
- NT1 phosphorus chlorides
- NT1 phosphorus fluorides
- NT1 phosphorus iodides

**PHOSPHORUS HYDRIDES**

- \*BT1 hydrides
- BT1 phosphorus compounds
- RT phosphines

**PHOSPHORUS IODIDES**

- \*BT1 iodides
- \*BT1 phosphorus halides

**PHOSPHORUS IONS**

\*BT1 ions

**PHOSPHORUS ISOTOPES**

1999-07-16

BT1 isotopes

NT1 phosphorus 21

NT1 phosphorus 24

NT1 phosphorus 25

NT1 phosphorus 26

NT1 phosphorus 27

NT1 phosphorus 28

NT1 phosphorus 29

NT1 phosphorus 30

NT1 phosphorus 31

NT1 phosphorus 32

NT1 phosphorus 33

NT1 phosphorus 34

NT1 phosphorus 35

NT1 phosphorus 36

NT1 phosphorus 37

NT1 phosphorus 38

NT1 phosphorus 39

NT1 phosphorus 40

NT1 phosphorus 41

NT1 phosphorus 42

NT1 phosphorus 43

NT1 phosphorus 44

NT1 phosphorus 45

NT1 phosphorus 46

**PHOSPHORUS NITRIDES**

\*BT1 nitrides

BT1 phosphorus compounds

**PHOSPHORUS OXIDES**

\*BT1 oxides

BT1 phosphorus compounds

**PHOSPHORUS SULFIDES**

BT1 phosphorus compounds

\*BT1 sulfides

**phosphorylases**

USE phosphotransferases

**PHOSPHORYLATION**

BT1 chemical reactions

**PHOSPHOTRANSFERASES**

1996-11-13

Code numbers 2.7.1 to 2.7.6 and 2.7.8 to 2.7.9.

UF kinases

UF kinases (phosphotransferases)

UF phosphorylases

UF streptidine kinase

\*BT1 phosphorus-group transferases

NT1 hexokinase

RT phosphoproteins

**phosphotungstic acid**

USE tungstophosphoric acid

**phosphowolframic acid**

USE tungstophosphoric acid

**phosphuranylite**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE phosphate minerals

USE uranium minerals

**PHOTIC ZONE**

2014-01-02

Upper region of a body of water with sufficient sunlight to support photosynthesis

RT photosynthesis

RT surface waters

**PHOTINOS**

2013-08-26

\*BT1 sparticles

RT neutralinos

RT photons

**photo-induced transient spectroscopy**

INIS: 2000-04-12; ETDE: 1983-03-23

A transport technique which detects the transient rise or decay of a photocurrent during chopped illumination.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE spectroscopy

**PHOTOACOUSTIC EFFECT**

INIS: 1980-09-12; ETDE: 1979-08-07

RT acoustics

RT phonons

RT photoacoustic spectrometers

RT photoacoustic spectroscopy

RT radiation effects

**PHOTOACOUSTIC****SPECTROMETERS**

INIS: 1978-02-23; ETDE: 1978-05-01

UF optoacoustic cells

UF spectrophones

\*BT1 infrared spectrometers

RT absorption spectroscopy

RT gas analysis

RT photoacoustic effect

RT photoacoustic spectroscopy

**PHOTOACOUSTIC SPECTROSCOPY**

INIS: 1986-04-03; ETDE: 1978-07-06

BT1 spectroscopy

RT photoacoustic effect

RT photoacoustic spectrometers

**PHOTOANODES**

INIS: 1992-02-22; ETDE: 1979-02-23

\*BT1 anodes

RT photocathodes

**PHOTOCATALYSIS**

2006-03-31

BT1 catalysis

RT catalysts

**PHOTOCATHODES**

INIS: 1980-11-07; ETDE: 1977-06-30

\*BT1 cathodes

RT photoanodes

RT photocurrents

RT photoelectric effect

RT photoemission

RT quantum efficiency

**photocells**

USE photoelectric cells

**PHOTOCHEMICAL ENERGY STORAGE**

INIS: 2000-04-12; ETDE: 1979-10-23

\*BT1 energy storage

RT photochemical reactions

RT photochemistry

RT photoelectrochemical cells

RT photosynthesis

RT solar photochemistry

**PHOTOCHEMICAL OXIDANTS**

INIS: 2000-04-12; ETDE: 1976-02-19

RT photochemistry

RT smog

**PHOTOCHEMICAL REACTIONS**

INIS: 1992-03-18; ETDE: 1977-06-30

BT1 chemical reactions

NT1 photolysis

NT2 biophotolysis

NT1 photosynthesis

RT atmospheric chemistry

RT hydrogen transfer

RT photochemical energy storage

RT photochemistry

RT photoelectrochemical cells

RT photosynthetic membranes

**PHOTOCHEMISTRY**

BT1 chemistry

NT1 solar photochemistry

RT atmospheric chemistry

RT bioluminescence

RT photochemical energy storage

RT photochemical oxidants

RT photochemical reactions

RT photoelectrochemical cells

RT photolysis

RT photosynthesis

RT radiation chemistry

RT reaction intermediates

**PHOTOCHROMIC MATERIALS**

INIS: 2000-04-12; ETDE: 1976-04-19

Materials that change in color when exposed to visible or near-visible radiant energy.

BT1 materials

RT dyes

**PHOTOCONDUCTIVE CELLS**

\*BT1 photoelectric cells

RT photoconductivity

**PHOTOCONDUCTIVITY**

\*BT1 electric conductivity

RT photoconductive cells

RT photoconductors

RT photocurrents

RT traps

**PHOTOCONDUCTORS**

RT electric conductors

RT photoconductivity

RT photodetectors

RT photoelectric cells

RT semiconductor materials

**PHOTOCOPYING**

INIS: 2000-04-12; ETDE: 1980-08-12

RT image processing

RT photography

**PHOTOCURRENTS**

INIS: 1985-03-19; ETDE: 1981-12-14

\*BT1 electric currents

RT photocathodes

RT photoconductivity

RT photoelectric cells

RT photoelectric effect

RT photoelectrochemical cells

RT photovoltaic cells

RT scanning light microscopy

**PHOTODETECTORS**

RT dark current

RT photoconductors

RT photodiodes

RT photoelectric cells

RT photon counting

RT phototransistors

**PHOTODIODES**

\*BT1 semiconductor diodes

RT dark current

RT photodetectors

RT photoelectric cells

RT phototransistors

**photodisintegration**

USE photonuclear reactions

**PHOTOELASTICITY**

\*BT1 elasticity

RT homalite  
 RT materials testing  
 RT stress analysis

**PHOTOELECTRIC CELLS**

UF *photocells*  
 BT1 direct energy converters  
 NT1 photoconductive cells  
 NT1 photovoltaic cells  
 NT2 solar cells  
 NT3 aluminium arsenide solar cells  
 NT3 back contact solar cells  
 NT3 cadmium arsenide solar cells  
 NT3 cadmium selenide solar cells  
 NT3 cadmium sulfide solar cells  
 NT3 cadmium telluride solar cells  
 NT3 cascade solar cells  
 NT3 concentrator solar cells  
 NT3 copper oxide solar cells  
 NT3 copper selenide solar cells  
 NT3 copper sulfide solar cells  
 NT3 gallium arsenide solar cells  
 NT3 gallium phosphide solar cells  
 NT3 indium phosphide solar cells  
 NT3 indium selenide solar cells  
 NT3 mi solar cells  
 NT3 mis solar cells  
 NT3 mos solar cells  
 NT3 ms solar cells  
 NT3 organic solar cells  
 NT3 pis solar cells  
 NT3 ps solar cells  
 NT3 schottky barrier solar cells  
 NT3 selenium solar cells  
 NT3 silicon arsenide solar cells  
 NT3 silicon solar cells  
 NT4 soc solar cells  
 NT3 zinc phosphide solar cells  
 NT3 zinc sulfide solar cells

RT image tubes  
 RT photoconductors  
 RT photocurrents  
 RT photodetectors  
 RT photodiodes  
 RT photomultipliers  
 RT phototransistors  
 RT phototubes  
 RT semiconductor devices

**PHOTOELECTRIC EFFECT**

UF *photoelectromagnetic effect*  
 UF *photomagnetolectric effect*  
 NT1 photoelectric emission  
 NT1 photovoltaic effect  
 RT fowler-nordheim theory  
 RT photocathodes  
 RT photocurrents

**PHOTOELECTRIC EMISSION**

\*BT1 electron emission  
 BT1 photoelectric effect  
 RT photoelectron counting  
 RT quantum efficiency

**PHOTOELECTROCHEMICAL CELLS**

INIS: 1992-02-22; ETDE: 1979-03-05  
 BT1 electrochemical cells  
 NT1 photogalvanic cells  
 RT electrochemistry  
 RT photochemical energy storage  
 RT photochemical reactions  
 RT photochemistry  
 RT photocurrents  
 RT photovoltaic cells  
 RT solar equipment

**PHOTOELECTROLYSIS**

INIS: 2000-04-12; ETDE: 1978-02-14  
*A room-temperature electrolytic decomposition of water that is powered by radiant energy.*  
 UF *photoelectrolytic cells*  
 \*BT1 electrolysis  
 RT hydrogen production  
 RT solar energy conversion

**photoelectrolytic cells**

INIS: 2000-04-12; ETDE: 1978-02-14  
*Electrolytic cells with photovoltage generating electrodes for photoelectrolysis of the electrolyte.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE electrolytic cells  
 USE photoelectrolysis

**photoelectromagnetic effect**

INIS: 1984-04-04; ETDE: 1981-05-18  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE magnetic fields  
 USE photoelectric effect

**PHOTOELECTRON COUNTING**

INIS: 1976-08-17; ETDE: 1976-11-01  
 BT1 counting techniques  
 RT photoelectric emission

**PHOTOELECTRON SPECTROSCOPY**

UF *photoemission spectroscopy*  
 \*BT1 electron spectroscopy  
 NT1 x-ray photoelectron spectroscopy  
 RT electronic structure  
 RT molecular structure

**PHOTOEMISSION**

*Photon-induced emission.*  
 \*BT1 secondary emission  
 RT photocathodes

**photoemission spectroscopy**

2015-06-03  
 USE photoelectron spectroscopy

**PHOTOFISSION**

\*BT1 fission  
 \*BT1 photonuclear reactions

**PHOTO GALVANIC CELLS**

INIS: 2000-04-12; ETDE: 1975-09-11  
 \*BT1 photoelectrochemical cells

**PHOTOGRAPHIC EMULSIONS**

1999-07-05  
 \*BT1 emulsions  
 RT latent images  
 RT photographic film doseimeters

**PHOTOGRAPHIC FILM DETECTORS**

UF *track detectors (photographic)*  
 \*BT1 radiation detectors  
 RT neutron-photon converters  
 RT nuclear emulsions  
 RT photographic film doseimeters  
 RT photographic films

**PHOTOGRAPHIC FILM DOSEMETERS**

UF *film badges*  
 UF *film doseimeters*  
 \*BT1 doseimeters  
 RT film dosimetry  
 RT nuclear emulsions  
 RT photographic emulsions  
 RT photographic film detectors

**PHOTOGRAPHIC FILMS**

RT image scanners  
 RT images  
 RT latent images  
 RT nuclear emulsions  
 RT photographic film detectors

**photographs**

USE images

**PHOTOGRAPHY**

NT1 cinematography  
 NT1 multispectral photography  
 NT1 photomicrography  
 NT1 schlieren method  
 NT1 streak photography  
 NT1 ultrahigh-speed photography  
 RT cameras  
 RT developers  
 RT holography  
 RT image processing  
 RT photocopying  
 RT xerography

**PHOTOIONIZATION**

BT1 ionization

**PHOTOLUMINESCENCE**

\*BT1 luminescence  
 RT scanning light microscopy

**PHOTOLYSIS**

\*BT1 decomposition  
 \*BT1 photochemical reactions  
 NT1 biophotolysis  
 RT bioconversion  
 RT dissociation  
 RT photochemistry  
 RT radiolysis  
 RT traps

**photomagnetic effect**

INIS: 1982-04-14; ETDE: 1982-05-07  
 USE magnetic susceptibility  
 USE visible radiation

**photomagnetolectric effect**

INIS: 1982-04-14; ETDE: 1982-05-07  
 USE magnetic fields  
 USE photoelectric effect

**PHOTOMETERS**

BT1 measuring instruments  
 NT1 densitometers  
 RT photometry  
 RT pyranometers

**PHOTOMETRY**

NT1 flame photometry  
 RT densitometers  
 RT photometers  
 RT spectrophotometry  
 RT spectroscopy

**PHOTOMICROGRAPHY**

BT1 photography  
 RT ceramography  
 RT fractography  
 RT metallography  
 RT microscopy

**PHOTOMULTIPLIERS**

BT1 phototubes  
 RT electron multipliers  
 RT photoelectric cells  
 RT scintillation counters

**PHOTON ACTIVATION ANALYSIS**

INIS: 1978-11-24; ETDE: 1979-02-27  
 UF *analysis (photon activation)*  
 \*BT1 activation analysis

**PHOTON-ATOM COLLISIONS**

- \*BT1 atom collisions
- \*BT1 photon collisions

**PHOTON-BARYON INTERACTIONS**

- \*BT1 photon-hadron interactions
- NT1 photon-hyperon interactions
- NT1 photon-nucleon interactions
- NT2 photon-neutron interactions
- NT2 photon-proton interactions

**PHOTON BEAMS**

- BT1 beams
- RT light sources
- RT particle beams
- RT photons
- RT visible radiation

**PHOTON COLLISIONS**

- BT1 collisions
- NT1 photon-atom collisions
- NT1 photon-electron collisions
- NT1 photon-ion collisions
- NT1 photon-molecule collisions
- NT1 photon-positron collisions

**PHOTON COMPUTED TOMOGRAPHY**

- INIS: 2000-04-12; ETDE: 1980-05-07*
- \*BT1 computerized tomography
  - RT biomedical radiography
  - RT image scanners

**PHOTON COUNTING**

- 2017-03-28
- RT photodetectors
  - RT quantum efficiency

***photon detection (gamma)***

- INIS: 2000-04-12; ETDE: 1979-02-27*
- USE gamma detection

***photon detection (x-ray)***

- INIS: 2000-04-12; ETDE: 1979-02-27*
- USE x-ray detection

***photon-deuteron interactions***

- (Prior to March 1997 this was a valid ETDE descriptor.)
- USE photon-neutron interactions
  - USE photon-proton interactions

**PHOTON-ELECTRON COLLISIONS**

- ETDE: 1989-02-10*
- \*BT1 electron collisions
  - \*BT1 photon collisions

**PHOTON-ELECTRON INTERACTIONS**

- \*BT1 photon-lepton interactions

**PHOTON EMISSION**

- Emission of photons.*
- BT1 emission
  - NT1 luminescence
  - NT2 bioluminescence
  - NT2 cathodoluminescence
  - NT2 chemiluminescence
  - NT2 electroluminescence
  - NT2 fluorescence
  - NT3 resonance fluorescence
  - NT2 lyoluminescence
  - NT2 phosphorescence
  - NT2 photoluminescence
  - NT2 radioluminescence
  - NT3 radiothermoluminescence
  - NT2 thermoluminescence
  - NT3 radiothermoluminescence
  - NT1 superradiance
  - RT multi-photon processes
  - RT secondary emission

**PHOTON EMISSION SCANNING**

- INIS: 1986-04-03; ETDE: 1979-05-09*
- BT1 diagnostic techniques
  - NT1 ecst scanning
  - RT emission computed tomography
  - RT photons

**PHOTON-HADRON INTERACTIONS**

- \*BT1 electromagnetic interactions
- \*BT1 particle interactions
- NT1 photon-baryon interactions
- NT2 photon-hyperon interactions
- NT2 photon-nucleon interactions
- NT3 photon-neutron interactions
- NT3 photon-proton interactions
- NT1 photon-meson interactions

**PHOTON-HYPERON INTERACTIONS**

- \*BT1 photon-baryon interactions

**PHOTON-ION COLLISIONS**

- \*BT1 ion collisions
- \*BT1 photon collisions

**PHOTON-LEPTON INTERACTIONS**

- \*BT1 particle interactions
- NT1 photon-electron interactions
- NT1 photon-muon interactions
- NT1 photon-neutrino interactions
- RT electromagnetic interactions
- RT weak interactions

**PHOTON-MESON INTERACTIONS**

- \*BT1 photon-hadron interactions

**PHOTON-MOLECULE COLLISIONS**

- \*BT1 molecule collisions
- \*BT1 photon collisions

**PHOTON-MUON INTERACTIONS**

- \*BT1 photon-lepton interactions

**PHOTON-NEUTRINO INTERACTIONS**

- \*BT1 photon-lepton interactions

**PHOTON-NEUTRON INTERACTIONS**

- UF *photon-deuteron interactions*
- \*BT1 photon-nucleon interactions

**PHOTON-NUCLEON INTERACTIONS**

- \*BT1 photon-baryon interactions
- NT1 photon-neutron interactions
- NT1 photon-proton interactions

***photon-photon collisions***

- ETDE: 2002-04-26*
- USE photon-photon interactions

**PHOTON-PHOTON INTERACTIONS**

- UF *photon-photon collisions*
- \*BT1 electromagnetic interactions
- \*BT1 particle interactions
- RT equivalent-photon approximation

**PHOTON-POSITRON COLLISIONS**

- \*BT1 photon collisions
- \*BT1 positron collisions

**PHOTON-PROTON INTERACTIONS**

- UF *photon-deuteron interactions*
- \*BT1 photon-nucleon interactions

**PHOTON TEMPERATURE**

- UF *temperature (photon)*
- RT energy
- RT photons

**PHOTON TRANSMISSION SCANNING**

- UF *gamma transmission scanning*
- UF *x-ray transmission scanning*
- BT1 diagnostic techniques
- RT biomedical radiography
- RT single photon emission computed tomography

**PHOTON TRANSPORT**

- UF *transport (gamma)*
- UF *transport (photon)*
- \*BT1 neutral-particle transport
- RT gamma transport theory

**PHOTONEUTRONS**

- \*BT1 neutrons
- \*BT1 photonucleons
- RT peierls method
- RT photonuclear reactions

**PHOTONS**

- BT1 bosons
- \*BT1 massless particles
- NT1 cosmic photons
- RT delayed gamma radiation
- RT electromagnetic radiation
- RT gamma radiation
- RT photinos
- RT photon beams
- RT photon emission scanning
- RT photon temperature
- RT prompt gamma radiation
- RT tagged photon method
- RT x radiation

**PHOTONUCLEAR REACTIONS**

- UF *gamma reactions*
- UF *photodisintegration*
- BT1 nuclear reactions
- NT1 photofission
- RT giant resonance
- RT giant resonance model
- RT photoneutrons
- RT photonucleons
- RT photoproduction
- RT photoprotons

**PHOTONUCLEONS**

- \*BT1 nucleons
- NT1 photoneutrons
- NT1 photoprotons
- RT photonuclear reactions

**PHOTOPERIOD**

- INIS: 2000-04-12; ETDE: 1977-08-09*
- The number of daylight hours best suited to the growth and maturation of an organism.*
- RT daily variations
  - RT visible radiation

**PHOTOPRODUCTION**

- \*BT1 electromagnetic interactions
- \*BT1 particle interactions
- BT1 particle production
- NT1 primakoff effect
- RT drell model
- RT electric born model
- RT kroll-ruderman theorem
- RT levinger-bethe theory
- RT panofsky ratio
- RT photonuclear reactions

**PHOTOPROTONS**

- \*BT1 photonucleons
- \*BT1 protons
- RT photonuclear reactions

***photoreactivating enzyme***

- 2004-09-16
- USE enzymes

USE photoreactivation

## PHOTOREACTIVATION

UF *photoreactivating enzyme*  
 UF *pre (photoreactivating enzyme)*  
 \*BT1 biological repair  
 RT microorganisms  
 RT molecular structure  
 RT nucleic acids  
 RT radiation injuries  
 RT ultrastructural changes  
 RT ultraviolet radiation  
 RT visible radiation

## PHOTORESISTORS

\*BT1 resistors

## PHOTOSENSITIVITY

BT1 sensitivity

## PHOTOSPHERE

\*BT1 solar atmosphere  
 RT chromosphere  
 RT faculae  
 RT solar granulation  
 RT sun  
 RT sunspots

## PHOTOSYNTHESIS

1997-06-19

(From August 1978 till February 1997

BIOMIMETIC PROCESSES was a valid ETDE descriptor.)

SF *biomimetic processes*  
 \*BT1 photochemical reactions  
 BT1 synthesis  
 RT biophotolysis  
 RT biosynthesis  
 RT c4 species  
 RT calvin cycle species  
 RT carbon cycle  
 RT carbon dioxide fixation  
 RT chlorophyll  
 RT chloroplasts  
 RT leaves  
 RT phosphoenolpyruvate  
 RT photic zone  
 RT photochemical energy storage  
 RT photochemistry  
 RT photosynthetic bacteria  
 RT photosynthetic membranes  
 RT photosynthetic reaction centers  
 RT pycobilisomes  
 RT plastoquinone  
 RT ribulose diphosphate carboxylase  
 RT thylakoid membrane proteins

## PHOTOSYNTHETIC BACTERIA

INIS: 1993-07-16; ETDE: 1978-04-06

\*BT1 bacteria  
 NT1 *rhodospseudomonas*  
 NT1 *rhodospirillum*  
 RT photosynthesis

## PHOTOSYNTHETIC MEMBRANES

INIS: 1993-08-05; ETDE: 1980-02-11

BT1 membranes  
 RT chlorophyll-binding proteins  
 RT photochemical reactions  
 RT photosynthesis  
 RT photosynthetic reaction centers  
 RT pycobiliproteins  
 RT thylakoid membrane proteins

## PHOTOSYNTHETIC REACTION CENTERS

INIS: 2000-04-12; ETDE: 1982-07-08

NT1 chlorophyll-binding proteins  
 RT chlorophyll  
 RT cytochromes  
 RT photosynthesis  
 RT photosynthetic membranes

RT pycobilins

## PHOTOTRANSISTORS

\*BT1 transistors  
 RT dark current  
 RT photodetectors  
 RT photodiodes  
 RT photoelectric cells

## PHOTOTUBES

NT1 photomultipliers  
 RT dark current  
 RT electron tubes  
 RT photoelectric cells

## PHOTOVOLTAIC CELLS

\*BT1 photoelectric cells  
 NT1 solar cells  
 NT2 aluminium arsenide solar cells  
 NT2 back contact solar cells  
 NT2 cadmium arsenide solar cells  
 NT2 cadmium selenide solar cells  
 NT2 cadmium sulfide solar cells  
 NT2 cadmium telluride solar cells  
 NT2 cascade solar cells  
 NT2 concentrator solar cells  
 NT2 copper oxide solar cells  
 NT2 copper selenide solar cells  
 NT2 copper sulfide solar cells  
 NT2 gallium arsenide solar cells  
 NT2 gallium phosphide solar cells  
 NT2 indium phosphide solar cells  
 NT2 indium selenide solar cells  
 NT2 mi solar cells  
 NT2 mis solar cells  
 NT2 mos solar cells  
 NT2 ms solar cells  
 NT2 organic solar cells  
 NT2 pis solar cells  
 NT2 ps solar cells  
 NT2 schottky barrier solar cells  
 NT2 selenium solar cells  
 NT2 silicon arsenide solar cells  
 NT2 silicon solar cells  
 NT3 soc solar cells  
 NT2 zinc phosphide solar cells  
 NT2 zinc sulfide solar cells  
 RT combined collectors  
 RT photocurrents  
 RT photoelectrochemical cells  
 RT photovoltaic conversion  
 RT photovoltaic effect  
 RT semiconductor diodes  
 RT solar cell arrays  
 RT thermophotovoltaic converters

## PHOTOVOLTAIC CONVERSION

1982-12-07

\*BT1 direct energy conversion  
 RT organic solar cells  
 RT photovoltaic cells  
 RT thermophotovoltaic conversion

## PHOTOVOLTAIC EFFECT

UF *riehl-schon model*  
 BT1 photoelectric effect  
 RT energy conversion  
 RT photovoltaic cells

## PHOTOVOLTAIC POWER PLANTS

INIS: 1992-05-29; ETDE: 1975-09-11

\*BT1 solar power plants  
 RT microgeneration  
 RT photovoltaic power supplies  
 RT solar cell arrays

## PHOTOVOLTAIC POWER SUPPLIES

INIS: 1992-05-29; ETDE: 1979-03-27

*Solar cells or arrays with associated circuitry for small-scale or dispersed applications.*

\*BT1 power supplies

\*BT1 solar equipment  
 RT natural bridges national monument  
 RT photovoltaic power plants  
 RT solar cell arrays  
 RT solar cells

## PHTHALATES

BT1 carboxylic acid salts  
 RT phthalic acid esters

## PHTHALAZINES

\*BT1 pyridazines  
 NT1 luminol

## PHTHALIC ACID

UF *benzenedicarboxylic acid-ortho*  
 UF *naphthalic acid*  
 \*BT1 dicarboxylic acids  
 RT bromosulphophthalein  
 RT eosin  
 RT fluorescein  
 RT phenolphthalein  
 RT rhodamines  
 RT rose bengal

## PHTHALIC ACID ESTERS

\*BT1 esters  
 RT phthalates

## PHTHALOCYANINES

BT1 dyes  
 \*BT1 heterocyclic compounds  
 RT copper complexes

## PHWR TYPE REACTORS

UF *pressurized heavy water cooled/moderated reactor*  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 NT1 agesta reactor  
 NT1 atucha-1 reactor  
 NT1 atucha-2 reactor  
 NT1 bruce-1 reactor  
 NT1 bruce-2 reactor  
 NT1 bruce-3 reactor  
 NT1 bruce-4 reactor  
 NT1 bruce-5 reactor  
 NT1 bruce-6 reactor  
 NT1 bruce-7 reactor  
 NT1 bruce-8 reactor  
 NT1 cernavoda-1 reactor  
 NT1 cernavoda-2 reactor  
 NT1 cordoba reactor  
 NT1 cvtr reactor  
 NT1 darlington-1 reactor  
 NT1 darlington-2 reactor  
 NT1 darlington-3 reactor  
 NT1 darlington-4 reactor  
 NT1 douglas point ontario reactor  
 NT1 embalse reactor  
 NT1 gentilly-2 reactor  
 NT1 kaiga-1 reactor  
 NT1 kaiga-2 reactor  
 NT1 kaiga-3 reactor  
 NT1 kaiga-4 reactor  
 NT1 kakrapar-1 reactor  
 NT1 kakrapar-2 reactor  
 NT1 kalpakkam-1 reactor  
 NT1 kalpakkam-2 reactor  
 NT1 kanupp reactor  
 NT1 mzf reactor  
 NT1 narora-1 reactor  
 NT1 narora-2 reactor  
 NT1 npd reactor  
 NT1 pickering-1 reactor  
 NT1 pickering-2 reactor  
 NT1 pickering-3 reactor  
 NT1 pickering-4 reactor  
 NT1 pickering-5 reactor  
 NT1 pickering-6 reactor  
 NT1 pickering-7 reactor

NT1 pickering-8 reactor  
 NT1 point lepreau-1 reactor  
 NT1 point lepreau-2 reactor  
 NT1 qinshan-3-1 reactor  
 NT1 qinshan-3-2 reactor  
 NT1 rajasthan-1 reactor  
 NT1 rajasthan-2 reactor  
 NT1 rajasthan-3 reactor  
 NT1 rajasthan-4 reactor  
 NT1 rajasthan-5 reactor  
 NT1 rajasthan-6 reactor  
 NT1 tarapur-3 reactor  
 NT1 tarapur-4 reactor  
 NT1 wolsung-1 reactor  
 NT1 wolsung-2 reactor  
 NT1 wolsung-3 reactor  
 NT1 wolsung-4 reactor  
 RT power reactors

**PHYCOBILINS**

INIS: 2000-04-12; ETDE: 1987-04-24

BT1 pigments  
 RT photosynthetic reaction centers  
 RT phycobiliproteins

**PHYCOBILIPROTEINS**

INIS: 1997-06-19; ETDE: 1987-04-10

\*BT1 thylakoid membrane proteins  
 NT1 phycocyanin  
 RT photosynthetic membranes  
 RT phycobilins  
 RT phycobilisomes  
 RT pigments

**PHYCOBILISOMES**

INIS: 2000-04-12; ETDE: 1982-03-10

BT1 cell constituents  
 RT algae  
 RT photosynthesis  
 RT phycobiliproteins  
 RT phycocyanin  
 RT pigments

**PHYCOCYANIN**

1997-06-19

\*BT1 phycobiliproteins  
 BT1 pigments  
 RT phycobilisomes

**phycomyces**

1997-01-28

(Until October 1996 this was a valid descriptor.)  
 USE eumycota

**PHYSARUM**

\*BT1 fungi

**physical and technical research****reactor moscow**

2000-04-12

USE rpt reactor

**PHYSICAL CHEMISTRY**

1986-04-04

BT1 chemistry  
 NT1 plasma chemistry  
 RT chemical physics

**physical constants test reactor**

2000-04-12

USE pctr reactor

**physical effort**

USE exercise

**PHYSICAL METALLURGY**

INIS: 1977-07-05; ETDE: 1977-10-19

BT1 metallurgy  
 RT crystal structure  
 RT mechanical properties  
 RT mechanics

RT physical properties  
 RT thermodynamics

**PHYSICAL PROPERTIES**

UF properties (physical)

NT1 absorptivity  
 NT1 density  
 NT2 api gravity  
 NT2 bulk density  
 NT1 electrical properties  
 NT2 capacitance  
 NT2 dielectric properties  
 NT3 kerr effect  
 NT3 permittivity  
 NT2 electric conductivity  
 NT3 ionic conductivity  
 NT4 proton conductivity  
 NT3 magnetoresistance  
 NT3 photoconductivity  
 NT3 superconductivity  
 NT2 inductance  
 NT2 polarizability  
 NT2 thermoelectric properties  
 NT1 half-thickness  
 NT1 magnetic properties  
 NT2 magnetic susceptibility  
 NT2 magnetostriction  
 NT1 optical properties  
 NT2 brightness  
 NT2 color  
 NT2 emissivity  
 NT2 luminosity  
 NT2 opacity  
 NT2 optical activity  
 NT2 reflectivity  
 NT2 refractive index  
 NT2 spectral reflectance  
 NT1 permeability  
 NT1 specific surface area  
 NT1 thermodynamic properties  
 NT2 critical pressure  
 NT2 enthalpy  
 NT3 absorption heat  
 NT3 adsorption heat  
 NT3 mixing heat  
 NT3 reaction heat  
 NT4 combustion heat  
 NT4 dissociation heat  
 NT4 formation heat  
 NT3 solution heat  
 NT3 transition heat  
 NT4 fusion heat  
 NT4 sublimation heat  
 NT4 vaporization heat  
 NT2 entropy  
 NT2 free energy  
 NT3 formation free energy  
 NT3 surface energy  
 NT2 free enthalpy  
 NT3 formation free enthalpy  
 NT3 oxygen potential  
 NT2 partial pressure  
 NT2 specific heat  
 NT3 electronic specific heat  
 NT3 magnetic specific heat  
 NT3 nuclear specific heat  
 NT2 stored energy  
 NT2 thermal conductivity  
 NT2 thermal diffusivity  
 NT2 transition temperature  
 NT3 boiling points  
 NT3 critical temperature  
 NT3 curie point  
 NT3 dew point  
 NT3 lambda point  
 NT3 melting points  
 NT3 neel temperature  
 NT2 vapor pressure  
 RT physical metallurgy

RT surface properties  
 RT thermal degradation

**PHYSICAL PROTECTION**

INIS: 1976-04-03; ETDE: 1978-03-08

RT biointrusion  
 RT biometric authentication  
 RT cppnm  
 RT entry control systems  
 RT human intrusion  
 RT intrusion detection systems  
 RT sabotage  
 RT safeguards  
 RT secrecy protection  
 RT security  
 RT security personnel

**PHYSICAL PROTECTION DEVICES**

UF locks (security)

NT1 fences  
 NT1 security seals  
 RT entry control systems  
 RT identification systems  
 RT motion detection systems  
 RT safeguards  
 RT secrecy protection  
 RT security  
 RT theft

**physical protection of nuclear material, convention**

INIS: 1993-11-09; ETDE: 2002-04-26

USE cppnm

**PHYSICAL RADIATION EFFECTS**

UF damage (radiation, physical)

UF radiation damage (physical)

BT1 radiation effects  
 NT1 atomic displacements  
 NT1 interstitial helium generation  
 NT1 interstitial hydrogen generation  
 NT1 radiation hardening  
 RT amoeba effect  
 RT damaging neutron fluence  
 RT equivalent fission fluence  
 RT fuel densification  
 RT metamict state  
 RT neutron sputtering  
 RT neutronic damage functions

**PHYSICAL VAPOR DEPOSITION**

INIS: 1992-02-24; ETDE: 1989-10-11

UF pvd

\*BT1 surface coating  
 RT cathode sputtering  
 RT vacuum coating  
 RT vacuum evaporation  
 RT vapor deposited coatings  
 RT vapor plating

**PHYSICS**

INIS: 1979-04-27; ETDE: 1976-09-28

Use only for articles of very broad coverage, such as annual reviews, text books, etc.

NT1 astrophysics  
 NT2 warm dense matter  
 NT1 atomic physics  
 NT1 biophysics  
 NT1 chemical physics  
 NT1 geophysics  
 NT1 high energy physics  
 NT1 neutron physics  
 NT1 nuclear physics  
 NT1 reactor physics  
 NT1 solid state physics

**PHYSIOLOGY**

NT1 electrophysiology  
 RT anatomy  
 RT antiandrogens  
 RT behavior

RT biological functions  
 RT biological stress  
 RT blood-brain barrier  
 RT blood circulation  
 RT body temperature  
 RT digestion  
 RT excretion  
 RT growth  
 RT homeostasis  
 RT hormones  
 RT metabolism  
 RT molecular biology  
 RT reproduction  
 RT respiration  
 RT ripening  
 RT sleep  
 RT thermoregulation  
 RT transpiration

**physostigmine**

ETDE: 1981-04-20

USE eserine

**PHYTIC ACID**

\*BT1 lipotropic factors  
 \*BT1 organic acids  
 \*BT1 phosphoric acid esters  
 RT inositol

**phytochrome**

INIS: 1985-07-19; ETDE: 2002-04-26

(Prior to August 1985 this was a valid descriptor.)

USE phytochromes

**PHYTOCHROMES**

1985-07-19

(Prior to August 1985 the singular form was used.)

UF *phytochrome*  
 BT1 pigments  
 \*BT1 proteins  
 NT1 chlorophyll

**PHYTOHEMAGGLUTININ**

\*BT1 hemagglutinins  
 BT1 mitogens  
 \*BT1 mucoproteins  
 RT cell proliferation  
 RT lymphocytes  
 RT mitosis  
 RT phaseolus

**PHYTOPLANKTON**

INIS: 1993-01-29; ETDE: 1977-01-10

(Until January 1993, this concept was indexed by PLANKTON.)

\*BT1 plankton  
 BT1 plants  
 RT algae  
 RT diatoms

**pi-1016 resonances**

2000-04-12

(Prior to August 1988 this was a valid ETDE descriptor.)

USE mesons

**PI-1300 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29

\*BT1 pseudoscalar mesons

**pi-1640 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE pi2-1670 mesons

**PI-1770 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 pseudoscalar mesons

**pi condensate**

INIS: 1978-08-14; ETDE: 2002-04-26

USE pion condensation

**PI-K ATOMS**

INIS: 1985-11-19; ETDE: 1985-12-13

A charged pion and an oppositely charged kaon in a Coulomb bound state.

RT bound state  
 RT kaons  
 RT mesic atoms  
 RT pions

**PI-MU ATOMS**

INIS: 1983-02-04; ETDE: 1982-05-24

A charged pion and an oppositely charged muon in a Coulomb bound state.

RT bound state  
 RT mesic atoms  
 RT muonic atoms  
 RT muons  
 RT pions

**PI2-1670 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by PI-1640 RESONANCES; from then until July 1995 it was indexed by PI2-1680 MESONS.)

UF *a3 resonances*  
 UF *pi-1640 resonances*  
 UF *pi2-1680 mesons*  
 \*BT1 tensor mesons

**pi2-1680 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01

(From December 1987 until July 1995 this was a valid term.)

USE pi2-1670 mesons

**PI2-2100 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 tensor mesons

**piace devices**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE linear theta pinch devices

**PICEANCE CREEK**

2000-04-12

\*BT1 rivers  
 RT colorado

**PICEANCE CREEK BASIN**

2000-04-12

BT1 watersheds  
 RT colorado  
 RT green river formation  
 RT oil shale deposits

**PICKERING-1 REACTOR**

Pickering, Ontario, Canada.

UF *ontario phwr pickering-1 reactor*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-2 REACTOR**

Pickering, Ontario, Canada. Permanent shutdown since 2007.

UF *ontario phwr pickering-2 reactor*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-3 REACTOR**

Pickering, Ontario, Canada. Permanent shutdown since 2008.

UF *ontario phwr pickering-3 reactor*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-4 REACTOR**

Pickering, Ontario, Canada.

UF *ontario phwr pickering-4 reactor*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-5 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF *ontario phwr pickering-5 reactor*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-6 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF *ontario phwr pickering-6 reactor*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-7 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF *ontario phwr pickering-7 reactor*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-8 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF *ontario phwr pickering-8 reactor*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING SITE**

INIS: 1993-01-14; ETDE: 1993-05-06

Pickering, Ontario, Canada.

BT1 reactor sites  
 RT pickering-1 reactor  
 RT pickering-2 reactor  
 RT pickering-3 reactor  
 RT pickering-4 reactor  
 RT pickering-5 reactor  
 RT pickering-6 reactor  
 RT pickering-7 reactor  
 RT pickering-8 reactor

**picket fence**

USE cusped geometries

**PICKLING**

BT1 surface treatments  
 NT1 corrosion pickling

**PICKUP REACTIONS**

\*BT1 transfer reactions

**PICO AMP BEAM CURRENTS**

From 10 exp -12 to 10 exp -9 amp.

\*BT1 beam currents

**PICOLINES**

UF *methyl pyridines*



\*BT1 pyridines  
 NT1 picolinic acid  
 RT pyridoxal

**PICOLINIC ACID**

UF 2-pyridinecarboxylic acid  
 \*BT1 heterocyclic acids  
 \*BT1 picolines

**PICRIC ACID**

UF picronic acid  
 UF tnp  
 UF trinitrophenol  
 \*BT1 chemical explosives  
 \*BT1 nitro compounds  
 \*BT1 phenols  
 RT organic acids

**picronic acid**

USE picric acid

**PICRYL RADICALS**

BT1 radicals

**PIERCE ELECTRON GUNS**

BT1 electron guns  
 \*BT1 electron sources

**PIERCE INSTABILITY**

1983-09-06  
 BT1 instability  
 RT beam-plasma systems  
 RT electron beams

**pierrelatte (cea)**

USE cea pierrelatte

**PIES**

INIS: 2000-04-12; ETDE: 1979-02-23  
 UF project independence evaluation system  
 BT1 energy models

**PIEZOELECTRICITY**

BT1 electricity

**PIEZOMETRY**

INIS: 1993-03-09; ETDE: 1975-10-01  
 BT1 pressure measurement  
 RT hydrology  
 RT pore pressure

**pig discharges**

USE penning discharges

**pig ion sources**

USE penning ion sources

**pige analysis**

INIS: 1981-12-23; ETDE: 1982-02-09  
 Proton-Induced Gamma Emission analysis.  
 USE nuclear reaction analysis  
 USE prompt gamma radiation  
 USE proton reactions

**PIGEONS**

\*BT1 birds  
 RT fowl

**pigment cells**

USE animal cells  
 USE pigments

**PIGMENTS**

1997-06-19  
 (Prior to August 1996 ULTRAMARINE was a valid ETDE descriptor.)  
 UF biliverdin  
 UF india ink  
 UF pigment cells  
 UF ultramarine  
 UF urobilinogen  
 NT1 bilirubin  
 NT1 carotenoids

NT1 cytochromes  
 NT1 hematoporphyrins  
 NT1 heme  
 NT1 hemoglobin  
 NT2 methemoglobin  
 NT1 hemosiderin  
 NT1 melanin  
 NT1 molybdenum blue  
 NT1 myoglobin  
 NT1 phycobilins  
 NT1 phycocyanin  
 NT1 phytochromes  
 NT2 chlorophyll  
 NT1 protoporphyrins  
 NT1 rhodopsin  
 RT paints  
 RT phycobilliproteins  
 RT phycobilisomes  
 RT porphyrins

**pigmi**

INIS: 2000-04-12; ETDE: 1981-05-18  
 (Prior to October 1982, this was a valid ETDE descriptor.)  
 USE pigmi facilities

**PIGMI FACILITIES**

INIS: 1982-09-21; ETDE: 1982-10-20  
 UF pigmi  
 UF pion generator for medical irradiations  
 \*BT1 meson factories  
 RT irradiation devices  
 RT linear accelerators  
 RT quadrupole linacs

**pigs**

USE swine

**PIK PHYSICAL MODEL REACTOR**

INIS: 2000-04-12; ETDE: 1999-09-21  
 Petersburg Nuclear Physics Institute, St. Petersburg, Russian Federation.  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**PIK REACTOR**

INIS: 1999-09-24; ETDE: 1999-11-30  
 Petersburg Nuclear Physics Institute, St. Petersburg, Russian Federation.  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**pikas**

1996-07-08  
 (Until June 1996 this was a valid descriptor.)  
 USE mammals

**PILE NEUTRONS**

\*BT1 neutrons

**PILE OSCILLATION TECHNIQUES**

UF oscillation techniques (pile)  
 RT reactivity  
 RT reactor oscillators

**PILE REPLACEMENT TECHNIQUES**

UF substitution techniques  
 RT reactivity

**piles**

INIS: 2000-04-12; ETDE: 1977-03-08  
 USE foundations

**PILGRIM-1 REACTOR**

Energy Nuclear Generation Co., Plymouth, Massachusetts, USA.  
 UF pilgrim reactor  
 UF plymouth pilgrim power reactor  
 \*BT1 bwr type reactors

**PILGRIM-2 REACTOR**

Boston Edison Co., Plymouth, Massachusetts, USA. Canceled in 1981 before construction began.  
 \*BT1 pwr type reactors

**PILGRIM-3 REACTOR**

Boston Edison Co., Plymouth, Massachusetts, USA. Canceled in 1974 before construction began.  
 \*BT1 pwr type reactors

**pilgrim reactor**

1990-12-07  
 (Prior to December 1990, this was a valid descriptor.)  
 USE pilgrim-1 reactor

**PILOCARPINE**

\*BT1 alkaloids  
 \*BT1 parasympathomimetics

**PILOT PLANTS**

UF plants (pilot)  
 BT1 functional models  
 NT1 barstow solar pilot plant  
 NT1 wipp  
 RT demonstration plants  
 RT hef  
 RT industrial plants  
 RT mockup  
 RT pamela plant  
 RT process development units

**pimephales promelas**

INIS: 1993-07-14; ETDE: 1984-08-20  
 USE fathead minnow

**pin stripe event**

2000-04-12  
 A test made during OPERATION FLINTLOCK.  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**PINACOL**

UF tetramethylethylene glycol  
 \*BT1 glycols

**PINCH DEVICES**

UF grom devices  
 UF tesi devices  
 BT1 thermonuclear devices  
 NT1 field-reversed theta pinch devices  
 NT1 linear pinch devices  
 NT2 linear hard core pinch devices  
 NT2 linear screw pinch devices  
 NT2 linear theta pinch devices  
 NT3 isar devices  
 NT3 scylla devices  
 NT2 linear z pinch devices  
 NT1 toroidal pinch devices  
 NT2 reversed-field pinch devices  
 NT3 artemis device  
 NT3 extrap-t2 device  
 NT3 hbt devices  
 NT3 mst device  
 NT3 rfx device  
 NT3 tpe-1rm15 device  
 NT3 tpe-rx device  
 NT3 zt-40 devices  
 NT3 zt-p devices

- NT2 tlp devices
- NT3 zeta devices
- NT2 toroidal screw pinch devices
- NT3 stp-3m device
- NT3 tpe-2 device
- NT2 toroidal theta pinch devices
- NT3 scyllac devices
- RT limiters
- RT pinch effect

**PINCH EFFECT**

- NT1 hard core pinch
- NT1 longitudinal pinch
- NT2 belt pinch
- NT1 reverse-field pinch
- NT1 screw pinch
- NT1 theta pinch
- RT limiters
- RT magnetic compression
- RT magnetic field configurations
- RT pinch devices
- RT plasma
- RT plasma filament
- RT plasma focus

**PINEAL GLAND**

- UF epiphysis (pineal gland)
- \*BT1 glands
- RT brain
- RT endocrine glands
- RT melatonin

**PINEAPPLES**

- INIS: 1993-07-16; ETDE: 1981-04-17
- \*BT1 fruits

**PINELLAS PLANT**

- INIS: 1977-09-06; ETDE: 1976-11-17
- \*BT1 us doe
- \*BT1 us erda
- RT florida

**PINES**

- \*BT1 conifers
- \*BT1 trees

**PINES-BOHM THEORY**

- UF bohm-pines theory
- RT electron gas

**pinning force**

- USE magnetic flux

**PINNIPEDS**

- INIS: 1993-05-04; ETDE: 1982-02-08
- Fin-footed carnivores.
- UF seals (mammals)
- BT1 aquatic organisms
- \*BT1 mammals

**PINOPHYTA**

- INIS: 1992-02-05; ETDE: 1989-01-09
- UF gymnosperms
- BT1 plants
- NT1 conifers
- NT2 cedars
- NT2 firs
- NT2 hemlocks
- NT2 larches
- NT2 pines
- NT2 spruces

**pins (fuel)**

- USE fuel pins

**PION BEAMS**

- \*BT1 meson beams

**PION CONDENSATION**

- INIS: 1978-08-14; ETDE: 1977-06-21
- UF pi condensate
- RT bose-einstein condensation
- RT nuclear matter

- RT pions

**PION DETECTION**

- \*BT1 radiation detection
- RT pion dosimetry

**pion-deuteron interactions**

Use the descriptors below or more specific NTs in their wordblocks.  
(Prior to May 1996 this was a valid ETDE descriptor.)

- USE pion-neutron interactions
- USE pion-proton interactions

**PION DOSIMETRY**

- BT1 dosimetry
- RT pion detection

**pion-exchange model**

- USE ope model

**pion generator for medical irradiations**

- INIS: 1993-11-09; ETDE: 1981-05-18
- USE pigmi facilities

**PION-HYPERON INTERACTIONS**

- \*BT1 meson-hyperon interactions

**PION-KAON INTERACTIONS**

- \*BT1 meson-meson interactions

**pion minus-deuteron interactions**

- 2000-04-12
- (From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was used for this concept in ETDE.)
- USE pion minus-neutron interactions
- USE pion minus-proton interactions

**PION MINUS-NEUTRON INTERACTIONS**

- INIS: 1977-01-25; ETDE: 1976-07-09
- UF pion minus-deuteron interactions
- \*BT1 pion-neutron interactions

**PION MINUS-PROTON INTERACTIONS**

- INIS: 1977-01-25; ETDE: 1976-07-09
- UF pion minus-deuteron interactions
- \*BT1 pion-proton interactions

**PION MINUS REACTIONS**

- INIS: 1977-01-25; ETDE: 1976-07-09
- \*BT1 pion reactions

**PION-NEUTRON INTERACTIONS**

- (From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was a valid ETDE descriptor.)
- UF pion-deuteron interactions
- \*BT1 pion-nucleon interactions
- NT1 pion minus-neutron interactions
- NT1 pion plus-neutron interactions

**PION-NUCLEON INTERACTIONS**

- \*BT1 meson-nucleon interactions
- NT1 pion-neutron interactions
- NT2 pion minus-neutron interactions
- NT2 pion plus-neutron interactions
- NT1 pion-proton interactions
- NT2 pion minus-proton interactions
- NT2 pion plus-proton interactions

**PION-PION INTERACTIONS**

- \*BT1 meson-meson interactions

**pion plus-deuteron interactions**

- 2000-04-12
- (From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was used for this concept in ETDE.)
- USE pion plus-neutron interactions

- USE pion plus-proton interactions

**PION PLUS-NEUTRON INTERACTIONS**

- INIS: 1977-01-25; ETDE: 1976-07-09
- UF pion plus-deuteron interactions
- \*BT1 pion-neutron interactions

**PION PLUS-PROTON INTERACTIONS**

- INIS: 1977-01-25; ETDE: 1976-07-09
- UF pion plus-deuteron interactions
- \*BT1 pion-proton interactions

**PION PLUS REACTIONS**

- INIS: 1977-01-25; ETDE: 1976-07-09
- \*BT1 pion reactions

**PION-PROTON INTERACTIONS**

- (From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was a valid ETDE descriptor.)
- UF pion-deuteron interactions
- \*BT1 pion-nucleon interactions
- NT1 pion minus-proton interactions
- NT1 pion plus-proton interactions

**PION REACTIONS**

- \*BT1 meson reactions
- NT1 pion minus reactions
- NT1 pion plus reactions

**PIONEER SPACE PROBES**

- \*BT1 space vehicles

**PIONIC ATOMS**

- \*BT1 mesic atoms
- RT pionium

**PIONIUM**

- 1985-11-19
- Bound state of pions plus and pions minus.
- RT bound state
- RT kaonium
- RT muonium
- RT pionic atoms
- RT pions minus
- RT pions plus

**PIONIZATION**

- \*BT1 multiple production
- RT cluster emission model

**PIONS**

- UF muon-pion interactions
- \*BT1 pseudoscalar mesons
- NT1 cosmic pions
- NT1 pions minus
- NT1 pions neutral
- NT1 pions plus
- RT abc effect
- RT goldberger-treiman relation
- RT pi-k atoms
- RT pi-mu atoms
- RT pion condensation

**PIONS MINUS**

- \*BT1 pions
- RT pionium

**PIONS NEUTRAL**

- \*BT1 pions
- RT primakoff effect

**PIONS PLUS**

- \*BT1 pions
- RT pionium

**PIPE FITTINGS**

- RT expansion joints
- RT nozzles
- RT orifices
- RT pipelines

RT pipes  
 RT plumbing  
 RT pressure vessels  
 RT restraints  
 RT seals  
 RT valves  
 RT water faucets

**PIPE JOINTS**

BT1 joints  
 RT expansion joints  
 RT plumbing

**pipe restraints**

INIS: 1981-02-27; ETDE: 1981-03-16  
 USE restraints

**PIPE WHIP**

INIS: 1984-01-18; ETDE: 1991-03-08  
 Large amplitude mechanical motion of a pipe due to changes in the flow of the fluid in the pipe.  
 RT dynamic loads  
 RT pipes  
 RT steam lines

**pipeline quality gas**

2000-04-12  
 USE high btu gas

**PIPELINES**

(From April 1978 to February 1997 FREIGHT PIPELINES was a valid ETDE descriptor.)  
 UF freight pipelines  
 SF energy transport  
 SF transport (energy)  
 NT1 alaska gas pipeline  
 NT1 alaska oil pipeline  
 NT1 arctic gas pipelines  
 NT1 slurry pipelines  
 NT1 steam lines  
 RT gas hydrates  
 RT hydraulic transport  
 RT natural gas distribution systems  
 RT pipe fittings  
 RT pipes  
 RT pneumatic transport  
 RT polar gas project  
 RT positioning  
 RT rights-of-way  
 RT scrapers  
 RT transport

**PIPERAZINES**

\*BT1 pyrazines  
 RT amines

**PIPERIDINES**

UF hexahydropyridines  
 UF pentamethyleneimines  
 UF tmpn  
 \*BT1 amines  
 \*BT1 pyridines  
 NT1 dipyridamole  
 NT1 pethidine  
 NT1 triacetoneamine-n-oxyl

**PIPES**

UF tubes (conduits)  
 BT1 tubes  
 NT1 drill pipes  
 NT1 marine risers  
 NT1 penstocks  
 RT borescopes  
 RT cylinders  
 RT diffusers  
 RT ducts  
 RT heat pipes  
 RT pipe fittings  
 RT pipe whip  
 RT pipelines

RT plumbing  
 RT restraints  
 RT scrapers  
 RT well casings

**PIPPARD THEORY**

RT superconductivity

**piqua nuclear power facility**

USE pnpf reactor

**piqua organic moderated reactor**

USE pnpf reactor

**PIRANI GAGES**

\*BT1 hot-wire gages  
 \*BT1 vacuum gages

**pircon-peck process**

INIS: 2000-04-12; ETDE: 1980-11-08  
 Desulfurization process which uses 'activated' phosphate rock, ammonia, and sulfur dioxide from flue gas to produce ammoniated phosphate fertilizers.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**PIS SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18  
 UF polymer-insulator-semiconductor solar cells  
 \*BT1 solar cells  
 RT organic solar cells

**PISTON EFFECT**

2011-01-25  
 Forced air flow inside a tunnel caused by a moving vehicle.  
 BT1 mass transfer  
 RT compressed air  
 RT trains  
 RT tunnels

**PISTONS**

INIS: 1993-07-23; ETDE: 1976-01-07  
 BT1 machine parts  
 RT internal combustion engines

**PISUM**

UF pea plant  
 \*BT1 leguminosae  
 RT peas

**pitch (reactor parameters)**

USE reactor lattice parameters

**pitch angle**

USE inclination

**PITCHBLEND**

\*BT1 uraninites

**PITCHES**

The residues from the destructive distillation of tars.  
 \*BT1 other organic compounds  
 RT tar

**PITOT TUBES**

RT flowmeters

**pits**

INIS: 2000-04-12; ETDE: 1983-03-23  
 Photo-induced transient spectroscopy.  
 (Prior to March 1997 PHOTO-INDUCED TRANSIENT SPECTROSCOPY was used for this concept in ETDE.)  
 USE spectroscopy

**PITTING CORROSION**

\*BT1 corrosion  
 RT cathodic protection

**pittsburg-midway solvent refined coal process**

2000-04-12  
 USE src process

**PITTSBURGH**

INIS: 1992-07-22; ETDE: 1976-09-14  
 \*BT1 pennsylvania  
 BT1 urban areas

**PITTSBURGH ENERGY TECHNOLOGY CENTER**

INIS: 1995-02-16; ETDE: 1979-03-29  
 \*BT1 us doe

**pittsburgh oxydesulfurization process**

INIS: 2000-04-12; ETDE: 1978-10-23  
 The process, under development at the Pittsburgh Energy Technology Center, removes inorganic and organic sulfur from coal by bubbling air through a pulverized coal and water mixture at high temperature and pressure.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**PITUITARY GLAND**

UF hypophysis  
 \*BT1 endocrine glands  
 RT acromegaly  
 RT cushing syndrome  
 RT homeostasis  
 RT hypophysectomy  
 RT hypothalamus  
 RT lactogens  
 RT pituitary hormones

**PITUITARY HORMONES**

\*BT1 peptide hormones  
 NT1 acth  
 NT1 gonadotropins  
 NT2 fsh  
 NT2 hcg  
 NT2 lth  
 NT2 luteinizing hormone  
 NT1 liberins  
 NT2 lh-rh  
 NT1 oxytocin  
 NT1 sth  
 NT1 tsh  
 NT1 vasopressin  
 RT hypophysectomy  
 RT pituitary gland

**PIVALIC ACID**

UF dimethylpropionic acid  
 UF trimethylacetic acid  
 \*BT1 monocarboxylic acids

**PIXE ANALYSIS**

INIS: 1980-09-12; ETDE: 1980-10-07  
 (Prior to October 1980, this concept in ETDE was indexed to X-RAY EMISSION ANALYSIS.)  
 UF proton-induced x-ray emission analysis  
 \*BT1 x-ray emission analysis

**PL-1 LANGUAGE**

BT1 programming languages

**pl-11 language**

1996-07-23  
 (Until July 1996 this was a valid descriptor.)  
 USE programming languages

**PLACENTA**

\*BT1 fetal membranes  
 RT hpl  
 RT lactogens

RT pregnancy

## PLACERS

BT1 geologic deposits  
RT alluvial deposits

## PLACZEC FUNCTION

UF *bethe-placzec model*  
BT1 functions  
RT neutron slowing-down theory

## PLAGES

\*BT1 solar activity  
RT chromosphere  
RT faculae

## plagioclase

INIS: 2000-04-12; ETDE: 1976-03-31  
USE anorthosites

## plagioclaseite

INIS: 2000-04-12; ETDE: 1976-03-31  
USE anorthosites

## PLAICE

\*BT1 fishes  
RT food chains  
RT seafood

## plainsboro irl pool type reactor

USE irl reactor

## PLANARIA

\*BT1 turbellaria

## PLANCK LAW

RT quantum mechanics

## PLANCK RADIATION FORMULA

RT blackbody radiation  
RT thermodynamics

## plane-wave born approximation

USE born approximation

## PLANET-SYSTEM ACCRETION

UF *accretion (planet-system)*  
RT cosmological models  
RT galactic evolution  
RT solar system evolution  
RT star accretion

## PLANETARY ATMOSPHERES

*Excludes the concept covered by EARTH ATMOSPHERE.*

BT1 atmospheres  
NT1 planetary ionospheres  
NT1 planetary magnetospheres

## planetary evolution

INIS: 1976-02-11; ETDE: 1975-11-28  
*When appropriate, see also PLANETS or descriptors for specific planets.*  
USE solar system evolution

## PLANETARY IONOSPHERES

INIS: 1978-09-28; ETDE: 1978-10-20  
*Excludes the Earth's ionosphere for which use IONOSPHERE.*

\*BT1 planetary atmospheres

## PLANETARY MAGNETOSPHERES

INIS: 1976-07-30; ETDE: 1976-11-01  
*Excludes the Earth's magnetosphere.*  
UF *magnetospheres (planetary)*  
\*BT1 planetary atmospheres  
RT earth magnetosphere

## PLANETARY NEBULAE

BT1 nebulae  
RT stars

## PLANETS

NT1 earth planet

NT2 northern hemisphere

NT2 southern hemisphere

NT1 jupiter planet

NT1 mars planet

NT1 mercury planet

NT1 neptune planet

NT1 pluto planet

NT1 saturn planet

NT1 uranus planet

NT1 venus planet

RT asteroids

RT protoplanets

RT solar system

## PLANKTON

*Aquatic organisms that drift or swim weakly.*

BT1 aquatic organisms

NT1 ichthyoplankton

NT1 phytoplankton

NT1 zooplankton

RT bacteria

RT biological materials

RT biomass

RT daphnia

RT protozoa

RT surface waters

RT unicellular algae

## planned communities

INIS: 2000-04-12; ETDE: 1977-09-19  
(Prior to March 1997 this was a valid ETDE descriptor.)

SEE communities

SEE urban areas

## PLANNING

1996-05-06

*Projected design of plants or equipment as well as projected human efforts.*

NT1 experiment planning

NT1 reactor planning

RT advisory committees

RT allocations

RT cancellation

RT computer-aided design

RT construction

RT coordinated research programs

RT decision making

RT decision tree analysis

RT delphi method

RT demonstration programs

RT design

RT emergency plans

RT energy policy

RT environmental policy

RT fault tree analysis

RT feasibility studies

RT forecasting

RT government policies

RT implementation

RT optimization

RT organizational models

RT organizing

RT pert method

RT production

RT regional cooperation

RT research programs

RT schedules

RT site selection

## PLANT BREEDING

RT adventitious bud technique

RT disease resistance

RT drought resistance

RT irradiation

RT morphological changes

RT mutagens

RT mutants

RT mutations

RT plant growth

RT productivity

RT progeny

RT radiation induced mutants

RT reproduction

RT silviculture

## PLANT CELLS

UF *cell growth (plant)*

UF *cells (plant)*

UF *protoplasts*

RT cell constituents

RT cell cultures

RT cell flow systems

RT cell wall

RT chloroplasts

RT clone cells

RT cytology

RT delignification

RT in vivo

## PLANT CONDENSATES

INIS: 2000-04-12; ETDE: 1979-12-10

*Natural gas plant liquids, mostly pentanes and heavier, separated and recovered as liquids at gas inlet separators or scrubbers in natural gas processing plants.*

\*BT1 natural gas liquids

RT liquefied petroleum gases

## plant cultivation

INIS: 1981-08-31; ETDE: 1981-09-22

USE cultivation techniques

## PLANT DISEASES

RT chlorosis

RT disease incidence

RT disease resistance

RT mildew

RT parasites

RT tobacco mosaic virus

## plant fossils

INIS: 1980-09-12; ETDE: 1980-10-07

USE fossils

## PLANT GROWTH

BT1 growth

RT carbon dioxide fixation

RT drought resistance

RT hydroponic culture

RT kinetin

RT nitrogen fixation

RT plant breeding

RT plants

RT sprouting

## PLANT GROWTH REGULATORS

NT1 abscisic acid

NT1 auxins

RT kinetin

## PLANT SAP

INIS: 1993-07-16; ETDE: 1985-06-25

*The fluid that circulates in plants.*

\*BT1 biological materials

RT nutrients

RT plants

RT translocation

RT transpiration

## PLANT STEMS

UF *stem (plant)*

RT bark

RT plants

RT straw

## PLANT TISSUES

1996-03-12

SF *tissues*

NT1 bark

NT1 endosperm

NT1 meristems

- NT1** mycelium  
**RT** animal tissues  
**RT** chlorosis
- plantations (biomass)**  
 2013-04-29  
 USE biomass plantations
- PLANTS**  
 1996-04-16  
 UF vegetation
- NT1** algae  
**NT2** chlorophycota  
**NT3** acetabularia  
**NT3** chlamydomonas  
**NT3** chlorella  
**NT3** nitella  
**NT3** scenedesmus  
**NT2** chromophycota  
**NT3** diatoms  
**NT3** fucus  
**NT3** laminaria  
**NT2** lichens  
**NT2** rhodophycota  
**NT3** porphyra  
**NT2** ulva  
**NT2** unicellular algae  
**NT3** chlamydomonas  
**NT3** chlorella  
**NT3** euglena  
**NT3** scenedesmus  
**NT1** bryophyta  
**NT2** mosses  
**NT1** c4 species  
**NT1** calvin cycle species  
**NT1** euglenophycota  
**NT2** euglena  
**NT1** ferns  
**NT1** forage  
**NT1** fungi  
**NT2** eumycota  
**NT3** aspergillus  
**NT3** fusarium  
**NT3** lichens  
**NT3** mildew  
**NT3** neurospora  
**NT3** penicillium  
**NT3** phanerochaete  
**NT3** rhizopus  
**NT3** trichoderma  
**NT4** trichoderma viride  
**NT3** ustilago  
**NT3** yeasts  
**NT4** candida  
**NT4** saccharomyces  
**NT5** saccharomyces cerevisiae  
**NT4** torula  
**NT2** mushrooms  
**NT2** myxomycetes  
**NT2** physarum  
**NT2** polyporus versicolor  
**NT1** herbs  
**NT2** marihuana  
**NT2** meadow foam  
**NT1** magnoliophyta  
**NT2** liliopsida  
**NT3** allium sativum  
**NT3** aloe  
**NT3** banana plants  
**NT3** buckwheat  
**NT3** cattails  
**NT3** coconut palms  
**NT3** gramineae  
**NT4** bamboo  
**NT4** cereals  
**NT5** barley  
**NT5** maize  
**NT5** millet  
**NT5** oats  
**NT5** rice
- NT5** rye  
**NT5** sorghum  
**NT5** wheat  
**NT4** reeds  
**NT5** sugar cane  
**NT4** switchgrass  
**NT3** lilium  
**NT3** oil palms  
**NT3** onions  
**NT4** allium cepa  
**NT3** tradescantia  
**NT3** water hyacinths  
**NT2** magnoliopsida  
**NT3** arabidopsis  
**NT3** beech trees  
**NT3** beets  
**NT4** sugar beets  
**NT3** birches  
**NT3** brassica  
**NT4** kale  
**NT3** buffalo gourd  
**NT3** cacao trees  
**NT3** cacti  
**NT3** capsicum  
**NT3** carnations  
**NT3** carrots  
**NT3** cassava  
**NT3** chenopodiaceae  
**NT3** chestnut trees  
**NT3** citrus  
**NT3** coffee plants  
**NT3** corchorus  
**NT4** jute  
**NT3** cotton plants  
**NT3** crepis  
**NT3** cucumbers  
**NT3** digitalis  
**NT3** eucalyptuses  
**NT3** euphorbia  
**NT4** castor  
**NT4** milkweed  
**NT4** rubber trees  
**NT5** guayule  
**NT5** hevea  
**NT3** flax plants  
**NT3** jatropa  
**NT3** jojoba  
**NT3** leguminosae  
**NT4** alfalfa  
**NT4** clover  
**NT4** glycine hispida  
**NT4** lens culinaris  
**NT4** locust trees  
**NT4** mesquite  
**NT4** phaseolus  
**NT4** pisum  
**NT4** vicia  
**NT4** vigna  
**NT3** lettuce  
**NT3** mangroves  
**NT3** maples  
**NT3** marihuana  
**NT3** meadow foam  
**NT3** nicotiana  
**NT3** oaks  
**NT3** olive trees  
**NT3** papaver somniferum  
**NT3** pecan trees  
**NT3** poplars  
**NT4** aspens  
**NT4** cottonwoods  
**NT3** radishes  
**NT3** ranunculaceae  
**NT3** rosaceae  
**NT4** strawberries  
**NT3** sesamum indicum  
**NT3** solanum  
**NT4** solanum tuberosum  
**NT3** spinach
- NT3** sunflowers  
**NT3** sweet gums  
**NT3** sycamores  
**NT3** tea plants  
**NT3** willows  
**NT3** yams  
**NT1** medicinal plants  
**NT2** aloe  
**NT2** castor  
**NT2** digitalis  
**NT2** papaver somniferum  
**NT1** ornamental plants  
**NT1** phytoplankton  
**NT1** pinophyta  
**NT2** conifers  
**NT3** cedars  
**NT3** firs  
**NT3** hemlocks  
**NT3** larches  
**NT3** pines  
**NT3** spruces  
**NT1** preferred species  
**NT1** seaweeds  
**NT2** fucus  
**NT2** laminaria  
**NT1** shrubs  
**NT2** jatropa  
**NT2** jojoba  
**NT1** transgenic plants  
**NT1** trees  
**NT2** beech trees  
**NT2** birches  
**NT2** cacao trees  
**NT2** cedars  
**NT2** chestnut trees  
**NT2** coconut palms  
**NT2** deciduous trees  
**NT2** eucalyptuses  
**NT2** firs  
**NT2** fruit trees  
**NT2** locust trees  
**NT2** mangroves  
**NT2** maples  
**NT2** mesquite  
**NT2** oaks  
**NT2** oil palms  
**NT2** olive trees  
**NT2** pecan trees  
**NT2** pines  
**NT2** poplars  
**NT3** aspens  
**NT3** cottonwoods  
**NT2** rubber trees  
**NT3** guayule  
**NT3** hevea  
**NT2** spruces  
**NT2** sweet gums  
**NT2** sycamores  
**NT2** willows  
**NT1** vegetables  
**NT2** beans  
**NT3** mungbeans  
**NT2** beets  
**NT3** sugar beets  
**NT2** brassica  
**NT3** kale  
**NT2** carrots  
**NT2** cucumbers  
**NT2** garlic  
**NT2** lettuce  
**NT2** onions  
**NT3** allium cepa  
**NT2** peas  
**NT2** peppers  
**NT2** potatoes  
**NT2** radishes  
**NT2** soybeans  
**NT2** spinach  
**NT2** yams

**NT1** weeds  
*RT* agriculture  
*RT* alkaloids  
*RT* aquatic organisms  
*RT* biological extinction  
*RT* biological materials  
*RT* biology  
*RT* biomass  
*RT* botany  
*RT* buds  
*RT* bulbs  
*RT* canopies  
*RT* chlorophyll  
*RT* endangered species  
*RT* essential oils  
*RT* fertilizers  
*RT* flowers  
*RT* fruits  
*RT* ground cover  
*RT* interception  
*RT* leaves  
*RT* plant growth  
*RT* plant sap  
*RT* plant stems  
*RT* rangelands  
*RT* renewable energy sources  
*RT* revegetation  
*RT* roots  
*RT* seedlings  
*RT* seeds  
*RT* soils  
*RT* species diversity  
*RT* sprouting  
*RT* stomata  
*RT* symbiosis  
*RT* throughfall  
*RT* translocation  
*RT* transpiration  
*RT* tubers  
*RT* vegetative propagation

**plants (industrial)**

USE industrial plants

**plants (pilot)**

USE pilot plants

**plants (power)**

USE power plants

**PLAQUE FORMATION**

*INIS: 1978-04-21; ETDE: 1978-07-06*

*RT* bacteriophages  
*RT* bioassay  
*RT* clone cells  
*RT* viruses

**PLASMA**

**NT1** ambiplasma  
**NT1** cold plasma  
**NT1** collisional plasma  
**NT1** collisionless plasma  
**NT1** dusty plasma  
**NT1** equilibrium plasma  
**NT1** fissioning plasma  
**NT1** high-beta plasma  
**NT1** homogeneous plasma  
**NT1** hot plasma  
**NT1** inhomogeneous plasma  
**NT1** laser-produced plasma  
**NT1** low-beta plasma  
**NT1** medium-beta plasma  
**NT1** non-equilibrium plasma  
**NT1** optically thick plasma  
**NT1** optically thin plasma  
**NT1** quantum plasma  
**NT1** quiescent plasma  
**NT1** relativistic plasma  
**NT1** rotating plasma  
**NT1** solid-state plasma

**NT2** electron-hole droplets

**NT1** warm dense matter  
*RT* aspect ratio  
*RT* beam-plasma systems  
*RT* bohm criterion  
*RT* boltzmann-vasov equation  
*RT* bootstrap current  
*RT* breakeven  
*RT* compact torus  
*RT* distribution functions  
*RT* electric arcs  
*RT* gas blankets  
*RT* grad-shafranov equation  
*RT* guiding-center approximation  
*RT* holtmark theory  
*RT* impurities  
*RT* ionic composition  
*RT* ionized gases  
*RT* kinetic equations  
*RT* langmuir frequency  
*RT* loss cone  
*RT* magnetic field configurations  
*RT* magnetic field ripples  
*RT* magnetic islands  
*RT* magnetohydrodynamics  
*RT* mass balance  
*RT* neoclassical transport theory  
*RT* non-inductive current drive  
*RT* pinch effect  
*RT* plasma acceleration  
*RT* plasma confinement  
*RT* plasma density  
*RT* plasma diagnostics  
*RT* plasma diamagnetism  
*RT* plasma drift  
*RT* plasma eaters  
*RT* plasma expansion  
*RT* plasma filament  
*RT* plasma focus  
*RT* plasma heating  
*RT* plasma impurities  
*RT* plasma instability  
*RT* plasma production  
*RT* plasma radial profiles  
*RT* plasma rings  
*RT* plasma scrape-off layer  
*RT* plasma simulation  
*RT* plasma waves  
*RT* plasmoids  
*RT* sawtooth oscillations  
*RT* solar wind  
*RT* spitzer theory  
*RT* voigt effect  
*RT* wall effects

**plasma (blood)**

USE blood plasma

**plasma (quark)**

*INIS: 2000-04-12; ETDE: 1983-09-15*

USE quark matter

**PLASMA ACCELERATION**

**BT1** acceleration  
*RT* plasma  
*RT* plasma guns  
*RT* plasma jets

**plasma accelerators**

USE plasma guns

**PLASMA ARC SPRAYING**

**BT1** plasma technology  
**\*BT1** spray coating

**PLASMA ARC WELDING**

**\*BT1** arc welding  
**BT1** plasma technology

**PLASMA BEAM INJECTION**

**BT1** beam injection

**PLASMA BETATRONS**

*UF* budker accelerators  
**\*BT1** collective accelerators  
*RT* betatrons

**PLASMA CELLS**

*UF* plasmocytes  
**\*BT1** connective tissue cells  
*RT* bone marrow  
*RT* lymphocytes

**PLASMA CENTRIFUGES**

*INIS: 1985-07-23; ETDE: 1989-09-15*

*UF* vacuum arc centrifuges  
**\*BT1** centrifuges  
*RT* isotope separation

**PLASMA CHEMISTRY**

2018-11-28

*Plasma chemistry is a branch of physical chemistry that studies chemical and physical processes and reactions in low-temperature plasma as well as the basics of plasma chemical technology.*

**\*BT1** physical chemistry  
*RT* plasma technology

**plasma clearance**

USE blood-plasma clearance

**PLASMA CONFINEMENT**

1996-04-16

(Prior to January 1983 this concept was indexed by CONFINEMENT.)

**BT1** confinement  
**NT1** inertial confinement  
**NT1** magnetic confinement  
**NT2** h-mode plasma confinement  
**NT2** l-mode plasma confinement  
*RT* confinement time  
*RT* gas blankets  
*RT* limiters  
*RT* magnetic surfaces  
*RT* marfe  
*RT* mass balance  
*RT* particle losses  
*RT* plasma  
*RT* plasma disruption  
*RT* plateau regime  
*RT* sawtooth oscillations  
*RT* thermal barriers  
*RT* tritium recovery

**PLASMA CORE ASSEMBLY**

*INIS: 1977-04-07; ETDE: 1975-08-19*

*LANL, Los Alamos, New Mexico, USA. Shut down in 1987.*

*UF* lasl cold critical assembly

*UF* pca-lasl facility

**\*BT1** gas fueled reactors

**\*BT1** zero power reactors

**plasma currents**

*ETDE: 2002-04-26*

USE electric currents

**PLASMA DENSITY**

*UF* density (plasma)  
*RT* debye length  
*RT* lawson criterion  
*RT* plasma  
*RT* plasma expansion  
*RT* plasma focus

**PLASMA DIAGNOSTICS**

*UF* diagnostics (fusion)  
*RT* limiters  
*RT* neutral particle analyzers  
*RT* plasma  
*RT* plasma eaters  
*RT* sonic probes

**PLASMA DIAMAGNETISM**

- \*BT1 diamagnetism
- RT plasma

**plasma diodes**

- USE thermionic diodes

**PLASMA DISRUPTION**

1983-09-06

- RT confinement time
- RT nonlinear problems
- RT particle losses
- RT plasma confinement
- RT plasma macroinstabilities
- RT sawtooth oscillations
- RT tearing instability
- RT tokamak devices

**PLASMA DRIFT**

- UF drift (plasma)
- RT ambipolar diffusion
- RT drift instability
- RT plasma
- RT plasma expansion
- RT plasma fluid equations

**PLASMA EATERS**

- \*BT1 electric probes
- \*BT1 flowmeters
- RT electron density
- RT flow rate
- RT plasma
- RT plasma diagnostics

**plasma erosion opening switches**

INIS: 1993-11-09; ETDE: 2002-04-26

- USE plasma switches

**PLASMA EXPANSION**

- BT1 expansion
- RT plasma
- RT plasma density
- RT plasma drift
- RT plasma instability

**PLASMA FILAMENT**

- UF filament (plasma)
- RT pinch effect
- RT plasma
- RT plasma focus
- RT plasma jets

**PLASMA FLUID EQUATIONS**

INIS: 1988-11-16; ETDE: 1988-12-05

- UF fluid equations (plasma)
- \*BT1 boltzmann-vlasov equation
- RT magnetohydrodynamics
- RT moments method
- RT plasma drift
- RT plasma simulation

**PLASMA FOCUS**

- RT pinch effect
- RT plasma
- RT plasma density
- RT plasma filament
- RT plasma focus devices
- RT plasma guns

**PLASMA FOCUS DEVICES**

1999-07-26

- \*BT1 open plasma devices
- NT1 pf-1000 device
- NT1 pf-3 device
- RT plasma focus

**plasma frequency**

- USE langmuir frequency

**PLASMA FURNACES**

- BT1 furnaces
- RT arc furnaces

- RT plasma technology

**PLASMA GUNS**

- UF guns (plasma)
- UF plasma accelerators
- RT impact fusion drivers
- RT plasma acceleration
- RT plasma focus
- RT plasma jets
- RT plasma rings

**PLASMA HEATING**

- BT1 heating
- NT1 adiabatic compression heating
- NT1 beam injection heating
- NT1 high-frequency heating
- NT2 ecr heating
- NT2 icr heating
- NT2 lower hybrid heating
- NT2 magnetic-pumping heating
- NT3 acoustic heating
- NT3 collisional heating
- NT3 transit-time magnetic pumping
- NT1 joule heating
- NT2 current-drive heating
- NT1 laser-radiation heating
- NT1 shock heating
- NT1 turbulent heating
- RT bernstein mode
- RT microwave heating
- RT mode conversion
- RT plasma
- RT plasma potential
- RT plasma production
- RT thermonuclear devices

**PLASMA IMPURITIES**

INIS: 1995-07-03; ETDE: 1990-05-16

- BT1 impurities
- RT divertors
- RT limiters
- RT particle influx
- RT plasma
- RT plasma scrape-off layer
- RT wall effects

**PLASMA INSTABILITY**

- BT1 instability
- NT1 absolute instabilities
- NT1 convective instabilities
- NT1 decay instability
- NT1 explosive instability
- NT1 gravitational instability
- NT1 plasma macroinstabilities
- NT2 ballooning instability
- NT2 edge localized modes
- NT2 fishbone instability
- NT2 flute instability
- NT2 helical instability
- NT2 helmholtz instability
- NT2 kink instability
- NT2 parametric instabilities
- NT2 sausage instability
- NT2 tearing instability
- NT2 tilting instability
- NT2 trapped-particle instability
- NT2 whistler instability
- NT1 plasma microinstabilities
- NT2 bump-in-tail instability
- NT2 cyclotron instability
- NT2 drift instability
- NT2 hose instability
- NT2 ion wave instability
- NT2 loss cone instability
- NT2 negative mass instability
- NT2 two-stream instability
- RT dispersion relations
- RT instability growth rates
- RT marfe
- RT mercier criterion

- RT mhd equilibrium
- RT negative mass effect
- RT nonlinear problems
- RT plasma
- RT plasma expansion
- RT suydam criterion

**PLASMA ION SOURCES**

2018-02-26

- BT1 ion sources
- NT1 arc-discharge ion sources
- NT2 vacuum-arc ion sources
- NT3 mevva ion sources
- NT1 glow-discharge ion sources
- NT1 magnetron ion sources
- NT1 microwave ion sources
- NT1 multi-cusp ion sources
- NT1 penning ion sources
- NT1 plasmatron ion sources
- NT2 duoplasmatrons
- NT2 triplasmatrons
- NT1 rf ion sources
- RT plasma technology

**PLASMA JETS**

- RT plasma acceleration
- RT plasma filament
- RT plasma guns

**plasma lens**

INIS: 1984-04-04; ETDE: 2002-04-26

- USE electromagnetic lenses

**PLASMA MACROINSTABILITIES**

- UF mhd instabilities (plasma)
- \*BT1 plasma instability
- NT1 ballooning instability
- NT1 edge localized modes
- NT1 fishbone instability
- NT1 flute instability
- NT1 helical instability
- NT1 helmholtz instability
- NT1 kink instability
- NT1 parametric instabilities
- NT1 sausage instability
- NT1 tearing instability
- NT1 tilting instability
- NT1 trapped-particle instability
- NT1 whistler instability
- RT decay instability
- RT plasma disruption
- RT rayleigh-taylor instability

**PLASMA MICROINSTABILITIES**

- \*BT1 plasma instability
- NT1 bump-in-tail instability
- NT1 cyclotron instability
- NT1 drift instability
- NT1 hose instability
- NT1 ion wave instability
- NT1 loss cone instability
- NT1 negative mass instability
- NT1 two-stream instability
- RT decay instability

**plasma opening switches**

INIS: 1986-01-21; ETDE: 2002-06-13

- USE plasma switches

**plasma oscillations**

- USE plasma waves

**PLASMA POTENTIAL**

INIS: 1988-11-16; ETDE: 1988-12-05

The electrostatic potential of a plasma along a magnetic field line.

- BT1 electric potential
- RT charge exchange
- RT magnetic mirror configurations
- RT magnetic mirrors
- RT plasma heating

**PLASMA PRESSURE**

- UF *pressure (plasma)*  
RT *beta ratio*

**PLASMA PRODUCTION**

- UF *production (plasma)*  
RT *high-frequency discharges*  
RT *ionization*  
RT *laser-produced plasma*  
RT *plasma*  
RT *plasma heating*  
RT *thermonuclear devices*

**PLASMA RADIAL PROFILES**

- INIS: 1989-09-14; ETDE: 1989-10-16  
UF *radial profiles (plasma)*  
RT *magnetic flux coordinates*  
RT *magnetic surfaces*  
RT *plasma*  
RT *spatial distribution*  
RT *stellarators*  
RT *tokamak devices*

**PLASMA RINGS**

- INIS: 1984-02-22; ETDE: 1984-03-06  
RT *compact torus*  
RT *plasma*  
RT *plasma guns*

**PLASMA SCRAPE-OFF LAYER**

- 1983-09-06  
\*BT1 *boundary layers*  
RT *plasma*  
RT *plasma impurities*

**PLASMA SEEDING**

- 1976-10-29  
*Restricted to MHD.*  
UF *seeding (plasma)*  
RT *ionization*  
RT *ionization potential*  
RT *mhd channels*  
RT *mhd generators*  
RT *seed recovery*  
RT *seed-slag interactions*  
RT *spent seed*

**PLASMA SHEATH**

- RT *boundary layers*  
RT *marfe*  
RT *reentry*

**PLASMA SHEET**

- 1999-04-28  
\*BT1 *earth magnetosphere*  
RT *magnetotail*

**PLASMA SIMULATION**

- UF *models (plasma)*  
BT1 *simulation*  
RT *functional models*  
RT *plasma*  
RT *plasma fluid equations*

***plasma substitutes***

- INIS: 2000-04-12; ETDE: 1981-04-20  
USE *blood substitutes*

**PLASMA SURFACE WAVES**

- 2001-01-08  
UF *surface waves (plasma)*  
BT1 *plasma waves*  
RT *boundary layers*  
RT *hydromagnetic waves*  
RT *wave propagation*

**PLASMA SWITCHES**

- INIS: 1986-01-21; ETDE: 1983-04-28  
*Switches employing a current-conducting plasma for operation.*  
UF *peos*  
UF *plasma erosion opening switches*

- UF *plasma opening switches*  
UF *reflex switches*  
\*BT1 *switches*  
RT *plasma technology*  
RT *pulse generators*  
RT *pulse techniques*

**PLASMA TECHNOLOGY**

- 2018-11-28  
NT1 *plasma arc spraying*  
NT1 *plasma arc welding*  
RT *electric discharges*  
RT *plasma chemistry*  
RT *plasma furnaces*  
RT *plasma ion sources*  
RT *plasma switches*  
RT *plasmotrons*  
RT *surface finishing*

***plasma temperature***

- INIS: 1984-04-04; ETDE: 2002-04-26  
USE *electron temperature*  
USE *ion temperature*

***plasma-wall interactions***

- INIS: 1984-04-04; ETDE: 2002-04-26  
USE *wall effects*

**PLASMA WAVES**

- UF *electrostatic waves*  
UF *langmuir oscillations*  
UF *oscillations (plasma)*  
UF *plasma oscillations*  
SF *tonks-datner resonance*  
NT1 *electron plasma waves*  
NT1 *ion waves*  
NT2 *ion acoustic waves*  
NT2 *ion plasma waves*  
NT1 *plasma surface waves*  
RT *alfven waves*  
RT *beat wave accelerators*  
RT *decay instability*  
RT *dispersion relations*  
RT *frequency mixing*  
RT *harmonics*  
RT *hydromagnetic waves*  
RT *landau damping*  
RT *normal-mode analysis*  
RT *oscillation modes*  
RT *plasma*  
RT *plasmons*  
RT *tonks-langmuir theory*  
RT *wakefield accelerators*  
RT *whistler instability*

**PLASMAPAUSE**

- 1999-04-28  
\*BT1 *earth magnetosphere*  
RT *boundary layers*  
RT *international magnetospheric study*  
RT *loss cone*  
RT *magnetotail*  
RT *plasmaspere*

**PLASMASPHERE**

- 1999-04-28  
\*BT1 *earth magnetosphere*  
RT *international magnetospheric study*  
RT *magnetotail*  
RT *plasmopause*

**PLASMATRON ION SOURCES**

- 2018-02-26  
\*BT1 *plasma ion sources*  
NT1 *duoplasmatrons*  
NT1 *triplasmatrons*

**PLASMATRONS**

- BT1 *electron tubes*  
RT *plasma technology*

**PLASMIDS**

- INIS: 1997-06-17; ETDE: 1977-12-22  
UF *paragenes*  
BT1 *cell constituents*  
RT *cytoplasm*  
RT *genes*  
RT *genetics*  
RT *transposons*

***plasmin***

- INIS: 1993-08-26; ETDE: 1981-01-12  
USE *fibrinolysin*

**PLASMINOGEN**

- INIS: 1984-05-24; ETDE: 1981-04-20  
\*BT1 *blood coagulation factors*  
\*BT1 *fibrinolytic agents*

***plasmocytes***

- USE *plasma cells*

**PLASMODIUM**

- \*BT1 *sporozoa*  
RT *malaria*

**PLASMOIDS**

- RT *plasma*

**PLASMONS**

- BT1 *quasi particles*  
RT *plasma waves*  
RT *solid-state plasma*

***plaster of paris***

- USE *gypsum cements*

**PLASTIC FOAMS**

- \*BT1 *foams*  
\*BT1 *organic polymers*

***plastic properties***

- USE *plasticity*

***plastic scintillation counters***

- USE *plastic scintillation detectors*

**PLASTIC SCINTILLATION DETECTORS**

- UF *plastic scintillation counters*  
\*BT1 *solid scintillation detectors*  
RT *plastic scintillators*

**PLASTIC SCINTILLATORS**

- BT1 *phosphors*  
RT *anthracene*  
RT *plastic scintillation detectors*  
RT *terphenyls*

**PLASTIC SURGERY**

- \*BT1 *surgery*  
RT *transplants*

**PLASTICITY**

- UF *plastic properties*  
BT1 *mechanical properties*  
RT *creep*  
RT *deformation*  
RT *ductility*  
RT *flow stress*  
RT *thixotropy*

**PLASTICIZERS**

- A chemical such as castor oil or linseed oil added to rubbers, resins, or other material to impart flexibility, workability, or stretchability.*  
RT *linseed oil*  
RT *organic polymers*  
RT *rubbers*



**PLASTICS**

1996-08-05

(Until July 1994 this concept was indexed by ORGANIC POLYMERS.)

*UF laminac*

\*BT1 organic polymers

\*BT1 petrochemicals

\*BT1 synthetic materials

**NT1** aramids**NT1** bakelite**NT1** formvar**NT1** lucite**NT1** mylar**NT1** nylon**NT1** perspex**NT1** plexiglas**NT1** polystyrene**NT1** polyurethanes**NT2** halthane**NT1** reinforced plastics**NT1** tedlar**NT1** teflon**NT1** thermoplastics*RT* concrete-plastic composites*RT* plastics industry**PLASTICS INDUSTRY***INIS: 2000-04-12; ETDE: 1978-11-14*

BT1 industry

*RT* plastics**PLASTOQUINONE***INIS: 2000-04-12; ETDE: 1981-07-18*

\*BT1 benzoquinones

*RT* photosynthesis**PLATE TECTONICS***INIS: 2000-04-12; ETDE: 1976-08-04**Global tectonics based on an earth model characterized by a small number (10-25) of large, broad, thick plates (blocks composed of areas of both continental and oceanic crust and mantle) each of which "floats" on some viscous underlayer in the mantle and moves more or less independently of the others.*

BT1 tectonics

*RT* earth crust*RT* gondwana*RT* paleomagnetism*RT* sea-floor spreading*RT* subduction zones**PLATEAU REGIME***INIS: 1982-11-30; ETDE: 1980-04-14**The collision frequency regime characterized by an effective Coulomb scattering rate equal to or greater than the poloidal transit frequency, but a mean free path less than the connection length. In this regime the transport coefficients are independent of collision frequency.**RT* neoclassical transport theory*RT* plasma confinement*RT* tokamak devices*RT* trapping**PLATES***Thicker than sheets or foils.**RT* foils*RT* prismatic configuration*RT* rectangular configuration*RT* shape*RT* sheets*RT* slabs**plates (fuel)**

USE fuel plates

**platform mounted nuclear plant**

USE offshore nuclear power plants

**PLATING***For the process only.*

\*BT1 surface coating

**NT1** electroplating**NT1** vapor plating*RT* cladding*RT* rolling**plating solutions***INIS: 1992-04-02; ETDE: 1986-01-24*

USE process solutions

**PLATINUM**

\*BT1 platinum metals

**PLATINUM 166**

2009-04-06

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 microseconds living radioisotopes

\*BT1 platinum isotopes

**PLATINUM 167**

2009-04-06

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 microseconds living radioisotopes

\*BT1 platinum isotopes

**PLATINUM 168***INIS: 1986-05-12; ETDE: 1986-07-03*

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 platinum isotopes

**PLATINUM 169***INIS: 1986-05-12; ETDE: 1986-07-03*

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 platinum isotopes

**PLATINUM 170***INIS: 1986-05-12; ETDE: 1984-05-08*

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 platinum isotopes

**PLATINUM 171***INIS: 1986-05-12; ETDE: 1982-03-10*

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 platinum isotopes

**PLATINUM 172***INIS: 1985-06-07; ETDE: 1982-03-10*

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 platinum isotopes

**PLATINUM 173**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 platinum isotopes

**PLATINUM 174**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 platinum isotopes

**PLATINUM 175**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 platinum isotopes

\*BT1 seconds living radioisotopes

**PLATINUM 176**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 platinum isotopes

\*BT1 seconds living radioisotopes

**PLATINUM 177**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 platinum isotopes

\*BT1 seconds living radioisotopes

**PLATINUM 178**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 platinum isotopes

\*BT1 seconds living radioisotopes

**PLATINUM 179**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 platinum isotopes

\*BT1 seconds living radioisotopes

**PLATINUM 180**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 platinum isotopes

\*BT1 seconds living radioisotopes

**PLATINUM 181**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 platinum isotopes

\*BT1 seconds living radioisotopes

**PLATINUM 182**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 platinum isotopes

**PLATINUM 183**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 platinum isotopes

\*BT1 seconds living radioisotopes

**PLATINUM 184**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 185**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 186**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 187**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 188**

- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 189**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 190**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 years living radioisotopes

**PLATINUM 190 TARGET**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
BT1 targets

**PLATINUM 191**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 192**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 192 TARGET**

*INIS: 1978-01-13; ETDE: 1977-06-02*  
BT1 targets

**PLATINUM 193**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 platinum isotopes
- \*BT1 years living radioisotopes

**PLATINUM 194**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 194 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**PLATINUM 195**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 195 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**PLATINUM 196**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 196 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**PLATINUM 197**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 platinum isotopes

**PLATINUM 198**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 198 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**PLATINUM 199**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 200**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 201**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei

- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 202**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 203**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 204**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 205**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 206**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 207**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 208**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM ADDITIONS**

*Alloys containing not more than 1% Pt are listed here.*

*RT* platinum alloys

**PLATINUM ALLOYS**

*Alloys containing more than 1% Pt.*

\*BT1 platinum metal alloys

NT1 platinum base alloys

*RT* platinum additions

**PLATINUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1985-08-09*

\*BT1 arsenides

\*BT1 platinum compounds

**PLATINUM BASE ALLOYS**

\*BT1 platinum alloys

**PLATINUM BROMIDES**

\*BT1 bromides

\*BT1 platinum halides

**PLATINUM CARBIDES**

\*BT1 carbides

\*BT1 platinum compounds

**PLATINUM CHLORIDES**

\*BT1 chlorides

\*BT1 platinum halides

**PLATINUM COMPLEXES**

\*BT1 transition element complexes

**PLATINUM COMPOUNDS**

*1997-06-19*

BT1 transition element compounds

NT1 platinum arsenides

NT1 platinum carbides

NT1 platinum halides

NT2 platinum bromides

NT2 platinum chlorides

NT2 platinum fluorides

NT2 platinum iodides

NT1 platinum hydrides

NT1 platinum hydroxides

NT1 platinum nitrides  
 NT1 platinum oxides  
 NT1 platinum phosphides  
 NT1 platinum silicides  
 NT1 platinum sulfates  
 NT1 platinum sulfides  
 NT1 platinum tellurides

**PLATINUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 platinum halides

**PLATINUM HALIDES**

2012-07-25

\*BT1 halides  
 \*BT1 platinum compounds  
 NT1 platinum bromides  
 NT1 platinum chlorides  
 NT1 platinum fluorides  
 NT1 platinum iodides

**PLATINUM HYDRIDES**

1979-11-02

\*BT1 hydrides  
 \*BT1 platinum compounds

**PLATINUM HYDROXIDES**

INIS: 2000-04-12; ETDE: 1979-07-24

\*BT1 hydroxides  
 \*BT1 platinum compounds

**PLATINUM IODIDES**

\*BT1 iodides  
 \*BT1 platinum halides

**PLATINUM IONS**

\*BT1 ions

**PLATINUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 platinum 166  
 NT1 platinum 167  
 NT1 platinum 168  
 NT1 platinum 169  
 NT1 platinum 170  
 NT1 platinum 171  
 NT1 platinum 172  
 NT1 platinum 173  
 NT1 platinum 174  
 NT1 platinum 175  
 NT1 platinum 176  
 NT1 platinum 177  
 NT1 platinum 178  
 NT1 platinum 179  
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 NT1 platinum 194  
 NT1 platinum 195  
 NT1 platinum 196  
 NT1 platinum 197  
 NT1 platinum 198  
 NT1 platinum 199  
 NT1 platinum 200  
 NT1 platinum 201  
 NT1 platinum 202  
 NT1 platinum 203  
 NT1 platinum 204  
 NT1 platinum 205

NT1 platinum 206  
 NT1 platinum 207  
 NT1 platinum 208

**PLATINUM METAL ALLOYS**

1995-02-27

\*BT1 transition element alloys  
 NT1 iridium alloys  
 NT2 iridium additions  
 NT2 iridium base alloys  
 NT1 osmium alloys  
 NT2 osmium additions  
 NT2 osmium base alloys  
 NT1 palladium alloys  
 NT2 palau  
 NT2 palladium base alloys  
 NT1 platinum alloys  
 NT2 platinum base alloys  
 NT1 rhodium alloys  
 NT2 rhodium additions  
 NT2 rhodium base alloys  
 NT1 ruthenium alloys  
 NT2 ruthenium additions  
 NT2 ruthenium base alloys

**PLATINUM METALS**

\*BT1 transition elements  
 NT1 iridium  
 NT1 osmium  
 NT1 palladium  
 NT1 platinum  
 NT1 rhodium  
 NT1 ruthenium

**PLATINUM NITRIDES**

2010-02-24

\*BT1 nitrides  
 \*BT1 platinum compounds

**PLATINUM OXIDES**

\*BT1 oxides  
 \*BT1 platinum compounds

**PLATINUM PHOSPHIDES**

INIS: 1991-09-16; ETDE: 1977-03-04

\*BT1 phosphides  
 \*BT1 platinum compounds

**PLATINUM SILICIDES**

INIS: 1978-07-17; ETDE: 1978-08-07

\*BT1 platinum compounds  
 \*BT1 silicides

**PLATINUM SULFATES**

INIS: 2000-04-12; ETDE: 1976-07-07

\*BT1 platinum compounds  
 \*BT1 sulfates

**PLATINUM SULFIDES**

\*BT1 platinum compounds  
 \*BT1 sulfides

**PLATINUM TELLURIDES**

INIS: 1985-12-11; ETDE: 1976-06-07

\*BT1 platinum compounds  
 \*BT1 tellurides

**platr reactor**

USE prr reactor

**PLATYHELMINTHS**

UF cercaria  
 UF worms (flat)  
 SF helminths  
 \*BT1 invertebrates  
 NT1 cestodes  
 NT1 trematodes  
 NT2 fasciola  
 NT2 schistosoma  
 NT1 turbellaria  
 NT2 planaria

**PLBR REACTOR**

INIS: 1978-07-03; ETDE: 1977-08-24  
 USA. Joint ERDA-EPRI design project.  
 UF prototype large breeder reactor  
 \*BT1 Imfbr type reactors  
 \*BT1 power reactors

**pleasanton usa ntr reactor**

USE ntr reactor

**PLEIADE DEVICE**

\*BT1 magnetic mirrors

**PLEISTOCENE EPOCH**

INIS: 1992-04-14; ETDE: 1977-10-20

\*BT1 quaternary period  
 RT geologic history  
 RT glaciers

**PLEKTONS**

2013-10-24

\*BT1 postulated particles  
 RT anyons

**plesiotherapy**

USE radiotherapy

**PLEURA**

\*BT1 serous membranes  
 RT chest  
 RT lungs  
 RT mediastinum

**PLEXIGLAS**

\*BT1 plastics  
 \*BT1 polyacrylates  
 RT pmma

**PLIOCENE EPOCH**

INIS: 1992-04-14; ETDE: 1977-10-20

\*BT1 tertiary period  
 RT geologic history

**PLOIDY**

NT1 aneuploidy  
 NT1 diploidy  
 NT1 haploidy  
 NT1 polyploidy  
 RT genome mutations

**PLOTTERS**

\*BT1 computer-graphics devices  
 RT computer graphics  
 RT display devices

**plows (coal)**

INIS: 2000-04-12; ETDE: 1979-06-06

USE coal plows

**PLOWSHARE PROJECT**

1996-07-23

(The UF terms below that refer to events have been valid ETDE descriptors.)

UF bronco event  
 UF chariot event  
 UF hardhat event  
 UF project plowshare  
 UF sloop event  
 NT1 gasbuggy event  
 NT1 gnome event  
 NT1 rio blanco event  
 NT1 sedan event  
 RT cratering explosions  
 RT nuclear excavation  
 RT nuclear explosions  
 RT surface explosions  
 RT underground explosions

**PLT DEVICES**

INIS: 1975-10-23; ETDE: 1979-04-11

UF princeton large torus  
 \*BT1 tokamak devices

**PLUGGING**

INIS: 1992-04-14; ETDE: 1977-01-10

RT cementing  
RT grouting  
RT oil wells  
RT permeability  
RT plugging agents  
RT reservoir rock

**PLUGGING AGENTS**

INIS: 1992-04-14; ETDE: 1983-03-23

RT cements  
RT gels  
RT oil wells  
RT plugging  
RT polymers  
RT reservoir rock

**plugs**

USE closures

**plum brook nasa-tr**

USE pbr reactor

**plum brook reactor facility**

USE pbr reactor

**PLUMBATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 lead compounds  
BT1 oxygen compounds  
RT lead oxides

**PLUMBBOB PROJECT**

UF boltzmann event  
UF project plumbbob  
\*BT1 nuclear explosions  
RT nuclear weapons

**PLUMBING**

INIS: 2000-04-12; ETDE: 1979-11-07

RT pipe fittings  
RT pipe joints  
RT pipes  
RT water faucets  
RT water supply

**PLUMES**

SF emissions (industrial)  
RT air pollution  
RT emissions tax  
RT gaseous wastes  
RT liquid wastes  
RT smokes  
RT stack disposal  
RT stacks  
RT thermal pollution  
RT waste heat  
RT water pollution

**PLUMS**

\*BT1 fruits  
RT rosaceae

**plunger method**

INIS: 1984-01-18; ETDE: 1984-02-10

*Method for the determination of lifetimes of nuclear levels.*

USE charge plunger method

**plunger pumps**

INIS: 2000-04-12; ETDE: 1984-05-10

USE rod pumps

**PLURONICS**

\*BT1 detergents  
\*BT1 polyethylene glycols

**plus-minus ratio**

INIS: 2000-04-12; ETDE: 1979-02-05

USE minus-plus ratio

**PLUTO PLANET**

BT1 planets

**PLUTO REACTOR**

UF harwell pluto reactor  
\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 materials testing reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors

**PLUTONIC ROCKS**

INIS: 1985-10-23; ETDE: 1980-08-12  
*Rocks formed at considerable depth by crystallization of magma or by chemical alteration.*

UF alkali gabbros  
UF intrusion (rock)  
UF intrusive rocks  
UF rock intrusion  
UF sedimentary intrusive rocks  
SF intrusion  
\*BT1 igneous rocks  
NT1 diorites  
NT1 gabbros  
NT2 anorthosites  
NT1 granites  
NT2 aplites  
NT2 granodiorites  
NT2 quartz monzonite  
NT1 pegmatites  
NT1 peridotites  
NT2 kimberlites  
NT1 syenites  
RT mineralization

**PLUTONIUM**

1996-01-24

UF dymac system  
UF dynamic materials accountability system  
\*BT1 actinides  
\*BT1 transuranium elements  
NT1 plutonium-alpha  
NT1 plutonium-beta  
NT1 plutonium-delta  
NT1 plutonium-epsilon  
NT1 plutonium-gamma  
RT nuclear fuels  
RT plutonium recycle

**PLUTONIUM 228**

INIS: 1992-09-23; ETDE: 1979-11-23

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 plutonium isotopes

**PLUTONIUM 229**

1994-04-11

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 plutonium isotopes  
\*BT1 seconds living radioisotopes

**PLUTONIUM 230**

INIS: 1990-12-05; ETDE: 1979-11-23

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 plutonium isotopes

**PLUTONIUM 231**

\*BT1 actinide nuclei

\*BT1 even-odd nuclei  
\*BT1 plutonium isotopes

**PLUTONIUM 232**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 plutonium isotopes

**PLUTONIUM 233**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 plutonium isotopes

**PLUTONIUM 234**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 hours living radioisotopes  
\*BT1 plutonium isotopes

**PLUTONIUM 235**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 plutonium isotopes  
\*BT1 spontaneous fission radioisotopes

**PLUTONIUM 235 TARGET**

ETDE: 1976-08-24

BT1 targets

**PLUTONIUM 236**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 magnesium 28 decay radioisotopes  
\*BT1 plutonium isotopes  
\*BT1 spontaneous fission radioisotopes  
\*BT1 years living radioisotopes

**PLUTONIUM 236 TARGET**

1977-11-02

BT1 targets

**PLUTONIUM 237**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 nanoseconds living radioisotopes  
\*BT1 plutonium isotopes  
\*BT1 spontaneous fission radioisotopes

**PLUTONIUM 237 TARGET**

INIS: 1977-01-25; ETDE: 1977-04-13

BT1 targets

**PLUTONIUM 238**

1997-02-07

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 plutonium isotopes  
\*BT1 silicon 32 decay radioisotopes  
\*BT1 spontaneous fission radioisotopes  
\*BT1 years living radioisotopes

**PLUTONIUM 238 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 239**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**PLUTONIUM 239 TARGET**

ETDE: 1976-07-09

- BT1 targets

**PLUTONIUM 240**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**PLUTONIUM 240 TARGET**

ETDE: 1976-07-09

- BT1 targets

**PLUTONIUM 241**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**PLUTONIUM 241 TARGET**

ETDE: 1976-07-09

- BT1 targets

**PLUTONIUM 242**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**PLUTONIUM 242 TARGET**

ETDE: 1976-07-09

- BT1 targets

**PLUTONIUM 243**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes

**PLUTONIUM 243 TARGET**

INIS: 1977-11-21; ETDE: 1978-03-08

- BT1 targets

**PLUTONIUM 244**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**PLUTONIUM 244 TARGET**

INIS: 1976-07-06; ETDE: 1976-08-24

- BT1 targets

**PLUTONIUM 245**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 plutonium isotopes

**PLUTONIUM 246**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes

- \*BT1 days living radioisotopes

- \*BT1 even-even nuclei

- \*BT1 plutonium isotopes

**PLUTONIUM 247**

INIS: 1985-03-15; ETDE: 1983-09-15

- \*BT1 actinide nuclei

- \*BT1 days living radioisotopes

- \*BT1 even-odd nuclei

- \*BT1 plutonium isotopes

**PLUTONIUM 248**

- \*BT1 actinide nuclei

- \*BT1 even-even nuclei

- \*BT1 plutonium isotopes

**PLUTONIUM 250**

- \*BT1 actinide nuclei

- \*BT1 even-even nuclei

- \*BT1 plutonium isotopes

**PLUTONIUM ADDITIONS**

Alloys containing not more than 1% Pu are listed here.

- RT plutonium alloys

**PLUTONIUM ALLOYS**

Alloys containing more than 1% Pu.

- \*BT1 actinide alloys

- NT1 plutonium base alloys

- RT plutonium additions

**PLUTONIUM-ALPHA**

- \*BT1 plutonium

**PLUTONIUM ARSENIDES**

INIS: 1979-02-21; ETDE: 1979-03-28

- \*BT1 arsenides

- \*BT1 plutonium compounds

**PLUTONIUM BASE ALLOYS**

- \*BT1 plutonium alloys

**PLUTONIUM-BETA**

- \*BT1 plutonium

**PLUTONIUM BORIDES**

- \*BT1 borides

- \*BT1 plutonium compounds

**PLUTONIUM BROMIDES**

1997-01-28

(From October 1996 to September 2007

PLUTONIUM COMPOUNDS + BROMIDES

was used for this concept.)

- \*BT1 bromides

- \*BT1 plutonium halides

**PLUTONIUM CARBIDES**

- \*BT1 carbides

- \*BT1 plutonium compounds

- RT mixed carbide fuels

**PLUTONIUM CARBONATES**

- \*BT1 carbonates

- \*BT1 plutonium compounds

**PLUTONIUM CHLORIDES**

- \*BT1 chlorides

- \*BT1 plutonium halides

**PLUTONIUM COMPLEXES**

- \*BT1 actinide complexes

- \*BT1 transuranium complexes

- NT1 plutonyl complexes

**PLUTONIUM COMPOUNDS**

1996-11-13

- BT1 actinide compounds

- BT1 transuranium compounds

- NT1 plutonium arsenides

- NT1 plutonium borides

- NT1 plutonium carbides

- NT1 plutonium carbonates

- NT1 plutonium halides

- NT2 plutonium bromides

- NT2 plutonium chlorides

- NT2 plutonium fluorides

- NT2 plutonium iodides

- NT1 plutonium hydrides

- NT1 plutonium hydroxides

- NT1 plutonium nitrates

- NT1 plutonium nitrides

- NT1 plutonium oxides

- NT2 plutonium dioxide

- NT1 plutonium perchlorates

- NT1 plutonium peroxide

- NT1 plutonium phosphates

- NT1 plutonium phosphides

- NT1 plutonium selenides

- NT1 plutonium silicates

- NT1 plutonium sulfates

- NT1 plutonium sulfides

- NT1 plutonium tellurides

- NT1 plutonyl compounds

**PLUTONIUM-DELTA**

- \*BT1 plutonium

**PLUTONIUM DIOXIDE**

- \*BT1 plutonium oxides

**PLUTONIUM-EPSILON**

- \*BT1 plutonium

**PLUTONIUM FLUORIDES**

- \*BT1 fluorides

- \*BT1 plutonium halides

**PLUTONIUM-GAMMA**

- \*BT1 plutonium

**PLUTONIUM HALIDES**

2012-07-25

- \*BT1 halides

- \*BT1 plutonium compounds

- NT1 plutonium bromides

- NT1 plutonium chlorides

- NT1 plutonium fluorides

- NT1 plutonium iodides

**PLUTONIUM HYDRIDES**

- \*BT1 hydrides

- \*BT1 plutonium compounds

**PLUTONIUM HYDROXIDES**

- \*BT1 hydroxides

- \*BT1 plutonium compounds

**PLUTONIUM IODIDES**

- \*BT1 iodides

- \*BT1 plutonium halides

**PLUTONIUM IONS**

- \*BT1 ions

**PLUTONIUM ISOTOPES**

1999-07-16

- BT1 isotopes

- NT1 plutonium 228

- NT1 plutonium 229

- NT1 plutonium 230

- NT1 plutonium 231

- NT1 plutonium 232

- NT1 plutonium 233

- NT1 plutonium 234

- NT1 plutonium 235

- NT1 plutonium 236

- NT1 plutonium 237

- NT1 plutonium 238

- NT1 plutonium 239

- NT1 plutonium 240

- NT1 plutonium 241

- NT1 plutonium 242

- NT1 plutonium 243

- NT1 plutonium 244

- NT1 plutonium 245

NT1 plutonium 246  
 NT1 plutonium 247  
 NT1 plutonium 248  
 NT1 plutonium 250

**PLUTONIUM NITRATES**

\*BT1 nitrates  
 \*BT1 plutonium compounds

**PLUTONIUM NITRIDES**

\*BT1 nitrides  
 \*BT1 plutonium compounds  
 RT mixed nitride fuels

**PLUTONIUM OXIDES**

\*BT1 oxides  
 \*BT1 plutonium compounds  
 NT1 plutonium dioxide

**PLUTONIUM PERCHLORATES**

1997-01-28

(From November 1996 to November 2007

PLUTONIUM COMPOUNDS + PERCHLORATES was used for this concept.)

\*BT1 perchlorates  
 \*BT1 plutonium compounds

**PLUTONIUM PEROXIDE**

INIS: 1997-01-28; ETDE: 1980-05-06

(From November 1996 to November 2007

PLUTONIUM COMPOUNDS + PEROXIDES was used for this concept. Prior to March 1991 the plural form was used by ETDE.)

\*BT1 peroxides  
 \*BT1 plutonium compounds

**PLUTONIUM PHOSPHATES**

\*BT1 phosphates  
 \*BT1 plutonium compounds

**PLUTONIUM PHOSPHIDES**

\*BT1 phosphides  
 \*BT1 plutonium compounds

**PLUTONIUM PRODUCTION****REACTORS**

\*BT1 production reactors  
 NT1 calder hall a-1 reactor  
 NT1 calder hall a-2 reactor  
 NT1 calder hall b-3 reactor  
 NT1 calder hall b-4 reactor  
 NT1 chapelcross-1 reactor  
 NT1 chapelcross-2 reactor  
 NT1 chapelcross-3 reactor  
 NT1 chapelcross-4 reactor  
 NT1 g-1 reactor  
 NT1 g-2 reactor  
 NT1 g-3 reactor  
 NT1 hanford production reactors  
 NT1 n-reactor  
 NT1 windscale production reactors

**PLUTONIUM REACTORS**

BT1 reactors  
 NT1 clementine reactor  
 NT1 ebr-1 reactor  
 NT1 hclwr type reactors  
 NT1 jatr reactor  
 NT1 lampre-1 reactor  
 NT1 masurca reactor  
 NT1 phenix reactor  
 NT1 prcf reactor  
 NT1 rapsodie reactor  
 NT1 sbr-1 reactor  
 NT1 sbr-2 reactor  
 NT1 sbr-5 reactor  
 NT1 sefor reactor  
 NT1 stacy reactor  
 NT1 superphenix reactor  
 NT1 tracy reactor  
 NT1 zeep reactor

NT1 zephyr reactor  
 RT beloyarsk-3 reactor  
 RT bn-350 reactor  
 RT clinch river breeder reactor  
 RT ebr-2 reactor  
 RT pfr reactor  
 RT sneak reactor  
 RT vera reactor  
 RT zebra reactor  
 RT zenith reactor

**PLUTONIUM RECYCLE**

Use of plutonium from reprocessed spent fuels in reload fuels.

\*BT1 closed fuel cycle  
 RT civex process  
 RT fuel cycle centers  
 RT plutonium

**plutonium recycle critical facility**

USE prcf reactor

**plutonium recycle test reactor**

USE prtr reactor

**PLUTONIUM SELENIDES**

INIS: 1979-02-21; ETDE: 1979-03-28

\*BT1 plutonium compounds  
 \*BT1 selenides

**PLUTONIUM SILICATES**

INIS: 1997-01-28; ETDE: 1984-09-05

(From November 1996 to November 2007 PLUTONIUM COMPOUNDS + SILICATES was used for this concept.)

\*BT1 plutonium compounds  
 \*BT1 silicates

**PLUTONIUM SULFATES**

\*BT1 plutonium compounds  
 \*BT1 sulfates

**PLUTONIUM SULFIDES**

\*BT1 plutonium compounds  
 \*BT1 sulfides

**PLUTONIUM TELLURIDES**

INIS: 1976-02-24; ETDE: 1976-04-19

\*BT1 plutonium compounds  
 \*BT1 tellurides

**PLUTONYL COMPLEXES**

1983-09-06

\*BT1 plutonium complexes  
 RT plutonyl compounds

**PLUTONYL COMPOUNDS**

\*BT1 plutonium compounds  
 RT plutonyl complexes

**plymouth pilgrim power reactor**

USE pilgrim-1 reactor

**PLZT**

INIS: 1984-04-25; ETDE: 1983-07-07

Lead lanthanum zirconate titanate.

\*BT1 lanthanum compounds  
 BT1 lead compounds  
 \*BT1 titanates  
 \*BT1 zirconates

**PM-2A REACTOR**

Camp Century, Greenland, Denmark.

UF camp century medium power plant 2a

UF portable medium power plant 2a

\*BT1 process heat reactors  
 \*BT1 pwr type reactors

**PM-3A REACTOR**

McMurdo Sound, Antarctica.

UF mcmurdo sound medium power plant

3a

UF portable medium power plant 3a

\*BT1 pwr type reactors

**PMMA**

INIS: 1981-02-27; ETDE: 1980-03-04

UF polymethylmethacrylates

\*BT1 polyacrylates  
 RT lucite  
 RT methacrylic acid esters  
 RT plexiglas

**pmr spectra**

INIS: 1984-04-04; ETDE: 2002-04-26

Proton Magnetic Resonance spectra.

USE nmr spectra  
 USE protons

**pna**

INIS: 2000-04-12; ETDE: 1978-07-05

Polynuclear aromatics.

USE polycyclic aromatic hydrocarbons

**PNC**

ETDE: 1975-09-11

The Power Reactor and Nuclear Fuel Development Corporation (PNC) was reorganized and renamed as the Japan Nuclear Cycle Development Institute (JNC) in October 1998.

UF power reactor and nuclear fuel development corporation

\*BT1 japanese organizations

**PNEUMATIC CONTROLLERS**

\*BT1 control equipment

**PNEUMATIC MOTORS**

INIS: 2000-04-12; ETDE: 1980-10-27

\*BT1 motors

**PNEUMATIC TRANSPORT**

1976-09-06

BT1 transport  
 RT pipelines  
 RT pneumatics  
 RT reaction product transport systems

**PNEUMATICS**

Pertaining to or operated by air or other gas.

\*BT1 fluid mechanics  
 RT hydraulics  
 RT pneumatic transport

**PNEUMOCOCCUS**

UF diplococcus pneumoniae

\*BT1 bacteria  
 RT pneumonia

**PNEUMOCONIOSES**

UF black lung disease

UF silicosis

\*BT1 respiratory system diseases

NT1 berylliosis

RT dusts

RT lungs

RT occupational diseases

**PNEUMONIA**

\*BT1 respiratory system diseases

NT1 bronchopneumonia

RT lungs

RT pneumococcus

**PNEUMONITIS**

RT inflammation

RT lungs

**PNICTIDES**

INIS: 1989-11-24; ETDE: 1976-09-14

NT1 antimonides

NT2 gallium antimonides

NT2 indium antimonides

NT1 arsenides

NT2 aluminium arsenides

NT2 americium arsenides  
 NT2 berkelium arsenides  
 NT2 boron arsenides  
 NT2 cadmium arsenides  
 NT2 californium arsenides  
 NT2 cerium arsenides  
 NT2 cobalt arsenides  
 NT2 copper arsenides  
 NT2 curium arsenides  
 NT2 europium arsenides  
 NT2 gadolinium arsenides  
 NT2 gallium arsenides  
 NT2 germanium arsenides  
 NT2 hafnium arsenides  
 NT2 indium arsenides  
 NT2 iron arsenides  
 NT2 lithium arsenides  
 NT2 magnesium arsenides  
 NT2 manganese arsenides  
 NT2 molybdenum arsenides  
 NT2 neptunium arsenides  
 NT2 nickel arsenides  
 NT2 niobium arsenides  
 NT2 palladium arsenides  
 NT2 platinum arsenides  
 NT2 plutonium arsenides  
 NT2 praseodymium arsenides  
 NT2 rhodium arsenides  
 NT2 ruthenium arsenides  
 NT2 samarium arsenides  
 NT2 silicon arsenides  
 NT2 silver arsenides  
 NT2 tantalum arsenides  
 NT2 tellurium arsenides  
 NT2 terbium arsenides  
 NT2 thorium arsenides  
 NT2 thulium arsenides  
 NT2 tin arsenides  
 NT2 titanium arsenides  
 NT2 uranium arsenides  
 NT2 vanadium arsenides  
 NT2 yttrium arsenides  
 NT2 zinc arsenides  
 NT2 zirconium arsenides  
 NT1 nitrides  
 NT2 aluminium nitrides  
 NT2 americium nitrides  
 NT2 argon nitrides  
 NT2 barium nitrides  
 NT2 berkelium nitrides  
 NT2 beryllium nitrides  
 NT2 boron nitrides  
 NT2 calcium nitrides  
 NT2 californium nitrides  
 NT2 carbon nitrides  
 NT2 cerium nitrides  
 NT2 cesium nitrides  
 NT2 chromium nitrides  
 NT2 copper nitrides  
 NT2 curium nitrides  
 NT2 dysprosium nitrides  
 NT2 erbium nitrides  
 NT2 europium nitrides  
 NT2 gadolinium nitrides  
 NT2 gallium nitrides  
 NT2 germanium nitrides  
 NT2 hafnium nitrides  
 NT2 holmium nitrides  
 NT2 indium nitrides  
 NT2 iridium nitrides  
 NT2 iron nitrides  
 NT2 lanthanum nitrides  
 NT2 lead nitrides  
 NT2 lithium nitrides  
 NT2 magnesium nitrides  
 NT2 manganese nitrides  
 NT2 molybdenum nitrides  
 NT2 neodymium nitrides  
 NT2 neptunium nitrides

NT2 nickel nitrides  
 NT2 niobium nitrides  
 NT2 osmium nitrides  
 NT2 palladium nitrides  
 NT2 phosphorus nitrides  
 NT2 platinum nitrides  
 NT2 plutonium nitrides  
 NT2 potassium nitrides  
 NT2 praseodymium nitrides  
 NT2 radium nitrides  
 NT2 rhenium nitrides  
 NT2 rhodium nitrides  
 NT2 ruthenium nitrides  
 NT2 samarium nitrides  
 NT2 scandium nitrides  
 NT2 silicon nitrides  
 NT2 silver nitrides  
 NT2 sodium nitrides  
 NT2 sulfur nitrides  
 NT2 tantalum nitrides  
 NT2 terbium nitrides  
 NT2 thorium nitrides  
 NT2 thulium nitrides  
 NT2 tin nitrides  
 NT2 titanium nitrides  
 NT2 tungsten nitrides  
 NT2 uranium nitrides  
 NT2 vanadium nitrides  
 NT2 ytterbium nitrides  
 NT2 yttrium nitrides  
 NT2 zinc nitrides  
 NT2 zirconium nitrides  
 NT1 phosphides  
 NT2 aluminium phosphides  
 NT2 americium phosphides  
 NT2 berkelium phosphides  
 NT2 beryllium phosphides  
 NT2 boron phosphides  
 NT2 cadmium phosphides  
 NT2 cerium phosphides  
 NT2 cobalt phosphides  
 NT2 copper phosphides  
 NT2 curium phosphides  
 NT2 dysprosium phosphides  
 NT2 erbium phosphides  
 NT2 europium phosphides  
 NT2 gadolinium phosphides  
 NT2 gallium phosphides  
 NT2 germanium phosphides  
 NT2 hafnium phosphides  
 NT2 holmium phosphides  
 NT2 indium phosphides  
 NT2 iron phosphides  
 NT2 lanthanum phosphides  
 NT2 lithium phosphides  
 NT2 manganese phosphides  
 NT2 molybdenum phosphides  
 NT2 neptunium phosphides  
 NT2 nickel phosphides  
 NT2 microbraz 50  
 NT2 niobium phosphides  
 NT2 osmium phosphides  
 NT2 palladium phosphides  
 NT2 platinum phosphides  
 NT2 plutonium phosphides  
 NT2 potassium phosphides  
 NT2 praseodymium phosphides  
 NT2 rhodium phosphides  
 NT2 ruthenium phosphides  
 NT2 samarium phosphides  
 NT2 scandium phosphides  
 NT2 silicon phosphides  
 NT2 sodium phosphides  
 NT2 tantalum phosphides  
 NT2 terbium phosphides  
 NT2 thorium phosphides  
 NT2 thulium phosphides  
 NT2 tin phosphides  
 NT2 titanium phosphides

NT2 tungsten phosphides  
 NT2 uranium phosphides  
 NT2 vanadium phosphides  
 NT2 ytterbium phosphides  
 NT2 yttrium phosphides  
 NT2 zinc phosphides  
 NT2 zirconium phosphides

**pnl**

*INIS: 2000-04-12; ETDE: 1982-09-10*

USE battelle pacific northwest laboratories

**pnl-cml reactor**

USE cml reactor

**pnl-prcf reactor**

USE prcf reactor

**PNPF REACTOR**

*US AEC, Piqua, Ohio, USA. Shut down in 1966.*

UF organic moderated reactor piqua

UF piqua nuclear power facility

UF piqua organic moderated reactor

\*BT1 enriched uranium reactors

\*BT1 omr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**PNPP-1 REACTOR**

*INIS: 1982-06-09; ETDE: 1982-07-08*

*Construction cancelled in 1986.*

UF bataan philippine power plant

UF philippine nuclear power plant-1

\*BT1 pwr type reactors

**PO RIVER**

*INIS: 1975-12-17; ETDE: 1976-08-24*

\*BT1 rivers

RT italy

**POCKELS CELL**

*INIS: 2000-04-12; ETDE: 1978-02-14*

*An electronically controllable light modulator or optical switch.*

RT liquid crystals

**pocket calculators**

*INIS: 1985-12-10; ETDE: 1978-11-14*

USE calculators

**pocket chambers**

USE condenser ionization chambers

**PODBIELNIAK CONTACTORS**

\*BT1 extraction apparatuses

RT centrifugation

RT solvent extraction

**podophyllic acid**

*1996-10-23*

*(Until October 1996 this was a valid descriptor.)*

USE hydroxy acids

**POHANG LIGHT SOURCE**

*2003-05-08*

\*BT1 synchrotron radiation sources

RT light sources

**POINCARÉ-BERTRAND FORMULA**

*1992-03-11*

RT integral calculus

RT transport theory

**POINCARÉ GROUPS**

\*BT1 lie groups

NT1 lorentz groups

RT lorentz transformations

**POINT BEACH-1 REACTOR**

*Nuclear Management Co., LLC, Two Creeks, Wisconsin, USA.*

UF wisconsin point beach-1 reactor  
\*BT1 pwr type reactors

**POINT BEACH-2 REACTOR**

*Nuclear Management Co., LLC, Two Creeks, Wisconsin, USA.*

UF wisconsin point beach-2 reactor  
\*BT1 pwr type reactors

**POINT CHARGE**

BT1 electric charges

**point contacts**

USE electric contacts

**POINT DEFECTS**

\*BT1 crystal defects

NT1 interstitials

NT2 i centers

NT1 vacancies

NT2 color centers

NT3 a centers

NT3 e centers

NT3 f centers

NT3 h centers

NT3 i centers

NT3 m centers

NT3 r centers

NT3 s centers

NT3 u centers

NT3 v centers

NT3 x centers

NT3 z centers

NT2 frenkel defects

NT2 schottky defects

RT charge carriers

RT holes

**POINT KERNELS**

*INIS: 1977-11-21; ETDE: 1978-03-08*

BT1 kernels

RT absorption

RT integral equations

RT radiation flux

RT shielding

**POINT LEPREAU-1 REACTOR**

*INIS: 1977-02-08; ETDE: 1977-04-13*

*St. John, New Brunswick, Canada.*

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

**POINT LEPREAU-2 REACTOR**

*INIS: 1986-08-19; ETDE: 1986-09-05*

*St. John, New Brunswick, Canada.*

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

**point mutations**

USE gene mutations

**POINT POLLUTANT SOURCES**

*INIS: 1992-03-09; ETDE: 1977-11-28*

*Use for general articles when sources are not named.*

BT1 pollution sources

RT air pollution

RT mobile pollutant sources

RT pollution

RT water pollution

**POINT SOURCES**

BT1 radiation sources

**poiseuille flow**

USE laminar flow

**POISONING**

*Reduction of the reactivity by materials produced in a reactor, e.g., xenon, and samarium, or materials such as boron introduced into the reactor.*

UF xenon effect

NT1 samarium oscillations

NT1 xenon oscillations

RT burnable poisons

RT fluid poison control

RT nuclear poisons

RT reactivity

RT reactor kinetics

**poisons (chemical)**

*1983-03-15*

USE hazardous materials

**poisons (nuclear)**

USE nuclear poisons

**POISSON EQUATION**

\*BT1 partial differential equations

RT laplace equation

**POISSON RATIO**

BT1 dimensionless numbers

BT1 mechanical properties

RT elasticity

RT hooke law

RT strains

**pokhran event**

*INIS: 1994-10-14; ETDE: 1976-01-26*

*(Prior to September 1994, this was a valid ETDE descriptor.)*

USE contained explosions

USE nuclear explosions

**POLAND**

*1997-03-07*

BT1 developing countries

\*BT1 eastern europe

RT oecd

**polar blackout**

USE polar-cap absorption

**POLAR-CAP ABSORPTION**

UF *pca*

UF *polar blackout*

\*BT1 absorption

RT polar regions

RT radiowave radiation

RT solar particles

**POLAR-CAP AURORAE**

BT1 aurorae

RT antarctic regions

RT arctic regions

RT auroral oval

RT auroral zones

RT ionosphere

**POLAR COMPOUNDS**

*INIS: 2000-04-12; ETDE: 1980-12-08*

*Compounds that exhibit polarity, or local differences in electrical properties, and have a dipole moment associated with one or more of their interatomic valence bonds.*

NT1 zwitterionic compounds

RT dipoles

RT electric charges

RT organic compounds

**POLAR CUSP**

*INIS: 1975-12-09; ETDE: 1978-03-08*

RT auroral oval

RT earth magnetosphere

RT electron precipitation

RT ionosphere

RT proton precipitation

**POLAR GAS PROJECT**

*INIS: 2000-04-12; ETDE: 1976-11-17*

RT canada

RT natural gas

RT pipelines

**POLAR REGIONS**

BT1 cryosphere

NT1 antarctic regions

NT2 antarctica

NT1 arctic regions

RT boreal regions

RT polar-cap absorption

**polar solvents**

*INIS: 1990-12-07; ETDE: 2002-04-26*

*(Prior to December 1990, this was a valid descriptor.)*

USE solvents

**polar substorms**

USE magnetic bays

**POLARIMETERS**

NT1 ellipsometers

RT polarimetry

RT polarization

RT radiation detectors

**POLARIMETRY**

*INIS: 1994-09-08; ETDE: 1986-02-21*

RT chemical analysis

RT polarimeters

RT polarization

**polaritons**

*INIS: 1984-04-04; ETDE: 2002-04-26*

USE polarons

**POLARIZABILITY**

*Ratio of average induced dipole moment to the local field strength in a material. See also PARTICLE POLARIZABILITY.*

\*BT1 electrical properties

RT electric dipole moments

RT polarization

**polarizability (particle electric)**

*2015-01-29*

USE particle electric polarizability

**polarizability (particle magnetic)**

*2015-01-29*

USE particle magnetic polarizability

**POLARIZATION**

*For the process and condition in classical physics only; see also SPIN ORIENTATION.*

UF *pyroelectricity*

RT depolarization

RT electrets

RT faraday effect

RT kerr effect

RT optical activity

RT oriented nuclei

RT overhauser effect

RT polarimeters

RT polarimetry

RT polarizability

RT stokes parameters

RT tagged photon method

RT voigt effect

RT wave forms

RT wave propagation

**POLARIZATION-ASYMMETRY RATIO**

UF *analyzing power*

BT1 dimensionless numbers

RT scattering

RT spin orientation

RT targets



**POLARIZED BEAMS**

- BT1 beams
- RT els a accelerator complex
- RT spin orientation

**polarized nuclei**

(Prior to December 1984 this was a valid ETDE descriptor.)  
USE oriented nuclei

**POLARIZED PRODUCTS**

Use only for indexing the products of nuclear reactions or particle interactions.  
RT nuclear reactions  
RT particle interactions

**POLARIZED TARGETS**

- BT1 targets
- RT spin orientation

**POLAROGRAPHY**

- RT electrolysis
- RT quantitative chemical analysis

**POLARONS**

- UF polaritons
- BT1 quasi particles

**policy**

INIS: 2000-04-12; ETDE: 1980-03-29  
SEE energy policy  
SEE environmental policy  
SEE foreign policy  
SEE government policies

**POLIO VIRUS**

- \*BT1 viruses
- RT poliomyelitis

**POLIOMYELITIS**

- \*BT1 myelitis
- \*BT1 viral diseases
- RT nervous system
- RT polio virus

**polish government maryla reactor**

1993-11-09  
USE maryla reactor

**POLISH ORGANIZATIONS**

INIS: 1988-11-16; ETDE: 1981-08-04  
BT1 national organizations  
NT1 panstwowa agencja atomistyki

**POLISHING**

- BT1 surface finishing
- NT1 chemical polishing
- NT1 electropolishing
- NT1 mechanical polishing
- RT metallography
- RT surface cleaning

**POLITICAL ASPECTS**

INIS: 1998-01-28; ETDE: 1979-05-09  
Features of an enterprise or undertaking affected by or affecting political establishments.

- BT1 institutional factors
- RT ethical aspects
- RT government policies
- RT legal aspects
- RT public officials
- RT public opinion
- RT public policy
- RT socio-economic factors

**POLLEN**

- \*BT1 gametes
- RT flowers
- RT microspores
- RT palynology
- RT reproduction

**POLLUCITE**

INIS: 1983-06-02; ETDE: 1982-11-08  
\*BT1 silicate minerals  
RT aluminium silicates  
RT cesium silicates  
RT sodium silicates

**POLLUTANTS**

INIS: 1981-02-27; ETDE: 1981-03-13  
Not for radioactive contaminants for which use RADIOACTIVE WASTES or other related terminology.

- RT biological wastes
- RT chemical effluents
- RT contamination
- RT industrial wastes
- RT long-range transport
- RT municipal wastes
- RT pesticides
- RT pollution
- RT pollution abatement
- RT pollution sources

**POLLUTION**

For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.

- NT1 air pollution
- NT2 indoor air pollution
- NT1 land pollution
- NT1 noise pollution
- NT1 thermal pollution
- NT1 transfrontier pollution
- NT1 water pollution
- RT aesthetics
- RT body burden
- RT dnapl
- RT emissions tax
- RT emissions trading
- RT environment
- RT environmental degradation
- RT gas spills
- RT global aspects
- RT hazardous materials spills
- RT heavy metals
- RT lcmpdpw
- RT liming
- RT long-range transport
- RT mobile pollutant sources
- RT pesticides
- RT point pollutant sources
- RT pollutants
- RT pollution abatement
- RT pollution control equipment
- RT pollution regulations
- RT stationary pollutant sources
- RT wastes

**pollution, prevention of marine, 1972 london convention on**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE lcmpdpw

**pollution (thermal)**

2000-04-12  
USE thermal pollution

**POLLUTION ABATEMENT**

INIS: 1983-06-30; ETDE: 1978-02-14  
For the prevention of pollutants at the source.

- NT1 air pollution abatement
- NT1 land pollution abatement
- NT1 noise pollution abatement
- NT1 water pollution abatement
- RT chemical effluents
- RT heavy metals
- RT mitigation
- RT pollutants
- RT pollution
- RT pollution control
- RT pollution regulations

**POLLUTION CONTROL**

INIS: 1986-04-04; ETDE: 1977-03-04  
For management or removal of pollutants after they are formed by a source.

- BT1 control
- NT1 air pollution control
- NT2 carbon sequestration
- NT1 land pollution control
- NT1 noise pollution control
- NT1 oil pollution containment
- NT1 water pollution control
- RT liming
- RT pollution abatement
- RT pollution control equipment
- RT pollution regulations
- RT us clean coal technology program

**POLLUTION CONTROL AGENCIES**

INIS: 1993-01-27; ETDE: 1976-11-01  
NT1 us epa  
RT enforcement  
RT pollution laws  
RT pollution regulations

**POLLUTION CONTROL EQUIPMENT**

INIS: 1976-06-23; ETDE: 1975-11-11  
BT1 equipment  
NT1 acoustic agglomerators  
NT1 afterburners  
NT1 air filters  
NT1 baghouses  
NT1 catalytic converters  
NT1 electrostatic precipitators  
NT1 exhaust recirculation systems  
NT1 oil retention booms  
NT1 pcv systems  
NT1 rotating disk removal systems  
NT1 scrubbers  
NT2 dry scrubbers  
NT2 wet scrubbers  
NT3 venturi scrubbers  
NT1 skimmers  
NT1 weir oil recovery systems  
RT air cleaning  
RT air cleaning systems  
RT air pollution control  
RT catalytic combustors  
RT environmental engineering  
RT fabric filters  
RT fluidized-bed combustors  
RT granular bed filters  
RT inertial separators  
RT noise pollution control  
RT off-gas systems  
RT pollution  
RT pollution control  
RT scrubbing  
RT stack disposal  
RT sulfur meters

**POLLUTION LAWS**

1990-12-15  
(Prior to December 1990, this descriptor was spelled POLLUTION LAW.)

- BT1 laws
- NT1 clean air acts
- NT1 clean water acts
- NT1 us superfund
- RT kyoto protocol
- RT paris agreement
- RT pollution control agencies
- RT pollution regulations
- RT transfrontier pollution

**POLLUTION REGULATIONS**

Regulations for nonradioactive pollution only; see also CONTAMINATION REGULATIONS.

- \*BT1 regulations
- RT clean air acts

RT clean water acts  
 RT contamination regulations  
 RT enforcement  
 RT federal test procedure  
 RT pollution  
 RT pollution abatement  
 RT pollution control  
 RT pollution control agencies  
 RT pollution laws  
 RT transfrontier pollution

**POLLUTION SOURCES**

INIS: 1992-03-09; ETDE: 1979-12-10

UF area pollution sources  
 NT1 mobile pollutant sources  
 NT1 point pollutant sources  
 NT1 stationary pollutant sources  
 RT carbon sources  
 RT pollutants

**poloidal divertor experiment**

INIS: 1978-07-03; ETDE: 1977-11-28

USE pdx devices

**poloidal divertors**

INIS: 2000-04-12; ETDE: 1979-09-26

(Prior to July 1985, this was a valid ETDE descriptor.)

USE poloidal field divertors

**POLOIDAL FIELD DIVERTORS**

INIS: 1981-07-06; ETDE: 1981-08-04

*Divertors that displace the poloidal field lines to form a separatrix in the poloidal field.*

UF poloidal divertors  
 BT1 divertors  
 RT pbx devices  
 RT pdx devices

**POLONIUM**

\*BT1 metals  
 RT natural radioactivity

**POLONIUM 186**

2007-05-23

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 187**

2007-05-23

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 188**

2002-08-13

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 189**

2007-04-19

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 190**

INIS: 2000-06-15; ETDE: 2002-03-28

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 191**

2007-04-19

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 192**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 193**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 194**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 195**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 polonium isotopes  
 \*BT1 seconds living radioisotopes

**POLONIUM 196**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 polonium isotopes  
 \*BT1 seconds living radioisotopes

**POLONIUM 197**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 polonium isotopes  
 \*BT1 seconds living radioisotopes

**POLONIUM 198**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 199**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 200**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 201**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 202**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 203**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 polonium isotopes  
 \*BT1 seconds living radioisotopes

**POLONIUM 204**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 205**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 206**

\*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 polonium isotopes

**POLONIUM 207**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 polonium isotopes  
 \*BT1 seconds living radioisotopes

**POLONIUM 208**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 polonium isotopes  
 \*BT1 years living radioisotopes

**POLONIUM 208 TARGET**

1983-03-14

BT1 targets

**POLONIUM 209**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 polonium isotopes
- \*BT1 years living radioisotopes

**POLONIUM 210**

1995-11-06

- UF* *postum*
- UF* *radium f*
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 210 TARGET**

ETDE: 1976-07-09

- BT1 targets

**POLONIUM 211**

- UF* *actinium c/*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 polonium isotopes
- \*BT1 seconds living radioisotopes

**POLONIUM 212**

- UF* *thorium c/*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 polonium isotopes
- \*BT1 seconds living radioisotopes

**POLONIUM 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 214**

- UF* *radium c/*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 215**

- UF* *actinium a*
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 216**

- UF* *thorium a*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 polonium isotopes
- \*BT1 seconds living radioisotopes

**POLONIUM 218**

- UF* *radium a*
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 219**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 polonium isotopes

**POLONIUM 220**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 polonium isotopes

**polonium additions**

2000-03-28

(Until July 1996 this was a valid descriptor.)

- USE polonium alloys
- USE polonium compounds

**POLONIUM ALLOYS**

1996-07-23

Alloys containing more than 1% Po.

- UF* *polonium additions*
- BT1 alloys

**POLONIUM BROMIDES**

- \*BT1 bromides
- \*BT1 polonium halides

**POLONIUM CHLORIDES**

1996-07-08

(From June 1996 to February 2008

POLONIUM COMPOUNDS + CHLORIDES was used for this concept.)

- \*BT1 chlorides
- \*BT1 polonium halides

**POLONIUM COMPLEXES**

- BT1 complexes

**POLONIUM COMPOUNDS**

1996-07-23

*UF* *polonium additions*

- NT1 polonium halides
- NT2 polonium bromides
- NT2 polonium chlorides
- NT2 polonium fluorides
- NT2 polonium iodides
- NT1 polonium nitrates
- NT1 polonium oxides

**POLONIUM FLUORIDES**

1996-07-08

(From June 1996 to February 2008

POLONIUM COMPOUNDS + FLUORIDES was used for this concept.)

- \*BT1 fluorides
- \*BT1 polonium halides

**POLONIUM HALIDES**

2008-02-07

- \*BT1 halides
- BT1 polonium compounds
- NT1 polonium bromides
- NT1 polonium chlorides
- NT1 polonium fluorides
- NT1 polonium iodides

**POLONIUM IODIDES**

1996-07-23

(From July 1996 to February 2008

POLONIUM COMPOUNDS + IODIDES was used for this concept.)

- \*BT1 iodides

- \*BT1 polonium halides

**POLONIUM IONS**

- \*BT1 ions

**POLONIUM ISOTOPES**

- BT1 isotopes
- NT1 polonium 186
- NT1 polonium 187
- NT1 polonium 188
- NT1 polonium 189
- NT1 polonium 190
- NT1 polonium 191
- NT1 polonium 192
- NT1 polonium 193
- NT1 polonium 194
- NT1 polonium 195
- NT1 polonium 196
- NT1 polonium 197
- NT1 polonium 198
- NT1 polonium 199
- NT1 polonium 200
- NT1 polonium 201
- NT1 polonium 202
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- NT1 polonium 210
- NT1 polonium 211
- NT1 polonium 212
- NT1 polonium 213
- NT1 polonium 214
- NT1 polonium 215
- NT1 polonium 216
- NT1 polonium 217
- NT1 polonium 218
- NT1 polonium 219
- NT1 polonium 220

**POLONIUM NITRATES**

1996-07-23

(From July 1996 to November 2007

POLONIUM COMPOUNDS + NITRATES was used for this concept.)

- \*BT1 nitrates
- BT1 polonium compounds

**POLONIUM OXIDES**

- \*BT1 oxides
- BT1 polonium compounds

**poly(isobutylene oxide)**

INIS: 2000-04-12; ETDE: 1980-12-08

- USE epoxides
- USE organic polymers

**poly(vinylidene fluoride)**

INIS: 2000-04-12; ETDE: 1980-11-25

- USE fluorinated aliphatic hydrocarbons
- USE polyvinyls

**POLYACETALS**

- \*BT1 organic polymers
- NT1 formvar
- NT1 polyoxymethylenes
- RT acetals
- RT cellulose
- RT chitin
- RT inulin
- RT lignin
- RT starch

**POLYACETYLENES**

INIS: 1994-07-21; ETDE: 1981-07-18

- \*BT1 organic polymers
- \*BT1 polyenes
- RT acetylene

RT electrolytes

## POLYACRYLATES

UF acrylic polymers  
 \*BT1 esters  
 \*BT1 polyvinyls  
 NT1 lucite  
 NT1 perspex  
 NT1 plexiglas  
 NT1 pmma  
 RT methacrylic acid

### polyacrylonitrile

INIS: 2000-04-12; ETDE: 1980-12-08  
 USE nitriles  
 USE organic polymers

## POLYAMIDES

1996-08-05  
 UF dow pusher 700  
 \*BT1 organic polymers  
 NT1 nylon  
 NT1 polyurethanes  
 NT2 halthane  
 RT albumins  
 RT amides  
 RT proteins

### polyatomic molecules

INIS: 2000-04-12; ETDE: 1994-08-18  
 Chemical molecules with three or more atoms.  
 (Prior to August 1994, this was a valid ETDE  
 descriptor.)  
 USE molecules

## POLYCARBONATES

\*BT1 carbonates  
 \*BT1 organic polymers

## POLYCHLORINATED BIPHENYLS

INIS: 1992-09-16; ETDE: 1992-10-07  
 UF pcb  
 UF pcb (polychlorinated biphenyl)  
 \*BT1 chlorinated aromatic hydrocarbons  
 RT toxic materials

## POLYCRYSTALS

BT1 crystals  
 NT1 bicrystals

## POLYCYCLIC AROMATIC AMINES

INIS: 1994-09-29; ETDE: 1983-11-23  
 \*BT1 amines  
 RT acetylaminofluorenes  
 RT aniline  
 RT polycyclic aromatic hydrocarbons

## POLYCYCLIC AROMATIC HYDROCARBONS

INIS: 1992-03-17; ETDE: 1976-08-24  
 A group of hydrocarbons, consisting of two or  
 more fused aromatic rings. Prior to April  
 2017 CONDENSED AROMATICS was used  
 for this concept.

UF condensed aromatics  
 UF fluoranthene  
 UF pah  
 UF pna  
 UF polynuclear aromatic hydrocarbons  
 UF polynuclear hydrocarbons  
 \*BT1 aromatics  
 NT1 3-methylcholanthrene  
 NT1 acenaphthene  
 NT1 anthracene  
 NT1 azulene  
 NT1 benzanthracene  
 NT1 benzopyrene  
 NT1 calixarenes  
 NT1 cholanthrene  
 NT1 chrysene  
 NT1 dimethylbenzanthracene  
 NT1 fluorene

NT1 indene  
 NT1 indocyanine green  
 NT1 methylnaphthalenes  
 NT1 naphthalene  
 NT1 pentacene  
 NT1 perylene  
 NT1 phenanthrene  
 NT1 polyphenyls  
 NT2 terphenyls  
 NT3 terphenyl-ortho  
 NT3 terphenyl-para  
 NT1 pyrene  
 NT1 quaterphenyls  
 NT1 tetracene  
 NT1 triphenylene  
 RT azaarenes  
 RT carcinogens  
 RT mutagens  
 RT polycyclic aromatic amines  
 RT polycyclic nitro compounds  
 RT polycyclic sulfur heterocycles

## POLYCYCLIC NITRO COMPOUNDS

INIS: 2000-04-12; ETDE: 1983-11-23  
 \*BT1 nitro compounds  
 RT polycyclic aromatic hydrocarbons

### polycyclic nitrogen heterocycles

INIS: 1994-06-27; ETDE: 1983-11-23  
 USE azaarenes

## POLYCYCLIC SULFUR HETEROCYCLES

INIS: 1998-10-13; ETDE: 1983-11-23  
 UF thiophenes  
 \*BT1 heterocyclic compounds  
 \*BT1 organic sulfur compounds  
 RT polycyclic aromatic hydrocarbons  
 RT thionaphthenes  
 RT thiophene

## POLYCYTHEMIA

\*BT1 hemic diseases  
 RT bone marrow  
 RT myeloid leukemia

## POLYENES

\*BT1 hydrocarbons  
 NT1 dienes  
 NT2 allene  
 NT2 butadiene  
 NT2 cyclopentadiene  
 NT2 ferrocene  
 NT2 isoprene  
 NT2 pentadienes  
 NT1 polyacetylenes  
 NT1 squalene  
 RT alkenes

## POLYESTERS

1996-07-18  
 UF laminac  
 \*BT1 esters  
 \*BT1 organic polymers  
 NT1 polyethylene terephthalate  
 NT2 dacron  
 NT2 homalite  
 NT2 mylar

### polyethers

USE polyethylene glycols

## POLYETHYLENE GLYCOLS

UF polyethers  
 UF polyethylene oxides  
 \*BT1 ethylene glycols  
 \*BT1 organic polymers  
 NT1 carbowax  
 NT1 pluronics  
 RT ethers

### polyethylene oxides

INIS: 2000-04-12; ETDE: 1976-05-13  
 USE polyethylene glycols

## POLYETHYLENE

### TEREPHTHALATE

2017-11-13  
 Until November 2017, this was a forbidden  
 term and this concept was indexed by  
 POLYESTERS.  
 \*BT1 polyesters  
 NT1 dacron  
 NT1 homalite  
 NT1 mylar  
 RT ethylene glycols  
 RT terephthalic acid

## POLYETHYLENES

1996-01-24  
 UF ethylene polymers  
 UF marlex  
 UF polythene  
 \*BT1 polyolefins  
 NT1 kel-f  
 NT1 polytetrafluoroethylene  
 NT2 teflon  
 RT glazing materials

## POLYHALITE

INIS: 1982-10-29; ETDE: 1981-12-14  
 \*BT1 sulfate minerals  
 RT calcium sulfates  
 RT magnesium sulfates  
 RT potassium sulfates

### polyhydroxyaromatics

USE polyphenols

## POLYISOPRENE

\*BT1 elastomers  
 \*BT1 organic polymers  
 RT isoprene

### polymer electrolyte fuel cells

INIS: 2000-04-12; ETDE: 1999-09-09  
 USE proton exchange membrane fuel cells

### polymer flooding

INIS: 2000-04-12; ETDE: 1976-06-07  
 SEE microemulsion flooding  
 SEE waterflooding

## POLYMER GEL DOSEMETERS

2013-05-29  
 \*BT1 chemical dosimeters  
 RT nmr imaging  
 RT polymer gel dosimetry

## POLYMER GEL DOSIMETRY

2013-05-29  
 BT1 dosimetry  
 RT polymer gel dosimeters

### polymer-insulator-semiconductor solar cells

INIS: 2000-04-12; ETDE: 1981-07-18  
 USE pis solar cells

### polymer-semiconductor solar cells

INIS: 2000-04-12; ETDE: 1981-07-18  
 USE ps solar cells

## POLYMERASE CHAIN REACTION

1994-06-27  
 A biochemical (in vitro) method to prepare a  
 large number of copies of a selected gene or  
 of some other DNA segment. Such quantities  
 of gene copy are required to supply the  
 starting material needs for sequencing, for  
 other chemical analysis, or for genetic or  
 protein engineering.

UF pcr

BT1 gene amplification  
 RT biotechnology  
 RT dna-cloning  
 RT gene mutations  
 RT genetic engineering  
 RT protein engineering

**POLYMERASES**

\*BT1 nucleotidyltransferases  
 NT1 dna polymerases  
 NT1 rna polymerases

**POLYMERIZATION**

UF radiation hardening (chemical)  
 UF radiopolymerization  
 BT1 chemical reactions  
 NT1 copolymerization  
 NT1 cross-linking  
 NT1 dimerization  
 NT1 telomerization  
 RT curing  
 RT depolymerization  
 RT molecular weight  
 RT monomers

**POLYMERS**

NT1 elastomers  
 NT2 ethylene propylene diene polymers  
 NT2 neoprene  
 NT2 polyisoprene  
 NT2 rubbers  
 NT3 buna  
 NT3 latex  
 NT3 natural rubber  
 NT3 silastic  
 NT3 viton  
 NT1 hydrophylic polymers  
 NT1 inorganic polymers  
 NT1 organic polymers  
 NT2 araldite  
 NT2 copolymers  
 NT2 graft polymers  
 NT2 neoprene  
 NT2 plastic foams  
 NT2 plastics  
 NT3 aramids  
 NT3 bakelite  
 NT3 formvar  
 NT3 lucite  
 NT3 mylar  
 NT3 nylon  
 NT3 perspex  
 NT3 plexiglas  
 NT3 polystyrene  
 NT3 polyurethanes  
 NT4 halthane  
 NT3 reinforced plastics  
 NT3 tedlar  
 NT3 teflon  
 NT3 thermoplastics  
 NT2 polyacetals  
 NT3 formvar  
 NT3 polyoxymethylenes  
 NT2 polyacetylenes  
 NT2 polyamides  
 NT3 nylon  
 NT3 polyurethanes  
 NT4 halthane  
 NT2 polycarbonates  
 NT2 polyesters  
 NT3 polyethylene terephthalate  
 NT4 dacron  
 NT4 homalite  
 NT4 mylar  
 NT2 polyethylene glycols  
 NT3 carbowax  
 NT3 pluronics  
 NT2 polyisoprene  
 NT2 polyolefins  
 NT3 polyethylenes

NT4 kel-f  
 NT4 polytetrafluoroethylene  
 NT5 teflon  
 NT3 polypropylene  
 NT3 polystyrene  
 NT3 polystyrene-dvb  
 NT2 polyvinyls  
 NT3 polyacrylates  
 NT4 lucite  
 NT4 perspex  
 NT4 plexiglas  
 NT4 pmma  
 NT3 polystyrene  
 NT3 polyvinyl acetate  
 NT3 pva  
 NT3 pvc  
 NT3 pvp  
 NT3 tedlar  
 NT2 resins  
 NT2 rubbers  
 NT3 buna  
 NT3 latex  
 NT3 natural rubber  
 NT3 silastic  
 NT3 viton  
 NT2 textolite  
 NT1 silicones  
 NT2 silastic  
 RT colorimetric dosimeters  
 RT dendrimers  
 RT dielectric track detectors  
 RT dimers  
 RT hydrogels  
 RT monomers  
 RT plugging agents  
 RT urea-formaldehyde foams

**POLYMETALLIC ORES**

BT1 ores

**polymethylmethacrylates**

INIS: 1981-02-27; ETDE: 1980-03-04  
 USE pmma

**POLYNEUTRONS**

INIS: 1978-08-30; ETDE: 1977-03-04  
 Particle-stable many-body system composed of neutrons.

\*BT1 neutrons  
 NT1 dineutrons  
 NT1 tetra-neutrons  
 NT1 trineutrons

**POLYNOMIALS**

UF tschebyscheff approximation  
 BT1 functions  
 NT1 hermite polynomials  
 NT1 laguerre polynomials  
 NT1 legendre polynomials  
 RT mathematics  
 RT newton method  
 RT spline functions

**polynuclear aromatic hydrocarbons**

INIS: 2000-04-12; ETDE: 1976-08-24  
 USE polycyclic aromatic hydrocarbons

**polynuclear hydrocarbons**

ETDE: 2002-04-26  
 USE polycyclic aromatic hydrocarbons

**POLYOLEFINS**

\*BT1 organic polymers  
 NT1 polyethylenes  
 NT2 kel-f  
 NT2 polytetrafluoroethylene  
 NT3 teflon  
 NT1 polypropylene  
 NT1 polystyrene  
 NT1 polystyrene-dvb

**POLYOMA VIRUS**

\*BT1 oncogenic viruses

**POLYOXYMETHYLENES**

\*BT1 polyacetals  
 RT formaldehyde

**POLYPEPTIDES**

\*BT1 peptides  
 NT1 calcitonin  
 NT1 endorphins  
 NT2 enkephalins  
 NT1 endothelins  
 NT1 gastrin  
 NT1 glucagon  
 NT1 glutathione  
 NT1 kinins  
 NT2 bradykinin  
 NT1 leptin  
 RT somatostatin

**POLYPHENOLS**

1996-06-28

UF aurin  
 UF dihydroxyaromatics  
 UF polyhydroxyaromatics  
 UF trihydroxyaromatics  
 \*BT1 phenols  
 NT1 arsenazo  
 NT1 bromosulphophthalein  
 NT1 catecholamines  
 NT1 curcumin  
 NT1 dopamine  
 NT1 fluorescein  
 NT2 erythrosine  
 NT1 hematoxylin  
 NT1 morin  
 NT1 pyridylazoresorcinol  
 NT1 pyrocatechol  
 NT1 pyrogallol  
 NT1 quercetin  
 NT1 resorcinol  
 NT1 stilbestrol  
 NT1 tannic acid  
 NT1 tiron

**POLYPHENYLS**

1996-07-08

UF santowax  
 \*BT1 polycyclic aromatic hydrocarbons  
 NT1 terphenyls  
 NT2 terphenyl-ortho  
 NT2 terphenyl-para  
 RT organic coolants  
 RT organic moderators  
 RT organic polymers

**POLYPLOIDY**

UF tetraploidy  
 BT1 ploidy  
 RT colchicine  
 RT genome mutations

**POLYPORUS VERSICOLOR**

INIS: 2000-04-12; ETDE: 1987-04-24  
 \*BT1 fungi

**POLYPROPYLENE**

\*BT1 polyolefins  
 RT propylene

**polysaccharide-lyases**

INIS: 1990-12-07; ETDE: 2002-04-26  
 (Prior to December 1990, this was a valid descriptor.)  
 USE carbon-oxygen lyases

**POLYSACCHARIDES**

\*BT1 saccharides  
 NT1 agar  
 NT1 alginic acid  
 NT1 cellophane

**NT1** cellulose  
**NT1** dextran  
**NT1** dextrin  
**NT1** glycogen  
**NT1** gum acacia  
**NT1** hemicellulose  
**NT2** xylans  
**NT1** inulin  
**NT1** lignin  
**NT1** lipopolysaccharides  
**NT1** mucopolysaccharides  
**NT2** chitin  
**NT2** chondroitin  
**NT2** heparin  
**NT2** hyaluronic acid  
**NT1** mucoproteins  
**NT2** haptoglobins  
**NT2** intrinsic factor  
**NT2** phytohemagglutinin  
**NT1** nitrocellulose  
**NT1** pectins  
**NT1** rayon  
**NT1** starch  
**NT1** viscose  
**NT1** xanthan gum  
*RT* endotoxins  
*RT* lysozyme  
*RT* pyrogens  
*RT* zymosan

**POLYSTYRENE**

*UF* styrene polymers  
**\*BT1** plastics  
**\*BT1** polyolefins  
**\*BT1** polyvinyls  
*RT* styrene

**POLYSTYRENE-DVB**

*UF* styrene-divinylbenzene copolymer  
**\*BT1** organic ion exchangers  
**\*BT1** polyolefins

**polysulfides**

*USE* sulfides

**POLYTETRAFLUOROETHYLENE**

*INIS: 2000-04-12; ETDE: 1978-05-03*

*UF* ptfе  
**\*BT1** fluorinated aliphatic hydrocarbons  
**\*BT1** polyethylenes  
**NT1** teflon

**polytetraoxane**

*INIS: 2000-04-12; ETDE: 1980-12-08*

*USE* heterocyclic oxygen compounds  
*USE* organic polymers

**polythene**

*USE* polyethylenes

**polythionates**

*USE* oxygen compounds  
*USE* sulfur compounds

**polythionic acids**

*USE* inorganic acids  
*USE* oxygen compounds  
*USE* sulfur compounds

**POLYURETHANES**

**\*BT1** plastics  
**\*BT1** polyamides  
**NT1** halthane  
*RT* urethane

**POLYVINYL ACETATE**

*2005-02-22*

**\*BT1** acetic acid esters  
**\*BT1** polyvinyls

**polyvinyl alcohol**

*USE* pva

**polyvinyl chloride**

*USE* pvc

**polyvinylpyrrolidone**

*USE* pvp

**POLYVINYL**

*UF* poly(vinylidene fluoride)

*UF* vinoflex

**\*BT1** organic polymers

**NT1** polyacrylates

**NT2** lucite

**NT2** perspex

**NT2** plexiglas

**NT2** pmma

**NT1** polystyrene

**NT1** polyvinyl acetate

**NT1** pva

**NT1** pvc

**NT1** pvp

**NT1** tedlar

*RT* glazing materials

**POMERANCHUK PARTICLES**

*UF* pomerons

**BT1** quasi particles

*RT* morrison rule

*RT* regge poles

**POMERANCHUK POLES**

*RT* regge poles

**POMERANCHUK THEOREM**

*RT* antiparticle beams

*RT* interactions

*RT* particle beams

*RT* total cross sections

**pomerons**

*USE* pomeranchuk particles

**ponderomotive effect**

*INIS: 1989-04-20; ETDE: 2002-04-26*

*USE* ponderomotive force

**PONDEROMOTIVE FORCE**

*INIS: 1989-04-20; ETDE: 1989-05-11*

*UF* ponderomotive effect

*RT* charged particles

*RT* coulomb field

*RT* electromagnetic fields

*RT* lorentz force

**PONDS**

*1992-04-07*

*UF* pools

**BT1** surface waters

**NT1** cooling ponds

**NT1** settling ponds

**NT1** solar ponds

**NT2** roof ponds

*RT* lakes

**ponds (cooling)**

*1992-06-05*

*USE* cooling ponds

**POOL BOILING**

**\*BT1** boiling

**pool critical assembly ornl**

*USE* ornl-pca reactor

**pool event**

*INIS: 2000-04-12; ETDE: 1977-06-21*

*USE* anvil project

**pool test reactor chalk river**

*1993-11-09*

*USE* ptr reactor

**POOL TYPE REACTORS**

*UF* swimming pool reactors

**\*BT1** water cooled reactors  
**\*BT1** water moderated reactors  
**NT1** agata reactor  
**NT1** apsara reactor  
**NT1** armf-1 reactor  
**NT1** astra reactor  
**NT1** atrc reactor  
**NT1** avogadro rs-1 reactor  
**NT1** barn reactor  
**NT1** bawtr reactor  
**NT1** ber-2 reactor  
**NT1** brr reactor  
**NT1** bsr-1 reactor  
**NT1** bsr-2 reactor  
**NT1** cabri reactor  
**NT1** carr reactor  
**NT1** cmrr reactor  
**NT1** consort-2 reactor  
**NT1** cp-6 reactor  
**NT1** crocus reactor  
**NT1** democritus reactor  
**NT1** dr-2 reactor  
**NT1** etrc reactor  
**NT1** etrr-2 reactor  
**NT1** fmr reactor  
**NT1** fmr reactor  
**NT1** fir reactor  
**NT1** fir reactor  
**NT1** frg-1 reactor  
**NT1** frg-2 reactor  
**NT1** frj-1 reactor  
**NT1** frm-ii reactor  
**NT1** frm reactor  
**NT1** frn reactor  
**NT1** ga siwabessy reactor  
**NT1** gtr reactor  
**NT1** gulf triga-mk-3 reactor  
**NT1** hanaro reactor  
**NT1** herald reactor  
**NT1** hor reactor  
**NT1** horace reactor  
**NT1** htr reactor  
**NT1** ian-r1 reactor  
**NT1** iear-1 reactor  
**NT1** ihni-1 reactor  
**NT1** ir-100 reactor  
**NT1** irl reactor  
**NT1** irr-1 reactor  
**NT1** irt-2000 djakarta reactor  
**NT1** irt-2000 moscow reactor  
**NT1** irt-c reactor  
**NT1** irt-dprk reactor  
**NT1** irt-f reactor  
**NT1** irt reactor  
**NT1** irt-sofia reactor  
**NT1** isis reactor  
**NT1** ivv-2m reactor  
**NT1** ivv-7 reactor  
**NT1** jen-1 reactor  
**NT1** jen-2 reactor  
**NT1** jen reactor  
**NT1** jrr-3m reactor  
**NT1** jrr-4 reactor  
**NT1** jules horowitz reactor  
**NT1** kur reactor  
**NT1** la reina rech-1 reactor  
**NT1** lido reactor  
**NT1** lo aguirre rech-2 reactor  
**NT1** lpr reactor  
**NT1** lptr reactor  
**NT1** lr-0 reactor  
**NT1** ltir reactor  
**NT1** maria reactor  
**NT1** maryla reactor  
**NT1** melusine-1 reactor  
**NT1** merlin reactor  
**NT1** minerve reactor  
**NT1** mnr reactor  
**NT1** nscr reactor  
**NT1** nur reactor  
**NT1** opal reactor

**NT1** osur reactor  
**NT1** parr-1 reactor  
**NT1** phebus reactor  
**NT1** pik physical model reactor  
**NT1** prpr reactor  
**NT1** prr-1 reactor  
**NT1** psbr reactor  
**NT1** ptr reactor  
**NT1** pulstar-buffalo reactor  
**NT1** pulstar-raleigh reactor  
**NT1** pur-1 reactor  
**NT1** r2-0 reactor  
**NT1** ra-10 reactor  
**NT1** ra-6 reactor  
**NT1** ra-8 reactor  
**NT1** rana reactor  
**NT1** rinsc reactor  
**NT1** ritmo reactor  
**NT1** rmb reactor  
**NT1** rp-10 reactor  
**NT1** rts-1 reactor  
**NT1** rv-1 reactor  
**NT1** saphir reactor  
**NT1** scarabee reactor  
**NT1** siloe reactor  
**NT1** siloette reactor  
**NT1** slowpoke type reactors  
**NT2** slowpoke-alberta reactor  
**NT2** slowpoke-dalhousie reactor  
**NT2** slowpoke-mona reactor  
**NT2** slowpoke-montreal reactor  
**NT2** slowpoke-ottawa reactor  
**NT2** slowpoke rmc reactor  
**NT2** slowpoke src reactor  
**NT2** slowpoke-toronto reactor  
**NT2** slowpoke-wnre reactor  
**NT1** spert-4 reactor  
**NT1** spr iae reactor  
**NT1** sprr-300 reactor  
**NT1** stek reactor  
**NT1** stir reactor  
**NT1** swierk r-2 reactor  
**NT1** thetis reactor  
**NT1** thor reactor  
**NT1** toshiba reactor  
**NT1** tr-1 reactor  
**NT1** tr-2 reactor  
**NT1** triton reactor  
**NT1** trr-1 reactor  
**NT1** tz1 reactor  
**NT1** tz2 reactor  
**NT1** uknr reactor  
**NT1** umne-1 reactor  
**NT1** umrr reactor  
**NT1** utrr reactor  
**NT1** uvar reactor  
**NT1** uwnr reactor  
**NT1** vr-1 reactor  
**NT1** wpir reactor  
**NT1** wsur reactor  
**NT1** xapr reactor

### pools

1992-04-07

USE ponds

### pools (fuel storage)

INIS: 1985-01-17; ETDE: 2002-04-26

USE fuel storage pools

### poor people

INIS: 2000-04-12; ETDE: 1978-04-05

USE low income groups

### pop (paroxypropione)

ETDE: 2005-02-01

(Prior to January 2005 POP was a valid descriptor.)

USE hydroxypropiofenone

### popae

INIS: 2000-04-12; ETDE: 1975-11-11

(Prior to July 1985, this was a valid ETDE descriptor.)

USE popae storage ring

### POPÆ STORAGE RING

INIS: 1976-02-11; ETDE: 1976-03-25

Protons On Protons And Electrons storage ring facility at Fermilab.

UF popae

BT1 storage rings

RT fermilab accelerator

### POPLARS

\*BT1 magnoliopsida

\*BT1 trees

NT1 aspens

NT1 cottonwoods

### POPOP

UF bis(phenyloxazolyl)benzene

\*BT1 oxazoles

### POPULATION DENSITY

UF density (population)

RT population dynamics

RT populations

### POPULATION DYNAMICS

RT competition

RT ecological balance

RT ecological succession

RT ecosystems

RT equilibrium

RT growth

RT human populations

RT migration

RT population density

RT population relocation

RT populations

RT predator-prey interactions

RT reproduction

### POPULATION INVERSION

RT energy levels

### POPULATION RELOCATION

INIS: 1981-07-08; ETDE: 1978-04-28

RT accidents

RT civil defense

RT evacuation

RT external zones

RT human populations

RT population dynamics

RT populations

### POPULATIONS

UF caste (insects)

UF colonies

NT1 human populations

NT2 a-bomb survivors

NT2 indigenous peoples

NT3 american indians

NT3 eskimos

NT3 sami people

NT2 minority groups

NT3 american indians

NT3 black americans

NT3 elderly people

NT3 handicapped people

NT3 high income groups

NT3 hispanic americans

NT3 low income groups

NT3 oriental americans

NT3 sami people

NT2 rural populations

NT2 urban populations

RT adults

RT age groups

RT biological extinction

RT biosphere

RT ecosystems

RT genetically significant dose

RT population density

RT population dynamics

RT population relocation

RT species diversity

### PORCELAIN

RT ceramics

### PORE PRESSURE

INIS: 1992-07-21; ETDE: 1983-04-28

That part of the total normal stress in a saturated soil caused by the presence of interstitial fluid.

RT hydrostatics

RT interstitial water

RT piezometry

RT sediments

RT stresses

### PORE STRUCTURE

INIS: 1998-11-12; ETDE: 1993-08-24

BT1 microstructure

RT porosity

### PORINS

INIS: 2000-04-12; ETDE: 1987-07-22

Transmembrane proteins which selectively permit small molecules to traverse the cell membranes.

\*BT1 membrane proteins

RT membrane transport

### pork

USE meat

### POROSIMETERS

BT1 measuring instruments

### POROSITY

UF collector properties

UF collector properties (rocks)

RT ceramography

RT defects

RT formation damage

RT leaks

RT permeability

RT pore structure

RT porous materials

RT sintering

### porosity reduction

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

### POROUS MATERIALS

INIS: 1977-07-05; ETDE: 1976-09-14

UF materials (porous)

BT1 materials

RT porosity

### PORPHYRA

\*BT1 rhodophycota

### PORPHYRINS

1997-06-17

UF etioporphyrins

\*BT1 heterocyclic acids

\*BT1 organic nitrogen compounds

NT1 chlorins

NT1 chlorophyll

NT1 hematoporphyrins

NT1 heme

NT1 hemoglobin

NT2 methemoglobin

NT1 hemosiderin

NT1 myoglobin

NT1 protoporphyrins

RT peroxidases

RT pigments

**porpoises**

INIS: 1991-09-30; ETDE: 1981-06-15

USE cetaceans

**port radium**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE northwest territories

**PORTABLE EQUIPMENT**

INIS: 1983-06-30; ETDE: 1983-07-20

To be used only if portability is unusual or is the significant aspect of the equipment.

BT1 equipment

RT laboratory equipment

RT portable sources

**portable medium power plant 2a**

USE pm-2a reactor

**portable medium power plant 3a**

USE pm-3a reactor

**PORTABLE SOURCES**

BT1 radiation sources

RT portable equipment

**PORTAL SYSTEM**

\*BT1 veins

RT intestinal absorption

RT intestines

RT liver

**PORTER-THOMAS DISTRIBUTION**

RT compound nuclei

RT level widths

**portevin-le chatelier effect**

2000-04-12

The continually repeating non-smooth deformation of a specimen when subjected to a uniformly increasing stress.

(Prior to May 1996 this was a valid ETDE descriptor.)

USE deformation

**PORTLAND CEMENT**

1992-05-08

\*BT1 cements

RT cement industry

RT lime-soda sinter process

RT spent shales

**portmanteau event**

INIS: 2000-04-12; ETDE: 1975-12-16

A test made during PROJECT BEDROCK.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**ports**

2000-04-12

USE harbors

**PORTSMOUTH CENTRIFUGE ENRICHMENT PLANT**

INIS: 1982-08-27; ETDE: 1981-05-18

UF gcep

SF portsmouth plant

\*BT1 centrifuge enrichment plants

\*BT1 us doe

RT ohio

**PORTSMOUTH GASEOUS DIFFUSION PLANT**

INIS: 1975-10-09; ETDE: 1975-12-16

SF portsmouth plant

\*BT1 gaseous diffusion plants

\*BT1 us doe

\*BT1 us erda

RT ohio

**portsmouth plant**

INIS: 1992-06-04; ETDE: 1976-05-19

SEE portsmouth centrifuge enrichment plant

SEE portsmouth gaseous diffusion plant

**PORTUGAL**

1995-04-03

BT1 developing countries

\*BT1 western europe

NT1 azores islands

RT oecd

**portuguese jen research reactor**

USE jen reactor

**PORTUGUESE ORGANIZATIONS**

2004-03-31

BT1 national organizations

**position (optical)**

USE coordinates

**position (radio)**

USE coordinates

**position dependence**

INIS: 2000-04-12; ETDE: 1979-08-07

USE space dependence

**position indicators**

USE displacement gages

**POSITION OPERATORS**

\*BT1 quantum operators

RT coordinates

**POSITION SENSITIVE DETECTORS**

\*BT1 radiation detectors

RT counting techniques

RT superconducting colloid detectors

**POSITIONING**

INIS: 1982-12-07; ETDE: 1977-03-08

Not for SITE SELECTION.

UF emplacement

RT alignment

RT fuel elements

RT global positioning system

RT in core instruments

RT offshore platforms

RT pipelines

RT ships

RT stowage

RT targets

RT thrusters

**POSITIVE COLUMN**

RT electric discharges

**positive crankcase ventilation systems**

INIS: 2000-04-12; ETDE: 1979-03-05

USE pcv systems

**positive excess**

1996-07-08

(Until June 1996 this was a valid descriptor.)

SEE cosmic radiation

SEE electric charges

**positive ions**

USE cations

**POSITRON ANNIHILATION SPECTROSCOPY**

2017-02-02

BT1 spectroscopy

RT gamma detection

**POSITRON-ATOM COLLISIONS**

\*BT1 atom collisions

\*BT1 positron collisions

**POSITRON BEAMS**

UF beta beams (positrons)

\*BT1 lepton beams

RT positrons

**POSITRON CAMERAS**

Coincidence gamma cameras for positron annihilation imaging.

\*BT1 gamma cameras

RT coincidence methods

RT emission computed tomography

RT nuclear medicine

RT positron computed tomography

RT positron detection

RT radioisotope scanners

**POSITRON CHANNELING**

BT1 channeling

**POSITRON COLLISIONS**

BT1 collisions

NT1 electron-positron collisions

NT1 photon-positron collisions

NT1 positron-atom collisions

NT1 positron-ion collisions

NT1 positron-molecule collisions

NT1 positron-positron collisions

**POSITRON COMPUTED TOMOGRAPHY**

INIS: 1980-04-02; ETDE: 1980-05-07

UF pet scanning

UF pett

\*BT1 emission computed tomography

RT positron cameras

RT radioisotope scanning

**positron decay**

USE beta-plus decay

**POSITRON DETECTION**

INIS: 1986-04-04; ETDE: 1979-04-11

(Prior to April 1986 this concept was expressed by co-ordination of ELECTRON DETECTION and POSITRONS.)

\*BT1 charged particle detection

RT beta detection

RT electron detection

RT positron cameras

**positron-electron-proton storage ring**

1993-11-09

USE pep storage rings

**POSITRON-ION COLLISIONS**

\*BT1 ion collisions

\*BT1 positron collisions

**POSITRON-MOLECULE COLLISIONS**

\*BT1 molecule collisions

\*BT1 positron collisions

**POSITRON-POSITRON COLLISIONS**

ETDE: 1989-09-15

\*BT1 positron collisions

**POSITRON-POSITRON INTERACTIONS**

INIS: 1986-05-23; ETDE: 1980-05-06

\*BT1 lepton-lepton interactions

**POSITRON REACTIONS**

INIS: 1977-09-15; ETDE: 1977-11-10

\*BT1 lepton reactions

**POSITRON SOURCES**

INIS: 1975-09-16; ETDE: 1975-10-28

\*BT1 particle sources

RT positrons



**POSITRONIUM**

(From December 1975 till May 1996  
POSITRONIUM CHEMISTRY was a valid  
ETDE descriptor.)

*SF* positronium chemistry  
*RT* atoms  
*RT* electrons  
*RT* muonium  
*RT* positronium compounds  
*RT* positrons  
*RT* protonium

**positronium chemistry**

*INIS: 2000-04-12; ETDE: 1975-12-16*  
Use *CHEMISTRY, CHEMICAL*  
*PROPERTIES, or CHEMICAL REACTIONS*  
(or an *NT*) in addition to one of the  
descriptors below.  
(Prior to May 1996 this was a valid ETDE  
descriptor.)

SEE positronium  
SEE positronium compounds

**POSITRONIUM COMPOUNDS**

*INIS: 1985-09-09; ETDE: 1977-05-07*  
*Atom-positronium systems of the type (X;Ps)*  
or (X;*e*<sup>+</sup>).  
*SF* positronium chemistry  
*RT* positronium

**POSITRONS**

\*BT1 antileptons  
NT1 cosmic positrons  
*RT* beta particles  
*RT* electron pairs  
*RT* electrons  
*RT* positron beams  
*RT* positron sources  
*RT* positronium

**possession (nuclear materials)**

*INIS: 1976-12-08; ETDE: 2002-04-26*  
USE nuclear materials possession

**POST-IRRADIATION****EXAMINATION**

1981-04-03  
*RT* ceramography  
*RT* chemical analysis  
*RT* destructive testing  
*RT* electron microprobe analysis  
*RT* fuel elements  
*RT* inspection  
*RT* performance testing  
*RT* spectroscopy

**POST-IRRADIATION THERAPY**

\*BT1 therapy  
*RT* biological recovery  
*RT* blood substitutes

**POST-TRANSLATION****MODIFICATION**

*INIS: 1991-07-02; ETDE: 1987-04-24*  
*Chemical modification of proteins after*  
*translation of the messenger RNA but prior to*  
*their becoming biologically active.*

\*BT1 biosynthesis  
*RT* cell constituents  
*RT* glucoproteins  
*RT* glycoproteins  
*RT* golgi complexes  
*RT* messenger-rna  
*RT* phosphoproteins  
*RT* protein structure  
*RT* proteins  
*RT* proteolysis  
*RT* transcription

**POSTAL SERVICES**

*INIS: 2000-04-12; ETDE: 1980-08-12*  
*RT* delivery  
*RT* vehicles

**POSTULATED PARTICLES**

1995-09-08  
BT1 elementary particles  
NT1 dilatons  
NT1 dyons  
NT1 goldstone bosons  
NT2 axions  
NT2 majorons  
NT1 gravitons  
NT1 heavy neutral muons  
NT1 inflatons  
NT1 leptquarks  
NT1 magnetic monopoles  
NT1 plektons  
NT1 preons  
NT1 sparticles  
NT2 dilatons  
NT2 gluinos  
NT2 gravitinos  
NT2 higgsinos  
NT2 neutralinos  
NT2 photinos  
NT2 winos  
NT2 zinos  
NT1 spurions  
NT1 sterile neutrinos  
NT1 tachyons  
NT1 top particles  
NT2 t quarks  
NT3 t antiquarks  
NT1 wimps

**postum**

1995-11-06  
USE polonium 210

**potable water**

*INIS: 2000-04-12; ETDE: 1980-02-11*  
USE drinking water

**POTASSIUM**

\*BT1 alkali metals

**POTASSIUM 32**

2007-11-22  
\*BT1 light nuclei  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes

**POTASSIUM 33**

2007-11-22  
\*BT1 light nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes  
\*BT1 proton decay radioisotopes

**POTASSIUM 34**

2007-11-22  
\*BT1 light nuclei  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes  
\*BT1 proton decay radioisotopes

**POTASSIUM 35**

1976-07-30  
\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes

**POTASSIUM 36**

\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

\*BT1 potassium isotopes

**POTASSIUM 37**

\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes  
\*BT1 seconds living radioisotopes

**POTASSIUM 38**

\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes  
\*BT1 seconds living radioisotopes

**POTASSIUM 39**

\*BT1 light nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes  
\*BT1 stable isotopes

**POTASSIUM 39 BEAMS**

*INIS: 1976-07-06; ETDE: 1976-09-15*  
\*BT1 ion beams

**POTASSIUM 39 REACTIONS**

*INIS: 1991-09-25; ETDE: 1994-08-10*  
\*BT1 heavy ion reactions

**POTASSIUM 39 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**POTASSIUM 40**

\*BT1 beta-minus decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 light nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes  
\*BT1 years living radioisotopes  
*RT* natural radioactivity

**POTASSIUM 40 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**POTASSIUM 41**

\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes  
\*BT1 stable isotopes  
*RT* potassium 41 beams

**POTASSIUM 41 BEAMS**

*INIS: 1976-07-06; ETDE: 1976-08-24*  
\*BT1 ion beams  
*RT* potassium 41

**POTASSIUM 41 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**POTASSIUM 42**

\*BT1 beta-minus decay radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes

**POTASSIUM 43**

\*BT1 beta-minus decay radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes

**POTASSIUM 44**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei

- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 potassium isotopes

**POTASSIUM 45**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 potassium isotopes

**POTASSIUM 46**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 potassium isotopes

**POTASSIUM 47**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 potassium isotopes
- \*BT1 seconds living radioisotopes

**POTASSIUM 48**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 potassium isotopes
- \*BT1 seconds living radioisotopes

**POTASSIUM 49**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 potassium isotopes
- \*BT1 seconds living radioisotopes

**POTASSIUM 50**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 potassium isotopes

**POTASSIUM 51**

*INIS: 1984-06-21; ETDE: 1981-01-27*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 potassium isotopes

**POTASSIUM 52**

*INIS: 1984-06-21; ETDE: 1982-05-12*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 potassium isotopes

**POTASSIUM 53**

*INIS: 1984-06-21; ETDE: 1984-02-10*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 potassium isotopes

**POTASSIUM 54**

*INIS: 1984-06-21; ETDE: 1984-02-10*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 potassium isotopes

**POTASSIUM 55**

*2007-11-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

- \*BT1 potassium isotopes

**POTASSIUM 56**

*2009-06-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 potassium isotopes

**POTASSIUM ADDITIONS**

*Alloys containing not more than 1% K are listed here.*

- RT* potassium alloys

**POTASSIUM ALLOYS**

*Alloys containing more than 1% K.*

- UF* *nak*
- BT1 alloys
- NT1 potassium base alloys
- RT* potassium additions

**POTASSIUM BASE ALLOYS**

- \*BT1 potassium alloys

**POTASSIUM BORIDES**

- \*BT1 borides
- \*BT1 potassium compounds

**POTASSIUM BROMIDES**

- \*BT1 bromides
- \*BT1 potassium compounds
- \*BT1 potassium halides

**POTASSIUM CARBIDES**

- \*BT1 carbides
- \*BT1 potassium compounds

**POTASSIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 potassium compounds

**POTASSIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 potassium compounds
- \*BT1 potassium halides
- RT* carnallite
- RT* halide minerals

**POTASSIUM COMPLEXES**

- \*BT1 alkali metal complexes

**POTASSIUM COMPOUNDS**

*1996-07-23*

- UF* *potassium permanganates*
- UF* *prussian blue*
- BT1 alkali metal compounds
- NT1 potassium borides
- NT1 potassium bromides
- NT1 potassium carbides
- NT1 potassium carbonates
- NT1 potassium chlorides
- NT1 potassium fluorides
- NT1 potassium halides
- NT2 potassium bromides
- NT2 potassium chlorides
- NT2 potassium fluorides
- NT2 potassium iodides
- NT1 potassium hydrides
- NT1 potassium hydroxides
- NT1 potassium iodides
- NT1 potassium nitrates
- NT1 potassium nitrides
- NT1 potassium oxides
- NT1 potassium perchlorates
- NT1 potassium phosphates
- NT1 potassium phosphides
- NT1 potassium selenides
- NT1 potassium silicates
- NT1 potassium silicides
- NT1 potassium sulfates
- NT1 potassium sulfides
- NT1 potassium tellurides
- NT1 potassium tungstates

- NT1 potassium uranates
- NT1 potassium vanadates
- NT1 rochelle salt

**POTASSIUM COOLED REACTORS**

- \*BT1 liquid metal cooled reactors
- NT1 ebr-1 reactor
- NT1 ser reactor
- NT1 snap 10 reactor
- NT2 s10fs-1 reactor
- NT2 s10fs-3 reactor
- NT2 s10fs-4 reactor
- NT1 snap-tsf reactor
- NT1 snaptran reactors
- RT* nak cooled reactors

**POTASSIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 potassium compounds
- \*BT1 potassium halides

**POTASSIUM HALIDES**

*2012-07-25*

- \*BT1 halides
- \*BT1 potassium compounds
- NT1 potassium bromides
- NT1 potassium chlorides
- NT1 potassium fluorides
- NT1 potassium iodides

**POTASSIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 potassium compounds

**POTASSIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 potassium compounds

**POTASSIUM IODIDES**

- \*BT1 inorganic phosphors
- \*BT1 iodides
- \*BT1 potassium compounds
- \*BT1 potassium halides
- RT* lugol

**POTASSIUM IONS**

- \*BT1 ions

**POTASSIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 potassium 32
- NT1 potassium 33
- NT1 potassium 34
- NT1 potassium 35
- NT1 potassium 36
- NT1 potassium 37
- NT1 potassium 38
- NT1 potassium 39
- NT1 potassium 40
- NT1 potassium 41
- NT1 potassium 42
- NT1 potassium 43
- NT1 potassium 44
- NT1 potassium 45
- NT1 potassium 46
- NT1 potassium 47
- NT1 potassium 48
- NT1 potassium 49
- NT1 potassium 50
- NT1 potassium 51
- NT1 potassium 52
- NT1 potassium 53
- NT1 potassium 54
- NT1 potassium 55
- NT1 potassium 56

**POTASSIUM NITRATES**

- \*BT1 nitrates
- \*BT1 potassium compounds

**POTASSIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 potassium compounds

**POTASSIUM OXIDES**

- \*BT1 oxides
- \*BT1 potassium compounds
- RT clarkeite
- RT oxide minerals

**POTASSIUM PERCHLORATES**

- \*BT1 perchlorates
- \*BT1 potassium compounds

**potassium permanganates**

- INIS: 2000-04-12; ETDE: 1975-09-11  
(Prior to April 1997 this was a valid ETDE descriptor.)
- USE permanganates
  - USE potassium compounds

**POTASSIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 potassium compounds

**POTASSIUM PHOSPHIDES**

- INIS: 1991-09-16; ETDE: 1984-12-26
- \*BT1 phosphides
  - \*BT1 potassium compounds

**POTASSIUM SELENIDES**

- INIS: 1991-09-16; ETDE: 1978-04-06
- \*BT1 potassium compounds
  - \*BT1 selenides

**POTASSIUM SILICATES**

- 1996-11-13
- \*BT1 potassium compounds
  - \*BT1 silicates
  - RT silicate minerals

**POTASSIUM SILICIDES**

- INIS: 1996-07-23; ETDE: 1977-01-10  
(From July 1996 to November 2007

POTASSIUM COMPOUNDS + SILICIDES was used for this concept.)

- \*BT1 potassium compounds
- \*BT1 silicides

**POTASSIUM SULFATES**

- \*BT1 potassium compounds
- \*BT1 sulfates
- RT polyhalite
- RT sulfate minerals

**POTASSIUM SULFIDES**

- \*BT1 potassium compounds
- \*BT1 sulfides

**POTASSIUM TELLURIDES**

- INIS: 1979-09-18; ETDE: 1978-01-23
- \*BT1 potassium compounds
  - \*BT1 tellurides

**POTASSIUM TUNGSTATES**

- INIS: 1978-05-19; ETDE: 1976-01-23
- \*BT1 potassium compounds
  - \*BT1 tungstates

**POTASSIUM URANATES**

- INIS: 1975-11-27; ETDE: 1975-08-19
- \*BT1 potassium compounds
  - \*BT1 uranates

**POTASSIUM VANADATES**

- INIS: 1991-09-16; ETDE: 1981-06-13
- \*BT1 potassium compounds
  - \*BT1 vanadates

**potato plant**

- USE solanum tuberosum

**potato tubers**

- USE potatoes

**POTATOES**

- UF potato tubers
- BT1 tubers
- \*BT1 vegetables
- RT solanum tuberosum
- RT sprout inhibition

**potential (electric)**

- INIS: 1981-10-15; ETDE: 1979-03-27
- USE electric potential

**potential barriers**

- INIS: 2000-04-12; ETDE: 1979-04-11
- USE potentials

**POTENTIAL ENERGY**

- BT1 energy
- NT1 fission barrier
- RT kinetic energy
- RT lagrangian function
- RT landau-zener formula
- RT potentials

**POTENTIAL FLOW**

- BT1 fluid flow

**POTENTIAL SCATTERING**

- \*BT1 elastic scattering
- RT coulomb scattering
- RT potentials

**POTENTIALS**

- INIS: 1996-06-28; ETDE: 1979-04-11  
For the mathematical construct from which forces are derived by differentiation; not for ELECTRIC POTENTIAL.

- UF levy-klein potential
- UF levy potential
- UF periodic potentials
- UF potential barriers
- NT1 buckingham potential
- NT1 central potential
- NT1 kihara potential
- NT1 lennard-jones potential
- NT1 morse potential
- NT1 muffin-tin potential
- NT1 nonlocal potential
- NT1 nuclear potential
- NT2 fission barrier
- NT2 hard-core potential
- NT2 harmonic potential
- NT2 hulthen potential
- NT2 soft-core potential
- NT2 square-well potential
- NT2 woods-saxon potential
- NT2 yukawa potential
- NT1 nucleon-nucleon potential
- NT2 gauss potential
- NT2 hamada-johnston potential
- NT2 reid potential
- NT2 schiffer potential
- NT2 skyrme potential
- NT2 surface delta potential
- NT2 yamaguchi potential
- NT1 ope potential
- NT2 gammel-thaler potential
- NT1 roche equipotentials
- NT1 surface potential
- NT1 tabakin potential
- RT electromagnetic fields
- RT fundamental interactions
- RT gravitational fields
- RT interatomic forces
- RT intermolecular forces
- RT noncentral forces
- RT nuclear forces
- RT potential energy
- RT potential scattering
- RT rosenfeld force
- RT tensor forces

**POTENTIOMETERS**

- 1983-02-04
- \*BT1 electric measuring instruments
  - RT potentiostats
  - RT resistors

**potentiometers (variable resistors)**

- INIS: 1993-11-09; ETDE: 2002-04-26
- USE resistors

**POTENTIOMETRY**

- 1996-10-23
- \*BT1 titration
  - RT redox potential

**POTENTIOSTATS**

- INIS: 2000-04-12; ETDE: 1979-03-28  
Automatic instruments that control the potential of working electrodes during coulometric titrations.
- BT1 measuring instruments
  - RT potentiometers
  - RT titration
  - RT voltametry

**POTHEADS**

- INIS: 2000-04-12; ETDE: 1977-03-08  
Hermetically sealed terminations for electric cables.
- \*BT1 electrical equipment
  - RT connectors

**POTOMAC RIVER**

- 1977-09-06
- \*BT1 rivers
  - RT maryland
  - RT potomac river basin
  - RT virginia
  - RT west virginia

**POTOMAC RIVER BASIN**

- INIS: 1992-01-14; ETDE: 1980-11-08
- BT1 watersheds
  - RT maryland
  - RT pennsylvania
  - RT potomac river
  - RT virginia
  - RT washington dc
  - RT west virginia

**potorous**

- USE marsupials

**pott-broche process**

- 2000-04-12  
Direct conversion of coal to synthetic crude oil by hydrogenation after solvent extraction.  
(Prior to March 1994, this was a valid ETDE descriptor.)
- USE coal liquefaction

**POTTING**

- INIS: 1986-04-04; ETDE: 1979-04-12  
Encapsulation with a shock-absorbing dielectric material.
- RT dielectric materials
  - RT electrical equipment
  - RT electronic equipment
  - RT encapsulation
  - RT impact shock
  - RT potting materials

**POTTING MATERIALS**

- INIS: 1986-04-04; ETDE: 1979-03-29  
Shock-absorbing dielectric materials used for encapsulation.
- BT1 materials
  - RT dielectric materials
  - RT electrical equipment
  - RT electronic equipment
  - RT encapsulation
  - RT epoxides

RT potting

## poultry

USE fowl

## POUR POINT

2000-04-12

The lowest temperature at which a substance flows under specified conditions.

RT fluids  
RT liquids

## POWDER METALLURGY

BT1 metallurgy  
RT compacting  
RT powders  
RT sintered materials  
RT sintering

## POWDER RIVER BASIN

INIS: 1992-06-04; ETDE: 1985-08-22

\*BT1 montana  
BT1 watersheds  
\*BT1 wyoming  
RT coal deposits  
RT natural gas deposits  
RT petroleum deposits  
RT sedimentary basins

## POWDERS

RT compacts  
RT debye-scherrer method  
RT dusts  
RT elutriation  
RT granular materials  
RT particle size  
RT particles  
RT powder metallurgy  
RT pulverized fuels  
RT sintered materials  
RT specific surface area

## POWER

NT1 electric power  
NT2 hydroelectric power  
NT2 hydrokinetic power  
NT2 off-peak power  
NT2 surplus power  
NT1 nuclear power  
NT2 residual power  
NT1 wave power  
NT1 wind power  
RT energy consumption  
RT power generation  
RT power input  
RT power range  
RT thermonuclear reactors

## POWER AMPLIFIERS

\*BT1 amplifiers

## power beaming

INIS: 1992-08-11; ETDE: 2002-04-26

USE laser power transmission

## power burst facility usaec

2000-04-12

USE pbf reactor

## POWER COEFFICIENT

BT1 reactivity coefficients

## POWER CONDITIONING CIRCUITS

1999-07-05

(Prior to December 1990, this concept was indexed by POWERCONDITIONING SYSTEMS and ELECTRONIC CIRCUITS.)

UF power conditioning systems  
BT1 electronic circuits  
RT control systems  
RT dc to dc converters  
RT inverters

RT power supplies

## power conditioning systems

INIS: 1990-12-15; ETDE: 1975-12-16  
(Prior to December 1990, this was a valid descriptor.)

USE power conditioning circuits

## power cooling mismatch

2017-07-18

USE power-cooling-mismatch accidents

## POWER-COOLING-MISMATCH

### ACCIDENTS

UF pcm accidents  
UF power cooling mismatch  
\*BT1 reactor accidents

## POWER DEMAND

UF loads (power demand)  
BT1 demand  
RT demand factors  
RT electric power  
RT energy demand  
RT fill factors  
RT off-peak power  
RT peak load

## POWER DENSITY

UF density (power)  
NT1 wall loading  
RT neutron density  
RT power distribution  
RT reactor cores  
RT reactor lattices

## POWER DISTRIBUTION

INIS: 1999-10-12; ETDE: 1975-07-29  
The spatial distribution of power level throughout a reactor core or fuel element. Not to be confused with the movement of power from one point to another, for which see POWER TRANSMISSION.

RT power density  
RT reactor cores

## POWER DISTRIBUTION SYSTEMS

INIS: 1992-04-02; ETDE: 1981-03-17  
Systems for distributing electric power from convenient points on the transmission or bulk power system to the consumers.

RT gas-insulated substations  
RT power substations  
RT power systems  
RT power transmission  
RT smart grids

## power excursions

USE excursions

## POWER FACTOR

INIS: 2000-06-27; ETDE: 1977-09-19  
The ratio of the average or active power to the apparent power.

UF phase factor  
BT1 dimensionless numbers  
RT interconnected power systems  
RT power generation  
RT power systems  
RT power transmission  
RT var control systems

## POWER GENERATION

UF power production  
NT1 cogeneration  
NT1 microgeneration  
NT1 on-site power generation  
RT capacity  
RT dispersed storage and generation  
RT dual-purpose power plants  
RT electric power  
RT fill factors

RT flood control  
RT gas turbine power plants  
RT interconnected power systems  
RT nuclear power  
RT power  
RT power factor  
RT power plants  
RT power pooling  
RT power substations  
RT power systems  
RT refuse-fueled power plants

## POWER INPUT

INIS: 1985-01-18; ETDE: 1977-09-19

Power required to operate machinery, appliance, or other device.

UF wattage  
RT power

## POWER LOSSES

INIS: 1999-07-06; ETDE: 1979-01-30

UF line losses  
\*BT1 energy losses  
RT electric power  
RT outages  
RT power transmission

## POWER METERS

INIS: 1992-07-22; ETDE: 1978-01-23

UF watt-hour meters  
\*BT1 electric measuring instruments  
\*BT1 meters  
RT electric power  
RT energy consumption  
RT master metering  
RT metering  
RT peak-load pricing

## power plant and industrial fuel use act

INIS: 2000-04-12; ETDE: 1980-05-06  
(Prior to February 1992 this was a valid ETDE descriptor.)

USE us power plant and industrial fuel use act

## POWER PLANTS

UF douglas point site  
UF plants (power)  
NT1 dual-purpose power plants  
NT1 fuel cell power plants  
NT1 gas turbine power plants  
NT1 hydroelectric power plants  
NT2 high-head hydroelectric power plants  
NT2 low-head hydroelectric power plants  
NT2 medium-head hydroelectric power plants  
NT2 micro-scale hydroelectric power plants  
NT2 pumped storage power plants  
NT2 small-scale hydroelectric power plants  
NT1 mhd power plants  
NT2 mhd generator etf  
NT1 peaking power plants  
NT2 compressed air storage power plants  
NT2 pumped storage power plants  
NT1 solar power plants  
NT2 ocean thermal power plants  
NT2 orbital solar power plants  
NT2 photovoltaic power plants  
NT2 salinity gradient power plants  
NT2 solar thermal power plants  
NT3 distributed collector power plants  
NT3 tower focus power plants  
NT4 barstow solar pilot plant  
NT1 thermal power plants

**NT2** combined-cycle power plants  
**NT3** mhd generator etf  
**NT2** fossil-fuel power plants  
**NT3** kingston steam plant  
**NT3** paradise steam plant  
**NT3** shawnee steam plant  
**NT3** widows creek steam plant  
**NT2** geothermal power plants  
**NT2** nuclear power plants  
**NT3** bopssar standard plant  
**NT3** ebasco standard plant  
**NT3** gibbssar standard plant  
**NT3** offshore nuclear power plants  
**NT3** swessar standard plant  
**NT3** underground nuclear stations  
**NT2** ocean thermal power plants  
**NT2** refuse-fueled power plants  
**NT2** solar thermal power plants  
**NT3** distributed collector power plants  
**NT3** tower focus power plants  
**NT4** barstow solar pilot plant  
**NT2** thermonuclear power plants  
**NT2** wood-fuel power plants  
**NT1** tidal power plants  
**NT2** kislogubsk power plant  
**NT2** passamaquoddy power plant  
**NT2** rance power plant  
**NT1** wind power plants  
**NT2** efd wind generators  
**RT** combined cycles  
**RT** electric power  
**RT** off-peak power  
**RT** on-site power generation  
**RT** outages  
**RT** power generation  
**RT** power substations  
**RT** power systems

### **power-plutonium production reactor richland**

*INIS: 1993-11-09; ETDE: 2002-04-26*  
 USE n-reactor

### **POWER POOLING**

*INIS: 1999-07-07; ETDE: 1982-02-23*  
*Coordination among electric utilities through formal agreements to share the planning and operation of power generation and transmission facilities.*

**RT** electric utilities  
**RT** interconnected power systems  
**RT** power generation  
**RT** power transmission

### **power pools**

*INIS: 2000-04-12; ETDE: 1980-03-04*  
 USE interconnected power systems

### **POWER POTENTIAL**

2000-04-12  
**RT** electric power

### **power production**

*ETDE: 2002-04-26*  
 USE power generation

### **POWER RANGE**

*INIS: 1988-04-15; ETDE: 1989-08-10*

**NT1** exawatt power range  
**NT2** power range 01-10 ew  
**NT2** power range 10-100 ew  
**NT2** power range 100-1000 ew  
**NT1** gigawatt power range  
**NT2** power range 01-10 gw  
**NT2** power range 10-100 gw  
**NT2** power range 100-1000 gw  
**NT1** kilowatt power range  
**NT2** power range 01-10 kw  
**NT2** power range 10-100 kw  
**NT2** power range 100-1000 kw

**NT1** megawatt power range  
**NT2** power range 01-10 mw  
**NT2** power range 10-100 mw  
**NT2** power range 100-1000 mw  
**NT1** milliwatt power range  
**NT2** power range 01-10 milli w  
**NT2** power range 10-100 milli w  
**NT2** power range 100-1000 milli w  
**NT1** petawatt power range  
**NT2** power range 01-10 pw  
**NT2** power range 10-100 pw  
**NT2** power range 100-1000 pw  
**NT1** terawatt power range  
**NT2** power range 01-10 tw  
**NT2** power range 10-100 tw  
**NT2** power range 100-1000 tw  
**NT1** watt power range  
**NT2** power range 01-10 w  
**NT2** power range 10-100 w  
**NT2** power range 100-1000 w  
**RT** power

### **POWER RANGE 01-10 EW**

*INIS: 2003-08-15; ETDE: 2002-09-17*  
 \*BT1 exawatt power range

### **POWER RANGE 01-10 GW**

1988-04-15  
 (Prior to November 1989, this descriptor was POWER RANGE 1-10 GW.)  
 \*BT1 gigawatt power range

### **POWER RANGE 01-10 KW**

1988-04-15  
 (Prior to November 1989, this descriptor was POWER RANGE 1-10 KW.)  
 \*BT1 kilowatt power range

### **POWER RANGE 01-10 MILLI W**

2003-08-18  
 \*BT1 milliwatt power range

### **POWER RANGE 01-10 MW**

1988-04-15  
 (Prior to November 1989, this descriptor was POWER RANGE 1-10 MW.)  
 \*BT1 megawatt power range

### **POWER RANGE 01-10 PW**

*INIS: 2003-08-15; ETDE: 2002-09-17*  
 \*BT1 petawatt power range

### **POWER RANGE 01-10 TW**

*INIS: 2000-04-12; ETDE: 1982-05-24*  
 (Prior to November 1989, this descriptor was POWER RANGE 1-10 TW.)  
 \*BT1 terawatt power range

### **POWER RANGE 01-10 W**

1988-04-15  
 (Prior to November 1989, this descriptor was POWER RANGE 1-10 W.)  
 \*BT1 watt power range

### **POWER RANGE 10-100 EW**

*INIS: 2003-08-15; ETDE: 2002-09-17*  
 \*BT1 exawatt power range

### **POWER RANGE 10-100 GW**

*INIS: 1988-04-15; ETDE: 1975-09-11*  
 \*BT1 gigawatt power range

### **POWER RANGE 10-100 KW**

1988-04-15  
 \*BT1 kilowatt power range

### **POWER RANGE 10-100 MILLI W**

2003-08-18  
 \*BT1 milliwatt power range

### **POWER RANGE 10-100 MW**

1988-04-15  
 \*BT1 megawatt power range

### **POWER RANGE 10-100 PW**

*INIS: 2003-08-15; ETDE: 2002-09-17*  
 \*BT1 petawatt power range

### **POWER RANGE 10-100 TW**

*INIS: 2003-08-15; ETDE: 2002-09-17*  
 \*BT1 terawatt power range

### **POWER RANGE 10-100 W**

1988-04-15  
 \*BT1 watt power range

### **POWER RANGE 100-1000 EW**

*INIS: 2003-08-15; ETDE: 2002-09-17*  
 \*BT1 exawatt power range

### **POWER RANGE 100-1000 GW**

*INIS: 1988-04-15; ETDE: 1975-09-11*  
 \*BT1 gigawatt power range

### **POWER RANGE 100-1000 KW**

1988-04-15  
 \*BT1 kilowatt power range

### **POWER RANGE 100-1000 MILLI W**

2003-08-18  
 \*BT1 milliwatt power range

### **POWER RANGE 100-1000 MW**

1988-04-15  
 \*BT1 megawatt power range

### **POWER RANGE 100-1000 PW**

*INIS: 2003-08-15; ETDE: 2002-09-17*  
 \*BT1 petawatt power range

### **POWER RANGE 100-1000 TW**

*INIS: 2003-08-15; ETDE: 2002-09-17*  
 \*BT1 terawatt power range

### **POWER RANGE 100-1000 W**

1988-04-15  
 \*BT1 watt power range

### **power range milli w**

2000-04-12  
 USE milliwatt power range

### **power reactor and nuclear fuel development corporation**

1993-11-09  
*The Power Reactor and Nuclear Fuel Development Corporation (PNC) was reorganized and renamed as the Japan Nuclear Cycle Development Institute (JNC) in October 1998.*  
 USE pnc

### **POWER REACTORS**

1996-02-09  
**BT1** reactors  
**NT1** agesta reactor  
**NT1** aipfr reactor  
**NT1** ao-phai-1 reactor  
**NT1** aps reactor  
**NT1** arbus reactor  
**NT1** avr reactor  
**NT1** beloyarsk-1 reactor  
**NT1** beloyarsk-2 reactor  
**NT1** beloyarsk-3 reactor  
**NT1** beloyarsk-4 reactor  
**NT1** bilibin reactor  
**NT1** bn-1200 reactor  
**NT1** bn-1600 reactor  
**NT1** bn-350 reactor  
**NT1** bohunice a-1 reactor  
**NT1** bohunice a-2 reactor  
**NT1** bor-60 reactor  
**NT1** borax-3 reactor  
**NT1** borax-4 reactor  
**NT1** borax-5 reactor  
**NT1** brest-od-300 reactor  
**NT1** bugey-1 reactor

NT1	bwr type reactors	NT2	isar reactor	NT2	verplanck-1 reactor
NT2	allens creek-1 reactor	NT2	jldr-2 reactor	NT2	verplanck-2 reactor
NT2	allens creek-2 reactor	NT2	jldr reactor	NT2	vk-50 reactor
NT2	bailly-1 reactor	NT2	kaiseraugst reactor	NT2	wnp-2 reactor
NT2	barsebaeck-1 reactor	NT2	kashiwazaki-kariwa-1 reactor	NT2	wuergassen reactor
NT2	barsebaeck-2 reactor	NT2	kashiwazaki-kariwa-2 reactor	NT2	zimmer-1 reactor
NT2	barton-1 reactor	NT2	kashiwazaki-kariwa-3 reactor	NT2	zimmer-2 reactor
NT2	barton-2 reactor	NT2	kashiwazaki-kariwa-4 reactor	NT1	cdfr reactor
NT2	barton-3 reactor	NT2	kashiwazaki-kariwa-5 reactor	NT1	chernobylsk-1 reactor
NT2	barton-4 reactor	NT2	kashiwazaki-kariwa-6 reactor	NT1	chernobylsk-2 reactor
NT2	bell reactor	NT2	kashiwazaki-kariwa-7 reactor	NT1	chernobylsk-3 reactor
NT2	big rock point reactor	NT2	kruemmel reactor	NT1	chernobylsk-4 reactor
NT2	black fox-1 reactor	NT2	kuosheng-1 reactor	NT1	chinon-a1 reactor
NT2	black fox-2 reactor	NT2	kuosheng-2 reactor	NT1	chinon-a2 reactor
NT2	bolsa chica-1 reactor	NT2	la salle county-1 reactor	NT1	chinon-a3 reactor
NT2	bolsa chica-2 reactor	NT2	la salle county-2 reactor	NT1	clinch river breeder reactor
NT2	bonus reactor	NT2	lacbwr reactor	NT1	connah quay-b reactor
NT2	browns ferry-1 reactor	NT2	laguna verde-1 reactor	NT1	dfr reactor
NT2	browns ferry-2 reactor	NT2	laguna verde-2 reactor	NT1	dragon reactor
NT2	browns ferry-3 reactor	NT2	leibstadt reactor	NT1	dungeness-b reactor
NT2	brunsbuettel reactor	NT2	limerick-1 reactor	NT1	ebor reactor
NT2	brunswick-1 reactor	NT2	limerick-2 reactor	NT1	ebr-1 reactor
NT2	brunswick-2 reactor	NT2	lingen reactor	NT1	ebr-2 reactor
NT2	chinshan-1 reactor	NT2	lungmen-1 reactor	NT1	egcr reactor
NT2	chinshan-2 reactor	NT2	lungmen-2 reactor	NT1	enrico fermi-1 reactor
NT2	clinton-1 reactor	NT2	mendocino-1 reactor	NT1	epec reactor
NT2	clinton-2 reactor	NT2	mendocino-2 reactor	NT1	escom reactor
NT2	cofrentes reactor	NT2	millstone-1 reactor	NT1	evsr reactor
NT2	cooper reactor	NT2	montague-1 reactor	NT1	fulton-1 reactor
NT2	dodeward reactor	NT2	montague-2 reactor	NT1	fulton-2 reactor
NT2	douglas point-1 reactor	NT2	montalto di castro-1 reactor	NT1	ga standard reactor
NT2	douglas point-2 reactor	NT2	montalto di castro-2 reactor	NT1	gcre reactor
NT2	dresden-1 reactor	NT2	monticello reactor	NT1	ginna-2 reactor
NT2	dresden-2 reactor	NT2	muehleberg reactor	NT1	hartlepool reactor
NT2	dresden-3 reactor	NT2	nine mile point-1 reactor	NT1	hbwr reactor
NT2	duane arnold-1 reactor	NT2	nine mile point-2 reactor	NT1	heysham-a reactor
NT2	ebwr reactor	NT2	okg-1 reactor	NT1	heysham-b reactor
NT2	enel-4 reactor	NT2	okg-2 reactor	NT1	hinkley point-b reactor
NT2	enrico fermi-2 reactor	NT2	okg-3 reactor	NT1	hnpf reactor
NT2	err reactor	NT2	olkiluoto-1 reactor	NT1	hokuriku-1 reactor
NT2	fitzpatrick reactor	NT2	olkiluoto-2 reactor	NT1	hre-2 reactor
NT2	forsmark-1 reactor	NT2	onagawa-1 reactor	NT1	hunterston-b reactor
NT2	forsmark-2 reactor	NT2	onagawa-2 reactor	NT1	ignalina-1 reactor
NT2	forsmark-3 reactor	NT2	onagawa-3 reactor	NT1	ignalina-2 reactor
NT2	fukushima-1 reactor	NT2	oyster creek-1 reactor	NT1	jervis bay reactor
NT2	fukushima-2 reactor	NT2	pathfinder reactor	NT1	joyo reactor
NT2	fukushima-3 reactor	NT2	peach bottom-2 reactor	NT1	kaiga-3 reactor
NT2	fukushima-4 reactor	NT2	peach bottom-3 reactor	NT1	kaiga-4 reactor
NT2	fukushima-5 reactor	NT2	perry-1 reactor	NT1	knk-2 reactor
NT2	fukushima-6 reactor	NT2	perry-2 reactor	NT1	knk reactor
NT2	fukushima-ii-1 reactor	NT2	philippsburg-1 reactor	NT1	kursk-1 reactor
NT2	fukushima-ii-2 reactor	NT2	phipps bend-1 reactor	NT1	kursk-2 reactor
NT2	fukushima-ii-3 reactor	NT2	phipps bend-2 reactor	NT1	kursk-3 reactor
NT2	fukushima-ii-4 reactor	NT2	pilgrim-1 reactor	NT1	kursk-4 reactor
NT2	garigliano reactor	NT2	quad cities-1 reactor	NT1	lampre-1 reactor
NT2	garona reactor	NT2	quad cities-2 reactor	NT1	leningrad-1 reactor
NT2	ge standard reactor	NT2	ringhals-1 reactor	NT1	leningrad-2 reactor
NT2	graben-1 reactor	NT2	river bend-1 reactor	NT1	leningrad-3 reactor
NT2	graben-2 reactor	NT2	river bend-2 reactor	NT1	leningrad-4 reactor
NT2	grand gulf-1 reactor	NT2	rwe-bayernwerk reactor	NT1	magnox type reactors
NT2	grand gulf-2 reactor	NT2	shika-1 reactor	NT2	berkeley reactor
NT2	gundremmingen-2 reactor	NT2	shika-2 reactor	NT2	bradwell reactor
NT2	gundremmingen-3 reactor	NT2	shimane-1 reactor	NT2	calder hall a-1 reactor
NT2	hamaoka-1 reactor	NT2	shimane-2 reactor	NT2	calder hall a-2 reactor
NT2	hamaoka-2 reactor	NT2	shimane-3 reactor	NT2	calder hall b-3 reactor
NT2	hamaoka-3 reactor	NT2	shoreham reactor	NT2	calder hall b-4 reactor
NT2	hamaoka-4 reactor	NT2	skagit-1 reactor	NT2	chapelcross-1 reactor
NT2	hamaoka-5 reactor	NT2	skagit-2 reactor	NT2	chapelcross-2 reactor
NT2	hartsville-1 reactor	NT2	sl-1 reactor	NT2	chapelcross-3 reactor
NT2	hartsville-2 reactor	NT2	susquehanna-1 reactor	NT2	chapelcross-4 reactor
NT2	hartsville-3 reactor	NT2	susquehanna-2 reactor	NT2	dungeness-a reactor
NT2	hartsville-4 reactor	NT2	tarapur-1 reactor	NT2	hinkley point-a reactor
NT2	hatch-1 reactor	NT2	tarapur-2 reactor	NT2	hunterston-a reactor
NT2	hatch-2 reactor	NT2	tokai-2 reactor	NT2	latina reactor
NT2	hdr reactor	NT2	tsuruga reactor	NT2	oldbury-a reactor
NT2	higashidori-1 reactor	NT2	tullnerfeld reactor	NT2	sizewell-a reactor
NT2	hope creek-1 reactor	NT2	vak reactor	NT2	tokai-mura reactor
NT2	hope creek-2 reactor	NT2	vbwr reactor	NT2	trawsfynydd reactor
NT2	humboldt bay reactor	NT2	vermont yankee reactor	NT2	wylfa reactor

NT1	marviken reactor	NT2	aircraft propulsion reactors	NT2	calhoun-1 reactor
NT1	ml-1 reactor	NT3	xma-1 reactor	NT2	calhoun-2 reactor
NT1	monju reactor	NT2	ship propulsion reactors	NT2	callaway-1 reactor
NT1	msre reactor	NT3	efdr-50 reactor	NT2	callaway-2 reactor
NT1	mzfr reactor	NT3	lenin reactor	NT2	calvert cliffs-1 reactor
NT1	n-reactor	NT3	leonid brezhnev reactor	NT2	calvert cliffs-2 reactor
NT1	narora-1 reactor	NT3	mutsu reactor	NT2	carem 25 reactor
NT1	narora-2 reactor	NT3	otto hahn reactor	NT2	catawba-1 reactor
NT1	okg-4 reactor	NT3	savannah reactor	NT2	catawba-2 reactor
NT1	oldbury-b reactor	NT3	sibir reactor	NT2	cattenom-1 reactor
NT1	package reactors	NT2	space propulsion reactors	NT2	cattenom-2 reactor
NT1	peach bottom-1 reactor	NT3	kiwi reactors	NT2	cattenom-3 reactor
NT1	pec brasimone reactor	NT4	kiwi-tnt reactor	NT2	cattenom-4 reactor
NT1	perryman-1 reactor	NT3	nerva reactor	NT2	ce standard reactor
NT1	perryman-2 reactor	NT3	nrx-a1 reactor	NT2	changjiang-1 reactor
NT1	pfr reactor	NT3	nrx-a2 reactor	NT2	changjiang-2 reactor
NT1	phenix reactor	NT3	nrx-a3 reactor	NT2	chasnupp-1 reactor
NT1	plbr reactor	NT3	nrx-a4-est reactor	NT2	chasnupp-2 reactor
NT1	pnpf reactor	NT3	nrx-a5 reactor	NT2	chasnupp-3 reactor
NT1	pressure tube reactors	NT3	nrx-a6 reactor	NT2	cherokee-1 reactor
NT2	atucha-1 reactor	NT3	nrx-a7 reactor	NT2	cherokee-2 reactor
NT2	atucha-2 reactor	NT3	pewee-1 reactor	NT2	cherokee-3 reactor
NT2	candu type reactors	NT3	pewee-2 reactor	NT2	chinon-b1 reactor
NT3	bruce-1 reactor	NT3	pewee-3 reactor	NT2	chinon-b2 reactor
NT3	bruce-2 reactor	NT3	pewee-4 reactor	NT2	chinon-b3 reactor
NT3	bruce-3 reactor	NT3	phoebus-1a reactor	NT2	chinon-b4 reactor
NT3	bruce-4 reactor	NT3	phoebus-1b reactor	NT2	chooz-a reactor
NT3	bruce-5 reactor	NT3	phoebus-2a reactor	NT2	chooz-b1 reactor
NT3	bruce-6 reactor	NT3	rover reactors	NT2	chooz-b2 reactor
NT3	bruce-7 reactor	NT3	twmr reactor	NT2	civaux-1 reactor
NT3	bruce-8 reactor	NT3	xe-2 reactor	NT2	civaux-2 reactor
NT3	cernavoda-1 reactor	NT2	tory-2a reactor	NT2	comanche peak-1 reactor
NT3	cernavoda-2 reactor	NT2	tory-2c reactor	NT2	comanche peak-2 reactor
NT3	cordoba reactor	NT2	xe-prime reactor	NT2	connecticut yankee reactor
NT3	darlington-1 reactor	NT1	pwr type reactors	NT2	cook-1 reactor
NT3	darlington-2 reactor	NT2	aguirre reactor	NT2	cook-2 reactor
NT3	darlington-3 reactor	NT2	almaraz-1 reactor	NT2	cruas-1 reactor
NT3	darlington-4 reactor	NT2	almaraz-2 reactor	NT2	cruas-2 reactor
NT3	douglas point ontario reactor	NT2	angra-1 reactor	NT2	cruas-3 reactor
NT3	embalse reactor	NT2	angra-2 reactor	NT2	cruas-4 reactor
NT3	gentilly-1 reactor	NT2	angra-3 reactor	NT2	crystal river-3 reactor
NT3	gentilly-2 reactor	NT2	arkansas-1 reactor	NT2	crystal river-4 reactor
NT3	kaiga-1 reactor	NT2	arkansas-2 reactor	NT2	dampierre-1 reactor
NT3	kaiga-2 reactor	NT2	asco-1 reactor	NT2	dampierre-2 reactor
NT3	kakrapar-1 reactor	NT2	asco-2 reactor	NT2	dampierre-3 reactor
NT3	kakrapar-2 reactor	NT2	atlantic-1 reactor	NT2	dampierre-4 reactor
NT3	kanupp reactor	NT2	atlantic-2 reactor	NT2	davis besse-1 reactor
NT3	npd reactor	NT2	basf-1 reactor	NT2	davis besse-2 reactor
NT3	pickering-1 reactor	NT2	basf-2 reactor	NT2	davis besse-3 reactor
NT3	pickering-2 reactor	NT2	beaver valley-1 reactor	NT2	daya bay-1 reactor
NT3	pickering-3 reactor	NT2	beaver valley-2 reactor	NT2	daya bay-2 reactor
NT3	pickering-4 reactor	NT2	bellefonte-1 reactor	NT2	diablo canyon-1 reactor
NT3	pickering-5 reactor	NT2	bellefonte-2 reactor	NT2	diablo canyon-2 reactor
NT3	pickering-6 reactor	NT2	belleville-1 reactor	NT2	doel-1 reactor
NT3	pickering-7 reactor	NT2	belleville-2 reactor	NT2	doel-2 reactor
NT3	pickering-8 reactor	NT2	beznau-1 reactor	NT2	doel-3 reactor
NT3	point lepreau-1 reactor	NT2	beznau-2 reactor	NT2	doel-4 reactor
NT3	point lepreau-2 reactor	NT2	biblis-1 reactor	NT2	efdr-50 reactor
NT3	qinshan-3-1 reactor	NT2	biblis-2 reactor	NT2	emsland reactor
NT3	qinshan-3-2 reactor	NT2	biblis-3 reactor	NT2	erie-1 reactor
NT3	rajasthan-1 reactor	NT2	biblis-4 reactor	NT2	erie-2 reactor
NT3	rajasthan-2 reactor	NT2	blayais-1 reactor	NT2	fangchenggang-1 reactor
NT3	rajasthan-3 reactor	NT2	blayais-2 reactor	NT2	fangchenggang-2 reactor
NT3	rajasthan-4 reactor	NT2	blayais-3 reactor	NT2	fangjiashan-1 reactor
NT3	wolsung-1 reactor	NT2	blayais-4 reactor	NT2	fangjiashan-2 reactor
NT3	wolsung-2 reactor	NT2	blue hills-1 reactor	NT2	farley-1 reactor
NT3	wolsung-3 reactor	NT2	blue hills-2 reactor	NT2	farley-2 reactor
NT3	wolsung-4 reactor	NT2	borsselle reactor	NT2	fessenheim-1 reactor
NT2	cirene reactor	NT2	br-3 reactor	NT2	fessenheim-2 reactor
NT2	cvtr reactor	NT2	braidwood-1 reactor	NT2	flamanville-1 reactor
NT2	el-4 reactor	NT2	braidwood-2 reactor	NT2	flamanville-2 reactor
NT2	jatr reactor	NT2	brokdorf reactor	NT2	flamanville-3 reactor
NT2	kalpakkam-1 reactor	NT2	bugey-2 reactor	NT2	forked river-1 reactor
NT2	kalpakkam-2 reactor	NT2	bugey-3 reactor	NT2	fuqing-1 reactor
NT2	lucens reactor	NT2	bugey-4 reactor	NT2	fuqing-2 reactor
NT2	niederaichbach reactor	NT2	bugey-5 reactor	NT2	fuqing-3 reactor
NT2	prtr reactor	NT2	bw standard reactor	NT2	fuqing-4 reactor
NT2	sgshr reactor	NT2	byron-1 reactor	NT2	fuqing-5 reactor
NT1	propulsion reactors	NT2	byron-2 reactor	NT2	fuqing-6 reactor

NT2	genkai-1 reactor	NT2	mihama-1 reactor	NT2	rowe yankee reactor
NT2	genkai-2 reactor	NT2	mihama-2 reactor	NT2	s1c prototype reactor
NT2	genkai-3 reactor	NT2	mihama-3 reactor	NT2	saint alban-1 reactor
NT2	genkai-4 reactor	NT2	millstone-2 reactor	NT2	saint alban-2 reactor
NT2	ginna-1 reactor	NT2	millstone-3 reactor	NT2	saint laurent-b1 reactor
NT2	goesgen reactor	NT2	mulheim-kaerlich reactor	NT2	saint laurent-b2 reactor
NT2	golfech-1 reactor	NT2	mutsu reactor	NT2	salem-1 reactor
NT2	golfech-2 reactor	NT2	neckar-1 reactor	NT2	salem-2 reactor
NT2	grafenrheinfeld reactor	NT2	neckar-2 reactor	NT2	san onofre-1 reactor
NT2	gravelines-1 reactor	NT2	nep-1 reactor	NT2	san onofre-2 reactor
NT2	gravelines-2 reactor	NT2	nep-2 reactor	NT2	san onofre-3 reactor
NT2	gravelines-3 reactor	NT2	neupotz-1 reactor	NT2	savannah reactor
NT2	gravelines-4 reactor	NT2	neupotz-2 reactor	NT2	saxton reactor
NT2	gravelines-5 reactor	NT2	ningde-1 reactor	NT2	seabrook-1 reactor
NT2	gravelines-6 reactor	NT2	ningde-2 reactor	NT2	seabrook-2 reactor
NT2	greene county reactor	NT2	ningde-3 reactor	NT2	selni reactor
NT2	greenwood-2 reactor	NT2	ningde-4 reactor	NT2	sendai-1 reactor
NT2	greenwood-3 reactor	NT2	nogent-1 reactor	NT2	sendai-2 reactor
NT2	grohnde reactor	NT2	nogent-2 reactor	NT2	sequoyah-1 reactor
NT2	hamm-uentrop reactor	NT2	north anna-1 reactor	NT2	sequoyah-2 reactor
NT2	hanbit-1 reactor	NT2	north anna-2 reactor	NT2	shin-kori-1 reactor
NT2	hanbit-2 reactor	NT2	north anna-3 reactor	NT2	shin-kori-2 reactor
NT2	hanbit-3 reactor	NT2	north anna-4 reactor	NT2	shin-kori-3 reactor
NT2	hanbit-4 reactor	NT2	north coast-1 reactor	NT2	shin-wolsong-1 reactor
NT2	hanbit-5 reactor	NT2	obrigheim reactor	NT2	shippingport reactor
NT2	hanbit-6 reactor	NT2	oconee-1 reactor	NT2	sizewell-b reactor
NT2	harris-1 reactor	NT2	oconee-2 reactor	NT2	sm-1 reactor
NT2	harris-2 reactor	NT2	oconee-3 reactor	NT2	sm-1a reactor
NT2	harris-3 reactor	NT2	oi-1 reactor	NT2	south texas project-1 reactor
NT2	harris-4 reactor	NT2	oi-2 reactor	NT2	south texas project-2 reactor
NT2	haven-1 reactor	NT2	oi-3 reactor	NT2	stade reactor
NT3	koshkonong-1 reactor	NT2	oi-4 reactor	NT2	sterling-1 reactor
NT2	haven-2 reactor	NT2	oktemberyan-2 reactor	NT2	sterling-2 reactor
NT3	koshkonong-2 reactor	NT2	olkiluoto-3 reactor	NT2	summer-1 reactor
NT2	hongyanhe-1 reactor	NT2	otto hahn reactor	NT2	sundesert-1 reactor
NT2	hongyanhe-2 reactor	NT2	palisades-1 reactor	NT2	sundesert-2 reactor
NT2	hongyanhe-3 reactor	NT2	palo verde-1 reactor	NT2	surry-1 reactor
NT2	hongyanhe-4 reactor	NT2	palo verde-2 reactor	NT2	surry-2 reactor
NT2	ikata-2 reactor	NT2	palo verde-3 reactor	NT2	surry-3 reactor
NT2	ikata-3 reactor	NT2	palo verde-4 reactor	NT2	surry-4 reactor
NT2	ikata reactor	NT2	palo verde-5 reactor	NT2	takahama-1 reactor
NT2	indian point-1 reactor	NT2	paluel-1 reactor	NT2	takahama-2 reactor
NT2	indian point-2 reactor	NT2	paluel-2 reactor	NT2	takahama-3 reactor
NT2	indian point-3 reactor	NT2	paluel-3 reactor	NT2	takahama-4 reactor
NT2	iran-1 reactor	NT2	paluel-4 reactor	NT2	three mile island-1 reactor
NT2	iran-2 reactor	NT2	pat reactor	NT2	three mile island-2 reactor
NT2	isar-2 reactor	NT2	pebble springs-1 reactor	NT2	tihange-2 reactor
NT2	jamesport-1 reactor	NT2	pebble springs-2 reactor	NT2	tihange-3 reactor
NT2	jamesport-2 reactor	NT2	penly-1 reactor	NT2	tihange reactor
NT2	kewaunee reactor	NT2	penly-2 reactor	NT2	tomari-1 reactor
NT2	koeberg-1 reactor	NT2	penly-3 reactor	NT2	tomari-2 reactor
NT2	koeberg-2 reactor	NT2	perkins-1 reactor	NT2	tomari-3 reactor
NT2	kori-1 reactor	NT2	perkins-2 reactor	NT2	tricastin-1 reactor
NT2	kori-2 reactor	NT2	perkins-3 reactor	NT2	tricastin-2 reactor
NT2	kori-3 reactor	NT2	philippsburg-2 reactor	NT2	tricastin-3 reactor
NT2	kori-4 reactor	NT2	pilgrim-2 reactor	NT2	tricastin-4 reactor
NT2	krsko reactor	NT2	pilgrim-3 reactor	NT2	trillo-1 reactor
NT2	lemoniz-1 reactor	NT2	pm-2a reactor	NT2	trojan reactor
NT2	lemoniz-2 reactor	NT2	pm-3a reactor	NT2	tsuruga-2 reactor
NT2	lenin reactor	NT2	pnpp-1 reactor	NT2	turkey point-3 reactor
NT2	leonid brezhnev reactor	NT2	point beach-1 reactor	NT2	turkey point-4 reactor
NT2	lingao-1 reactor	NT2	point beach-2 reactor	NT2	tva-1 reactor
NT2	lingao-2 reactor	NT2	prairie island-1 reactor	NT2	tva-2 reactor
NT2	lingao-3 reactor	NT2	prairie island-2 reactor	NT2	tyrone-1 reactor
NT2	lingao-4 reactor	NT2	qinshan-1 reactor	NT2	tyrone-2 reactor
NT2	loft reactor	NT2	qinshan-2-1 reactor	NT2	ulchin-1 reactor
NT2	lucie-1 reactor	NT2	qinshan-2-2 reactor	NT2	ulchin-2 reactor
NT2	lucie-2 reactor	NT2	qinshan-2-3 reactor	NT2	ulchin-3 reactor
NT2	maanshan-1 reactor	NT2	qinshan-2-4 reactor	NT2	ulchin-4 reactor
NT2	maanshan-2 reactor	NT2	quanicassee-1 reactor	NT2	ulchin-5 reactor
NT2	maine yankee reactor	NT2	quanicassee-2 reactor	NT2	ulchin-6 reactor
NT2	malibu-1 reactor	NT2	rancho seco-1 reactor	NT2	unterweser reactor
NT2	marble hill-1 reactor	NT2	remerschen reactor	NT2	vahnum-1 reactor
NT2	marble hill-2 reactor	NT2	rheinsberg akw1 reactor	NT2	vahnum-2 reactor
NT2	mc guire-1 reactor	NT2	ringhals-2 reactor	NT2	vandellos-2 reactor
NT2	mc guire-2 reactor	NT2	ringhals-3 reactor	NT2	vogtle-1 reactor
NT2	mh-1a reactor	NT2	ringhals-4 reactor	NT2	vogtle-2 reactor
NT2	midland-1 reactor	NT2	robinson-2 reactor	NT2	vogtle-3 reactor
NT2	midland-2 reactor	NT2	rooppur reactor	NT2	vogtle-4 reactor



NT2 waterford-3 reactor  
 NT2 waterford-4 reactor  
 NT2 watts bar-1 reactor  
 NT2 watts bar-2 reactor  
 NT2 westinghouse standard reactor  
 NT2 wnp-1 reactor  
 NT2 wnp-3 reactor  
 NT2 wnp-4 reactor  
 NT2 wnp-5 reactor  
 NT2 wolf creek-1 reactor  
 NT2 wup-3 reactor  
 NT2 wup-4 reactor  
 NT2 wup-5 reactor  
 NT2 wup-6 reactor  
 NT2 wwer type reactors  
   NT3 armenian-1 reactor  
   NT3 armenian-2 reactor  
   NT3 balakovo-1 reactor  
   NT3 balakovo-2 reactor  
   NT3 balakovo-3 reactor  
   NT3 balakovo-4 reactor  
   NT3 blahutovice-1 reactor  
   NT3 bohunice v-1 reactor  
   NT3 bohunice v-2 reactor  
   NT3 dukovany-1 reactor  
   NT3 dukovany-2 reactor  
   NT3 dukovany-3 reactor  
   NT3 dukovany-4 reactor  
   NT3 greifswald-1 reactor  
   NT3 greifswald-2 reactor  
   NT3 greifswald-3 reactor  
   NT3 greifswald-4 reactor  
   NT3 greifswald-5 reactor  
   NT3 greifswald-6 reactor  
   NT3 juragua-1 reactor  
   NT3 kalinin-1 reactor  
   NT3 kalinin-2 reactor  
   NT3 kalinin-3 reactor  
   NT3 kalinin-4 reactor  
   NT3 kecerovce-1 reactor  
   NT3 khmelnitskij-1 reactor  
   NT3 khmelnitskij-2 reactor  
   NT3 kola-1 reactor  
   NT3 kola-2 reactor  
   NT3 kola-3 reactor  
   NT3 kola-4 reactor  
   NT3 kozloduy-1 reactor  
   NT3 kozloduy-2 reactor  
   NT3 kozloduy-3 reactor  
   NT3 kozloduy-4 reactor  
   NT3 kozloduy-5 reactor  
   NT3 kozloduy-6 reactor  
   NT3 kudankulam-1 reactor  
   NT3 kudankulam-2 reactor  
   NT3 loviisa-1 reactor  
   NT3 loviisa-2 reactor  
   NT3 mochovce-1 reactor  
   NT3 mochovce-2 reactor  
   NT3 novovoronezh-1 reactor  
   NT3 novovoronezh-2 reactor  
   NT3 novovoronezh-3 reactor  
   NT3 novovoronezh-4 reactor  
   NT3 novovoronezh-5 reactor  
   NT3 paks-1 reactor  
   NT3 paks-2 reactor  
   NT3 paks-3 reactor  
   NT3 paks-4 reactor  
   NT3 rostov-1 reactor  
   NT3 rostov-2 reactor  
   NT3 rostov-3 reactor  
   NT3 rovno-1 reactor  
   NT3 rovno-2 reactor  
   NT3 rovno-3 reactor  
   NT3 rovno-4 reactor  
   NT3 rovno-5 reactor  
   NT3 south ukrainian-1 reactor  
   NT3 south ukrainian-2 reactor  
   NT3 south ukrainian-3 reactor  
   NT3 stendal-1 reactor

NT3 tatarian reactor  
 NT3 temelin-1 reactor  
 NT3 temelin-2 reactor  
 NT3 tianwan-1 reactor  
 NT3 tianwan-2 reactor  
 NT3 zaporozhe-1 reactor  
 NT3 zaporozhe-2 reactor  
 NT3 zaporozhe-3 reactor  
 NT3 zaporozhe-4 reactor  
 NT3 zaporozhe-5 reactor  
 NT3 zaporozhe-6 reactor  
 NT2 wyhl-1 reactor  
 NT2 wyhl-2 reactor  
 NT2 yangjiang-1 reactor  
 NT2 yangjiang-2 reactor  
 NT2 yangjiang-3 reactor  
 NT2 yangjiang-4 reactor  
 NT2 yellow creek-1 reactor  
 NT2 yellow creek-2 reactor  
 NT2 zion-1 reactor  
 NT2 zion-2 reactor  
 NT2 zorita-1 reactor  
 NT1 rajasthan-5 reactor  
 NT1 rajasthan-6 reactor  
 NT1 rancho seco-2 reactor  
 NT1 saint laurent-a1 reactor  
 NT1 saint laurent-a2 reactor  
 NT1 schmehausen-2 reactor  
 NT1 sefor reactor  
 NT1 smolensk-1 reactor  
 NT1 smolensk-2 reactor  
 NT1 smolensk-3 reactor  
 NT1 snr-2 reactor  
 NT1 snr reactor  
 NT1 space power reactors  
   NT2 snap reactors  
     NT3 snap 10 reactor  
     NT4 s10fs-1 reactor  
     NT4 s10fs-3 reactor  
     NT4 s10fs-4 reactor  
     NT3 snap 2 reactor  
     NT4 s2ds reactor  
     NT3 snap 50 reactor  
     NT3 snap 8 reactor  
     NT4 s8dr reactor  
     NT4 s8er reactor  
   NT2 space propulsion reactors  
     NT3 kiwi reactors  
     NT4 kiwi-tnt reactor  
   NT3 nerva reactor  
   NT3 nrx-a1 reactor  
   NT3 nrx-a2 reactor  
   NT3 nrx-a3 reactor  
   NT3 nrx-a4-est reactor  
   NT3 nrx-a5 reactor  
   NT3 nrx-a6 reactor  
   NT3 nrx-a7 reactor  
   NT3 pewee-1 reactor  
   NT3 pewee-2 reactor  
   NT3 pewee-3 reactor  
   NT3 pewee-4 reactor  
   NT3 phoebus-1a reactor  
   NT3 phoebus-1b reactor  
   NT3 phoebus-2a reactor  
   NT3 rover reactors  
   NT3 twmr reactor  
   NT3 xe-2 reactor  
 NT1 sre reactor  
 NT1 summit-1 reactor  
 NT1 summit-2 reactor  
 NT1 tarapur-3 reactor  
 NT1 tarapur-4 reactor  
 NT1 thermionic reactors  
 NT1 thermoelectric reactors  
 NT1 thtr-300 reactor  
 NT1 topaz reactor  
 NT1 torness reactor  
 NT1 vandello reactor  
 NT1 vg-400 reactor

NT1 vgr-50 reactor  
 NT1 vht reactor  
 NT1 vidal-1 reactor  
 NT1 vidal-2 reactor  
 NT1 vrain reactor  
 NT1 wagr reactor  
 RT agr type reactors  
 RT bhwr type reactors  
 RT desalination reactors  
 RT fbr type reactors  
 RT gcr type reactors  
 RT htgr type reactors  
 RT hwgcr type reactors  
 RT hwlwr type reactors  
 RT lwgr type reactors  
 RT lwor type reactors  
 RT nuclear power plants  
 RT omr type reactors  
 RT phwr type reactors  
 RT present worth method  
 RT process heat reactors  
 RT sgr type reactors  
 RT szr type reactors  
 RT underground nuclear stations

## POWER RELAY SATELLITES

2000-04-12

BT1 satellites  
 RT power transmission

## POWER SERIES

BT1 series expansion  
 RT mathematics

## POWER SUBSTATIONS

INIS: 1992-10-06; ETDE: 1976-07-07

Term is used for an assembly of equipment in an electric power system for the transmission, transformation, or switching of electric energy.

UF electric power substations  
 NT1 gas-insulated substations  
 RT power distribution systems  
 RT power generation  
 RT power plants  
 RT power systems  
 RT power transmission  
 RT power transmission lines

## POWER SUPPLIES

\*BT1 electronic equipment  
 NT1 marx generators  
 NT1 photovoltaic power supplies  
 NT1 radio equipment power supplies  
 NT1 spacecraft power supplies  
 NT1 uninterruptible power supplies  
 RT capacitors  
 RT dc to dc converters  
 RT direct energy converters  
 RT electric power  
 RT electrical equipment  
 RT gyrocons  
 RT inverters  
 RT klystrons  
 RT lasertrons  
 RT microwave power transmission  
 RT outages  
 RT power conditioning circuits  
 RT rf systems

## POWER SYSTEMS

INIS: 1982-12-07; ETDE: 1976-02-19

Includes electric power networks with associated generating and transmission facilities.

UF electric power systems  
 BT1 energy systems  
 NT1 ac systems  
   NT2 ehv ac systems  
   NT2 hvac systems  
   NT2 uhv ac systems

- NT1 brayton cycle power systems
- NT1 dc systems
  - NT2 ehv dc systems
  - NT2 hvdc systems
  - NT2 uhv dc systems
- NT1 interconnected power systems
- NT1 rankine cycle power systems
- NT1 smart grids
- NT1 solar-assisted power systems
- RT dispersed storage and generation
- RT electric power industry
- RT electrical transients
- RT gas-insulated transformers
- RT laser power transmission
- RT microwave power transmission
- RT outages
- RT power distribution systems
- RT power factor
- RT power generation
- RT power plants
- RT power substations
- RT power transmission
- RT power transmission lines
- RT underground power transmission
- RT var control systems

**POWER TRANSMISSION**

*The act or process of transporting electrical energy in bulk from a source or sources of supply to other principal parts of the system or to other utility systems.*

- SF *energy transmission*
- SF *energy transport*
- SF *transmission (energy)*
- SF *transport (energy)*
- NT1 laser power transmission
- NT1 microwave power transmission
- NT1 overhead power transmission
- NT1 underground power transmission
- RT electric power
- RT gas-insulated cables
- RT gas-insulated transformers
- RT hybrid systems
- RT interconnected power systems
- RT oil-filled cables
- RT outages
- RT power distribution systems
- RT power factor
- RT power losses
- RT power pooling
- RT power relay satellites
- RT power substations
- RT power systems
- RT power transmission lines
- RT shunt reactors
- RT var control systems

**POWER TRANSMISSION LINES**

1997-06-17

- UF *line losses*
- UF *transmission lines*
- RT current limiters
- RT electric cables
- RT electric power
- RT gas-insulated cables
- RT oil-filled cables
- RT power substations
- RT power systems
- RT power transmission
- RT rights-of-way
- RT shunt reactors

**POWER TRANSMISSION TOWERS**

INIS: 1993-03-26; ETDE: 1976-08-04

- UF *transmission towers*
- SF *towers*
- BT1 mechanical structures
- RT overhead power transmission

**POWERED SUPPORTS**

INIS: 2000-04-12; ETDE: 1977-06-24

- \*BT1 supports
- NT1 shield supports

**POYNTING THEOREM**

- UF *poyniting vector*
- RT flux density
- RT maxwell equations
- RT radiation flux
- RT vectors

**poyniting vector**

USE poyniting theorem

**pp chain**

INIS: 1978-11-24; ETDE: 1980-07-23

USE hydrogen burning

**pp-factor**

USE nicotinamide

**pr-10 aeg pruefreaktor**

USE aeg-pr-10 reactor

**pr-6 device**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE magnetic mirrors

**pr-7 device**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor; from March 1996 till March 1997 PR DEVICES was used for this concept.)

USE magnetic mirrors

**pr devices**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE magnetic mirrors

**PR SPRINGS DEPOSIT**

INIS: 2000-04-12; ETDE: 1976-11-17

\*BT1 oil sand deposits

RT oil sands

RT utah

**PRAETORIAN PROJECT**

INIS: 2000-04-12; ETDE: 1983-11-09

\*BT1 nuclear explosions

RT contained explosions

RT underground explosions

**prague wwr-s reactor**

INIS: 1998-09-23; ETDE: 2002-03-27

USE lvr-15 reactor

**PRAIRIE DOGS**

INIS: 2000-04-12; ETDE: 1977-12-22

\*BT1 rodents

**PRAIRIE ISLAND-1 REACTOR**

*Nuclear Management Co., LLC, Red Wing, Minnesota, USA.*

UF *red wing prairie island-1 reactor*

\*BT1 pwr type reactors

**PRAIRIE ISLAND-2 REACTOR**

*Nuclear Management Co., LLC, Red Wing, Minnesota, USA.*

UF *red wing prairie island-2 reactor*

\*BT1 pwr type reactors

**PRANDTL NUMBER**

- BT1 dimensionless numbers
- RT boundary layers
- RT diffusion
- RT heat transfer
- RT thermal diffusivity
- RT thermodynamic properties
- RT viscous flow

**PRASEODYMIUM**

\*BT1 rare earths

**PRASEODYMIUM 121**

INIS: 1992-09-23; ETDE: 1979-07-24

- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 122**

2007-04-20

- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 123**

2007-04-20

- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 124**

INIS: 1987-02-25; ETDE: 1987-05-01

- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 125**

2004-12-15

- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 126**

INIS: 1984-10-19; ETDE: 1984-11-06

- \*BT1 beta-plus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 127**

1998-09-23

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 128**

INIS: 1985-07-22; ETDE: 1985-08-08

- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 129**

INIS: 1977-06-14; ETDE: 1977-10-20

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 130**

INIS: 1977-06-14; ETDE: 1977-10-20

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 131**

INIS: 1977-06-14; ETDE: 1977-10-20

- \*BT1 beta-plus decay radioisotopes

- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 132**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 133**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 134**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 135**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 136**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 137**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 138**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 139**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 140**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 141**

- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

- \*BT1 stable isotopes

**PRASEODYMIUM 141 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**PRASEODYMIUM 142**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 147**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 148**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 149**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 150**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 151**

- 1977-01-26*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes

**PRASEODYMIUM 152**

- INIS: 1984-06-21; ETDE: 1984-07-10*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes

**PRASEODYMIUM 153**

- INIS: 1987-08-27; ETDE: 1987-09-18*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes

**PRASEODYMIUM 154**

- 1988-10-10*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes

**PRASEODYMIUM 155**

- 2007-04-20*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei

**PRASEODYMIUM 156**

- 2007-04-20*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei

**PRASEODYMIUM 157**

- 2007-04-20*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei

**PRASEODYMIUM 158**

- 2007-04-20*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei

**PRASEODYMIUM 159**

- 2007-04-20*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei

**PRASEODYMIUM ADDITIONS**

- Alloys containing not more than 1% Pr are listed here.*
- \*BT1 rare earth additions
  - RT praseodymium alloys

**PRASEODYMIUM ALLOYS**

- Alloys containing more than 1% Pr.*
- \*BT1 rare earth alloys
  - NT1 praseodymium base alloys
  - RT praseodymium additions

**PRASEODYMIUM ARSENIDES**

- INIS: 1976-02-05; ETDE: 1975-10-28*
- \*BT1 arsenides
  - \*BT1 praseodymium compounds

**PRASEODYMIUM BASE ALLOYS**

- \*BT1 praseodymium alloys

**PRASEODYMIUM BORIDES**

- \*BT1 borides
- \*BT1 praseodymium compounds

**PRASEODYMIUM BROMIDES**

- \*BT1 bromides
- \*BT1 praseodymium halides

**PRASEODYMIUM CARBIDES**

- \*BT1 carbides
- \*BT1 praseodymium compounds

**PRASEODYMIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 praseodymium compounds

**PRASEODYMIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 praseodymium halides

**PRASEODYMIUM COMPLEXES**

- \*BT1 rare earth complexes

**PRASEODYMIUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 praseodymium arsenides
- NT1 praseodymium borides
- NT1 praseodymium carbides
- NT1 praseodymium carbonates
- NT1 praseodymium halides
- NT2 praseodymium bromides
- NT2 praseodymium chlorides
- NT2 praseodymium fluorides
- NT2 praseodymium iodides
- NT1 praseodymium hydrides
- NT1 praseodymium hydroxides
- NT1 praseodymium nitrates
- NT1 praseodymium nitrides
- NT1 praseodymium oxides
- NT1 praseodymium perchlorates
- NT1 praseodymium phosphates
- NT1 praseodymium phosphides
- NT1 praseodymium selenides
- NT1 praseodymium silicates
- NT1 praseodymium silicides
- NT1 praseodymium sulfates
- NT1 praseodymium sulfides
- NT1 praseodymium tellurides
- NT1 praseodymium tungstates

**PRASEODYMIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 praseodymium halides

**PRASEODYMIUM HALIDES**

- 2012-07-25
- \*BT1 halides
  - \*BT1 praseodymium compounds
  - NT1 praseodymium bromides
  - NT1 praseodymium chlorides
  - NT1 praseodymium fluorides
  - NT1 praseodymium iodides

**PRASEODYMIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 praseodymium compounds

**PRASEODYMIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 praseodymium compounds

**PRASEODYMIUM IODIDES**

- \*BT1 iodides
- \*BT1 praseodymium halides

**PRASEODYMIUM IONS**

- \*BT1 ions

**PRASEODYMIUM ISOTOPES**

- BT1 isotopes
- NT1 praseodymium 121
- NT1 praseodymium 122
- NT1 praseodymium 123

- NT1 praseodymium 124
- NT1 praseodymium 125
- NT1 praseodymium 126
- NT1 praseodymium 127
- NT1 praseodymium 128
- NT1 praseodymium 129
- NT1 praseodymium 130
- NT1 praseodymium 131
- NT1 praseodymium 132
- NT1 praseodymium 133
- NT1 praseodymium 134
- NT1 praseodymium 135
- NT1 praseodymium 136
- NT1 praseodymium 137
- NT1 praseodymium 138
- NT1 praseodymium 139
- NT1 praseodymium 140
- NT1 praseodymium 141
- NT1 praseodymium 142
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- NT1 praseodymium 148
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- NT1 praseodymium 150
- NT1 praseodymium 151
- NT1 praseodymium 152
- NT1 praseodymium 153
- NT1 praseodymium 154
- NT1 praseodymium 155
- NT1 praseodymium 156
- NT1 praseodymium 157
- NT1 praseodymium 158
- NT1 praseodymium 159

**PRASEODYMIUM NITRATES**

- \*BT1 nitrates
- \*BT1 praseodymium compounds

**PRASEODYMIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 praseodymium compounds

**PRASEODYMIUM OXIDES**

- \*BT1 oxides
- \*BT1 praseodymium compounds

**PRASEODYMIUM PERCHLORATES**

- \*BT1 perchlorates
- \*BT1 praseodymium compounds

**PRASEODYMIUM PHOSPHATES**

- 1975-10-23
- \*BT1 phosphates
  - \*BT1 praseodymium compounds

**PRASEODYMIUM PHOSPHIDES**

- INIS: 1977-07-05; ETDE: 1975-11-28
- \*BT1 phosphides
  - \*BT1 praseodymium compounds

**PRASEODYMIUM SELENIDES**

- \*BT1 praseodymium compounds
- \*BT1 selenides

**PRASEODYMIUM SILICATES**

- 1988-10-10
- \*BT1 praseodymium compounds
  - \*BT1 silicates

**PRASEODYMIUM SILICIDES**

- INIS: 1975-10-29; ETDE: 1975-12-16
- \*BT1 praseodymium compounds
  - \*BT1 silicides

**PRASEODYMIUM SULFATES**

- \*BT1 praseodymium compounds
- \*BT1 sulfates

**PRASEODYMIUM SULFIDES**

- \*BT1 praseodymium compounds

- \*BT1 sulfides

**PRASEODYMIUM TELLURIDES**

- \*BT1 praseodymium compounds
- \*BT1 tellurides

**PRASEODYMIUM TUNGSTATES**

- INIS: 1991-09-16; ETDE: 1977-06-02
- \*BT1 praseodymium compounds
  - \*BT1 tungstates

**PRAWNS**

- INIS: 1977-04-07; ETDE: 1977-06-03
- \*BT1 decapods
  - RT lobsters
  - RT seafood
  - RT shrimp

**PRCF REACTOR**

- PNL, Richland, Washington, USA.
- UF plutonium recycle critical facility
  - UF pnl-pref reactor
  - \*BT1 plutonium reactors
  - \*BT1 tank type reactors
  - \*BT1 zero power reactors

**pre (photoreactivating enzyme)**

- INIS: 1984-04-04; ETDE: 2002-04-26
- USE enzymes
  - USE photoreactivation

**PREAMPLIFIERS**

- \*BT1 amplifiers

**PRECAMBRIAN ERA**

- INIS: 1992-04-14; ETDE: 1977-10-19
- BT1 geologic ages

**PRECESSION**

- NT1 larmor precession
- RT gyroscopes
- RT migma devices
- RT orbits
- RT rotation

**precetron storage ring**

- 1996-07-08  
(Until June 1996 this was a valid descriptor.)
- USE storage rings

**PRECIPITATION**

- In chemical processes only; see also ATMOSPHERIC PRECIPITATIONS, ELECTRON PRECIPITATION, PROTON PRECIPITATION, and PRECIPITATION HARDENING.

- BT1 separation processes
- NT1 coprecipitation
- NT1 flocculation
- RT agglomeration
- RT crystallization
- RT deposition
- RT hydrometallurgy
- RT salting-out agents
- RT scaling
- RT sedimentation
- RT solubility
- RT supersaturation
- RT waste processing

**PRECIPITATION HARDENING**

- BT1 hardening
- RT age hardening

**PRECIPITATION SCAVENGING**

- BT1 separation processes
- RT washout

**precipitations (atmospheric)**

- USE atmospheric precipitations

**PRECIPITINS**

- BT1 antibodies

**precision**

INIS: 1975-12-09; ETDE: 2002-04-26  
USE accuracy

**PRECOMPOUND-NUCLEUS****EMISSION**

Emission of a few high-energy nucleons resulting from direct processes before establishment of the statistical equilibrium of the compound nucleus.

UF preequilibrium nuclear processes  
BT1 nuclear reactions  
RT deep inelastic heavy ion reactions  
RT evaporation model  
RT incomplete fusion reactions  
RT quasi-fission

**PRECURSOR**

RT biosynthesis  
RT earthquakes  
RT metabolism  
RT nucleic acids  
RT rock bursts

**precursors (delayed neutron)**

INIS: 2000-04-12; ETDE: 1976-12-16  
USE delayed neutron precursors

**precursors (delayed neutrons)**

USE delayed neutron precursors

**precursors (delayed proton)**

INIS: 2000-04-12; ETDE: 1976-12-16  
USE delayed proton precursors

**precursors (delayed protons)**

INIS: 1976-10-29; ETDE: 2002-04-26  
USE delayed proton precursors

**PREDATOR-PREY INTERACTIONS**

INIS: 1992-05-04; ETDE: 1979-03-28  
RT behavior  
RT ecology  
RT ecosystems  
RT food chains  
RT population dynamics  
RT symbiosis

**prediction**

USE forecasting

**PREDICTION EQUATIONS**

BT1 equations

**PREDISSOCIATION**

BT1 dissociation

**PREDNISOLONE**

\*BT1 glucocorticoids

**PREDNISONE**

\*BT1 glucocorticoids

**preequilibrium nuclear processes**

INIS: 2000-04-12; ETDE: 1976-11-01  
USE precompound-nucleus emission

**PREFABRICATED BUILDINGS**

INIS: 2000-04-12; ETDE: 1982-01-07  
UF manufactured buildings  
UF metal buildings  
BT1 buildings  
RT mobile homes

**preferred orientation**

USE grain orientation

**PREFERRED SPECIES**

INIS: 1986-07-09; ETDE: 1976-04-19  
Species particularly suited for revegetation of reclaimed land.  
BT1 plants  
RT gramineae

RT land reclamation  
RT revegetation  
RT shrubs  
RT trees

**PREGNANCY**

RT abortion  
RT embryos  
RT fetuses  
RT gynecology  
RT hpl  
RT life cycle  
RT parturition  
RT placenta  
RT prenatal exposure  
RT prenatal irradiation  
RT progesterone  
RT reproduction  
RT reproductive disorders  
RT uterus

**pregnanediol**

INIS: 1996-10-23; ETDE: 1980-11-25  
(Until October 1996 this was a valid descriptor.)  
USE hydroxy compounds  
USE pregnanes

**PREGNANES**

1996-10-23  
UF pregnanediol  
UF pregnanetriol  
\*BT1 steroids  
NT1 corticosteroids  
NT2 glucocorticoids  
NT3 corticosterone  
NT3 cortisone  
NT3 dexamethasone  
NT3 hydrocortisone  
NT3 prednisolone  
NT3 prednisone  
NT2 mineralocorticoids  
NT3 aldosterone  
NT1 hydroxypregnenone  
NT1 progesterone

**pregnanetriol**

INIS: 1996-07-08; ETDE: 1980-11-25  
(Until June 1996 this was a valid descriptor.)  
USE hydroxy compounds  
USE pregnanes

**pregnenolone**

USE hydroxypregnenone

**preheating**

INIS: 2000-04-12; ETDE: 1979-06-06  
USE heat treatments

**PRENATAL EXPOSURE**

INIS: 1986-04-04; ETDE: 1980-05-06  
For prenatal exposure to radiation use

PRENATAL IRRADIATION.  
NT1 prenatal irradiation  
RT biological effects  
RT biological stress  
RT fetuses  
RT pregnancy  
RT toxicity

**PRENATAL IRRADIATION**

UF in utero irradiation  
BT1 irradiation  
BT1 prenatal exposure  
RT embryos  
RT fetuses  
RT perinatal irradiation  
RT pregnancy

**PRENFLO PROCESS**

INIS: 2000-04-12; ETDE: 1989-05-31  
Pressurized entrained flow gasification process derived from Koppers-Totzek atmospheric pressure process.  
\*BT1 coal gasification

**PREONS**

INIS: 1984-07-20; ETDE: 1984-08-20  
Postulated particles which are constituents of both quarks and leptons.  
\*BT1 postulated particles  
RT color model  
RT composite models  
RT leptons  
RT quarks

**preparation (chemical)**

USE chemical preparation

**preparation (sample)**

USE sample preparation

**PRESENT WORTH METHOD**

RT cost  
RT fuel cycle  
RT power reactors

**PRESERVATION**

NT1 radiopreservation  
NT2 radurization  
RT bacterial spores  
RT cultural objects  
RT disinfection  
RT food  
RT food processing  
RT fumigants  
RT grain disinfection  
RT ifip  
RT inactivation  
RT organoleptic properties  
RT pasteurization  
RT preservatives  
RT sterilization  
RT wholesomeness

**PRESERVATIVES**

INIS: 1999-05-03; ETDE: 1975-12-16  
RT additives  
RT creosote  
RT dioxin  
RT preservation

**PRESSES**

RT extrusion  
RT forging  
RT machine tools  
RT pressing  
RT tools

**PRESSING**

\*BT1 materials working  
NT1 cold pressing  
NT1 hot pressing  
RT compacting  
RT dies  
RT extrusion  
RT forging  
RT presses

**pressure (1-10 atm)**

2003-11-19  
USE pressure range kilo pa

**pressure (1-10 bar)**

2003-11-19  
USE pressure range kilo pa

**pressure (1-10 milli bar)**

2003-11-19  
USE pressure range pa

**pressure (10-100 atm)**

2003-11-19

USE pressure range mega pa 01-10

**pressure (10-100 bar)**

2003-11-19

USE pressure range mega pa 01-10

**pressure (10-1000 milli bar)**

2003-11-19

USE pressure range kilo pa

**pressure (100-1000 atm)**

USE pressure range mega pa 10-100

**pressure (1000-10000 atm)**

2003-11-19

USE pressure range mega pa 100-1000

**pressure (10000 atm and above)**

2003-11-19

USE pressure range giga pa

**pressure (7.5 - 7.5x10(3) torr)**

2003-11-19

USE pressure range kilo pa

**pressure (7.5x10(-3) - 7.5 torr)**

2003-11-19

USE pressure range pa

**pressure (critical)**

USE critical pressure

**pressure (plasma)**

USE plasma pressure

**pressure (radiation)**

USE radiation pressure

**pressure (vapor)**

USE vapor pressure

**PRESSURE COEFFICIENT**

BT1 reactivity coefficients

**PRESSURE CONTROL**

1986-04-04

BT1 control  
 RT pressure measurement  
 RT pressure regulators  
 RT pressure release  
 RT pressure suppression  
 RT pressure vessels

**PRESSURE DEPENDENCE**

Combine with the relevant descriptor from the  
 PRESSURE RANGE word block.

UF pressure effects  
 RT overpressure  
 RT pressure drop  
 RT pressure range

**PRESSURE DROP**

RT flow rate  
 RT fluid flow  
 RT pressure dependence  
 RT pressure gradients

**pressure effects**

INIS: 1992-04-29; ETDE: 1984-03-19

(Prior to June 1993, this was a valid ETDE descriptor.)

USE pressure dependence

**PRESSURE GAGES**

UF gages (pressure)  
 UF manometers  
 BT1 measuring instruments  
 NT1 barometers  
 NT1 hot-wire gages  
 NT2 pirani gages  
 NT1 vacuum gages

NT2 ionization gages

NT3 bayard-alpert gages

NT3 philips gages

NT3 radioactive ionization gages

NT2 knudsen gages

NT2 pirani gages

RT bellows

RT pressure measurement

**PRESSURE GRADIENTS**

RT onsager relations

RT pressure drop

RT pressure measurement

RT pressurization

**pressure groups**

INIS: 1982-12-03; ETDE: 1980-12-08

USE interest groups

**pressure maintenance**

INIS: 1984-12-04; ETDE: 1976-07-07

USE pressurization

**PRESSURE MEASUREMENT**

NT1 piezometry

RT atmospheric pressure

RT geobarometry

RT pressure control

RT pressure gages

RT pressure gradients

**PRESSURE RANGE**

2003-11-19

NT1 pressure range below 1 nano pa

NT1 pressure range giga pa

NT1 pressure range kilo pa

NT1 pressure range mega pa

NT2 pressure range mega pa 01-10

NT2 pressure range mega pa 10-100

NT2 pressure range mega pa 100-1000

NT1 pressure range micro pa

NT1 pressure range milli pa

NT1 pressure range nano pa

NT1 pressure range pa

RT pressure dependence

RT vacuum pumps

**PRESSURE RANGE BELOW 1 NANO PA**

2003-11-19

From 0 to 10 exp -9 pascal.

(Prior to November 2003 ULTRAHIGH VACUUM was used for this pressure range.)

UF vacuum (below 1 nano pa)

UF vacuum (below 7.5x10(-12) torr)

SF ultrahigh vacuum

BT1 pressure range

**PRESSURE RANGE GIGA PA**

2003-11-19

From 10 exp 9 to 10 exp 12 pascal.

(Prior to November 2003 VERY HIGH PRESSURE was used for this pressure range.)

UF pressure (10000 atm and above)

SF very high pressure

BT1 pressure range

**PRESSURE RANGE KILO PA**

2003-11-19

From 10 exp 3 to 10 exp 6 pascal.

(Prior to November 2003 MEDIUM PRESSURE or LOW PRESSURE was used for this pressure range.)

UF pressure (1-10 atm)

UF pressure (1-10 bar)

UF pressure (10-1000 milli bar)

UF pressure (7.5 - 7.5x10(3) torr)

UF vacuum (7.5 - 7.5x10(3) torr)

SF low pressure

SF medium pressure

SF rough vacuum

SF vacuum (rough)

BT1 pressure range

**PRESSURE RANGE MEGA PA**

2003-11-19

From 10 exp 6 to 10 exp 9 pascal.

BT1 pressure range

NT1 pressure range mega pa 01-10

NT1 pressure range mega pa 10-100

NT1 pressure range mega pa 100-1000

**PRESSURE RANGE MEGA PA 01-10**

2003-11-19

(Prior to November 2003 MEDIUM

PRESSURE was used for this pressure range.)

UF pressure (10-100 atm)

UF pressure (10-100 bar)

SF medium pressure

\*BT1 pressure range mega pa

**PRESSURE RANGE MEGA PA 10-100**

2003-11-19

(Prior to November 2003 HIGH PRESSURE was used for this pressure range.)

UF high pressure

UF pressure (100-1000 atm)

\*BT1 pressure range mega pa

**PRESSURE RANGE MEGA PA 100-1000**

2003-11-19

(Prior to November 2003 VERY HIGH

PRESSURE was used for this pressure range.)

UF pressure (1000-10000 atm)

SF very high pressure

\*BT1 pressure range mega pa

**PRESSURE RANGE MICRO PA**

2003-11-19

From 10 exp -6 to 10 exp -3 pascal.

(Prior to November 2003 HIGH VACUUM was used for this pressure range.)

UF vacuum (1-1000 micro pa)

UF vacuum (7.5x10(-9) - 7.5x10(-6) torr)

SF high vacuum

SF ultrahigh vacuum

BT1 pressure range

**PRESSURE RANGE MILLI PA**

2003-11-19

From 10 exp -3 to 1 pascal.

(Prior to November 2003 MEDIUM VACUUM or HIGH VACUUM was used for this pressure range.)

UF vacuum (1-1000 milli pa)

UF vacuum (7.5x10(-6) - 7.5x10(-3) torr)

SF high vacuum

SF medium vacuum

SF very low pressure

BT1 pressure range

**PRESSURE RANGE NANO PA**

2003-11-19

From 10 exp -9 to 10 exp -6 pascal.

(Prior to November 2003 ULTRAHIGH VACUUM was used for this pressure range.)

UF vacuum (1-1000 nano pa)

UF vacuum (7.5x10(-12) - 7.5x10(-9) torr)

SF ultrahigh vacuum

BT1 pressure range

**PRESSURE RANGE PA**

2003-11-19

From 1 to 1000 pascal.

(Prior to November 2003 LOW PRESSURE or MEDIUM VACUUM was used for this pressure range.)

UF pressure (1-10 milli bar)

UF pressure (7.5x10(-3) - 7.5 torr)

UF vacuum (1-1000 pa)

UF vacuum (7.5x10(-3) - 7.5 torr)

UF vacuum insulation panels  
 SF low pressure  
 SF medium vacuum  
 SF rough vacuum  
 SF vacuum (rough)  
 SF very low pressure  
 BT1 pressure range

**PRESSURE REGULATORS**

\*BT1 control equipment  
 RT pressure control

**PRESSURE RELEASE**

RT hazards  
 RT pressure control  
 RT reactor safety  
 RT safety engineering

**PRESSURE SUPPRESSION**

*The suppression of pressure within a containment by some technique such as a water spray.*

RT condensation chambers  
 RT containment spray systems  
 RT pressure control  
 RT pressure vessels  
 RT reactor accidents  
 RT reactor safety

**PRESSURE TUBE REACTORS**

1999-09-07

\*BT1 power reactors  
 NT1 atucha-1 reactor  
 NT1 atucha-2 reactor  
 NT1 candu type reactors  
 NT2 bruce-1 reactor  
 NT2 bruce-2 reactor  
 NT2 bruce-3 reactor  
 NT2 bruce-4 reactor  
 NT2 bruce-5 reactor  
 NT2 bruce-6 reactor  
 NT2 bruce-7 reactor  
 NT2 bruce-8 reactor  
 NT2 cernavoda-1 reactor  
 NT2 cernavoda-2 reactor  
 NT2 cordoba reactor  
 NT2 darlington-1 reactor  
 NT2 darlington-2 reactor  
 NT2 darlington-3 reactor  
 NT2 darlington-4 reactor  
 NT2 douglas point ontario reactor  
 NT2 embalse reactor  
 NT2 gentilly-1 reactor  
 NT2 gentilly-2 reactor  
 NT2 kaiga-1 reactor  
 NT2 kaiga-2 reactor  
 NT2 kakrapar-1 reactor  
 NT2 kakrapar-2 reactor  
 NT2 kanupp reactor  
 NT2 npd reactor  
 NT2 pickering-1 reactor  
 NT2 pickering-2 reactor  
 NT2 pickering-3 reactor  
 NT2 pickering-4 reactor  
 NT2 pickering-5 reactor  
 NT2 pickering-6 reactor  
 NT2 pickering-7 reactor  
 NT2 pickering-8 reactor  
 NT2 point lepreau-1 reactor  
 NT2 point lepreau-2 reactor  
 NT2 qinshan-3-1 reactor  
 NT2 qinshan-3-2 reactor  
 NT2 rajasthan-1 reactor  
 NT2 rajasthan-2 reactor  
 NT2 rajasthan-3 reactor  
 NT2 rajasthan-4 reactor  
 NT2 wolsung-1 reactor  
 NT2 wolsung-2 reactor  
 NT2 wolsung-3 reactor  
 NT2 wolsung-4 reactor

NT1 cirene reactor  
 NT1 cvtr reactor  
 NT1 el-4 reactor  
 NT1 jatr reactor  
 NT1 kalpakkam-1 reactor  
 NT1 kalpakkam-2 reactor  
 NT1 lucens reactor  
 NT1 niederaichbach reactor  
 NT1 prtr reactor  
 NT1 sghwr reactor

**PRESSURE TUBES**

BT1 tubes  
 RT borescopes  
 RT calandrias  
 RT reactor cooling systems

**PRESSURE VESSELS**

UF vessels (pressure)  
 BT1 containers  
 RT autoclaves  
 RT depressurization  
 RT depressurization systems  
 RT overpressure  
 RT pipe fittings  
 RT pressure control  
 RT pressure suppression

**PRESSURIZATION**

INIS: 1984-12-04; ETDE: 1976-07-07

(Prior to November 1990 this material was indexed to PRESSURIZING in ETDE.)

UF pressure maintenance  
 UF pressurizing  
 UF repressuring  
 RT compression  
 RT depressurization  
 RT fluid injection  
 RT pressure gradients  
 RT pressurizers  
 RT transients

**pressurized heavy water cooled/moderated reactor**

1993-11-09

USE phwr type reactors

**pressurized subcritical experiment savannah**

1993-11-09

USE pse reactor

**pressurized water cooled moderated reactor**

1993-11-09

USE pwr type reactors

**pressurized water reactors**

USE pwr type reactors

**PRESSURIZERS**

RT compressors  
 RT pressurization  
 RT reactor cooling systems

**pressurizing**

INIS: 1984-12-04; ETDE: 1976-07-07

(Prior to November 1990 this was a valid ETDE descriptor.)

USE pressurization

**PRESTRESSED CONCRETE**

\*BT1 composite materials  
 \*BT1 concretes

**prevention of marine pollution, 1972 london convention on**

INIS: 2002-03-02; ETDE: 2002-04-26

USE lcpmpdpw

**prevention of significant deterioration**

INIS: 2000-04-12; ETDE: 1979-07-24

*US pollution regulation resulting from the Clean Air and Clean Water Acts of 1976 and 1980, respectively. Use the appropriate descriptor(s) for POLLUTION ABATEMENT below and OPTIMIZATION, if appropriate. (Prior to March 1997 this was a valid ETDE descriptor.)*

SEE air pollution abatement  
 SEE land pollution abatement  
 SEE water pollution abatement

**PREVENTIVE MEDICINE**

UF prophylaxis  
 BT1 medicine  
 RT accidents  
 RT environment  
 RT epidemiology  
 RT health hazards  
 RT immunity  
 RT inspection  
 RT medical examinations  
 RT medical surveillance  
 RT public health  
 RT radiation protection

**PRICE-ANDERSON ACT**

INIS: 1978-04-21; ETDE: 1976-10-13

BT1 laws  
 RT civil liability  
 RT legal aspects  
 RT nuclear insurance  
 RT nuclear liability

**PRICES**

1992-02-21

(Prior to June 1979 CHARGES was used for this concept in ETDE. From April 1978 till March 1997 RATE STRUCTURE was a valid descriptor.)

UF rate structure  
 NT1 incremental-cost pricing  
 NT1 marginal-cost pricing  
 NT1 peak-load pricing  
 NT1 retail prices  
 NT1 rolled-in pricing  
 NT1 time-of-use pricing  
 NT1 wellhead prices  
 NT1 wholesale prices  
 RT charges  
 RT cost  
 RT economic elasticity  
 RT energy expenses  
 RT entitlements program  
 RT fuel adjustment mechanisms  
 RT income  
 RT pricing regulations  
 RT retailers  
 RT spot market

**PRICING REGULATIONS**

INIS: 1992-02-23; ETDE: 1979-11-23

\*BT1 regulations  
 RT deregulation  
 RT economic policy  
 RT prices  
 RT us natural gas policy act

**prigogine-balescu theory**

USE prigogine theorem

**PRIGOGINE THEOREM**

UF balescu theory  
 UF prigogine-balescu theory  
 UF van hove-prigogine theory  
 RT irreversible processes

**PRIMAKOFF EFFECT**

\*BT1 photoproduction

RT pions neutral

## PRIMAKOFF THEORY

RT fermi interactions

## PRIMARY BATTERIES

INIS: 2000-04-12; ETDE: 1976-05-17

RT electric batteries

RT electrochemical cells

## PRIMARY COOLANT CIRCUITS

UF primary coolant loops

\*BT1 reactor cooling systems

NT1 coolant cleanup systems

RT electromagnetic filters

### primary coolant loops

2018-03-19

USE primary coolant circuits

## PRIMARY COSMIC RADIATION

\*BT1 cosmic radiation

NT1 cosmic alpha particles

NT1 cosmic gamma bursts

NT1 cosmic nuclei

NT1 cosmic x-ray bursts

RT cosmic gamma sources

RT cosmic ray sources

## PRIMARY RECOVERY

INIS: 2000-04-12; ETDE: 1979-02-23

UF natural depletion

SF recovery

RT natural gas

RT petroleum

## PRIMARY-SECONDARY HYBRID BATTERIES

2000-04-12

Hybrid systems consisting of a primary battery and a rechargeable battery.

\*BT1 electric batteries

## PRIMATES

\*BT1 mammals

NT1 apes

NT1 man

NT2 children

NT3 infants

NT2 elderly people

NT2 men

NT2 women

NT1 monkeys

NT2 baboons

NT2 macacus

## PRIMENE

\*BT1 amines

## PRINCE EDWARD ISLAND

INIS: 1979-02-21; ETDE: 1980-07-23

\*BT1 canada

BT1 islands

RT atlantic ocean

### princeton beta experiment

INIS: 1988-11-16; ETDE: 2001-01-23

USE pbx devices

## PRINCETON CYCLOTRON

\*BT1 isochronous cyclotrons

### princeton large torus

INIS: 1975-10-23; ETDE: 1975-08-19

USE plt devices

## PRINCETON SYNCHROTRON

\*BT1 synchrotrons

## PRINTED CIRCUITS

BT1 electronic circuits

RT microelectronic circuits

## PRINTING AND PUBLISHING INDUSTRY

INIS: 1999-05-26; ETDE: 1979-12-10

BT1 industry

RT paper industry

RT wood products industry

## PRIPET RIVER

INIS: 1992-05-13; ETDE: 1992-09-21

UF pripyat river

\*BT1 rivers

RT chernobylsk-4 reactor

RT dneiper river

RT ukraine

### pripyat river

INIS: 1992-05-13; ETDE: 1992-09-21

USE pripet river

## PRISM PLOT

INIS: 1977-07-05; ETDE: 1977-10-19

Phase-space plot of a three-particle final state.

\*BT1 scatterplots

RT linear momentum

RT phase space

RT resonance particles

## PRISMATIC CONFIGURATION

BT1 configuration

RT plates

RT slabs

## PRISMS

INIS: 2000-01-21; ETDE: 1976-02-19

RT geometry

RT shape

## PRIVACY ACT

INIS: 2000-04-12; ETDE: 1976-10-13

The U.S. Privacy Act of 1974.

BT1 laws

RT documentation

RT information

### private law

INIS: 1990-12-15; ETDE: 2002-04-26

(Prior to December 1990, this was a valid descriptor.)

USE laws

## PRIVATE VEHICLES

2006-05-24

Transportation means not available for general public use, for such vehicles see MASS TRANSIT SYSTEMS. Use also a more specific term from the word block of VEHICLES if appropriate.

BT1 transportation systems

## PRNC-L-77 REACTOR

Univ. of Puerto Rico, College Station, Mayaguez, Puerto Rico, USA. Shut down in 1979.

UF l-77 puerto rico reactor

UF mayaguez puerto rico l-77 reactor

UF puerto rico nuclear center l-77 reactor

\*BT1 aqueous homogeneous reactors

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 training reactors

## PROBABILISTIC ESTIMATION

INIS: 1986-04-04; ETDE: 1983-01-21

Analytical technique for calculation of unknown quantities and the uncertainty associated with the probabilistic estimates of those quantities.

UF probabilistic safety assessment

BT1 calculation methods

RT deterministic estimation

RT fault tree analysis

RT forecasting

RT probability

RT resource assessment

RT risk assessment

RT safety analysis

RT statistics

### probabilistic safety assessment

2003-12-17

USE probabilistic estimation

USE risk assessment

## PROBABILITY

RT chaos theory

RT ergodic hypothesis

RT expectation value

RT fuzzy logic

RT game theory

RT maximum-likelihood fit

RT monte carlo method

RT probabilistic estimation

RT probability density functions

RT risk assessment

RT statistics

## PROBABILITY DENSITY FUNCTIONS

2007-01-08

Real-valued functions whose integrals over sets give the probabilities that random variables have values in these sets.

BT1 functions

RT density functional method

RT probability

RT statistics

## PROBES

UF sondes

NT1 deuteron probes

NT1 electric probes

NT2 langmuir probe

NT2 plasma eaters

NT1 electron probes

NT1 electrostatic probes

NT1 ion probes

NT1 magnetic probes

NT1 muon probes

NT1 neutron probes

NT1 proton probes

NT1 sonic probes

RT measuring instruments

RT sensors

RT well logging equipment

## PROCA EQUATIONS

\*BT1 partial differential equations

RT quantum mechanics

## PROCAINE

UF novocaine

\*BT1 anesthetics

## PROCEEDINGS

1996-05-14

Use only for items about proceedings, not for items which are proceedings.

BT1 document types

RT meetings

## PROCESS COMPUTERS

INIS: 1976-07-16; ETDE: 1979-05-25

Computers - usually digital - used for the control of technical processes.

BT1 computers

RT on-line control systems

RT reactor control systems

RT real time systems

## PROCESS CONTROL

INIS: 1992-02-04; ETDE: 1975-12-16

BT1 control



RT ore processing  
 RT processing  
 RT reprocessing  
 RT waste processing

### process development pile

USE pdp reactor

### PROCESS DEVELOPMENT UNITS

INIS: 1984-04-04; ETDE: 1977-01-10

UF pdu  
 BT1 functional models  
 RT bench-scale experiments  
 RT demonstration plants  
 RT field tests  
 RT pilot plants

### PROCESS HEAT

INIS: 2000-05-17; ETDE: 1975-09-12

Heat for industrial processes.

UF heat (process)  
 \*BT1 heat  
 NT1 geothermal process heat  
 NT1 solar process heat  
 RT dual-purpose power plants  
 RT process heat reactors  
 RT retorting

### PROCESS HEAT REACTORS

BT1 reactors  
 NT1 agesta reactor  
 NT1 midland-1 reactor  
 NT1 midland-2 reactor  
 NT1 nhr-5 reactor  
 NT1 pm-2a reactor  
 NT1 ser reactor  
 NT1 sl-1 reactor  
 NT1 slowpoke-wnre reactor  
 NT1 sm-1a reactor  
 NT1 snap 10 reactor  
 NT2 s10fs-1 reactor  
 NT2 s10fs-3 reactor  
 NT2 s10fs-4 reactor  
 NT1 snap-tsrf reactor  
 NT1 thermos reactor  
 RT power reactors  
 RT process heat

### PROCESS SOLUTIONS

INIS: 1992-04-02; ETDE: 1978-04-27

UF plating solutions  
 \*BT1 solutions

### processes (adiabatic)

USE adiabatic processes

### processes (isentropic)

USE isentropic processes

### processes (isothermal)

USE isothermal processes

### PROCESSING

2000-02-01

Use of one of the more specific terms listed below is recommended.

NT1 coprocessing  
 NT1 data processing  
 NT2 data acquisition  
 NT2 data analysis  
 NT3 cluster analysis  
 NT3 data visualization  
 NT2 data compilation  
 NT2 distributed data processing  
 NT2 memory management  
 NT2 spectra unfolding  
 NT2 task scheduling  
 NT1 food processing  
 NT2 pasteurization  
 NT3 radication  
 NT2 radappertization

NT2 radurization  
 NT1 image processing  
 NT1 in-situ processing  
 NT2 in-situ combustion  
 NT2 in-situ gasification  
 NT2 in-situ liquefaction  
 NT2 in-situ retorting  
 NT2 solution mining  
 NT1 odorization  
 NT1 ore processing  
 NT2 ore enrichment  
 NT2 retorting  
 NT3 in-situ retorting  
 NT1 refining  
 NT2 electrorefining  
 NT2 gulf hds process  
 NT2 zone refining  
 NT1 waste processing  
 NT2 activated sludge process  
 NT2 composting  
 NT2 fluidized bed refuse gasification  
 NT2 landgard pyrolysis system  
 NT2 lime-soda sinter process  
 NT2 materials recovery  
 NT2 molten salt waste gasification process  
 NT2 occidental flash pyrolysis process  
 NT2 purox pyrolysis process  
 NT2 radioactive waste processing  
 NT3 harvest process  
 NT2 slagging pyrolysis process  
 NT2 steam stripping  
 NT2 syngas process  
 NT2 unisulf process  
 NT2 wet oxidation processes  
 RT process control

### processing (data)

USE data processing

### processing (food)

INIS: 1997-06-05; ETDE: 2002-04-26

USE food processing

### processing (images)

INIS: 1997-06-05; ETDE: 2002-04-26

USE image processing

### processing (ores)

USE ore processing

### processing (wastes)

USE waste processing

### PROCTITIS

\*BT1 digestive system diseases  
 RT rectum

### PROCUREMENT

INIS: 1992-05-26; ETDE: 1976-04-19

BT1 business  
 RT accounting  
 RT cost  
 RT cost overruns  
 RT debt collection  
 RT goods and services  
 RT proposals  
 RT time delay

### PRODUCER GAS

2000-04-12

Gas manufactured by the action of air and steam on coke or coal. 130 to 140 btu per cubic foot.

\*BT1 low btu gas

### producer price index

INIS: 2000-04-12; ETDE: 1981-10-24

(Prior to March 1996 WHOLESAL PRICE

INDEX was used for this concept in ETDE.)

USE wholesale prices

### PRODUCT LABELING

INIS: 2000-04-12; ETDE: 1979-03-27

RT advertising  
 RT consumer protection

### PRODUCTION

Limited to industrial production; see also PARTICLE PRODUCTION.

UF output  
 RT availability  
 RT capacity  
 RT computer-aided manufacturing  
 RT fabrication  
 RT gross domestic product  
 RT gross national product  
 RT isotope production  
 RT manufacturing  
 RT planning  
 RT productivity

### production (beam)

USE beam production

### production (hydrogen)

INIS: 1994-10-13; ETDE: 1980-11-08

USE hydrogen production

### production (isotope)

INIS: 2000-04-12; ETDE: 1980-07-09

USE isotope production

### production (pair)

INIS: 2000-04-12; ETDE: 1980-11-08

USE pair production

### production (particle)

INIS: 2000-04-12; ETDE: 1980-07-09

USE particle production

### production (plasma)

INIS: 2000-04-12; ETDE: 1980-11-08

USE plasma production

### production capacity

INIS: 1982-12-03; ETDE: 1977-06-02

USE capacity

### PRODUCTION LOGGING

INIS: 2000-04-12; ETDE: 1977-01-10

Logging run inside tubing to measure production rate of oil or natural gas wells. Instrumentation may be flowmeters, gradiomanometer, densitometer, watercutmeter, thermometer, radioactive tracer tool, caliper, casing-collar locator, or fluid sampler.

BT1 well logging

### production mechanisms (particle)

INIS: 1993-11-09; ETDE: 2002-04-26

Production of elementary particles; when appropriate, more specific descriptors listed under PARTICLE PRODUCTION should be used instead.

USE particle production

### PRODUCTION REACTORS

For the production of fissile materials only; see also IRRADIATION REACTORS.

BT1 reactors  
 NT1 plutonium production reactors  
 NT2 calder hall a-1 reactor  
 NT2 calder hall a-2 reactor  
 NT2 calder hall b-3 reactor  
 NT2 calder hall b-4 reactor  
 NT2 chapelcross-1 reactor  
 NT2 chapelcross-2 reactor  
 NT2 chapelcross-3 reactor  
 NT2 chapelcross-4 reactor  
 NT2 g-1 reactor  
 NT2 g-2 reactor

- NT2 g-3 reactor
- NT2 hanford production reactors
- NT2 n-reactor
- NT2 windscale production reactors
- NT1 rtr reactor
- NT1 special production reactors
- NT2 c reactor
- NT2 k reactor
- NT2 l reactor
- NT2 p reactor
- NT2 r reactor
- NT1 sr-305 reactor

**production risers**

INIS: 2000-04-12; ETDE: 1977-04-12  
USE marine risers

**production tax**

INIS: 2000-04-12; ETDE: 1981-03-17  
USE severance tax

**PRODUCTIVITY**

- UF yield (biological)
- RT efficiency
- RT feasibility studies
- RT gas yields
- RT oil yields
- RT performance
- RT plant breeding
- RT production
- RT yields

**productivity factor**

INIS: 2000-04-12; ETDE: 1983-01-21  
USE formation damage

**professional personnel**

INIS: 2000-04-12; ETDE: 1979-03-28  
SEE architects  
SEE engineers  
SEE personnel  
SEE scientific personnel

**professions**

USE occupations

**PROFITS**

1992-04-09  
UF margins  
RT economics  
RT income  
RT royalties  
RT windfall profits tax

**PROFLAVINE**

\*BT1 flavines  
BT1 mutagens  
RT acriflavine

**PROGENY**

UF offsprings  
RT animal breeding  
RT children  
RT fertility  
RT litter size  
RT parturition  
RT plant breeding  
RT reproduction  
RT sex ratio

**PROGESTERONE**

1996-10-23  
UF progesterin  
\*BT1 ketones  
\*BT1 pregnanes  
\*BT1 steroid hormones  
RT hydroxypregnenone  
RT lth  
RT ovaries  
RT pregnancy

**progestin**

INIS: 2000-04-12; ETDE: 1978-10-23  
USE progesterone

**PROGNOZ SATELLITES**

BT1 satellites

**PROGRAM MANAGEMENT**

1992-05-21

(From February to May 1992, this concept was indexed to USDOE PROGRAM MANAGEMENT in ETDE.)

UF financial management  
UF project management  
UF us doe program management  
BT1 management  
NT1 contract management  
RT demonstration programs  
RT property management  
RT research programs

**PROGRAMMING**

Limited to computer programming. See also PLANNING.

UF computer programming  
NT1 data-flow processing  
NT1 parallel processing  
NT1 vector processing  
RT artificial intelligence  
RT computer codes  
RT computer program documentation  
RT computers  
RT executive codes  
RT expert systems  
RT fault tolerant computers  
RT graphical user interface  
RT knowledge base  
RT memory management  
RT programming languages  
RT translators

**PROGRAMMING LANGUAGES**

1996-07-23

(Natural language as well as specific languages listed below as UF terms have been valid ETDE descriptors.)

UF computer languages  
UF forth  
UF languages (programming)  
UF mimic  
UF natural language  
UF pl-11 language  
UF speakeasy  
NT1 ada  
NT1 algol  
NT1 basic  
NT1 cobol  
NT1 fortran  
NT1 java  
NT1 lisp  
NT1 pascal  
NT1 pl-1 language  
NT1 prolog  
RT computer codes  
RT computer program documentation  
RT programming  
RT translators

**PROGRESS REPORT**

INIS: 1987-09-22; ETDE: 1987-10-23  
Use only in conjunction with the literary indicator Y for indexing progress reports.  
BT1 document types

**prohibition of nuclear weapons (latin american treaty)**

INIS: 1993-11-09; ETDE: 2002-04-26  
USE tlattelolco treaty

**PROHIBITION ORDERS**

INIS: 2000-04-12; ETDE: 1980-08-12  
BT1 administrative procedures

**project anvil**

INIS: 1978-04-21; ETDE: 2002-06-13  
USE anvil project

**project apollo**

USE apollo project

**project bedrock**

INIS: 1976-11-08; ETDE: 2002-06-13  
USE bedrock project

**project buffalo**

1996-06-26  
(Prior to June 1996 BUFFALO PROJECT was a valid ETDE descriptor.)  
USE nuclear explosions

**project castle**

1976-11-17  
USE castle project

**project crossroads**

1976-11-17  
USE crossroads project

**project dominic**

1976-11-17  
USE dominic project

**project greenhouse**

1976-11-17  
USE greenhouse project

**project hardtack**

1976-11-17  
USE hardtack project

**PROJECT INDEPENDENCE**

2000-04-12  
\*BT1 energy policy

**project independence evaluation system**

INIS: 2000-04-12; ETDE: 1979-02-23  
USE pies

**project ivy**

2002-06-07  
(Prior to March 1996 IVY PROJECT was a valid ETDE descriptor.)  
USE nuclear explosions

**project jangle**

2002-06-07  
(Prior to March 1996 JANGLE PROJECT was a valid ETDE descriptor.)  
USE nuclear explosions

**project management**

INIS: 2000-04-12; ETDE: 1980-09-05  
USE program management

**project plowshare**

USE plowshare project

**project plumbbob**

1976-11-17  
USE plumbbob project

**project redwing**

INIS: 1985-01-17; ETDE: 2002-06-13  
USE redwing project

**project salt vault**

INIS: 2000-04-12; ETDE: 1980-12-08  
USE salt vault project

**project sunshine**

INIS: 2000-04-12; ETDE: 1976-05-17  
USE sunshine project

**project thunderbird**

INIS: 1983-09-05; ETDE: 1975-11-26  
USE thunderbird project

**project upshot**

1976-11-17  
USE upshot project

**project vela**

1976-11-17  
USE vela project

**PROJECTILES**

RT armor  
RT earth penetrators  
RT guns  
RT nuclear weapons  
RT rockets

**PROJECTION OPERATORS**

A mathematical operator for projecting a quantity, e.g., angular momentum, on a given coordinate.

BT1 mathematical operators  
RT aligned coupling scheme  
RT quantum mechanics  
RT wave functions

**PROJECTION SERIES**

INIS: 1994-07-01; ETDE: 1980-08-12  
BT1 energy models  
BT1 forecasting  
RT mathematical models

**PROJECTION SPARK CHAMBERS**

Charged-particle detectors that provide particle identification through ionization loss sampling as well as three-dimensional particle trajectory measurement.

\*BT1 spark chambers  
RT drift chambers  
RT fermilab collider detector  
RT multiwire proportional chambers  
RT time projection chambers

**projection welding**

1996-07-23  
(Until July 1996 this was a valid descriptor.)  
USE resistance welding

**projectors (scanning)**

USE scanning measuring projectors

**prolactin**

USE lth

**PROLIFERATION**

INIS: 1978-02-23; ETDE: 1977-08-09  
(From May 1987 till March 1997  
TERRORISM was a valid ETDE descriptor.)

UF non-proliferation  
UF nonproliferation  
UF nuclear weapons proliferation  
SF terrorism  
RT denatured fuel  
RT dual-use technologies  
RT fuel cycle  
RT non-proliferation policy  
RT non-proliferation treaty  
RT nuclear deterrence  
RT nuclear forensics  
RT nuclear materials possession  
RT nuclear weapons dismantlement  
RT safeguards

**proliferation (cell)**

INIS: 1978-04-21; ETDE: 2002-04-26  
USE cell proliferation

**proliferation resistant molten****salt/metal extraction**

INIS: 2000-04-12; ETDE: 1979-09-26  
USE reprocessing

**PROLINE**

UF 2-pyrrolidinecarboxylic acid  
\*BT1 amino acids  
\*BT1 heterocyclic acids  
\*BT1 pyrrolidines  
RT collagen  
RT hydroxyproline

**PROLOG**

INIS: 1989-04-20; ETDE: 1985-12-11  
BT1 programming languages

**promazine**

USE tranquilizers

**promethazine**

ETDE: 1981-04-20  
(Prior to April 1994, this was a valid ETDE descriptor.)  
USE antihistaminics

**PROMETHIUM**

UF illinium  
\*BT1 rare earths

**PROMETHIUM 126**

2007-11-22  
\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei

**PROMETHIUM 127**

2007-11-22  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei

**PROMETHIUM 128**

2007-11-22  
\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 129**

2006-01-18  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 130**

INIS: 1985-07-22; ETDE: 1985-08-08  
\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 131**

INIS: 1998-10-20; ETDE: 1998-11-04  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 132**

INIS: 1977-06-14; ETDE: 1977-10-20  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 promethium isotopes

\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 133**

INIS: 1977-06-14; ETDE: 1977-10-20  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 134**

INIS: 1977-04-07; ETDE: 1977-06-03  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 135**

INIS: 1976-01-28; ETDE: 1976-03-12  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 136**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei

**PROMETHIUM 137**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei

**PROMETHIUM 138**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei

**PROMETHIUM 139**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei

**PROMETHIUM 140**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 141**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei

**PROMETHIUM 142**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes

- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PROMETHIUM 143**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 144**

- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**PROMETHIUM 145**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**PROMETHIUM 145 TARGET**

*INIS: 1992-09-23; ETDE: 1986-04-29*  
BT1 targets

**PROMETHIUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**PROMETHIUM 147**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**PROMETHIUM 147 TARGET**

*INIS: 1984-05-24; ETDE: 1980-01-15*  
BT1 targets

**PROMETHIUM 148**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 149**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 149 TARGET**

*INIS: 1976-03-17; ETDE: 1976-07-12*  
BT1 targets

**PROMETHIUM 150**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 151**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 152**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 153**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 154**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 155**

- INIS: 1982-04-14; ETDE: 1981-09-08*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 promethium isotopes
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes

**PROMETHIUM 156**

- INIS: 1986-10-29; ETDE: 1986-11-20*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 promethium isotopes
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes

**PROMETHIUM 157**

- INIS: 1987-08-27; ETDE: 1987-10-02*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 promethium isotopes
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes

**PROMETHIUM 158**

- INIS: 1987-08-27; ETDE: 1987-10-02*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 promethium isotopes
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes

**PROMETHIUM 159**

- 2007-11-22*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 promethium isotopes
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes

**PROMETHIUM 160**

- 2007-11-22*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 promethium isotopes
  - \*BT1 rare earth nuclei

**PROMETHIUM 161**

- 2007-11-22*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 promethium isotopes
  - \*BT1 rare earth nuclei

**PROMETHIUM 162**

- 2007-11-22*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 promethium isotopes
  - \*BT1 rare earth nuclei

**PROMETHIUM 163**

- 2007-11-22*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 promethium isotopes
  - \*BT1 rare earth nuclei

**PROMETHIUM ADDITIONS**

*1996-07-23*  
*Alloys containing not more than 1% Pm are listed here.*  
\*BT1 rare earth additions

**promethium alloys**

*1996-07-23*  
*See also PROMETHIUM ADDITIONS.*  
*(Until July 1996 this was a valid descriptor.)*  
USE rare earth alloys

**PROMETHIUM BROMIDES**

*1996-07-23*  
*(From July 1996 to September 2007 PROMETHIUM COMPOUNDS + BROMIDES was used for this concept.)*  
\*BT1 bromides  
\*BT1 promethium halides

**PROMETHIUM CHLORIDES**

\*BT1 chlorides  
\*BT1 promethium halides

**PROMETHIUM COMPLEXES**

\*BT1 rare earth complexes

**PROMETHIUM COMPOUNDS**

*1997-06-19*  
BT1 rare earth compounds  
NT1 promethium halides  
NT2 promethium bromides  
NT2 promethium chlorides  
NT2 promethium fluorides  
NT2 promethium iodides  
NT1 promethium hydroxides  
NT1 promethium nitrates  
NT1 promethium oxides  
NT1 promethium phosphates

**PROMETHIUM FLUORIDES**

\*BT1 fluorides  
\*BT1 promethium halides

**PROMETHIUM HALIDES**

*2008-02-07*  
\*BT1 halides  
\*BT1 promethium compounds  
NT1 promethium bromides  
NT1 promethium chlorides  
NT1 promethium fluorides  
NT1 promethium iodides

**PROMETHIUM HYDROXIDES**

*2000-04-12*  
\*BT1 hydroxides  
\*BT1 promethium compounds

**PROMETHIUM IODIDES**

*1996-07-23*  
*(From July 1996 to February 2008 PROMETHIUM COMPOUNDS + IODIDES was used for this concept.)*  
\*BT1 iodides  
\*BT1 promethium halides

**PROMETHIUM IONS**

\*BT1 ions

**PROMETHIUM ISOTOPES**

BT1 isotopes  
NT1 promethium 126  
NT1 promethium 127  
NT1 promethium 128  
NT1 promethium 129  
NT1 promethium 130

NT1 promethium 131  
 NT1 promethium 132  
 NT1 promethium 133  
 NT1 promethium 134  
 NT1 promethium 135  
 NT1 promethium 136  
 NT1 promethium 137  
 NT1 promethium 138  
 NT1 promethium 139  
 NT1 promethium 140  
 NT1 promethium 141  
 NT1 promethium 142  
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 NT1 promethium 149  
 NT1 promethium 150  
 NT1 promethium 151  
 NT1 promethium 152  
 NT1 promethium 153  
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 NT1 promethium 155  
 NT1 promethium 156  
 NT1 promethium 157  
 NT1 promethium 158  
 NT1 promethium 159  
 NT1 promethium 160  
 NT1 promethium 161  
 NT1 promethium 162  
 NT1 promethium 163

**PROMETHIUM NITRATES**

\*BT1 nitrates  
 \*BT1 promethium compounds

**PROMETHIUM OXIDES**

\*BT1 oxides  
 \*BT1 promethium compounds

**PROMETHIUM PHOSPHATES**

2000-04-12

(From March 1997 to November 2007

PROMETHIUM COMPOUNDS +  
 PHOSPHATES was used for this concept.)

\*BT1 phosphates  
 \*BT1 promethium compounds

**promex process**

INIS: 2000-04-12; ETDE: 1979-09-26

*Method for reprocessing ceramic oxide or  
 carbide fuels using extraction by molten salts  
 followed by liquid metal extraction.*

(Prior to January 1995, this was a valid ETDE  
 descriptor.)

USE reprocessing

**prominences (solar)**

USE solar prominences

**PROMOTERS**

NT1 tumor promoters  
 RT catalysts

**PROMPT ELECTRONS**

\*BT1 electrons

**PROMPT GAMMA RADIATION**

UF pige analysis  
 \*BT1 gamma radiation  
 RT nuclear reactions  
 RT photons

**PROMPT NEUTRINOS**

2018-06-19

\*BT1 atmospheric neutrinos

**PROMPT NEUTRONS**

\*BT1 fission neutrons  
 RT fission spectra

RT watt fission spectrum

**PROMPT PROTONS**

\*BT1 protons

**prongs**

USE particle tracks

**PRONY METHOD**

INIS: 2000-04-12; ETDE: 1979-10-03

*Means of obtaining parametric  
 characterization of experimental data by  
 fitting with sum of complex exponentials.*

BT1 mathematics  
 BT1 parametric analysis  
 RT data analysis  
 RT data processing  
 RT least square fit  
 RT numerical analysis

**proof test facility united nuclear  
 corporation**

1993-11-09

USE ptf-unc reactor

**propadiene**

USE allene

**propagation (wave)**

USE wave propagation

**PROPAGATOR**

RT feynman path integral  
 RT quantum field theory

**PROPANE**

\*BT1 alkanes

**propanol (1-)**

ETDE: 2002-04-26

USE propanols

**PROPANOLS**

UF 1-propanol  
 UF 2-propanol  
 UF propanol (1-)  
 UF propyl alcohols  
 \*BT1 alcohols

**propanone**

USE acetone

**PROPARGYL RADICALS**

\*BT1 alkyl radicals

**propellants**

2000-04-12

(Prior to March 1997 this was a valid ETDE  
 descriptor.)

SEE explosives  
 SEE fuels

**propenal**

USE acrolein

**propene**

USE propylene

**PROPER MOTION**

*Motion of a star with relation to the celestial  
 sphere.*

BT1 motion  
 RT stars

**properdin**

2000-04-12

*One component of a complement.*

(Prior to March 1997 this was a valid ETDE  
 descriptor.)

USE complement  
 USE serine proteinases

**properties (chemical)**

INIS: 2000-04-12; ETDE: 1978-04-28

USE chemical properties

**properties (mechanical)**

INIS: 2000-04-12; ETDE: 1978-04-28

USE mechanical properties

**properties (physical)**

INIS: 2000-04-12; ETDE: 1978-04-28

USE physical properties

**property insurance**

INIS: 1990-12-15; ETDE: 2002-04-26

(Prior to December 1990, this was a valid  
 descriptor.)

USE insurance

**PROPERTY MANAGEMENT**

INIS: 1992-07-22; ETDE: 1983-03-24

BT1 management  
 RT program management  
 RT resource management

**PROPERTY RIGHTS**

INIS: 1986-07-09; ETDE: 1978-12-11

RT legal aspects  
 RT licenses  
 RT ownership  
 RT site approvals  
 RT water rights

**property tax exemption**

INIS: 1982-12-03; ETDE: 1980-04-14

USE financial incentives

**PROPERTY VALUES**

INIS: 1993-02-18; ETDE: 1978-02-14

RT economics  
 RT investment  
 RT socio-economic factors

**prophase**

USE mitosis

**prophylaxis**

USE preventive medicine

**propine**

USE propyne

**PROPIOLONITRILE**

2000-04-12

UF cyanoacetylene  
 \*BT1 nitriles

**PROPIONIC ACID**

\*BT1 monocarboxylic acids

**PROPORTIONAL COUNTERS**

\*BT1 radiation detectors  
 NT1 bf3 counters  
 NT1 boron lined counters  
 NT1 he-3 counters  
 NT1 liquid proportional counters  
 NT1 multiwire proportional chambers  
 NT2 drift chambers  
 NT3 time projection chambers  
 NT1 needle chambers  
 RT avalanche quenching  
 RT corona counters  
 RT flow counters  
 RT gas scintillation detectors  
 RT proton recoil detectors  
 RT wall effects  
 RT wall-less counters

**PROPOSALS**

INIS: 1999-03-15; ETDE: 1983-05-21

(From June 1978 until March 1996 BIDS was  
 a valid ETDE descriptor.)

UF bids

UF *unsolicited proposals*  
 RT contracts  
 RT procurement

**PROPOSED REMEDIAL ORDERS**

INIS: 2000-04-12; ETDE: 1979-12-10  
 BT1 administrative procedures

**PROPPING AGENTS**

INIS: 2000-04-12; ETDE: 1977-01-10  
*Materials, generally sand or other rock material, used to prop the artificial crevices formed when underground formations are fractured.*

RT borehole linking  
 RT natural gas wells  
 RT well completion

**PROPRIETARY INFORMATION**

INIS: 2000-04-12; ETDE: 1983-03-24  
 BT1 information  
 RT information dissemination

**PROPULSION**

NT1 ion propulsion  
 NT1 solar electric propulsion  
 RT ion thrusters  
 RT propulsion reactors  
 RT propulsion systems  
 RT thrusters  
 RT transport

**PROPULSION REACTORS**

SF 710 reactor  
 \*BT1 power reactors  
 NT1 aircraft propulsion reactors  
 NT2 xma-1 reactor  
 NT1 ship propulsion reactors  
 NT2 efd-50 reactor  
 NT2 lenin reactor  
 NT2 leonid brezhnev reactor  
 NT2 mutsu reactor  
 NT2 otto hahn reactor  
 NT2 savannah reactor  
 NT2 sibir reactor  
 NT1 space propulsion reactors  
 NT2 kiwi reactors  
 NT3 kiwi-tnt reactor  
 NT2 nerva reactor  
 NT2 nrx-a1 reactor  
 NT2 nrx-a2 reactor  
 NT2 nrx-a3 reactor  
 NT2 nrx-a4-est reactor  
 NT2 nrx-a5 reactor  
 NT2 nrx-a6 reactor  
 NT2 nrx-a7 reactor  
 NT2 pewee-1 reactor  
 NT2 pewee-2 reactor  
 NT2 pewee-3 reactor  
 NT2 pewee-4 reactor  
 NT2 phoebus-1a reactor  
 NT2 phoebus-1b reactor  
 NT2 phoebus-2a reactor  
 NT2 rover reactors  
 NT2 twmr reactor  
 NT2 xe-2 reactor  
 NT1 tory-2a reactor  
 NT1 tory-2c reactor  
 NT1 xe-prime reactor  
 RT propulsion  
 RT propulsion systems  
 RT zpr-9 reactor

**PROPULSION SYSTEMS**

INIS: 1986-01-21; ETDE: 1981-10-24  
 RT aircraft  
 RT ion thrusters  
 RT missiles  
 RT propulsion  
 RT propulsion reactors  
 RT rockets

RT thrusters  
 RT vehicles

**propyl alcohols**

USE propanols

**PROPYL RADICALS**

\*BT1 alkyl radicals

**PROPYLENE**

UF *propene*  
 \*BT1 alkenes  
 RT polypropylene

**propylene carbonate**

INIS: 2000-04-12; ETDE: 1980-12-08  
 USE carbonic acid esters

**PROPYNE**

UF *methylacetylene*  
 UF *propine*  
 \*BT1 alkynes

**PROSPECTING**

NT1 aerial prospecting  
 RT exploration  
 RT geochemical surveys  
 RT geologic surveys  
 RT geophysical surveys

**PROSTAGLANDINS**

RT hormones  
 RT prostate

**PROSTATE**

\*BT1 glands  
 \*BT1 male genitals  
 RT prostaglandins

**PROSTHESES**

1995-11-15  
 BT1 medical supplies  
 NT1 mechanical heart  
 RT artificial organs  
 RT cardiac pacemakers  
 RT surgical materials

**PROTACTINIUM**

\*BT1 actinides

**PROTACTINIUM 212**

INIS: 2000-04-12; ETDE: 1997-10-10  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 213**

INIS: 1995-05-22; ETDE: 1995-06-08  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 214**

INIS: 1995-05-22; ETDE: 1995-06-08  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 215**

INIS: 1979-09-18; ETDE: 1979-10-23  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 216**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 217**

1977-09-15

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 218**

INIS: 1977-09-15; ETDE: 1977-11-10

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 219**

INIS: 1986-12-09; ETDE: 1987-02-24

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 220**

1984-11-30

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 221**

1984-11-30

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 222**

INIS: 1977-03-01; ETDE: 1976-12-15

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 223**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 224**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 225**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes  
 \*BT1 seconds living radioisotopes

**PROTACTINIUM 226**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 227**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 228**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 229**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 230**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 231**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 neon 24 decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 protactinium isotopes
- \*BT1 years living radioisotopes

**PROTACTINIUM 231 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**PROTACTINIUM 232**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 232 TARGET**

- 1979-11-02*  
BT1 targets

**PROTACTINIUM 233**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 233 TARGET**

- INIS: 1980-07-24; ETDE: 1980-08-12*  
BT1 targets

**PROTACTINIUM 234**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 235**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

- \*BT1 protactinium isotopes

**PROTACTINIUM 236**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 237**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 238**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 239**

*1996-01-11*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 240**

*2007-11-22*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 protactinium isotopes

***protactinium additions***

*2000-03-28*

- (Until July 1996 this was a valid descriptor.)  
USE protactinium alloys  
USE protactinium compounds

**PROTACTINIUM ALLOYS**

*1996-07-23*

- Alloys containing more than 1% Pa.*  
*UF protactinium additions*  
\*BT1 actinide alloys

**PROTACTINIUM BROMIDES**

- \*BT1 bromides
- \*BT1 protactinium halides

**PROTACTINIUM CARBIDES**

*1997-01-28*

- (From November 1996 to November 2007  
PROTACTINIUM COMPOUNDS +  
CARBIDES was used for this concept.)  
\*BT1 carbides  
\*BT1 protactinium compounds

**PROTACTINIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 protactinium halides

**PROTACTINIUM COMPLEXES**

- \*BT1 actinide complexes

**PROTACTINIUM COMPOUNDS**

*1996-11-13*

- UF protactinium additions*  
BT1 actinide compounds  
NT1 protactinium carbides  
NT1 protactinium halides  
NT2 protactinium bromides  
NT2 protactinium chlorides  
NT2 protactinium fluorides  
NT2 protactinium iodides  
NT1 protactinium hydrides  
NT1 protactinium hydroxides  
NT1 protactinium nitrates  
NT1 protactinium oxides  
NT1 protactinium phosphates

- NT1 protactinium sulfates

**PROTACTINIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 protactinium halides

**PROTACTINIUM HALIDES**

*2008-02-07*

- \*BT1 halides
- \*BT1 protactinium compounds
- NT1 protactinium bromides
- NT1 protactinium chlorides
- NT1 protactinium fluorides
- NT1 protactinium iodides

**PROTACTINIUM HYDRIDES**

*INIS: 1997-01-28; ETDE: 1984-08-06*

(From November 1996 to November 2007

PROTACTINIUM COMPOUNDS +  
HYDRIDES was used for this concept.)

- \*BT1 hydrides
- \*BT1 protactinium compounds

**PROTACTINIUM HYDROXIDES**

*1996-07-23*

(From July 1996 to November 2007

PROTACTINIUM COMPOUNDS +  
HYDROXIDES was used for this concept.)

- \*BT1 hydroxides
- \*BT1 protactinium compounds

**PROTACTINIUM IODIDES**

*1997-01-28*

(From October 1996 to February 2008

PROTACTINIUM COMPOUNDS +  
IODIDES was used for this concept.)

- \*BT1 iodides
- \*BT1 protactinium halides

**PROTACTINIUM IONS**

- \*BT1 ions

**PROTACTINIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 protactinium 212
- NT1 protactinium 213
- NT1 protactinium 214
- NT1 protactinium 215
- NT1 protactinium 216
- NT1 protactinium 217
- NT1 protactinium 218
- NT1 protactinium 219
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- NT1 protactinium 235
- NT1 protactinium 236
- NT1 protactinium 237
- NT1 protactinium 238
- NT1 protactinium 239
- NT1 protactinium 240

**PROTACTINIUM NITRATES**

*1996-07-23*

(From July 1996 to November 2007

PROTACTINIUM COMPOUNDS +  
NITRATES was used for this concept.)

- \*BT1 nitrates
- \*BT1 protactinium compounds

**PROTACTINIUM OXIDES**

- \*BT1 oxides
- \*BT1 protactinium compounds

**PROTACTINIUM PHOSPHATES**

*INIS: 2000-04-12; ETDE: 1976-09-15*  
(From March 1997 to November 2007  
PROTACTINIUM COMPOUNDS +  
PHOSPHATES was used for this concept.)

- \*BT1 phosphates
- \*BT1 protactinium compounds

**PROTACTINIUM SULFATES**

*1996-07-23*  
(From July 1996 to November 2007  
PROTACTINIUM COMPOUNDS +  
SULFATES was used for this concept.)

- \*BT1 protactinium compounds
- \*BT1 sulfates

**PROTAMINES**

*1996-07-08*  
(Prior to August 1996 SALMIN was a valid  
ETDE descriptor.)

- UF salmin*
- \*BT1 coagulants
- \*BT1 proteins
- RT nucleoproteins*

**protected areas**

*2013-11-27*  
*USE nature reserves*

**protection**

*2000-04-12*  
*USE safety*

**protection (corrosion)**

*USE corrosion protection*

**protection (radiation)**

*USE radiation protection*

**protection (safety)**

*INIS: 1976-03-02; ETDE: 2002-04-26*  
*USE safety*

**protective chemicals**

*INIS: 2000-04-12; ETDE: 1977-04-12*  
*USE response modifying factors*

**PROTECTIVE CLOTHING**

- BT1 clothing
- NT1 gloves
- RT life support systems*
- RT radiation protection*
- RT respirators*
- RT skin absorption*

**PROTECTIVE COATINGS**

- BT1 coatings
- RT decontamination*
- RT latex*
- RT waterproofing*

**protein-bound iodine**

*USE pbi*

**PROTEIN DENATURATION**

- UF denaturation (protein)*
- RT heat treatments*
- RT molecular structure*
- RT ph value*
- RT protein structure*
- RT proteins*

**PROTEIN ENGINEERING**

*INIS: 1994-09-08; ETDE: 1988-04-15*  
*Alteration of the primary structure of a  
protein to enhance a desired property.*

- RT amino acid sequence*
- RT biochemical reaction kinetics*
- RT biotechnology*

- RT genetic engineering*
- RT polymerase chain reaction*
- RT structure-activity relationships*

**protein sequencing**

*INIS: 2000-04-12; ETDE: 1984-02-10*  
*USE amino acid sequence*

**PROTEIN STRUCTURE**

*1984-12-04*

- RT amino acid sequence*
- RT amino acids*
- RT molecular structure*
- RT post-translation modification*
- RT protein denaturation*
- RT proteins*
- RT structure-activity relationships*

**PROTEINS**

*1996-07-23*

- BT1 organic compounds
- NT1 actin
- NT1 albumins
- NT2 luciferin
- NT1 blood coagulation factors
- NT2 fibrin
- NT2 fibrinogen
- NT2 kallikrein
- NT2 plasminogen
- NT2 prothrombin
- NT2 thrombin
- NT2 thromboplastin
- NT2 urokinase
- NT1 calmodulin
- NT1 casein
- NT1 chlorophyll-binding proteins
- NT1 complement
- NT1 cytochromes
- NT1 enzymes
- NT2 dna helicases
- NT2 gene recombination proteins
- NT2 hydrolases
- NT3 acid anhydrases
- NT4 gtp-ases
- NT4 phosphohydrolases
- NT5 atp-ase
- NT3 esterases
- NT4 carboxylesterases
- NT5 cholinesterase
- NT5 lipases
- NT4 phosphatases
- NT5 acid phosphatase
- NT5 alkaline phosphatase
- NT5 nucleotidases
- NT4 phosphodiesterases
- NT5 nucleases
- NT6 dna-ase
- NT7 endonucleases
- NT6 rna-ase
- NT3 glycosyl hydrolases
- NT4 o-glycosyl hydrolases
- NT5 amylase
- NT5 cellulase
- NT5 galactosidase
- NT5 glucosidase
- NT5 glucuronidase
- NT5 hyaluronidase
- NT5 lysozyme
- NT5 xylanase
- NT3 non-peptide c-n hydrolases
- NT4 amidases
- NT5 arginase
- NT5 urease
- NT4 amidinases
- NT3 peptide hydrolases
- NT4 acid proteinases
- NT5 pepsin
- NT4 aminopeptidases
- NT4 carboxypeptidases
- NT4 nonspecific peptidases

- NT5 renin
- NT5 urokinase
- NT4 serine proteinases
- NT5 chymotrypsin
- NT5 fibrinolysin
- NT5 kallikrein
- NT5 thrombin
- NT5 trypsin
- NT4 sh-proteinases
- NT5 cathepsins
- NT5 papain
- NT5 streptococcal proteinase
- NT2 isomerases
- NT2 ligases
- NT2 lyases
- NT3 carbon-carbon lyases
- NT4 aldehyde-lyases
- NT4 aldolases
- NT4 carboxy-lyases
- NT5 carboxylase
- NT5 decarboxylases
- NT5 ribulose diphosphate  
carboxylase
- NT3 carbon-oxygen lyases
- NT4 hyaluronidase
- NT4 hydro-lyases
- NT5 carbonic anhydrase
- NT3 cyclases
- NT3 dna methylases
- NT2 oxidoreductases
- NT3 amine oxidases
- NT3 aryl 4-monooxygenase
- NT3 diaphorase
- NT3 hemiacetal dehydrogenases
- NT4 alcohol dehydrogenase
- NT4 lactate dehydrogenase
- NT3 hydrogenases
- NT3 hydroxylases
- NT4 tyrosinase
- NT3 nitro-group dehydrogenases
- NT4 nitrogenase
- NT3 oxidases
- NT4 cytochrome oxidase
- NT4 luciferase
- NT3 oxygenases
- NT4 mixed-function oxidases
- NT3 peroxidases
- NT4 catalase
- NT3 superoxide dismutase
- NT2 transferases
- NT3 carbon-group transferases
- NT4 methyl transferases
- NT3 glycosyl transferases
- NT4 hexosyl transferases
- NT4 pentosyl transferases
- NT5 hypoxanthine  
phosphoribosyltransferase
- NT3 nitrogen transferases
- NT4 aminotransferases
- NT3 phosphorus-group transferases
- NT4 nucleotidyltransferases
- NT5 polymerases
- NT6 dna polymerases
- NT6 rna polymerases
- NT4 phosphotransferases
- NT5 hexokinase
- NT1 gelatin
- NT1 globins
- NT2 hemoglobin
- NT3 methemoglobin
- NT2 myoglobin
- NT1 globulins
- NT2 angiotensin
- NT2 fibrinogen
- NT2 globulins-alpha
- NT3 ceruloplasmin
- NT3 haptoglobins
- NT2 globulins-beta
- NT3 transferrin



NT2 globulins-gamma  
 NT2 immunoglobulins  
 NT2 lactoferrin  
 NT2 myosin  
 NT2 thyroglobulin  
 NT1 glycoproteins  
 NT2 avidin  
 NT2 glucoproteins  
 NT3 lactoferrin  
 NT3 ovalbumin  
 NT2 luteinizing hormone  
 NT1 growth factors  
 NT2 lymphokines  
 NT3 interferon  
 NT1 heat-shock proteins  
 NT1 histones  
 NT1 lipoproteins  
 NT2 apolipoproteins  
 NT2 myelin  
 NT1 membrane proteins  
 NT2 porins  
 NT2 receptors  
 NT2 thylakoid membrane proteins  
 NT3 phycobiliproteins  
 NT4 phycocyanin  
 NT1 metalloproteins  
 NT2 ceruloplasmin  
 NT2 ferredoxin  
 NT2 ferritin  
 NT2 hemocyanin  
 NT2 hemosiderin  
 NT2 lactoferrin  
 NT2 metallothionein  
 NT2 rubredoxin  
 NT2 transferrin  
 NT1 mucoproteins  
 NT2 haptoglobins  
 NT2 intrinsic factor  
 NT2 phytohemagglutinin  
 NT1 nucleoproteins  
 NT1 pbi  
 NT1 peptide hormones  
 NT2 calcitonin  
 NT2 erythropoietin  
 NT2 gastrin  
 NT2 glucagon  
 NT2 insulin  
 NT2 leptin  
 NT2 parathormone  
 NT2 pituitary hormones  
 NT3 acth  
 NT3 gonadotropins  
 NT4 fsh  
 NT4 hcg  
 NT4 lh  
 NT4 luteinizing hormone  
 NT3 liberins  
 NT4 lh-rh  
 NT3 oxytocin  
 NT3 sth  
 NT3 tsh  
 NT3 vasopressin  
 NT2 secretin  
 NT2 thyroid hormones  
 NT3 diiodothyronine  
 NT3 thyrocalcitonin  
 NT3 thyroxine  
 NT3 triiodothyronine  
 NT2 thyronine  
 NT2 trh  
 NT1 peptides  
 NT2 cyclosporine  
 NT2 glycyglycine  
 NT2 polypeptides  
 NT3 calcitonin  
 NT3 endorphins  
 NT4 enkephalins  
 NT3 endothelins  
 NT3 gastrin

NT3 glucagon  
 NT3 glutathione  
 NT3 kinins  
 NT4 bradykinin  
 NT3 leptin  
 NT1 peptone  
 NT1 phosphoproteins  
 NT1 phytochromes  
 NT2 chlorophyll  
 NT1 protamines  
 NT1 rhodopsin  
 NT1 scleroproteins  
 NT2 collagen  
 NT2 fibrin  
 NT2 glutin  
 NT2 keratin  
 NT1 transcription factors  
 NT1 tropomyosin  
 NT1 zein  
 RT amino acid sequence  
 RT amino acids  
 RT blood plasma  
 RT cpb  
 RT dialysis  
 RT food  
 RT microtubules  
 RT peanuts  
 RT polyamides  
 RT post-translation modification  
 RT protein denaturation  
 RT protein structure  
 RT proteolysis  
 RT single cell protein

**proteolipids**

USE lipoproteins

**PROTEOLYSIS**

\*BT1 decomposition  
 NT1 fibrinolysis  
 RT catabolism  
 RT clostridium  
 RT peptide hydrolases  
 RT post-translation modification  
 RT proteins

**PROTEUS**

\*BT1 bacteria  
 RT feces  
 RT soils

**PROTEUS REACTOR**

*Eidgenoessisches Institut fuer Reaktorforschung, Wuerenlingen, Argovie, Switzerland.*

UF wuerenlingen proteus reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

**PROTHROMBIN**

\*BT1 blood coagulation factors

**protium**

INIS: 1975-09-01; ETDE: 2002-04-26  
 USE hydrogen 1

**PROTO-CLEO STELLARATORS**

\*BT1 stellarators  
 RT cleo stellarator

**PROTON-ANTINEUTRON INTERACTIONS**

(Prior to February 1995 ANTINEUTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF antineutron-deuteron interactions  
 \*BT1 nucleon-antinucleon interactions

**PROTON-ANTIPROTON INTERACTIONS**

(From January 1975 till May 1996 antiproton-deuteron interactions was a valid ETDE descriptor.)

UF antiproton-deuteron interactions  
 UF antiproton-proton interactions  
 \*BT1 nucleon-antinucleon interactions

**proton-atom collisions**

INIS: 1984-04-04; ETDE: 2002-04-26  
 USE hydrogen ions 1 plus  
 USE ion-atom collisions

**PROTON BEAMS**

\*BT1 nucleon beams  
 RT electron cooling  
 RT proton channeling  
 RT proton probes  
 RT protons

**proton blocking**

USE proton channeling

**PROTON CHANNELING**

UF proton blocking  
 BT1 channeling  
 RT proton beams

**PROTON COMPUTED TOMOGRAPHY**

INIS: 1980-04-02; ETDE: 1981-04-17  
 UF proton scanners (tomography)  
 \*BT1 computerized tomography  
 RT biomedical radiography  
 RT image scanners  
 RT proton radiography

**PROTON CONDUCTIVITY**

2007-05-16  
 \*BT1 ionic conductivity

**proton decay (nuclear decay)**

INIS: 1985-03-19; ETDE: 2002-04-26  
*Emission of protons from ground states of nuclei.*  
 USE proton-emission decay

**proton decay (particle decay)**

INIS: 1985-03-19; ETDE: 2002-04-26  
*Decay of the proton. Coordinate the descriptor below with a descriptor for the decay, e.g. SEMILEPTONIC DECAY.*  
 USE protons

**PROTON DECAY RADIOISOTOPES**

INIS: 1995-02-27; ETDE: 1984-12-27  
 \*BT1 radioisotopes  
 NT1 aluminium 21  
 NT1 argon 30  
 NT1 arsenic 62  
 NT1 arsenic 63  
 NT1 arsenic 64  
 NT1 bismuth 185  
 NT1 calcium 34  
 NT1 cesium 112  
 NT1 cesium 113  
 NT1 chlorine 28  
 NT1 chlorine 29  
 NT1 chlorine 30  
 NT1 cobalt 49  
 NT1 cobalt 52  
 NT1 cobalt 53  
 NT1 copper 52  
 NT1 copper 53  
 NT1 copper 54  
 NT1 europium 130  
 NT1 europium 131  
 NT1 europium 132  
 NT1 fluorine 14  
 NT1 germanium 62

**NT1** gold 170  
**NT1** gold 171  
**NT1** holmium 140  
**NT1** holmium 141  
**NT1** iodine 109  
**NT1** iridium 164  
**NT1** iridium 165  
**NT1** iron 45  
**NT1** lanthanum 117  
**NT1** lutetium 150  
**NT1** lutetium 151  
**NT1** manganese 45  
**NT1** nitrogen 10  
**NT1** potassium 33  
**NT1** potassium 34  
**NT1** rhenium 159  
**NT1** rhenium 160  
**NT1** rubidium 71  
**NT1** rubidium 72  
**NT1** scandium 36  
**NT1** scandium 37  
**NT1** scandium 38  
**NT1** scandium 39  
**NT1** selenium 66  
**NT1** sodium 19  
**NT1** sulfur 26  
**NT1** tantalum 155  
**NT1** tantalum 156  
**NT1** tantalum 157  
**NT1** terbium 135  
**NT1** terbium 137  
**NT1** terbium 138  
**NT1** thallium 176  
**NT1** thallium 177  
**NT1** thulium 144  
**NT1** thulium 145  
**NT1** thulium 146  
**NT1** thulium 147  
**NT1** vanadium 40  
**NT1** vanadium 41  
**NT1** zinc 54  
**NT1** zinc 55  
**NT1** zinc 56  
*RT* proton-emission decay

**PROTON DENSITY**

*UF* density (proton)  
*RT* protons

**PROTON DETECTION**

\*BT1 charged particle detection  
*RT* proton dosimetry  
*RT* recoils

**PROTON-DEUTERON INTERACTIONS**

2017-09-19

\*BT1 nucleon-deuteron interactions

**PROTON DOSIMETRY**

BT1 dosimetry  
*RT* proton detection

**PROTON-EMISSION DECAY**

*INIS: 1985-03-19; ETDE: 1984-12-27*

*Emission of protons from ground states of nuclei.*

*UF* proton decay (nuclear decay)  
 \*BT1 nuclear decay  
*RT* proton decay radioisotopes  
*RT* protons

**PROTON EXCHANGE MEMBRANE FUEL CELLS**

*INIS: 2000-04-12; ETDE: 1999-09-09*

*UF* polymer electrolyte fuel cells  
 \*BT1 solid electrolyte fuel cells  
*RT* direct methanol fuel cells  
*RT* regenerative fuel cells

**proton halos**

1995-07-03

USE nuclear halos

**proton-induced x-ray emission analysis**

*INIS: 1993-11-09; ETDE: 1980-10-07*

USE pixe analysis

**proton magnetic resonance spectra**

*INIS: 1993-11-09; ETDE: 2002-04-26*

USE nmr spectra  
 USE protons

**PROTON MICROPROBE ANALYSIS**

*INIS: 1979-04-27; ETDE: 1978-09-11*

BT1 microanalysis  
 \*BT1 nondestructive analysis  
*RT* proton probes

**proton-molecule collisions**

*INIS: 1984-04-04; ETDE: 2002-04-26*

USE hydrogen ions 1 plus  
 USE ion-molecule collisions

**PROTON-NEUTRON****INTERACTIONS**

(From February 1975 till May 1996

NEUTRON-DEUTERON INTERACTIONS and PROTON-DEUTERON

INTERACTIONS were valid descriptors.)

*UF* neutron-deuteron interactions  
 \*BT1 proton-nucleon interactions

**PROTON-NUCLEON****INTERACTIONS**

1986-04-04

(Prior to April 1986 the coordination of PROTON-NEUTRON INTERACTIONS and PROTON-PROTON INTERACTIONS was used for this concept.)

\*BT1 nucleon-nucleon interactions  
**NT1** proton-neutron interactions  
**NT1** proton-proton interactions

**PROTON PRECESSION****MAGNETOMETERS**

\*BT1 magnetometers

**PROTON PRECIPITATION**

BT1 charged-particle precipitation  
*RT* aurorae  
*RT* auroral oval  
*RT* midday aurorae  
*RT* polar cusp  
*RT* radiation belts  
*RT* trapped protons

**PROTON PROBES**

*INIS: 1978-04-21; ETDE: 1976-09-28*

BT1 probes  
*RT* ion probes  
*RT* proton beams  
*RT* proton microprobe analysis

**proton-proton cycle**

*INIS: 1978-11-24; ETDE: 1980-07-23*

USE hydrogen burning

**PROTON-PROTON INTERACTIONS**

(From February 1975 till May 1996

PROTON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

\*BT1 proton-nucleon interactions

**PROTON RADIOGRAPHY**

*INIS: 1976-08-17; ETDE: 1975-07-29*

\*BT1 industrial radiography  
*RT* biomedical radiography  
*RT* proton computed tomography

**PROTON REACTIONS**

*UF* pige analysis  
 \*BT1 charged-particle reactions  
 \*BT1 nucleon reactions

**PROTON RECOIL DETECTORS**

\*BT1 neutron detectors  
*RT* proportional counters  
*RT* radiator counters  
*RT* recoils  
*RT* scintillation counters

**PROTON SATELLITES**

BT1 satellites  
*RT* interkosmos satellites  
*RT* kosmos satellites

**proton scanners (tomography)**

*INIS: 1984-04-04; ETDE: 2002-04-26*

USE proton computed tomography

**PROTON SOURCES**

\*BT1 particle sources  
*RT* protons

**PROTON SPECTRA**

BT1 spectra  
*RT* protons

**PROTON SPECTROMETERS**

\*BT1 spectrometers

**PROTON TEMPERATURE**

*UF* temperature (proton)  
*RT* energy  
*RT* protons

**PROTON TRANSPORT**

*UF* transport (proton)  
 \*BT1 charged-particle transport

**PROTONIUM**

2000-04-10

\*BT1 hadronic atoms  
*RT* antiprotons  
*RT* baryonium  
*RT* muonium  
*RT* positronium  
*RT* protons

**PROTONS**

*UF* pmr spectra  
*UF* proton decay (particle decay)  
*UF* proton magnetic resonance spectra  
 \*BT1 nucleons  
**NT1** antiprotons  
**NT1** cosmic protons  
**NT1** delayed protons  
**NT1** diprotons  
**NT1** photoprotons  
**NT1** prompt protons  
**NT1** solar protons  
**NT1** trapped protons  
*RT* hydrogen ions 1 plus  
*RT* proton beams  
*RT* proton density  
*RT* proton-emission decay  
*RT* proton sources  
*RT* proton spectra  
*RT* proton temperature  
*RT* protonium

**PROTOPLANETS**

*RT* cosmological models  
*RT* planets  
*RT* solar nebula  
*RT* solar system evolution

**protoplasts**

USE plant cells

**PROTOPORPHYRINS**

BT1 pigments

\*BT1 porphyrins  
RT hemoglobin

**PROTOSTARS**

RT cosmological models  
RT origin  
RT star accretion  
RT stars

**prototype a terre**

2000-04-12  
USE pat reactor

**prototype fast reactor downreay**

2000-04-12  
USE pfr reactor

**prototype fast reactor japan**

USE monju reactor

**prototype large breeder reactor**

INIS: 1993-11-09; ETDE: 1977-08-24  
USE plbr reactor

**PROTOZOA**

\*BT1 invertebrates  
BT1 microorganisms  
NT1 ciliata  
NT2 paramecium  
NT2 tetrahymena  
NT1 mastigophora  
NT2 dinoflagellate  
NT2 euglena  
NT2 trypanosoma  
NT1 sarcodina  
NT2 amoeba  
NT2 foraminifera  
NT1 sporozoa  
NT2 babesidae  
NT2 plasmodium  
RT parasites  
RT plankton  
RT zooplankton

**protracted irradiation**

USE chronic irradiation

**provincial government**

INIS: 1980-11-07; ETDE: 2002-04-26  
USE state government

**PROXIMITY EFFECT**

RT superconductivity

**PROXIMITY SCATTERING**

1986-04-04  
Mutual scatterings of two outgoing particles from sequential nuclear reactions.  
BT1 scattering  
RT final-state interactions  
RT nuclear reactions

**PRPR REACTOR**

Univ. of Puerto Rico, College Station, Mayaguez, Puerto Rico, USA. Shut down in 1976.  
UF mayaguez puerto rico pool reactor  
UF puerto rico pool type reactor  
\*BT1 pool type reactors  
\*BT1 triga type reactors

**PRR-1 REACTOR**

Quezon City, Philippines.  
UF philippine research reactor-1  
UF quezon philippine reactor  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors

**PRR REACTOR**

United Nuclear Corp., Pawling, New York, USA. Shut down in 1971.  
UF nda remote experiment station  
UF pawling research reactor

UF platr reactor

\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors

**PRTR REACTOR**

Richland, Washington, USA.  
UF plutonium recycle test reactor  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 pressure tube reactors  
\*BT1 research reactors

**PRUDHOE BAY**

INIS: 1992-01-09; ETDE: 1977-06-02  
\*BT1 bays  
\*BT1 beaufort sea  
RT alaska

**prussian blue**

ETDE: 2002-04-26  
USE ferrocyanides  
USE potassium compounds

**PS SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18  
UF polymer-semiconductor solar cells  
\*BT1 solar cells  
RT organic solar cells

**PSBR REACTOR**

Pennsylvania State Univ., University Park, Pennsylvania, USA.  
(Prior to September 2010 PSTR REACTOR was used for this reactor.)  
UF penn state breazeale nuclear reactor  
UF pennsylvania state triga reactor  
UF pennsylvania state university research reactor  
UF psr reactor  
UF pstr reactor  
UF triga-pennsylvania reactor  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors  
\*BT1 triga type reactors

**psd**

INIS: 2000-04-12; ETDE: 1979-07-24  
Prevention of Significant Deterioration. US pollution regulation.  
(Prior to March 1997 PREVENTION OF SIGNIFICANT DETERIORATION was used for this concept in ETDE.)  
SEE air pollution abatement  
SEE land pollution abatement  
SEE water pollution abatement

**PSE REACTOR**

Savannah River Plant, Aiken, South Carolina, USA.  
UF pressurized subcritical experiment savannah  
UF savannah pressurized subcritical experiment  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 natural uranium reactors  
\*BT1 subcritical assemblies  
\*BT1 tank type reactors  
\*BT1 thermal reactors

**PSEUDOMONAS**

\*BT1 bacteria

**pseudoparticles**

INIS: 2000-04-12; ETDE: 1977-11-29  
USE instantons

**PSEUDOSCALAR ANTIMESONS**

1999-03-05  
\*BT1 antimimesons  
\*BT1 pseudoscalar mesons  
NT1 anti-b neutral mesons  
NT1 anti-d neutral mesons

**PSEUDOSCALAR MESONS**

1995-08-07  
Mesons with spin and parity 0-.  
\*BT1 mesons  
NT1 b c mesons  
NT1 b mesons  
NT2 b minus mesons  
NT2 b neutral mesons  
NT3 anti-b neutral mesons  
NT2 b plus mesons  
NT1 b s mesons  
NT1 d mesons  
NT2 d minus mesons  
NT2 d neutral mesons  
NT3 anti-d neutral mesons  
NT2 d plus mesons  
NT1 d s mesons  
NT1 eta-1295 mesons  
NT1 eta-1440 mesons  
NT1 eta c-2980 mesons  
NT1 eta mesons  
NT1 eta prime-958 mesons  
NT1 k-1460 mesons  
NT1 k-1830 mesons  
NT1 kaons

NT2 antikaons  
NT3 antikaons neutral  
NT2 cosmic kaons  
NT2 kaons minus  
NT2 kaons neutral  
NT3 antikaons neutral  
NT3 kaons neutral long-lived  
NT3 kaons neutral short-lived  
NT2 kaons plus  
NT1 pi-1300 mesons  
NT1 pi-1770 mesons  
NT1 pions  
NT2 cosmic pions  
NT2 pions minus  
NT2 pions neutral  
NT2 pions plus  
NT1 pseudoscalar antimimesons  
NT2 anti-b neutral mesons  
NT2 anti-d neutral mesons  
RT meson nonets  
RT sigma model

**PSEUDOSCALARS**

RT scalars

**PSEUDOVECTOR COUPLING**

BT1 coupling  
RT nucleons

**pseudovector mesons**

INIS: 1987-12-21; ETDE: 1988-01-25  
USE axial vector mesons

**psi-3105 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE j psi-3097 mesons

**PSI-3685 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
(Prior to December 1987 this concept was indexed by PSI-3695 RESONANCES.)  
UF psi-3695 resonances  
\*BT1 charmonium  
\*BT1 vector mesons

**psi-3695 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE psi-3685 mesons

**PSI-3770 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by PSI-3772 RESONANCES.)

UF psi-3772 resonances

\*BT1 charmonium

\*BT1 vector mesons

**psi-3772 resonances**

INIS: 1987-12-21; ETDE: 1978-04-06

(Prior to December 1987 this was a valid descriptor.)

USE psi-3770 mesons

**psi-4028 resonances**

INIS: 1987-12-21; ETDE: 1978-07-06

(Prior to December 1987 this was a valid descriptor.)

USE psi-4040 mesons

**psi-4030 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01

(From December 1987 until July 1995 this was a valid term.)

USE psi-4040 mesons

**PSI-4040 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by PSI-4028 RESONANCES; from then until July 1995 it was indexed by PSI-4030 MESONS.)

UF psi-4028 resonances

UF psi-4030 mesons

\*BT1 charmonium

\*BT1 vector mesons

**psi-4100 resonances**

INIS: 1987-12-21; ETDE: 1975-10-28

(Prior to December 1987 this was a valid descriptor.)

USE psi-4160 mesons

**PSI-4160 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by PSI-4100 RESONANCES.)

UF psi-4100 resonances

\*BT1 charmonium

\*BT1 vector mesons

**psi-4300 resonances**

INIS: 1988-03-08; ETDE: 1975-12-16

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**psi-4414 resonances**

INIS: 1987-12-21; ETDE: 1978-07-06

(Prior to December 1987 this was a valid descriptor.)

USE psi-4415 mesons

**PSI-4415 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by PSI-4414 RESONANCES.)

UF psi-4414 resonances

\*BT1 charmonium

\*BT1 vector mesons

**psi resonances**

INIS: 1988-03-08; ETDE: 1976-11-02

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**PSORALEN**

\*BT1 anticoagulants

\*BT1 heterocyclic compounds

\*BT1 organic oxygen compounds

RT benzofurans

RT coumarin

**PSORIASIS**

\*BT1 skin diseases

RT skin

**psr reactor**

USE psbr reactor

**PSS METHOD**

Perturbed stationary states method.

UF perturbed stationary states method

RT collisions

**pstr reactor**

2010-10-14

Pennsylvania State Univ., University Park, Pennsylvania, USA.

(Prior to September 2010 this was a valid descriptor.)

USE psbr reactor

**psychoactive agents**

INIS: 2000-04-12; ETDE: 1981-04-20

USE psychotropic drugs

**psychology**

INIS: 2000-03-28; ETDE: 1980-03-04

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE behavior

SEE human factors

**psychoses**

USE mental disorders

**PSYCHOTROPIC DRUGS**

UF psychoactive agents

\*BT1 central nervous system agents

NT1 antidepressants

NT2 cocaine

NT2 imipramine

NT1 hallucinogens

NT2 bufotenine

NT1 tranquilizers

NT2 chlorpromazine

NT2 reserpine

RT analeptics

RT mental disorders

**psychrometry**

INIS: 2000-04-12; ETDE: 1981-11-24

The science and techniques associated with measurements of the water vapor content of air or other gases. See also HUMIDITY and/or MOISTURE.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE hygrometry

**PTERIDINES**

UF pterins

\*BT1 azaarenes

NT1 aminopterin

NT1 folic acid

RT pyrazines

RT pyrimidines

**pterins**

USE pteridines

**pteroylglutamic acid**

USE folic acid

**PTF-UNC REACTOR**

United Nuclear Corp., Elmsford, New York, USA.

UF proof test facility united nuclear corporation

UF united nuclear corporation proof test reactor

\*BT1 zero power reactors

**ptfe**

2000-04-12

USE polytetrafluoroethylene

**PTR REACTOR**

AECL, Chalk River, Ontario, Canada.

Permanent shutdown since 1990.

UF chalk river pool test reactor

UF pool test reactor chalk river

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

**PUBLIC ANXIETY**

INIS: 1991-12-11; ETDE: 1992-01-24

RT accidents

RT attitudes

RT behavior

RT nuclear facilities

RT sociology

**public attitudes**

INIS: 1978-01-13; ETDE: 1977-07-23

USE public opinion

**PUBLIC BUILDINGS**

INIS: 1992-05-18; ETDE: 1978-10-23

Government-owned buildings.

UF county buildings

UF court buildings

UF fire stations

UF jails

UF municipal buildings

UF senior centers

UF state buildings

UF visitor centers

BT1 buildings

RT government buildings

RT hospitals

RT libraries

RT office buildings

RT school buildings

RT skating rinks

**public corporations**

INIS: 2000-04-12; ETDE: 1979-07-24

USE public enterprises

**PUBLIC ENTERPRISES**

INIS: 1992-04-02; ETDE: 1979-07-24

Government-owned enterprises.

UF national enterprises

UF public corporations

UF state enterprises

SF public transport

SF public transportation systems

RT government policies

RT ownership

**PUBLIC HEALTH**

1982-12-03

UF health (public)

RT health hazards

RT human populations

RT medical establishments

RT preventive medicine

RT quality of life

RT quarantine

RT radiation protection

RT water reclamation

## PUBLIC INFORMATION

INIS: 1994-04-12; ETDE: 1979-12-17

(Until April 1994 this concept was indexed to PUBLIC RELATIONS.)

BT1 information  
RT declassification  
RT information dissemination  
RT public relations

## PUBLIC LANDS

1986-07-09

Lands not owned by private persons, corporations, etc.

SF parks  
NT1 everglades national park  
NT1 natural bridges national monument  
NT1 yellowstone national park  
RT land resources  
RT recreational areas

## PUBLIC LAW

INIS: 1999-02-18; ETDE: 1992-01-08

Body of rules governing state action and relationship with citizens.

BT1 laws

## PUBLIC OFFICIALS

INIS: 1985-09-09; ETDE: 1979-11-23

BT1 personnel  
NT1 state officials  
RT government policies  
RT local government  
RT national government  
RT political aspects  
RT state government

## PUBLIC OPINION

INIS: 1978-01-13; ETDE: 1977-07-23

UF attitudes of the public  
UF nuclear controversy  
UF public attitudes  
SF surveys  
NT1 environmental awareness  
RT aesthetics  
RT attitudes  
RT ethical aspects  
RT political aspects  
RT public relations

## PUBLIC POLICY

INIS: 1998-01-28; ETDE: 1979-05-25

Body of rules governing State action and relationship with citizens.

(Until March 1992, this concept was indexed by PUBLIC LAW.)

RT government policies  
RT institutional factors  
RT laws  
RT legal aspects  
RT legislation  
RT political aspects  
RT regulations

## PUBLIC RELATIONS

UF nuclear contestation  
RT advertising  
RT aesthetics  
RT consumer protection  
RT hazards  
RT management  
RT public information  
RT public opinion  
RT safety analysis  
RT sociology

## public service newbold island-1 reactor

ETDE: 2002-04-26

USE hope creek-1 reactor

## public service newbold island-2 reactor

ETDE: 2002-04-26

USE hope creek-2 reactor

## public transport

2004-08-26

SEE public enterprises  
SEE transport

## public transportation systems

INIS: 1992-09-09; ETDE: 1992-06-12

SEE mass transit systems  
SEE public enterprises

## PUBLIC UTILITIES

1976-01-28

A business organization performing some public service and subject to special government regulation.

SF utilities  
NT1 electric utilities  
NT1 gas utilities  
NT1 water utilities  
RT afudc  
RT cwip  
RT electric power  
RT fuel adjustment mechanisms  
RT fuel gas  
RT integrated energy utility systems  
RT marginal-cost pricing  
RT modular integrated utility systems  
RT natural gas  
RT off-peak power  
RT peak-load pricing  
RT sellback  
RT telephones  
RT us public utility regulatory policies act  
RT water supply

## public utility regulatory policies act

INIS: 2000-04-12; ETDE: 1980-03-29

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us public utility regulatory policies act

## PUERTO RICO

\*BT1 greater antilles  
BT1 latin america  
\*BT1 usa

## puerto rico bonus reactor

USE bonus reactor

## puerto rico nuclear center l-77 reactor

1993-11-09

USE prnc-l-77 reactor

## puerto rico pool type reactor

USE prpr reactor

## PUGET SOUND

INIS: 1992-06-04; ETDE: 1976-04-19

\*BT1 pacific ocean  
RT washington

## puget sound naval shipyard

INIS: 2000-04-12; ETDE: 1977-07-23

(Prior to February 1995, this was a valid ETDE descriptor.)

USE maintenance facilities  
USE ships

## pullman washington state university reactor

1993-11-09

USE wsur reactor

## pulmonary cancer

Use LUNGS and/or BRONCHI, as appropriate, in coordination with the descriptors below.

USE carcinomas

## pulmonary lavage

USE lavage  
USE lungs

## pulps

USE slurries

## pulsar concept

INIS: 2000-04-12; ETDE: 1979-09-26

Pulsar is a system which produces pulsed power by magnetic flux compression with metallic or plasma armatures.

(Prior to February 1995, this was a valid ETDE descriptor.)

USE magnetic compression  
USE pulse generators

## PULSARS

BT1 cosmic radio sources  
RT crab nebula  
RT magnetic stars  
RT neutron stars  
RT starquakes  
RT supernova remnants

## PULSATING VARIABLE STARS

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 variable stars  
NT1 cepheids

## PULSATIONS

UF micropulsations  
UF pearl pulsations  
RT disturbances  
RT oscillations  
RT periodicity  
RT pulses  
RT variations

## PULSATOR DEVICES

2000-04-12

\*BT1 tokamak devices

## pulsator stellarator

1994-08-22

(Until August 1994 this was a valid descriptor.)

USE stellarators

## PULSE AMPLIFIERS

\*BT1 amplifiers  
RT cathode followers  
RT pulse circuits  
RT pulse techniques

## PULSE ANALYZERS

UF analyzers (pulse)  
UF kicksorters  
\*BT1 electronic equipment  
NT1 multi-channel analyzers  
RT pulse circuits  
RT pulse discriminators  
RT pulse techniques  
RT spectrometers

## PULSE CIRCUITS

BT1 electronic circuits  
NT1 multivibrators  
NT2 flip-flop circuits  
NT1 pulse discriminators  
NT1 signal conditioners  
NT2 digitizers  
NT3 cathode ray tube digitizers  
NT3 flying spot digitizers  
NT3 scanning measuring projectors  
NT3 spiral reader digitizers

- NT2 pulse shapers
- NT1 trigger circuits
- NT2 transistor trigger circuits
- RT coincidence circuits
- RT counting circuits
- RT pulse amplifiers
- RT pulse analyzers
- RT pulse generators
- RT pulse techniques
- RT transistor oscillators

**pulse columns**

- USE extraction columns

**PULSE COMBUSTION**

INIS: 1997-06-19; ETDE: 1980-08-12

- \*BT1 combustion
- RT burners
- RT combustion chambers
- RT combustion control
- RT pulse combustors

**PULSE COMBUSTORS**

INIS: 2000-04-12; ETDE: 1980-08-12

- BT1 combustors
- RT burners
- RT combustion chambers
- RT combustion control
- RT pulse combustion

**PULSE CONVERTERS**

- UF converters (pulse)
- \*BT1 electronic equipment
- NT1 current-to-frequency converters
- NT1 time-to-amplitude converters
- NT1 time-to-digital converters
- RT pulse techniques

**PULSE DISCRIMINATORS**

- \*BT1 discriminators
- \*BT1 pulse circuits
- RT pulse analyzers

**PULSE GENERATORS**

- UF generators (pulse)
- UF pulsar concept
- \*BT1 function generators
- NT1 high-voltage pulse generators
- NT2 marx generators
- RT blocking oscillators
- RT frequency converters
- RT multivibrators
- RT plasma switches
- RT pulse circuits
- RT pulse shapers
- RT pulse techniques

**PULSE INTEGRATORS**

- UF integrators (pulse)
- \*BT1 electronic equipment
- RT counting ratemeters
- RT pulse techniques

**PULSE PILEUP**

- RT time resolution
- RT timing properties

**PULSE RISE TIME**

- UF rise time
- BT1 timing properties
- RT peaks
- RT pulses
- RT time measurement

**PULSE SHAPERS**

- UF clipping circuits
- UF pulse stretchers
- \*BT1 signal conditioners
- RT pulse generators
- RT signal conditioning

**pulse stretchers**

- USE pulse shapers

**PULSE TECHNIQUES**

- RT counting circuits
- RT counting ratemeters
- RT counting techniques
- RT counting tubes
- RT delay circuits
- RT electronic equipment
- RT oscillators
- RT plasma switches
- RT pulse amplifiers
- RT pulse analyzers
- RT pulse circuits
- RT pulse converters
- RT pulse generators
- RT pulse integrators
- RT pulses
- RT radiation detection
- RT radiation detectors
- RT resonators
- RT scalars

**pulsed beam deflectors**

2000-04-12

- USE beam pulsers

**PULSED D-T REACTORS**

- \*BT1 d-t reactors
- \*BT1 pulsed fusion reactors
- NT1 reference theta pinch reactor

**PULSED FUSION REACTORS**

- BT1 thermonuclear reactors
- NT1 pulsed d-t reactors
- NT2 reference theta pinch reactor
- RT direct drive laser implosion
- RT indirect drive laser implosion
- RT laser implosions

**pulsed graphite reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

- USE igr reactor

**PULSED IRRADIATION**

- BT1 irradiation
- RT beam pulsers
- RT dose rates
- RT radiation dose rate ranges
- RT temporal dose distributions

**PULSED MAGNET COILS**

- \*BT1 magnet coils

**PULSED MHD GENERATORS**

INIS: 1993-04-27; ETDE: 1977-05-07

MHD generators driven by explosives, shock tubes, plasma jets, etc.

UF explosively-driven mhd generators

- \*BT1 mhd generators

**PULSED NEUTRON TECHNIQUES**

- RT neutron beams
- RT neutron guides
- RT pulses

**PULSED REACTORS**

- UF burst reactors
- BT1 reactors
- NT1 acpr reactor
- NT1 aprf reactor
- NT1 atpr reactor
- NT1 bigr reactor
- NT1 bir reactor
- NT1 fbrf reactor
- NT1 fir-1 reactor
- NT1 gidra reactor
- NT1 hector reactor
- NT1 hprr reactor
- NT1 ibr-2 reactor

- NT1 ibr-30 reactor
- NT1 igr reactor
- NT1 kalpakkam pfr reactor
- NT1 nsrr reactor
- NT1 ostr reactor
- NT1 pbf reactor
- NT1 sora reactor
- NT1 spr-2 reactor
- NT1 spr-3 reactor
- NT1 spr-4 reactor
- NT1 super kukla reactor
- NT1 tibr reactor
- NT1 triga-1-california reactor
- NT1 triga-1-michigan reactor
- NT1 triga-2-bangladesh reactor
- NT1 triga-2-illinois reactor
- NT1 triga-2-kansas reactor
- NT1 triga-2-mainz reactor
- NT1 triga-2-pavia reactor
- NT1 triga-2-pitesti reactor
- NT1 triga-3-munich reactor
- NT1 triga-texas reactor
- NT1 ucbr reactor
- NT1 viper reactor
- NT1 wsr reactor
- NT1 xapr reactor
- RT reactivity insertions

**PULSES**

1999-07-01

Not for edible seeds of leguminous crops.

- UF electric pulses
- UF impulse
- UF impulse (pulses)
- NT1 electromagnetic pulses
- NT2 internal electromagnetic pulses
- RT beam pulsers
- RT electrocardiograms
- RT pulsations
- RT pulse rise time
- RT pulse techniques
- RT pulsed neutron techniques
- RT signals
- RT surges

**PULSTAR-BUFFALO REACTOR**

State Univ. of New York, Buffalo, New York, USA.

- UF buffalo pulstar reactor
- UF buspr reactor
- UF western new york nuclear research reactor

- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors

**PULSTAR-RALEIGH REACTOR**

North Carolina State Univ., Raleigh, North Carolina, USA.

- UF ncuspr reactor
- UF north carolina pulstar reactor
- UF raleigh pulstar reactor

- \*BT1 pool type reactors
- \*BT1 research reactors

**pulverization**

INIS: 1992-02-18; ETDE: 1978-04-27

- USE comminution

**pulverized fuel ash**

INIS: 2000-04-12; ETDE: 1977-06-24

- USE fly ash

**PULVERIZED FUELS**

INIS: 1999-07-09; ETDE: 1985-04-09

- RT coal fines
- RT powders
- RT solid fuels

**PULVERIZERS**

INIS: 1992-04-03; ETDE: 1978-08-07

- \*BT1 machinery
- RT comminution
- RT crushing
- RT fuel feeding systems

**pumice**

2000-04-12

A light-colored, vesicular, glassy rock commonly having the composition of a rhyolite.

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE abrasives
- SEE rhyolites

**PUMP TURBINES**

INIS: 1992-02-19; ETDE: 1980-01-24

Reversible hydraulic turbines.

- UF reversible turbines
- UF turbine pumps
- \*BT1 hydraulic turbines
- RT pumped storage
- RT pumped storage power plants

**PUMPED LIMITERS**

INIS: 1986-07-09; ETDE: 1985-10-25

- BT1 limiters
- RT helium ash

**PUMPED STORAGE**

1982-12-07

- \*BT1 energy storage
- RT hydroelectric power plants
- RT off-peak energy storage
- RT pump turbines
- RT pumped storage power plants
- RT pumping

**PUMPED STORAGE POWER PLANTS**

INIS: 1992-10-01; ETDE: 1976-05-13

- \*BT1 hydroelectric power plants
- \*BT1 peaking power plants
- RT hydroelectric power
- RT pump turbines
- RT pumped storage
- RT water reservoirs

**pumpherston retort**

INIS: 2000-04-12; ETDE: 1975-11-11

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE retorts

**PUMPING**

1999-08-26

- SF laser pumping
- NT1 electrical pumping
- NT2 electron beam pumping
- NT1 nuclear pumping
- NT1 optical pumping
- RT circulating systems
- RT drawdown
- RT materials handling
- RT pumped storage
- RT pumps
- RT self-pumping systems

**pumping (electrical)**

INIS: 1995-04-10; ETDE: 2002-04-26

- USE electrical pumping

**pumping (laser)**

INIS: 1975-11-07; ETDE: 2002-04-26

- USE optical pumping

**pumping (nuclear)**

INIS: 1975-11-07; ETDE: 2002-04-26

- USE nuclear pumping

**PUMPS**

- UF hydraulic rams
- BT1 equipment
- NT1 centrifugal pumps
- NT1 electromagnetic pumps
- NT1 rod pumps
- NT1 vacuum pumps
- NT2 cryopumps
- NT2 sputter-ion pumps
- NT2 turbomolecular pumps
- NT1 water pumps
- NT2 solar water pumps
- NT1 wind-powered pumps
- RT automotive accessories
- RT bellows
- RT blowers
- RT circulating systems
- RT compressors
- RT heat pumps
- RT pumping
- RT reactor components
- RT reactor cooling systems
- RT self-pumping systems
- RT turbomachinery

**punched cards**

1994-08-22

(Until August 1994 this was a valid descriptor.)

- USE memory devices

**PUNCHED TAPES**

- RT memory devices

**PUPAE**

- RT age groups
- RT insects
- RT life cycle
- RT metamorphosis

**PUR-1 REACTOR**

2005-01-19

Purdue Univ., West Lafayette, Indiana, USA.

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**purasiv s process**

INIS: 2000-04-12; ETDE: 1977-12-22

Fixed-bed sulfur dioxide adsorption process using molecular sieve.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**PURE STATES**

2011-01-25

Quantum states represented by single vectors in Hilbert space.

- BT1 quantum states
- RT eigenstates

**PUREX PROCESS**

1996-07-08

(Prior to 1996 HALEX PROCESS and SALTEX PROCESS were valid ETDE descriptors.)

- UF hallex process
- UF saltex process
- \*BT1 reprocessing
- RT solvent extraction

**PURIFICATION**

- NT1 hot gas cleanup
- RT cleaning
- RT coolant cleanup systems
- RT crystallization
- RT deashing
- RT decontamination
- RT enrichment

- RT impurities
- RT refining
- RT scrubbing
- RT separation processes

**PURINES**

- \*BT1 azaarenes
- NT1 adenines
- NT2 kinetin
- NT1 guanine
- NT1 guanosine
- NT1 hypoxanthine
- NT1 inosine
- NT1 mercaptopurine
- NT1 xanthines
- NT2 caffeine
- NT2 theobromine
- NT2 theophylline
- NT2 uric acid
- RT nucleosides

**PURISOL PROCESS**

2000-04-12

Process for removal of acid gases from syngas and natural gas streams using physical absorption in *n*-methylpyrrolidone (nmp).

- \*BT1 desulfurization

**purity**

- USE impurities

**purnima-1 reactor**

INIS: 1981-11-27; ETDE: 1982-01-07

- USE purnima reactor

**PURNIMA-2 REACTOR**

INIS: 1981-10-15; ETDE: 1981-11-10

Decommissioned since 1986..

- \*BT1 fast reactors
- \*BT1 zero power reactors

**PURNIMA-3 REACTOR**

INIS: 1993-03-11; ETDE: 1993-04-16

Bhabha Atomic Research Center, Bombay, India. Decommissioned since 1991.

- \*BT1 research and test reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**PURNIMA REACTOR**

Decommissioned since 1983.

- UF purnima-1 reactor
- \*BT1 fast reactors
- \*BT1 zero power reactors

**PUROMYCIN**

- \*BT1 antibiotics
- \*BT1 antineoplastic drugs

**PUROX PYROLYSIS PROCESS**

INIS: 2000-04-12; ETDE: 1975-11-26

Union carbide process for pyrolysis of solid wastes using pure oxygen to supply high temperature zone for production of low btu gas that can be upgraded to high btu gas.

- UF union carbide waste processing system
- \*BT1 waste processing
- RT pyrolysis
- RT solid wastes
- RT waste processing plants

**purpa**

INIS: 2000-04-12; ETDE: 1980-03-29

- USE us public utility regulatory policies act

**PURPURA**

- \*BT1 hemic diseases

**purpuric acid**

1996-07-18

Also known as murexide.

USE dyes

USE organic oxygen compounds

USE pyrimidines

**pusan kori-1 reactor**

USE kori-1 reactor

**pusan kori-2 reactor**

INIS: 1986-09-26; ETDE: 1977-04-14

USE kori-2 reactor

**pusan kori-3 reactor**

INIS: 1997-01-28; ETDE: 2002-04-26

USE kori-3 reactor

**pusan kori-4 reactor**

INIS: 1997-01-28; ETDE: 2002-04-26

USE kori-4 reactor

**PUSPATI**

1984-12-04

UF tun ismail atomic research center

UF unit tenaga nuklear (malaysia)

\*BT1 malaysian organizations

**puspati triga reactor**

1984-12-04

USE rtp reactor

**PUTRESCINE**

UF 1,4-diaminobutane

UF tetramethylenediamine

\*BT1 amines

**PVA**

UF polyvinyl alcohol

\*BT1 alcohols

\*BT1 polyvinyls

**PVC**

UF polyvinyl chloride

\*BT1 chlorinated aliphatic hydrocarbons

\*BT1 polyvinyls

**pvd**

INIS: 2000-04-12; ETDE: 1989-10-11

USE physical vapor deposition

**PVP**

UF polyvinylpyrrolidone

\*BT1 blood substitutes

\*BT1 polyvinyls

\*BT1 pyrrolidones

**pwba**

USE born approximation

**pwr/241 type reactors**

2000-04-12

(Prior to 1975, PWR/241 TYPE REACTORS was used.)

USE bw standard reactor

**pwr/41 type reactors**

2000-04-12

USE westinghouse standard reactor

**pwr/80 type reactors**

2000-04-12

USE ce standard reactor

**PWR TYPE REACTORS**

1997-10-03

UF pressurized water cooled moderated reactor

UF pressurized water reactors

SF enrico fermi reactor

\*BT1 enriched uranium reactors

\*BT1 power reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

NT1 aguirre reactor

NT1 almaraz-1 reactor

NT1 almaraz-2 reactor

NT1 angra-1 reactor

NT1 angra-2 reactor

NT1 angra-3 reactor

NT1 arkansas-1 reactor

NT1 arkansas-2 reactor

NT1 asco-1 reactor

NT1 asco-2 reactor

NT1 atlantic-1 reactor

NT1 atlantic-2 reactor

NT1 basf-1 reactor

NT1 basf-2 reactor

NT1 beaver valley-1 reactor

NT1 beaver valley-2 reactor

NT1 bellefonte-1 reactor

NT1 bellefonte-2 reactor

NT1 belleville-1 reactor

NT1 belleville-2 reactor

NT1 beznau-1 reactor

NT1 beznau-2 reactor

NT1 biblis-1 reactor

NT1 biblis-2 reactor

NT1 biblis-3 reactor

NT1 biblis-4 reactor

NT1 blayais-1 reactor

NT1 blayais-2 reactor

NT1 blayais-3 reactor

NT1 blayais-4 reactor

NT1 blue hills-1 reactor

NT1 blue hills-2 reactor

NT1 borssele reactor

NT1 br-3 reactor

NT1 braidwood-1 reactor

NT1 braidwood-2 reactor

NT1 brokdorf reactor

NT1 bugey-2 reactor

NT1 bugey-3 reactor

NT1 bugey-4 reactor

NT1 bugey-5 reactor

NT1 bw standard reactor

NT1 byron-1 reactor

NT1 byron-2 reactor

NT1 calhoun-1 reactor

NT1 calhoun-2 reactor

NT1 callaway-1 reactor

NT1 callaway-2 reactor

NT1 calvert cliffs-1 reactor

NT1 calvert cliffs-2 reactor

NT1 carem 25 reactor

NT1 catawba-1 reactor

NT1 catawba-2 reactor

NT1 cattenom-1 reactor

NT1 cattenom-2 reactor

NT1 cattenom-3 reactor

NT1 cattenom-4 reactor

NT1 ce standard reactor

NT1 changjiang-1 reactor

NT1 changjiang-2 reactor

NT1 chasnupp-1 reactor

NT1 chasnupp-2 reactor

NT1 chasnupp-3 reactor

NT1 cherokee-1 reactor

NT1 cherokee-2 reactor

NT1 cherokee-3 reactor

NT1 chinon-b1 reactor

NT1 chinon-b2 reactor

NT1 chinon-b3 reactor

NT1 chinon-b4 reactor

NT1 chooz-a reactor

NT1 chooz-b1 reactor

NT1 chooz-b2 reactor

NT1 civaux-1 reactor

NT1 civaux-2 reactor

NT1 comanche peak-1 reactor

NT1 comanche peak-2 reactor

NT1 connecticut yankee reactor

NT1 cook-1 reactor

NT1 cook-2 reactor

NT1 cruas-1 reactor

NT1 cruas-2 reactor

NT1 cruas-3 reactor

NT1 cruas-4 reactor

NT1 crystal river-3 reactor

NT1 crystal river-4 reactor

NT1 dampierre-1 reactor

NT1 dampierre-2 reactor

NT1 dampierre-3 reactor

NT1 dampierre-4 reactor

NT1 davis besse-1 reactor

NT1 davis besse-2 reactor

NT1 davis besse-3 reactor

NT1 daya bay-1 reactor

NT1 daya bay-2 reactor

NT1 diablo canyon-1 reactor

NT1 diablo canyon-2 reactor

NT1 doel-1 reactor

NT1 doel-2 reactor

NT1 doel-3 reactor

NT1 doel-4 reactor

NT1 efdr-50 reactor

NT1 emsland reactor

NT1 erie-1 reactor

NT1 erie-2 reactor

NT1 fangchenggang-1 reactor

NT1 fangchenggang-2 reactor

NT1 fangjiashan-1 reactor

NT1 fangjiashan-2 reactor

NT1 farley-1 reactor

NT1 farley-2 reactor

NT1 fessenheim-1 reactor

NT1 fessenheim-2 reactor

NT1 flamanville-1 reactor

NT1 flamanville-2 reactor

NT1 flamanville-3 reactor

NT1 forked river-1 reactor

NT1 fuqing-1 reactor

NT1 fuqing-2 reactor

NT1 fuqing-3 reactor

NT1 fuqing-4 reactor

NT1 fuqing-5 reactor

NT1 fuqing-6 reactor

NT1 genkai-1 reactor

NT1 genkai-2 reactor

NT1 genkai-3 reactor

NT1 genkai-4 reactor

NT1 ginna-1 reactor

NT1 goesgen reactor

NT1 golfech-1 reactor

NT1 golfech-2 reactor

NT1 grafenrheinfeld reactor

NT1 gravelines-1 reactor

NT1 gravelines-2 reactor

NT1 gravelines-3 reactor

NT1 gravelines-4 reactor

NT1 gravelines-5 reactor

NT1 gravelines-6 reactor

NT1 greene county reactor

NT1 greenwood-2 reactor

NT1 greenwood-3 reactor

NT1 grohnde reactor

NT1 hamm-uentrop reactor

NT1 hanbit-1 reactor

NT1 hanbit-2 reactor

NT1 hanbit-3 reactor

NT1 hanbit-4 reactor

NT1 hanbit-5 reactor

NT1 hanbit-6 reactor

NT1 harris-1 reactor

NT1 harris-2 reactor

NT1 harris-3 reactor

NT1 harris-4 reactor

NT1 haven-1 reactor

NT2 koshkonong-1 reactor

NT1 haven-2 reactor



<b>NT2</b> koshkonong-2 reactor	<b>NT1</b> olkiluoto-3 reactor	<b>NT1</b> summer-1 reactor
<b>NT1</b> hongyanhe-1 reactor	<b>NT1</b> otto hahn reactor	<b>NT1</b> sundesert-1 reactor
<b>NT1</b> hongyanhe-2 reactor	<b>NT1</b> palisades-1 reactor	<b>NT1</b> sundesert-2 reactor
<b>NT1</b> hongyanhe-3 reactor	<b>NT1</b> palo verde-1 reactor	<b>NT1</b> surry-1 reactor
<b>NT1</b> hongyanhe-4 reactor	<b>NT1</b> palo verde-2 reactor	<b>NT1</b> surry-2 reactor
<b>NT1</b> ikata-2 reactor	<b>NT1</b> palo verde-3 reactor	<b>NT1</b> surry-3 reactor
<b>NT1</b> ikata-3 reactor	<b>NT1</b> palo verde-4 reactor	<b>NT1</b> surry-4 reactor
<b>NT1</b> ikata reactor	<b>NT1</b> palo verde-5 reactor	<b>NT1</b> takahama-1 reactor
<b>NT1</b> indian point-1 reactor	<b>NT1</b> paluel-1 reactor	<b>NT1</b> takahama-2 reactor
<b>NT1</b> indian point-2 reactor	<b>NT1</b> paluel-2 reactor	<b>NT1</b> takahama-3 reactor
<b>NT1</b> indian point-3 reactor	<b>NT1</b> paluel-3 reactor	<b>NT1</b> takahama-4 reactor
<b>NT1</b> iran-1 reactor	<b>NT1</b> paluel-4 reactor	<b>NT1</b> three mile island-1 reactor
<b>NT1</b> iran-2 reactor	<b>NT1</b> pat reactor	<b>NT1</b> three mile island-2 reactor
<b>NT1</b> isar-2 reactor	<b>NT1</b> pebble springs-1 reactor	<b>NT1</b> tihange-2 reactor
<b>NT1</b> jamesport-1 reactor	<b>NT1</b> pebble springs-2 reactor	<b>NT1</b> tihange-3 reactor
<b>NT1</b> jamesport-2 reactor	<b>NT1</b> penly-1 reactor	<b>NT1</b> tihange reactor
<b>NT1</b> kewaunee reactor	<b>NT1</b> penly-2 reactor	<b>NT1</b> tomari-1 reactor
<b>NT1</b> koeberg-1 reactor	<b>NT1</b> penly-3 reactor	<b>NT1</b> tomari-2 reactor
<b>NT1</b> koeberg-2 reactor	<b>NT1</b> perkins-1 reactor	<b>NT1</b> tomari-3 reactor
<b>NT1</b> kori-1 reactor	<b>NT1</b> perkins-2 reactor	<b>NT1</b> tricastin-1 reactor
<b>NT1</b> kori-2 reactor	<b>NT1</b> perkins-3 reactor	<b>NT1</b> tricastin-2 reactor
<b>NT1</b> kori-3 reactor	<b>NT1</b> philippsburg-2 reactor	<b>NT1</b> tricastin-3 reactor
<b>NT1</b> kori-4 reactor	<b>NT1</b> pilgrim-2 reactor	<b>NT1</b> tricastin-4 reactor
<b>NT1</b> krsko reactor	<b>NT1</b> pilgrim-3 reactor	<b>NT1</b> trillo-1 reactor
<b>NT1</b> lemoniz-1 reactor	<b>NT1</b> pm-2a reactor	<b>NT1</b> trojan reactor
<b>NT1</b> lemoniz-2 reactor	<b>NT1</b> pm-3a reactor	<b>NT1</b> tsuruga-2 reactor
<b>NT1</b> lenin reactor	<b>NT1</b> pnpp-1 reactor	<b>NT1</b> turkey point-3 reactor
<b>NT1</b> leonid brezhnev reactor	<b>NT1</b> point beach-1 reactor	<b>NT1</b> turkey point-4 reactor
<b>NT1</b> lingao-1 reactor	<b>NT1</b> point beach-2 reactor	<b>NT1</b> tva-1 reactor
<b>NT1</b> lingao-2 reactor	<b>NT1</b> prairie island-1 reactor	<b>NT1</b> tva-2 reactor
<b>NT1</b> lingao-3 reactor	<b>NT1</b> prairie island-2 reactor	<b>NT1</b> tyrone-1 reactor
<b>NT1</b> lingao-4 reactor	<b>NT1</b> qinshan-1 reactor	<b>NT1</b> tyrone-2 reactor
<b>NT1</b> loft reactor	<b>NT1</b> qinshan-2-1 reactor	<b>NT1</b> ulchin-1 reactor
<b>NT1</b> lucie-1 reactor	<b>NT1</b> qinshan-2-2 reactor	<b>NT1</b> ulchin-2 reactor
<b>NT1</b> lucie-2 reactor	<b>NT1</b> qinshan-2-3 reactor	<b>NT1</b> ulchin-3 reactor
<b>NT1</b> maanshan-1 reactor	<b>NT1</b> qinshan-2-4 reactor	<b>NT1</b> ulchin-4 reactor
<b>NT1</b> maanshan-2 reactor	<b>NT1</b> quanicassee-1 reactor	<b>NT1</b> ulchin-5 reactor
<b>NT1</b> maine yankee reactor	<b>NT1</b> quanicassee-2 reactor	<b>NT1</b> ulchin-6 reactor
<b>NT1</b> malibu-1 reactor	<b>NT1</b> rancho seco-1 reactor	<b>NT1</b> unterweser reactor
<b>NT1</b> marble hill-1 reactor	<b>NT1</b> remerschen reactor	<b>NT1</b> vahnum-1 reactor
<b>NT1</b> marble hill-2 reactor	<b>NT1</b> rheinsberg akw1 reactor	<b>NT1</b> vahnum-2 reactor
<b>NT1</b> mc guire-1 reactor	<b>NT1</b> ringhals-2 reactor	<b>NT1</b> vandellos-2 reactor
<b>NT1</b> mc guire-2 reactor	<b>NT1</b> ringhals-3 reactor	<b>NT1</b> vogtle-1 reactor
<b>NT1</b> mh-1a reactor	<b>NT1</b> ringhals-4 reactor	<b>NT1</b> vogtle-2 reactor
<b>NT1</b> midland-1 reactor	<b>NT1</b> robinson-2 reactor	<b>NT1</b> vogtle-3 reactor
<b>NT1</b> midland-2 reactor	<b>NT1</b> rooppur reactor	<b>NT1</b> vogtle-4 reactor
<b>NT1</b> mihama-1 reactor	<b>NT1</b> rowe yankee reactor	<b>NT1</b> waterford-3 reactor
<b>NT1</b> mihama-2 reactor	<b>NT1</b> s1c prototype reactor	<b>NT1</b> waterford-4 reactor
<b>NT1</b> mihama-3 reactor	<b>NT1</b> saint alban-1 reactor	<b>NT1</b> watts bar-1 reactor
<b>NT1</b> millstone-2 reactor	<b>NT1</b> saint alban-2 reactor	<b>NT1</b> watts bar-2 reactor
<b>NT1</b> millstone-3 reactor	<b>NT1</b> saint laurent-b1 reactor	<b>NT1</b> westinghouse standard reactor
<b>NT1</b> muelheim-kaerlich reactor	<b>NT1</b> saint laurent-b2 reactor	<b>NT1</b> wnp-1 reactor
<b>NT1</b> mutsu reactor	<b>NT1</b> salem-1 reactor	<b>NT1</b> wnp-3 reactor
<b>NT1</b> neckar-1 reactor	<b>NT1</b> salem-2 reactor	<b>NT1</b> wnp-4 reactor
<b>NT1</b> neckar-2 reactor	<b>NT1</b> san onofre-1 reactor	<b>NT1</b> wnp-5 reactor
<b>NT1</b> nep-1 reactor	<b>NT1</b> san onofre-2 reactor	<b>NT1</b> wolf creek-1 reactor
<b>NT1</b> nep-2 reactor	<b>NT1</b> san onofre-3 reactor	<b>NT1</b> wup-3 reactor
<b>NT1</b> neupotz-1 reactor	<b>NT1</b> savannah reactor	<b>NT1</b> wup-4 reactor
<b>NT1</b> neupotz-2 reactor	<b>NT1</b> saxton reactor	<b>NT1</b> wup-5 reactor
<b>NT1</b> ningde-1 reactor	<b>NT1</b> seabrook-1 reactor	<b>NT1</b> wup-6 reactor
<b>NT1</b> ningde-2 reactor	<b>NT1</b> seabrook-2 reactor	<b>NT1</b> wwer type reactors
<b>NT1</b> ningde-3 reactor	<b>NT1</b> selni reactor	<b>NT2</b> armenian-1 reactor
<b>NT1</b> ningde-4 reactor	<b>NT1</b> sendai-1 reactor	<b>NT2</b> armenian-2 reactor
<b>NT1</b> nogent-1 reactor	<b>NT1</b> sendai-2 reactor	<b>NT2</b> balakovo-1 reactor
<b>NT1</b> nogent-2 reactor	<b>NT1</b> sequoyah-1 reactor	<b>NT2</b> balakovo-2 reactor
<b>NT1</b> north anna-1 reactor	<b>NT1</b> sequoyah-2 reactor	<b>NT2</b> balakovo-3 reactor
<b>NT1</b> north anna-2 reactor	<b>NT1</b> shin-kori-1 reactor	<b>NT2</b> balakovo-4 reactor
<b>NT1</b> north anna-3 reactor	<b>NT1</b> shin-kori-2 reactor	<b>NT2</b> blahutovice-1 reactor
<b>NT1</b> north anna-4 reactor	<b>NT1</b> shin-kori-3 reactor	<b>NT2</b> bohunice v-1 reactor
<b>NT1</b> north coast-1 reactor	<b>NT1</b> shin-wolsong-1 reactor	<b>NT2</b> bohunice v-2 reactor
<b>NT1</b> obrigheim reactor	<b>NT1</b> shippingport reactor	<b>NT2</b> dukovany-1 reactor
<b>NT1</b> oconee-1 reactor	<b>NT1</b> sizewell-b reactor	<b>NT2</b> dukovany-2 reactor
<b>NT1</b> oconee-2 reactor	<b>NT1</b> sm-1 reactor	<b>NT2</b> dukovany-3 reactor
<b>NT1</b> oconee-3 reactor	<b>NT1</b> sm-1a reactor	<b>NT2</b> dukovany-4 reactor
<b>NT1</b> oi-1 reactor	<b>NT1</b> south texas project-1 reactor	<b>NT2</b> greifswald-1 reactor
<b>NT1</b> oi-2 reactor	<b>NT1</b> south texas project-2 reactor	<b>NT2</b> greifswald-2 reactor
<b>NT1</b> oi-3 reactor	<b>NT1</b> stade reactor	<b>NT2</b> greifswald-3 reactor
<b>NT1</b> oi-4 reactor	<b>NT1</b> sterling-1 reactor	<b>NT2</b> greifswald-4 reactor
<b>NT1</b> oktemberyan-2 reactor	<b>NT1</b> sterling-2 reactor	<b>NT2</b> greifswald-5 reactor

**NT2** greifswald-6 reactor  
**NT2** juragua-1 reactor  
**NT2** kalinin-1 reactor  
**NT2** kalinin-2 reactor  
**NT2** kalinin-3 reactor  
**NT2** kalinin-4 reactor  
**NT2** kecerovce-1 reactor  
**NT2** khmel'nitskij-1 reactor  
**NT2** khmel'nitskij-2 reactor  
**NT2** kola-1 reactor  
**NT2** kola-2 reactor  
**NT2** kola-3 reactor  
**NT2** kola-4 reactor  
**NT2** kozloduy-1 reactor  
**NT2** kozloduy-2 reactor  
**NT2** kozloduy-3 reactor  
**NT2** kozloduy-4 reactor  
**NT2** kozloduy-5 reactor  
**NT2** kozloduy-6 reactor  
**NT2** kudankulam-1 reactor  
**NT2** kudankulam-2 reactor  
**NT2** loviisa-1 reactor  
**NT2** loviisa-2 reactor  
**NT2** mochovce-1 reactor  
**NT2** mochovce-2 reactor  
**NT2** novovoronezh-1 reactor  
**NT2** novovoronezh-2 reactor  
**NT2** novovoronezh-3 reactor  
**NT2** novovoronezh-4 reactor  
**NT2** novovoronezh-5 reactor  
**NT2** paks-1 reactor  
**NT2** paks-2 reactor  
**NT2** paks-3 reactor  
**NT2** paks-4 reactor  
**NT2** rostov-1 reactor  
**NT2** rostov-2 reactor  
**NT2** rostov-3 reactor  
**NT2** rovno-1 reactor  
**NT2** rovno-2 reactor  
**NT2** rovno-3 reactor  
**NT2** rovno-4 reactor  
**NT2** rovno-5 reactor  
**NT2** south ukrainian-1 reactor  
**NT2** south ukrainian-2 reactor  
**NT2** south ukrainian-3 reactor  
**NT2** stendal-1 reactor  
**NT2** tatarian reactor  
**NT2** temelin-1 reactor  
**NT2** temelin-2 reactor  
**NT2** tianwan-1 reactor  
**NT2** tianwan-2 reactor  
**NT2** zaporozhe-1 reactor  
**NT2** zaporozhe-2 reactor  
**NT2** zaporozhe-3 reactor  
**NT2** zaporozhe-4 reactor  
**NT2** zaporozhe-5 reactor  
**NT2** zaporozhe-6 reactor  
**NT1** wyhl-1 reactor  
**NT1** wyhl-2 reactor  
**NT1** yangjiang-1 reactor  
**NT1** yangjiang-2 reactor  
**NT1** yangjiang-3 reactor  
**NT1** yangjiang-4 reactor  
**NT1** yellow creek-1 reactor  
**NT1** yellow creek-2 reactor  
**NT1** zion-1 reactor  
**NT1** zion-2 reactor  
**NT1** zorita-1 reactor

**PYCNOMETERS**

\*BT1 densimeters

**PYRANOMETERS**

2000-04-12

BT1 measuring instruments  
 \*BT1 solar equipment  
 RT photometers  
 RT radiometers  
 RT solar radiation

**PYRANS**

1996-06-28

Compounds that contain a six-membered heterocyclic ring containing one oxygen atom.

\*BT1 heterocyclic oxygen compounds  
 NT1 coumarin  
 NT1 hematoxylin  
 NT1 pyrones  
 NT1 quercetin  
 NT1 tetrahydropyran

**PYRAZINES**

1996-10-23

Compounds that contain a six-membered heterocyclic ring containing nitrogen atoms in the 1 and 4 positions.

UF 1,4-diazines  
 UF neutral red  
 UF toluylene red  
 \*BT1 azines  
 NT1 phenazine  
 NT1 piperazines  
 RT pteridines

**PYRAZOLES**

Compounds that contain a five-membered heterocyclic ring containing nitrogen atoms in the 1 and 2 positions.

\*BT1 azoles  
 NT1 indazoles  
 NT1 pyrazolines  
 NT2 antipyrine

**PYRAZOLINES**

UF aminopyrine  
 UF dam  
 UF diantipyrylmethane  
 \*BT1 pyrazoles  
 NT1 antipyrine

**PYRENE**

\*BT1 polycyclic aromatic hydrocarbons

**PYREX**

\*BT1 borosilicate glass

**PYRHELIOMETERS**

2000-04-12

BT1 measuring instruments  
 \*BT1 solar equipment  
 BT1 telescopes  
 RT solar flux

**PYRIDAZINES**

Compounds that contain a six-membered heterocyclic ring containing nitrogen atoms in the 1 and 2 positions.

\*BT1 azines  
 NT1 phthalazines  
 NT2 luminol

**PYRIDINE**

INIS: 1992-09-18; ETDE: 1992-10-13

(Prior to April 1992 this was a valid ETDE descriptor. From April to October 1992 PYRIDINES was used for this concept in ETDE.)

\*BT1 pyridines

*pyridineazohydroxynaphthalene*

USE pyridylazonaphthol

**PYRIDINES**

1996-07-18

Compounds that contain a six-membered heterocyclic ring containing one nitrogen atom.

UF diodrast  
 UF iodopyracet  
 \*BT1 azines  
 NT1 acridines  
 NT2 acridine orange

**NT2** flavines

**NT3** acriflavine

**NT3** proflavine

**NT1** bipyridines

**NT1** nicotinamide

**NT1** nicotine

**NT1** nicotinic acid

**NT1** picolines

**NT2** picolinic acid

**NT1** piperidines

**NT2** dipyridamole

**NT2** pethidine

**NT2** triacetoneamine-n-oxyl

**NT1** pyridine

**NT1** pyridinium compounds

**NT1** pyridoxal

**NT1** pyridoxine

**NT1** pyridoxylideneglutamate

**NT1** pyridylazonaphthol

**NT1** pyridylazoresorcinol

**NT1** quinolines

**NT2** ferron

**NT2** oxine

**NT2** quinaldine

RT isoniazid

RT nad

**PYRIDINIUM COMPOUNDS**

\*BT1 pyridines

\*BT1 quaternary ammonium compounds

**PYRIDOXAL**

\*BT1 aldehydes

\*BT1 organic oxygen compounds

\*BT1 pyridines

RT coenzymes

RT picolines

RT vitamin b group

**PYRIDOXINE**

UF vitamin b-6

\*BT1 hydroxy compounds

\*BT1 pyridines

\*BT1 vitamin b group

**PYRIDOXYLIDENEGUTAMATE**

INIS: 1977-11-21; ETDE: 1978-03-08

\*BT1 glutamic acid

\*BT1 pyridines

**PYRIDYL RADICALS**

BT1 radicals

**PYRIDYLAZONAPHTHOL**

ETDE: 2005-02-01

(Prior to January 2005 PAN was used for this concept.)

UF pan (pyridylazonaphthol)

UF pyridineazohydroxynaphthalene

\*BT1 diazo compounds

\*BT1 naphthols

\*BT1 pyridines

**PYRIDYLAZORESORCINOL**

\*BT1 diazo compounds

\*BT1 polyphenols

\*BT1 pyridines

BT1 reagents

**PYRIMIDINE DIMERS**

INIS: 1986-03-04; ETDE: 1984-06-29

The product of the chemical fusion of two neighboring pyrimidine nucleotides which results from radiation exposure of the cell.

BT1 dimers

RT dna repair

RT mutations

RT pyrimidines

RT strand breaks

**PYRIMIDINES**

1996-10-23

Compounds that contain a six-membered heterocyclic ring containing nitrogen atoms in the 1 and 3 positions.

UF 1,3-diazines  
 UF murexide  
 UF purpuric acid  
 UF sulfadiazine  
 \*BT1 azines  
 NT1 alloxan  
 NT1 barbiturates  
 NT2 nambutal  
 NT2 phenobarbital  
 NT1 cytidine  
 NT1 cytosine  
 NT1 deoxycytidine  
 NT1 thiamine  
 NT1 thymidine  
 NT2 fluorothymidine  
 NT1 uracils  
 NT2 bromouracils  
 NT3 budr  
 NT2 chlorouracils  
 NT2 deoxyuridine  
 NT2 fluorouracils  
 NT3 fudr  
 NT2 iodouracils  
 NT3 iododeoxyuridine  
 NT2 orotic acid  
 NT2 thiouracil  
 NT2 thymine  
 NT2 uridine

RT nucleosides  
 RT pteridines  
 RT pyrimidine dimers

**PYRITE**

1978-07-03

UF pyrites  
 \*BT1 sulfide minerals  
 RT iron ores  
 RT iron sulfides  
 RT ledgemont process  
 RT marcasite

**pyrites**

INIS: 2000-04-12; ETDE: 1976-04-19  
 (Prior to May 1982 this was a valid ETDE descriptor.)

USE pyrite

**pyrocarbon**

2000-04-12

USE pyrolytic carbon

**pyrocatechin**

USE pyrocatechol

**PYROCATECHOL**

UF 1,2-dihydroxybenzene  
 UF catechol  
 UF dihydroxybenzene-ortho  
 UF pyrocatechin  
 BT1 developers  
 \*BT1 polyphenols  
 RT catecholamines  
 RT dopamine  
 RT pyrocatechol violet

**PYROCATECHOL VIOLET**

BT1 dyes  
 BT1 indicators  
 RT pyrocatechol

**PYROCHEMICAL REPROCESSING**

INIS: 1980-07-24; ETDE: 1979-12-10

Processes that are carried out at elevated temperatures to effect the chemical reactions and transformations required to purify and recover spent reactor fuels. Molten metals or

salts rather than aqueous or organic liquids are used to effect the purification.

UF melt refining process  
 UF salt transport process  
 UF zinc distillation process  
 \*BT1 reprocessing

**PYROCHLORE**

INIS: 1998-10-23; ETDE: 1982-02-11

UF pyrrhite  
 BT1 minerals

**PYROELECTRIC DETECTORS**

INIS: 1978-11-24; ETDE: 1979-05-25

\*BT1 radiation detectors

**PYROELECTRIC EFFECT**

2000-04-12

Electric polarity produced in certain crystals by a change in temperature.

RT electric charges  
 RT electric potential

**pyroelectricity**

INIS: 1984-04-04; ETDE: 2002-04-26

Property of certain crystals to produce a state of electrical polarity by a change of temperature.

USE electric charges  
 USE polarization  
 USE temperature dependence

**pyrogalllic acid**

USE pyrogallol

**PYROGALLOL**

UF 1,2,3-trihydroxybenzene  
 UF pyrogalllic acid  
 BT1 developers  
 \*BT1 polyphenols

**PYROGENS**

RT fever  
 RT peptides  
 RT polysaccharides

**PYROLYSIS**

1998-01-28

UF thermal decomposition

\*BT1 decomposition  
 BT1 thermochemical processes  
 NT1 calcination  
 NT1 cracking  
 NT2 catalytic cracking  
 NT2 hydrocracking  
 NT2 thermal cracking  
 NT1 flash hydrolysis process  
 RT destructive distillation  
 RT dissociation  
 RT landgard pyrolysis system  
 RT occidental flash pyrolysis process  
 RT purox pyrolysis process  
 RT pyrolysis products  
 RT retorting  
 RT rope process  
 RT slagging pyrolysis process  
 RT syngas process  
 RT thermal degradation

**PYROLYSIS PRODUCTS**

INIS: 1983-02-03; ETDE: 1979-07-24

Products from the pyrolysis or thermochemical reactions of carbonaceous materials.

NT1 chars  
 NT1 coal gas  
 NT1 pyrolytic gases  
 NT1 pyrolytic oils  
 RT by-products  
 RT combustion products  
 RT pyrolysis  
 RT synthetic fuels

RT volatile matter

RT wastes

**PYROLYTIC CARBON**

UF pyrocarbon  
 \*BT1 carbon

**PYROLYTIC GASES**

INIS: 1992-07-17; ETDE: 1979-07-24

Gaseous products from pyrolysis or thermochemical reactions of carbonaceous materials.

\*BT1 gases  
 BT1 pyrolysis products  
 RT chemical feedstocks  
 RT pyrolytic oils  
 RT synthetic fuels  
 RT volatile matter

**PYROLYTIC OILS**

INIS: 1992-07-17; ETDE: 1978-10-23

Oils produced from organic materials by pyrolysis or thermochemical reactions.

\*BT1 oils  
 BT1 pyrolysis products  
 \*BT1 synthetic fuels  
 RT coal liquids  
 RT pyrolytic gases  
 RT shale oil  
 RT volatile matter

**PYROMETALLURGY**

\*BT1 extractive metallurgy  
 NT1 chloride volatility process  
 NT1 fluoride volatility process  
 RT calcination  
 RT reduction  
 RT roasting  
 RT smelters  
 RT smelting

**PYROMETERS**

Instruments that measure high temperature, e.g. of molten lavas, by electrical or optical means.

BT1 measuring instruments  
 NT1 optical pyrometers  
 RT temperature measurement

**PYRONES**

INIS: 2000-04-12; ETDE: 1979-10-23

Oxopyran.  
 UF chromone  
 \*BT1 pyrans

**PYROPHOSPHATES**

BT1 oxygen compounds  
 BT1 phosphorus compounds

**PYROPHYLLITE**

2000-04-12

A white, greenish, gray, or brown mineral.

\*BT1 silicate minerals  
 RT aluminium silicates

**PYROSOL PROCESS**

INIS: 2000-04-12; ETDE: 1985-09-24

A two-step coal hydrogenation process, including partial hydrogenation at 455 to 465 degrees C and a pressure of 200 bar and coking of the hydrogenation residue in the presence of hydrogen at about 500 degrees C.

\*BT1 coal liquefaction

**pyrotechnic devices**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE chemical explosives

**pyrotek process**

INIS: 2000-04-12; ETDE: 1977-04-12

Shredded refuse is heated on a vibrating conveyor in less than stoichiometric air to produce low btu gas in this process developed by Foster Wheeler Corp.

USE low btu gas  
USE waste processing

**pyroxenes**

1976-05-07

A group of dark, rock-forming silicate minerals.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE silicate minerals

**pyroxylin**

USE nitrocellulose

**pyrrhite**

INIS: 1998-10-23; ETDE: 1984-02-10

USE pyrochlore

**PYRRHOTITE**

ETDE: 1976-03-31

\*BT1 sulfide minerals

NT1 troilite

RT iron sulfides

**pyrrolase (tryptophan)**

1996-11-13

(Prior to March 1997 TRYPTOPHAN OXYGENASE was used for this concept in ETDE.)

USE oxygenases

**PYRROLES**

1996-10-22

Compounds that contain a five-membered heterocyclic ring containing one nitrogen atom.

UF biliverdin

UF urobilinogen

\*BT1 azoles

NT1 bilirubin

NT1 indoles

NT2 indigo

NT2 indocyanine green

NT2 lysergic acid

NT2 reserpine

NT2 strychnine

NT2 tryptamines

NT3 melatonin

NT3 serotonin

NT4 bufotenine

NT2 tryptophan

NT2 vinblastine

NT1 pyrrolidines

NT2 hydroxyproline

NT2 nicotine

NT2 proline

NT1 pyrrolidones

NT2 pvp

RT carbazoles

**PYRROLIDINES**

UF tetrahydropyrroles

\*BT1 amines

\*BT1 pyrroles

NT1 hydroxyproline

NT1 nicotine

NT1 proline

**pyrrolidinones**

1996-04-29

USE pyrrolidones

**PYRROLIDONES**

UF butyrolactam

UF pyrrolidinones

\*BT1 lactams

\*BT1 pyrroles

NT1 pvp

**PYRUVIC ACID**

UF ketopropionic acid-alpha

\*BT1 keto acids

**PZT**

INIS: 1986-09-26; ETDE: 1982-12-23

Lead zirconate titanate.

UF lead zirconate titanate

BT1 lead compounds

\*BT1 titanates

\*BT1 zirconates

RT ceramics

**q centers**

INIS: 1996-07-23; ETDE: 1977-11-10

(Until July 1996 this was a valid descriptor.)

USE color centers

**Q CODES**

BT1 computer codes

**Q DEVICES**

\*BT1 open plasma devices

NT1 helios devices

NT1 qp devices

RT magnetic mirrors

**q enhancement**

2000-04-12

SEE k1-1270 mesons

SEE k1-1400 mesons

**q resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

SEE k1-1270 mesons

SEE k1-1400 mesons

**Q-SHIFT**

INIS: 1976-03-25; ETDE: 1976-08-26

RT betatron oscillations

RT particle beams

**Q-SWITCHING**

RT lasers

RT switches

**Q-VALUE**

BT1 energy

RT nuclear reaction kinetics

**QATAR**

INIS: 1991-11-06; ETDE: 1976-10-13

BT1 arab countries

BT1 asia

BT1 developing countries

BT1 middle east

RT oapec

RT opec

**qbits**

2005-09-30

USE qubits

**qcd**

INIS: 2000-04-12; ETDE: 1995-01-09

USE quantum chromodynamics

**qf (radiation)**

USE quality factor

**QINSHAN-1 REACTOR**

1997-04-29

Near Shanghai, China.

(Until April 1997 this descriptor was spelled

QINSHAN REACTOR.)

UF qinshan reactor

\*BT1 pwr type reactors

**QINSHAN-2-1 REACTOR**

2003-01-22

Near Shanghai, China.

(Prior to January 2003 QINSHAN-2 REACTOR was used.)

UF qinshan-2 reactor

\*BT1 pwr type reactors

**QINSHAN-2-2 REACTOR**

2003-01-22

Near Shanghai, China.

\*BT1 pwr type reactors

**QINSHAN-2-3 REACTOR**

2016-11-15

near Shanghai, China

\*BT1 pwr type reactors

**QINSHAN-2-4 REACTOR**

2016-11-15

near Shanghai, China

\*BT1 pwr type reactors

**qinshan-2 reactor**

1997-04-29

Near Shanghai, China.

(Prior to January 2003 this was a valid descriptor.)

USE qinshan-2-1 reactor

**QINSHAN-3-1 REACTOR**

2003-01-22

Near Shanghai, China.

(Prior to January 2003 QINSHAN-3 REACTOR was used.)

UF qinshan-3 reactor

\*BT1 candu type reactors

\*BT1 phwr type reactors

**QINSHAN-3-2 REACTOR**

2003-01-22

Near Shanghai, China.

\*BT1 candu type reactors

\*BT1 phwr type reactors

**qinshan-3 reactor**

1999-03-23

Near Shanghai, China.

(Prior to January 2003 this was a valid descriptor.)

USE qinshan-3-1 reactor

**qinshan reactor**

INIS: 1997-04-29; ETDE: 1986-09-05

(Until April 1997 this was a valid descriptor.)

USE qinshan-1 reactor

**QP DEVICES**

\*BT1 q devices

**QUAD CITIES-1 REACTOR**

Exelon Generation Co., LLC, Cordova, Illinois, USA.

UF cordova quad cities-1 reactor

\*BT1 bwr type reactors

**QUAD CITIES-2 REACTOR**

Exelon Generation Co., LLC, Cordova, Illinois, USA.

UF cordova quad cities-2 reactor

\*BT1 bwr type reactors

**QUADRATURES**

UF gauss quadratures

RT integrals

**QUADRICYCLENE**

INIS: 2000-04-12; ETDE: 1977-12-22

\*BT1 cycloalkenes

**QUADRUPOLAR CONFIGURATIONS**

\*BT1 multipolar configurations

**QUADRUPOLE LINACS**

INIS: 1983-02-03; ETDE: 1981-01-09

Linear accelerator having four longitudinal vanes in its resonating cavity, which are shaped to create rf electric fields that simultaneously accelerate, bunch, and focus the charged particle beam.

UF radio frequency quadrupoles

UF rfq (accelerators)

\*BT1 linear accelerators

RT fmit linac

RT pigmi facilities

**QUADRUPOLE MOMENTS**

RT electric moments

RT magnetic moments

RT nuclear electric moments

RT nuclear magnetic moments

RT nuclear quadrupole resonance

RT quadrupoles

**QUADRUPOLES**

BT1 multipoles

RT beam focusing magnets

RT quadrupole moments

**QUALITATIVE CHEMICAL ANALYSIS**

UF analysis (qualitative chemical)

UF assaying (qualitative)

UF urinalysis

BT1 chemical analysis

RT activation analysis

RT blood chemistry

RT chemistry

RT emission spectroscopy

RT microanalysis

RT radioassay

**QUALITY ASSURANCE**

The planned and systematic actions necessary to provide adequate confidence that a structure, system, or component will perform satisfactorily in service.

\*BT1 quality management

RT audits

RT certification

RT evaluation

RT licensing

RT quality control

RT reliability

RT safety

RT safety culture

RT standardization

**QUALITY CONTROL**

An aggregate of functions designed to insure adequate quality in manufactured products by initial critical study of engineering design, materials, processes, equipment, and workmanship followed by periodic inspection and analysis.

BT1 control

RT errors

RT inspection

RT materials testing

RT nondestructive testing

RT performance testing

RT quality assurance

RT quality management

RT reliability

RT safety

RT sampling

RT specifications

RT standardization

RT tolerance

**QUALITY FACTOR**

UF qf (radiation)

BT1 dimensionless numbers

RT dose equivalents

RT let

RT oxygen enhancement ratio

RT radiation quality

RT rbe

**QUALITY MANAGEMENT**

2018-01-29

Management activities and functions involved in determination of quality policy and its implementation.

BT1 management

NT1 quality assurance

RT quality control

**QUALITY OF LIFE**

2018-03-13

Measure of individual's sense of well-being and ability to carry out activities of daily living in medicine. For social sciences use

STANDARD OF LIVING.

RT chemotherapy

RT combined therapy

RT neoplasms

RT nutrition

RT public health

RT side effects

RT toxicity

**QUANICASSEE-1 REACTOR**

Consumers Power Co., Quanicassee, Michigan, USA. Canceled in 1974 before construction began.

\*BT1 pwr type reactors

**QUANICASSEE-2 REACTOR**

Consumers Power Co., Quanicassee, Michigan, USA. Canceled in 1974 before construction began.

\*BT1 pwr type reactors

**QUANTITATIVE CHEMICAL ANALYSIS**

1995-11-22

UF analysis (quantitative chemical)

UF assaying (quantitative)

BT1 chemical analysis

NT1 gravimetric analysis

NT2 thermal gravimetric analysis

NT1 radio-release analysis

NT1 radiochemical analysis

NT1 radiometric analysis

NT1 volumetric analysis

NT2 titration

NT3 amperometry

NT3 iodometry

NT3 potentiometry

NT3 thermometric titration

RT activation analysis

RT blood chemistry

RT body composition

RT chemical composition

RT chemistry

RT concentration ratio

RT emission spectroscopy

RT fluorescence spectroscopy

RT gas analysis

RT isotope dilution

RT kjeldahl method

RT microanalysis

RT polarography

RT radioenzymatic assay

RT raman spectroscopy

RT substoichiometry

RT voltametry

RT x-ray emission analysis

RT x-ray fluorescence analysis

**quantity ratio**

INIS: 1993-07-12; ETDE: 1993-01-28

(Prior to July 1991 this was a valid ETDE descriptor.)

USE concentration ratio

**QUANTIZATION**

1983-03-15

Transition from a description of a system of particles or fields in the classical approximation to a description in which canonically conjugate variables are treated as noncommuting operators.

NT1 second quantization

RT quantum field theory

RT quantum mechanics

RT quantum operators

**quantum bits**

2005-09-30

USE qubits

**QUANTUM CHROMODYNAMICS**

INIS: 1978-02-23; ETDE: 1977-11-28

Renormalizable quantum field theory, in which colored quark fields are coupled to gluon fields.

UF chromodynamics

UF qcd

\*BT1 quantum field theory

RT bag model

RT cim model

RT color model

RT flavor model

RT gauge invariance

RT gluon-gluon interactions

RT gluon model

RT gluons

RT grand unified theory

RT instantons

RT quantum electrodynamics

RT quantum flavordynamics

RT quark-gluon interactions

RT standard model

RT string models

RT su-3 groups

RT vector fields

RT wilson loop

RT yang-mills theory

**QUANTUM COMPUTERS**

2005-09-30

Devices for computation that make direct use of distinctively quantum mechanical phenomena, such as superposition and entanglement, to perform operations on data.

UF quantum computing

BT1 computers

RT quantum electronics

RT quantum entanglement

RT quantum information

RT quantum mechanics

RT quantum monte carlo method

RT quantum states

RT quantum systems

**quantum computing**

2005-09-30

USE quantum computers

**QUANTUM COSMOLOGY**

2014-02-26

BT1 cosmology

RT quantum mechanics

**QUANTUM CRYPTOGRAPHY**

INIS: 2005-11-01; ETDE: 2005-10-31

Approach to making communications secure based on phenomena of quantum mechanics.

BT1 cryptography

RT memory devices

RT quantum mechanics  
RT qubits

### quantum crystals

2000-04-12

*Crystals with large zero-point motions caused by light mass and a weak interaction of the lattice particles.*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE crystals

### QUANTUM DECOHERENCE

INIS: 2005-11-01; ETDE: 2005-10-31

RT quantum entanglement  
RT quantum mechanics

### QUANTUM DOTS

2003-11-03

BT1 nanostructures

### QUANTUM EFFICIENCY

INIS: 1982-06-10; ETDE: 1979-09-06

*Average number of electrons emitted per incident photon.*

BT1 efficiency  
RT photocathodes  
RT photoelectric emission  
RT photon counting

### QUANTUM ELECTRODYNAMICS

BT1 electrodynamics  
\*BT1 quantum field theory  
NT1 schwinger-tomonaga formalism  
RT bhabha scattering  
RT dirac equation  
RT dirac operators  
RT equivalent-photon approximation  
RT infrared divergences  
RT joos-weinberg equation  
RT moeller scattering  
RT quantum chromodynamics  
RT quantum flavordynamics  
RT self-energy  
RT standard model  
RT ultraviolet divergences  
RT vacuum polarization  
RT ward identity

### QUANTUM ELECTRONICS

INIS: 1981-05-11; ETDE: 1976-08-04

*Unites the classical areas of electronics with those of optics, spectroscopy and quantum mechanics and is based upon the quantum nature of waves and atomic and molecular systems.*

UF electronics (quantum)  
RT lasers  
RT masers  
RT optics  
RT optoelectronic devices  
RT quantum computers  
RT quantum mechanics  
RT quantum optics  
RT spectroscopy

### QUANTUM ENTANGLEMENT

2005-09-30

*Quantum mechanical phenomenon in which the quantum states of two or more objects have to be described with reference to each other, even though the individual objects may be spatially separated.*

RT quantum computers  
RT quantum decoherence  
RT quantum mechanics  
RT quantum numbers  
RT quantum states  
RT quantum teleportation  
RT wave functions

### QUANTUM FIELD THEORY

UF non-linear field theory  
UF nonlinear field theory  
BT1 field theories  
NT1 axiomatic field theory  
NT2 algebraic field theory  
NT2 lsz theory  
NT2 wightman field theory  
NT1 constructive field theory  
NT2 lattice field theory  
NT1 lagrangian field theory  
NT1 phi4-field theory  
NT1 quantum chromodynamics  
NT1 quantum electrodynamics  
NT2 schwinger-tomonaga formalism  
NT1 quantum flavordynamics  
NT1 quantum gravity  
NT2 loop quantum gravity  
NT1 unified gauge models  
NT2 grand unified theory  
NT3 standard model  
NT2 weinberg-salam gauge model  
NT1 yukawa nonlocal theory  
RT anyons  
RT bethe-salpeter equation  
RT current algebra  
RT dispersion relations  
RT dyson representation  
RT feynman diagram  
RT field algebra  
RT field operators  
RT fock representation  
RT gauge invariance  
RT goldberger-treiman relation  
RT haag theorem  
RT heisenberg picture  
RT higgs model  
RT holographic principle  
RT ladder approximation  
RT lehmann-kaellen representation  
RT locality  
RT mass formulae  
RT massless particles  
RT melosh transformation  
RT propagator  
RT quantization  
RT quantum groups  
RT quantum mechanics  
RT quasipotential equation  
RT radiative corrections  
RT regge poles  
RT renormalization  
RT s matrix  
RT scalar fields  
RT scale dimension  
RT schroedinger picture  
RT schwinger functional equations  
RT schwinger source theory  
RT second quantization  
RT sine-gordon equation  
RT spinor fields  
RT spinors  
RT sugawara theory  
RT supergravity  
RT supersymmetry  
RT tensor fields  
RT thirring model  
RT vector fields  
RT vertex functions  
RT vortex theory  
RT wick theorem  
RT yang-feldman formalism  
RT yang-mills theory  
RT zachariasen model

### QUANTUM FLAVORDYNAMICS

INIS: 1995-08-10; ETDE: 1979-05-25

UF flavordynamics  
\*BT1 quantum field theory

RT flavor model  
RT quantum chromodynamics  
RT quantum electrodynamics  
RT weinberg-salam gauge model

### QUANTUM FLUIDS

INIS: 1983-02-03; ETDE: 1979-05-02

BT1 fluids  
NT1 helium ii  
RT helium 3  
RT helium 4  
RT quantum plasma

### QUANTUM GRAVITY

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 quantum field theory  
NT1 loop quantum gravity  
RT cosmological inflation  
RT general relativity theory  
RT gravitation  
RT gravitational fields  
RT gravitons  
RT holographic principle  
RT supergravity  
RT unified field theories

### QUANTUM GROUPS

1997-08-20

*Algebraic structures with applications in solvable models in quantum field theory and statistical physics.*

BT1 symmetry groups  
RT algebra  
RT group theory  
RT quantum field theory

### QUANTUM INFORMATION

2005-09-30

*Physical information that is held in the state of a quantum system.*

BT1 information  
NT1 qubits  
RT entropy  
RT information theory  
RT quantum computers  
RT quantum mechanics  
RT quantum systems  
RT quantum teleportation

### QUANTUM MECHANICS

BT1 mechanics  
RT adiabatic approximation  
RT adiabatic invariance  
RT aharonov-bohm effect  
RT angular momentum  
RT bell theorem  
RT bloch theory  
RT born approximation  
RT boson expansion  
RT canonical transformations  
RT causality  
RT chirality  
RT commutation relations  
RT d waves  
RT de broglie wavelength  
RT density matrix  
RT diabatic approximation  
RT dirac approximation  
RT eigenfunctions  
RT eigenstates  
RT eigenvalues  
RT energy density  
RT expectation value  
RT f waves  
RT feynman path integral  
RT fierz-pauli theory  
RT generator-coordinate method  
RT heisenberg picture  
RT hidden variables  
RT hsk procedure  
RT hylleraas coordinates

RT klein-gordon equation  
 RT kramers theorem  
 RT levinson theorem  
 RT lippmann-schwinger equation  
 RT m-theory  
 RT mathematical operators  
 RT occupation number  
 RT p waves  
 RT partial waves  
 RT pauli principle  
 RT perturbation theory  
 RT planck law  
 RT proca equations  
 RT projection operators  
 RT quantization  
 RT quantum computers  
 RT quantum cosmology  
 RT quantum cryptography  
 RT quantum decoherence  
 RT quantum electronics  
 RT quantum entanglement  
 RT quantum field theory  
 RT quantum information  
 RT quantum numbers  
 RT quantum optics  
 RT quantum states  
 RT quantum systems  
 RT quantum teleportation  
 RT racah coefficients  
 RT rarita-schwinger theory  
 RT s waves  
 RT schrodinger equation  
 RT schrodinger picture  
 RT schwinger variational method  
 RT second quantization  
 RT selection rules  
 RT semiclassical approximation  
 RT seniority number  
 RT sommerfeld-watson theory  
 RT sudden approximation  
 RT sum rules  
 RT superselection rules  
 RT tamm-dancoff method  
 RT twistor theory  
 RT uncertainty principle  
 RT wigner coefficients  
 RT wigner theory  
 RT zitterbewegung

**QUANTUM MONTE CARLO METHOD**

2018-03-01

*Computational methods whose common aim is the study of complex quantum systems*

\*BT1 monte carlo method  
 NT1 diffusion monte carlo method  
 NT1 variational monte carlo method  
 RT calculation methods  
 RT many-body problem  
 RT quantum computers  
 RT quantum systems

**QUANTUM NUMBERS**

NT1 seniority number  
 RT flavor model  
 RT gell-mann theory  
 RT multiplicity  
 RT parity  
 RT particle properties  
 RT quantum entanglement  
 RT quantum mechanics  
 RT quantum states  
 RT quantum teleportation  
 RT spin

**QUANTUM OPERATORS**

UF operators (quantum field theory)  
 UF operators (quantum mechanical)  
 BT1 mathematical operators  
 NT1 angular momentum operators

NT2 orbital momentum operators  
 NT2 pauli spin operators  
 NT1 annihilation operators  
 NT1 commutators  
 NT2 current commutators  
 NT3 sigma terms  
 NT1 creation operators  
 NT1 dirac operators  
 NT1 field operators  
 NT1 hamiltonians  
 NT1 linear momentum operators  
 NT1 moshinsky transformation  
 NT1 position operators  
 RT boson expansion  
 RT gluon condensation  
 RT operator product expansion  
 RT quantization  
 RT quantum states  
 RT quark condensation

**QUANTUM OPTICS**

2015-02-24

*A field of research where interactions with light and matter are studied on the basis of quantum mechanical properties of light.*

BT1 optics  
 RT lasers  
 RT quantum electronics  
 RT quantum mechanics  
 RT quantum systems

**QUANTUM PLASMA**

BT1 plasma  
 RT quantum fluids

**QUANTUM STATES**

2011-01-25

*The conditions of quantum mechanical systems, described by mathematical variables, state vectors or wave functions.*

NT1 mixed states  
 NT1 pure states  
 RT density of states  
 RT quantum computers  
 RT quantum entanglement  
 RT quantum mechanics  
 RT quantum numbers  
 RT quantum operators  
 RT quantum systems  
 RT wave functions

**QUANTUM SYSTEMS**

2015-05-19

RT density of states  
 RT integrability  
 RT quantum computers  
 RT quantum information  
 RT quantum mechanics  
 RT quantum monte carlo method  
 RT quantum optics  
 RT quantum states

**QUANTUM TELEPORTATION**

2005-09-30

*Technique of quantum information science in which a quantum state is transferred to an arbitrarily distant location by using an entangled state and the transmission of some classical information.*

RT data transmission  
 RT quantum entanglement  
 RT quantum information  
 RT quantum mechanics  
 RT quantum numbers

**QUANTUM WELLS**

2003-11-03

BT1 nanostructures  
 RT heterojunctions  
 RT wave functions

**QUANTUM WIRES**

2003-11-03

BT1 nanostructures

**QUARANTINE**

RT diseases  
 RT health hazards  
 RT incubation  
 RT latency period  
 RT pest control  
 RT public health  
 RT time dependence

**QUARK-ANTIQUARK INTERACTIONS**

INIS: 1979-01-18; ETDE: 1979-02-23

\*BT1 particle interactions

**QUARK CONDENSATION**

INIS: 1989-04-20; ETDE: 1989-05-11

RT quantum operators  
 RT quarks  
 RT vacuum states

**quark confinement**

INIS: 1976-08-17; ETDE: 1976-11-01

USE bag model

**QUARK-GLUON INTERACTIONS**

INIS: 1983-02-04; ETDE: 1983-03-07

\*BT1 particle interactions  
 RT gluons  
 RT quantum chromodynamics  
 RT quark matter  
 RT quarks  
 RT strong interactions

**quark-gluon plasma**

INIS: 1984-01-18; ETDE: 1983-09-15

USE quark matter

**QUARK-HADRON INTERACTIONS**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 particle interactions  
 RT cim model  
 RT exchange interactions  
 RT quark model

**quark material**

INIS: 2000-04-12; ETDE: 1983-09-15

USE quark matter

**QUARK MATTER**

INIS: 1984-01-18; ETDE: 1983-09-15

*A plasma of non-interacting quarks and gluons formed from hadronic matter at high energy densities.*

UF plasma (quark)  
 UF quark-gluon plasma  
 UF quark material  
 UF quark plasma  
 UF quark sea  
 BT1 matter  
 RT gluons  
 RT nuclear matter  
 RT quark-gluon interactions  
 RT quark model  
 RT quarks  
 RT string theory

**QUARK MODEL**

SF parton model  
 \*BT1 composite models  
 NT1 bag model  
 NT1 color model  
 NT1 flavor model  
 NT1 string models  
 NT2 superstring models  
 RT beauty particles  
 RT charm particles  
 RT landau quasi particles  
 RT merons

RT quark-hadron interactions  
 RT quark matter  
 RT quarkonium  
 RT quarks

**quark plasma**

INIS: 1984-01-18; ETDE: 1983-09-15  
 USE quark matter

**QUARK-QUARK INTERACTIONS**

INIS: 1979-09-18; ETDE: 1979-02-23  
 \*BT1 particle interactions

**quark sea**

INIS: 2000-04-12; ETDE: 1983-09-15  
 USE quark matter

**QUARKONIUM**

INIS: 1995-09-08; ETDE: 1980-05-23  
 A bound state of a quark and an antiquark.

NT1 bottomonium  
 NT2 chi b0-10235 mesons  
 NT2 chi b0-9860 mesons  
 NT2 chi b1-10255 mesons  
 NT2 chi b1-9890 mesons  
 NT2 chi b2-10270 mesons  
 NT2 chi b2-9915 mesons  
 NT2 upsilon-10023 mesons  
 NT2 upsilon-10355 mesons  
 NT2 upsilon-10580 mesons  
 NT2 upsilon-10860 mesons  
 NT2 upsilon-11020 mesons  
 NT2 upsilon-9460 mesons  
 NT1 charmonium  
 NT2 chi0-3415 mesons  
 NT2 chi1-3510 mesons  
 NT2 chi2-3555 mesons  
 NT2 eta c-2980 mesons  
 NT2 eta c-3590 mesons  
 NT2 j psi-3097 mesons  
 NT2 psi-3685 mesons  
 NT2 psi-3770 mesons  
 NT2 psi-4040 mesons  
 NT2 psi-4160 mesons  
 NT2 psi-4415 mesons  
 NT1 strangeonium  
 NT2 f2 prime-1525 mesons  
 NT1 toponium  
 RT b c mesons  
 RT baryonium  
 RT bound state  
 RT d quarks  
 RT quark model  
 RT quarks  
 RT u quarks

**QUARKS**

1995-09-08  
 UF aces (quarks)  
 UF triplet particles  
 UF urbaryons  
 SF grace particles  
 SF partons  
 SF taste particles  
 BT1 fermions  
 NT1 antiquarks  
 NT2 b antiquarks  
 NT2 c antiquarks  
 NT2 d antiquarks  
 NT2 s antiquarks  
 NT2 t antiquarks  
 NT2 u antiquarks  
 NT1 b quarks  
 NT2 b antiquarks  
 NT1 c quarks  
 NT2 c antiquarks  
 NT1 d quarks  
 NT2 d antiquarks  
 NT1 s quarks  
 NT2 s antiquarks

NT1 t quarks  
 NT2 t antiquarks  
 NT1 u quarks  
 NT2 u antiquarks  
 RT centauro-type events  
 RT composite models  
 RT melosh transformation  
 RT preons  
 RT quark condensation  
 RT quark-gluon interactions  
 RT quark matter  
 RT quark model  
 RT quarkonium

**quarrying**

INIS: 1975-11-07; ETDE: 2002-02-27  
 USE surface mining

**QUARTET MODEL**

UF four-nucleon structure  
 \*BT1 nuclear models  
 RT cluster model  
 RT nuclear structure

**QUARTZ**

Crystalline silica, an important rock-forming mineral.

\*BT1 oxide minerals  
 RT aplites  
 RT cristobalite  
 RT granites  
 RT granodiorites  
 RT quartz monzonite  
 RT quartzites  
 RT shales  
 RT silicate minerals  
 RT silicon oxides

**QUARTZ MONZONITE**

INIS: 1984-11-30; ETDE: 1984-05-23  
 UF adamellite  
 \*BT1 granites  
 RT feldspars  
 RT quartz

**QUARTZITES**

Quartz rocks derived from sandstone.  
 \*BT1 metamorphic rocks  
 RT quartz  
 RT sandstones

**QUASARS**

BT1 cosmic radio sources  
 NT1 blue stellar objects  
 RT bl lacertae objects  
 RT radio galaxies  
 RT seyfert galaxies  
 RT stars

**quasi-elastic reactions**

INIS: 1984-04-04; ETDE: 2002-06-13  
 Reactions between heavy ions, dominant at low energies, in which small amounts of energy and a few particles are transferred.  
 USE transfer reactions

**QUASI-ELASTIC SCATTERING**

\*BT1 quasi-free reactions  
 BT1 scattering  
 RT elastic scattering

**QUASI-FISSION**

INIS: 1977-04-07; ETDE: 1977-06-03  
 UF fission-like reactions  
 \*BT1 heavy ion reactions  
 RT compound-nucleus reactions  
 RT deep inelastic heavy ion reactions  
 RT fission  
 RT heavy ion fusion reactions  
 RT nuclear fireball model  
 RT precompound-nucleus emission

**QUASI-FREE REACTIONS**

Nuclear reactions similar to quasi-free (or quasi-elastic) scattering, but distinct in that the incident particle undergoes a rearrangement reaction with the struck particle in the nucleus instead of just scattering from it.

\*BT1 direct reactions  
 NT1 quasi-elastic scattering

**QUASI PARTICLES**

UF dopplersons  
 NT1 anyons  
 NT2 abelian anyons  
 NT1 excitons  
 NT1 focusons  
 NT1 instantons  
 NT1 landau quasi particles  
 NT1 magnons  
 NT1 merons  
 NT1 phonons  
 NT1 plasmons  
 NT1 polarons  
 NT1 pomeranchuk particles  
 NT1 rotons  
 NT1 solitons  
 RT holes  
 RT many-body problem

**QUASIBOUND STATE**

INIS: 1988-11-16; ETDE: 1988-12-05  
 RT bound state  
 RT coupling  
 RT energy levels

**QUASILINEAR PROBLEMS**

UF quasilinear theory  
 RT boltzmann-vlasov equation  
 RT mathematics  
 RT nonlinear problems  
 RT perturbation theory

**quasilinear theory**

INIS: 1988-11-16; ETDE: 2002-04-26  
 USE quasilinear problems

**QUASIPARTICLE-PHONON MODEL**

INIS: 1981-02-27; ETDE: 1981-03-16  
 \*BT1 nuclear models  
 RT collective model  
 RT phonons  
 RT single-particle model

**QUASIPOTENTIAL EQUATION**

\*BT1 integral equations  
 RT lippmann-schwinger equation  
 RT quantum field theory  
 RT scattering amplitudes

**QUATERNARY ALLOY SYSTEMS**

SF quaternary compounds  
 BT1 alloy systems

**QUATERNARY AMMONIUM COMPOUNDS**

2009-08-13  
 Prior to September 2009 QUATERNARY COMPOUNDS was used for this concept.  
 UF teab  
 UF tetraethylammonium bromide  
 SF quaternary compounds  
 BT1 ammonium compounds  
 NT1 acetylcholine  
 NT1 betaine  
 NT1 choline  
 NT1 pyridinium compounds  
 RT ammonia



**quaternary compounds**

1996-10-23

*For quaternary ammonium compounds.*

(Prior to September 2009 this was a valid descriptor.)

SEE quaternary alloy systems

SEE quaternary ammonium compounds

**QUATERNARY FISSION***Fission with emission of two light charged particles.*

\*BT1 fission

**QUATERNARY PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

UF holocene epoch

\*BT1 cenozoic era

NT1 pleistocene epoch

**QUATERPHENYLS**

\*BT1 polycyclic aromatic hydrocarbons

**QUBITS**

2005-09-30

*Units of quantum information represented by the superposition of pairs of orthogonal base states in quantum systems.*

UF qbits

UF quantum bits

\*BT1 quantum information

RT quantum cryptography

**QUEBEC**

\*BT1 canada

RT ottawa river

RT st lawrence river

**QUEEN MARY COLLEGE UTR-B REACTOR***Queen Mary College, London, United Kingdom.*

UF university training reactor queen mary

UF utr-b queen mary college reactor

\*BT1 argonaut type reactors

\*BT1 training reactors

**QUEENSLAND**

\*BT1 australia

**QUENCH AGING**

BT1 aging

RT quenching

**QUENCH HARDENING**

1996-06-28

(Prior to July 1996 JOMINY END-QUENCH TECHNIQUE was a valid ETDE descriptor.)

SF jominy end-quench technique

BT1 hardening

BT1 heat treatments

RT quenching

RT splat cooling

**QUENCHING**

2000-05-18

RT heat treatments

RT quench aging

RT quench hardening

RT superconductivity

**quenching (avalanche)**

INIS: 1978-07-03; ETDE: 1976-05-17

USE avalanche quenching

**quenching (discharge)**

1996-04-16

USE discharge quenching

**quenching (fluorescence)**

INIS: 1984-04-04; ETDE: 2002-04-26

USE fluorescence

**quenching (scintillation)**

USE scintillation quenching

**QUERCETIN**

\*BT1 flavones

\*BT1 polyphenols

\*BT1 pyrans

RT glycosides

**quercus**

USE oaks

**QUEUES**

INIS: 2000-04-12; ETDE: 1975-10-01

RT mathematics

**quezon philippine reactor**

USE prr-1 reactor

**QUIESCENT PLASMA**

BT1 plasma

**QUINALDINE**

1996-07-18

UF 2-methylquinoline

\*BT1 quinolines

**quinalizarin**

USE quinizarin

**quinhydrone**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE benzoquinones

**QUININE**

\*BT1 alkaloids

\*BT1 antimicrobial agents

\*BT1 antipyretics

**QUINIZARIN**

UF 1,4-dihydroxyanthraquinone

UF quinalizarin

\*BT1 anthraquinones

BT1 dyes

\*BT1 hydroxy compounds

**QUINOLINES**

1996-07-18

UF kynurenic acid

\*BT1 azaarenes

\*BT1 pyridines

NT1 ferron

NT1 oxine

NT1 quinaldine

**quinone**

USE benzoquinones

**QUINONES**

\*BT1 aromatics

\*BT1 organic oxygen compounds

NT1 anthraquinones

NT2 alizarin

NT2 carminic acid

NT2 quinizarin

NT1 benzoquinones

NT2 chloranil

NT2 chloranilic acid

NT2 plastoquinone

NT2 ubiquinone

NT1 rhodizonic acid

NT1 vitamin k

RT ketones

**r (exposure unit)***For studies concerning units, concepts, or definitions. See also DOSE EQUIVALENTS.*

USE radiation dose units

**R-1 REACTOR***Stockholm, Sweden.*

UF stockholm r-1 reactor

UF swedish reactor r-1

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

**r-1650 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**R-2 REACTOR***Aktiebolaget Atomenergi, Nykoping, Studsvik, Sweden.*

UF studsvik r-2 reactor

UF swedish reactor r-2

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**r-2510 resonances**

INIS: 1987-12-21; ETDE: 2002-04-26

(Prior to December 1987 this was a valid descriptor.)

USE f6-2510 mesons

**r-3/adam reactor**

USE agesta reactor

**R-A REACTOR***VINCA Institute of Nuclear Sciences, Belgrade, Serbia and Montenegro.*

UF vinca r-a reactor yugoslavia

UF yugoslavia r-a reactor vinca

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

**R-B REACTOR***VINCA Institute of Nuclear Sciences, Belgrade, Serbia and Montenegro.*

UF vinca r-b reactor yugoslavia

UF yugoslavia r-b reactor vinca

\*BT1 heavy water moderated reactors

\*BT1 natural uranium reactors

\*BT1 training reactors

\*BT1 zero power reactors

**R CENTERS**

\*BT1 color centers

**R CODES**

BT1 computer codes

**r-f mass spectrometers**

USE dynamic mass spectrometers

**R FACTORS**

INIS: 2000-04-12; ETDE: 1977-06-21

*Measures of thermal resistance value of materials.*

RT thermal insulation

RT u values

**r-ii swierk reactor**

2000-04-12

USE swierk r-2 reactor

**R MATRIX**

BT1 matrices  
 RT group theory  
 RT multilevel analysis  
 RT nuclear reactions

**R PROCESS**

\*BT1 star evolution  
 RT capture  
 RT nucleosynthesis  
 RT stars

**R REACTOR**

*Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.*

UF savannah river plant r reactor  
 \*BT1 heavy water moderated reactors  
 \*BT1 special production reactors

**r-rna**

INIS: 1990-04-19; ETDE: 1985-11-19  
 USE ribosomal rna

**R2-0 REACTOR**

*Aktiebolaget Atomenergi, Nykoping, Studsvik, Sweden.*

UF studsvik r2-0 reactor  
 UF swedish reactor r2-0  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**RA-0 REACTOR**

*UN Cordoba/CNEA, Argentinian Atomic Energy Commission, Cordoba, Argentina.*

UF argentine reactor ra-0  
 UF reactor argentin-0  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 zero power reactors

**ra-1 enrico fermi**

2018-03-07  
 USE ra-1 reactor

**RA-1 REACTOR**

*CNEA, Buenos Aires, Argentina.*

UF argentine reactor ra-1  
 UF ra-1 enrico fermi  
 UF reactor argentin-1  
 \*BT1 argonaut type reactors  
 \*BT1 training reactors

**RA-10 REACTOR**

2018-03-07  
*Buenos Aires, Argentina. Currently under construction. RA-10 will be a replacement of RA-3.*

\*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**RA-2 REACTOR**

*CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina. Decomissioned.*

UF argentine reactor ra-2  
 UF reactor argentin-2  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 zero power reactors

**RA-3 REACTOR**

*CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina.*

UF argentine reactor ra-3  
 UF ezeiza argentine ra-3 reactor  
 UF reactor argentin-3  
 \*BT1 research reactors  
 \*BT1 tank type reactors

\*BT1 test reactors

**ra 333**

INIS: 2000-04-12; ETDE: 1979-08-09  
 USE alloy-ra-333

**RA-4 REACTOR**

2002-08-13

UF argentine reactor ra-4  
 UF ezeiza argentine ra-4 reactor  
 UF reactor argentin-4

\*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors

**RA-5 REACTOR**

INIS: 1976-02-11; ETDE: 1976-04-19

*CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina.*

UF argentine reactor ra-5  
 UF reactor argentin-5

\*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**RA-6 REACTOR**

2001-03-01

*CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina.*

UF argentine reactor ra-6  
 UF reactor argentin ra-6

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**RA-8 REACTOR**

2002-11-20

*CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina.*

UF argentine reactor ra-8  
 UF reactor argentin-8

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**rabbit brush**

INIS: 1994-08-22; ETDE: 1982-03-11

(Prior to April 1994, this was a valid ETDE descriptor.)

USE magnoliopsida  
 USE shrubs

**RABBIT TUBES**

1995-05-09

UF shuttles  
 BT1 reaction product transport systems  
 \*BT1 reactor experimental facilities

**RABBITS**

\*BT1 mammals

**RABIES**

INIS: 1982-04-14; ETDE: 1982-05-07

\*BT1 encephalitis  
 \*BT1 viral diseases  
 RT central nervous system  
 RT viruses

**RACAH COEFFICIENTS**

UF 6j-symbols  
 RT angular momentum  
 RT clebsch-gordan coefficients  
 RT group theory

RT quantum mechanics

RT wigner coefficients

**RACEMATES**

INIS: 2000-04-12; ETDE: 1976-02-19  
*50-50 mixtures of dextro and levo isomers; optically inactive.*

UF achiral  
 RT racemization  
 RT stereochemistry

**RACEMIZATION**

RT isomerases  
 RT racemates  
 RT stereochemistry

**RACETRACK MICROTRONS**

INIS: 1985-07-23; ETDE: 1985-08-09  
*Microtrons with two bending magnets and linear accelerators between them.*

\*BT1 microtrons

**rachitis**

USE rickets

**racial groups**

INIS: 2000-04-12; ETDE: 1979-10-23  
 USE minority groups

**racks (fuel)**

INIS: 1980-04-02; ETDE: 1978-10-25  
 USE fuel racks

**rad**

1997-06-05

See also RADIATION DOSES.

USE radiation dose units

**RADAPPERTIZATION**

ETDE: 1995-05-05

Use of irradiation to sterilize foodstuff.

UF food irradiation (radiosterilization)  
 UF radiosterilization (food)

\*BT1 food processing  
 \*BT1 radiosterilization

RT food  
 RT ifip

**RADAR**

(From March 1980 till March 1997 SYNTHETIC-APERTURE RADAR was a valid ETDE descriptor.)

UF radiation detection and range  
 UF synthetic-aperture radar

\*BT1 range finders

NT1 acoustic radar  
 NT1 optical radar  
 RT electrical equipment  
 RT electronic equipment  
 RT frequency range  
 RT radio equipment  
 RT radiowave radiation

**radial distribution**

INIS: 1989-04-20; ETDE: 2002-04-26  
 USE spatial distribution

**radial flow mhd generators**

INIS: 1993-02-19; ETDE: 1979-05-03  
 USE disk mhd generators

**RADIAL INFLOW TURBINES**

INIS: 2000-04-12; ETDE: 1984-08-20

\*BT1 turbines  
 RT radial-outflow reaction turbines

**RADIAL-OUTFLOW REACTION TURBINES**

INIS: 2000-04-12; ETDE: 1978-10-23

UF rort  
 \*BT1 turbines  
 RT radial inflow turbines

**radial profiles (plasma)**

INIS: 1989-09-14; ETDE: 2002-04-26

USE plasma radial profiles

**RADIAL VELOCITY**

BT1 velocity

**RADIANT CABLE HEATING**

INIS: 2000-04-12; ETDE: 1977-09-19

\*BT1 electric heating

RT radiant heaters

RT space heating

**RADIANT FLUX DENSITY**

2000-04-12

UF irradiance

UF radiant intensity

BT1 flux density

**RADIANT HEAT TRANSFER**

UF radiative transfer

\*BT1 heat transfer

RT emissivity

RT radiative cooling

RT thermal radiation

**RADIANT HEATERS**

INIS: 2000-04-12; ETDE: 1982-04-09

BT1 heaters

RT radiant cable heating

**radiant intensity**

2000-04-12

USE radiant flux density

**RADIATION ABSORPTION****ANALYSIS**

Analysis based on the determination of the absorption of X-ray, gamma-ray, or other ionizing radiation by the sample.

\*BT1 nondestructive analysis

**RADIATION ACCIDENTS**

1995-05-10

UF accidental irradiation

UF criticality accidents

UF goiania radiological emergency

SF nuclear accidents

BT1 accidents

RT canare

RT emergency plans

RT international nuclear event scale

RT radiation doses

**RADIATION ATTENUATION****TESTING**

1986-04-04

(Prior to April 1986 INDUSTRIAL

RADIOGRAPHY was used for this concept.)

\*BT1 nondestructive testing

RT industrial radiography

**RADIATION BELTS**

UF van allen belts

NT1 artificial radiation belts

RT charged-particle precipitation

RT earth magnetosphere

RT electron precipitation

RT proton precipitation

**radiation buildup**

USE buildup

**radiation burden**

USE radiation doses

**RADIATION BURNS**

\*BT1 burns

\*BT1 local radiation effects

\*BT1 radiation injuries

RT radiodermatitis

**RADIATION CHEMISTRY**

The chemistry of the effects of high-energy radiation on matter. Not to be used for RADIOCHEMISTRY.

BT1 chemistry

RT chemical radiation effects

RT g value

RT oxonium ions

RT photochemistry

RT radiochemistry

RT radiolysis

RT reaction intermediates

RT recombination

RT scavenging

RT valence

**RADIATION CHIMERAS**

\*BT1 chimeras

RT biological radiation effects

RT spleen colony formation

**RADIATION CURING**

INIS: 1982-10-29; ETDE: 1976-09-28

(Prior to November 1982 this concept was indexed by the coordination of CHEMICAL RADIATION EFFECTS and CROSS-LINKING.)

\*BT1 chemical radiation effects

BT1 curing

RT cross-linking

**radiation damage (biological)**

USE radiation injuries

**radiation damage (chemical)**

INIS: 1976-03-02; ETDE: 2002-04-26

USE radiolysis

**radiation damage (nonbiologic)**

2000-04-12

USE radiation effects

**radiation damage (physical)**

INIS: 1976-03-02; ETDE: 2002-04-26

USE physical radiation effects

**radiation decontamination**

2000-04-12

USE decontamination

**RADIATION DETECTION**

UF detection (radiation)

BT1 detection

NT1 charged particle detection

NT2 acoustic detection

NT2 alpha detection

NT2 beta detection

NT2 electron detection

NT2 ion detection

NT2 muon detection

NT2 positron detection

NT2 proton detection

NT1 cosmic ray detection

NT1 fission fragment detection

NT1 gamma detection

NT1 kaon detection

NT1 neutrino detection

NT1 neutron detection

NT1 pion detection

NT1 x-ray detection

RT coincidence spectrometry

RT counting circuits

RT dosimeters

RT dosimetry

RT particle discrimination

RT pulse techniques

RT radiation detectors

RT radiation monitoring

RT radiations

RT spectrometers

RT spectroscopy

**radiation detection and range**

USE radar

**RADIATION DETECTORS**

UF counters (radiation)

UF detectors (radiation)

BT1 measuring instruments

NT1 alice detector

NT1 atlas detector

NT1 cbm detector

NT1 chemical radiation detectors

NT1 cherenkov counters

NT1 cms detector

NT1 compass detector

NT1 compton diode detectors

NT1 corona counters

NT1 crystal counters

NT2 filament crystal counters

NT1 dielectric track detectors

NT1 directional radiation detectors

NT1 electron multiplier detectors

NT1 emanometers

NT1 fermilab collider detector

NT1 flow counters

NT1 four-pi detectors

NT1 gas track detectors

NT2 bubble chambers

NT3 cryogenic bubble chambers

NT3 heavy liquid bubble chambers

NT3 ultrasonic bubble chambers

NT2 cloud chambers

NT3 diffusion chambers

NT3 expansion chambers

NT2 spark chambers

NT3 filmless spark chambers

NT4 sonic spark chambers

NT4 wire spark chambers

NT3 projection spark chambers

NT3 streamer spark chambers

NT3 wide gap spark chambers

NT1 geiger-mueller counters

NT1 gravitational wave detectors

NT1 hades detector

NT1 ionization chambers

NT2 boron coated ion chambers

NT2 bragg gray chambers

NT2 condenser ionization chambers

NT2 extrapolation chambers

NT2 fission chambers

NT2 liquid ionization chambers

NT2 multiwire ionization chambers

NT1 lhcb detector

NT1 low level counters

NT1 neutrino detectors

NT2 baikal neutrino telescope

NT2 borexino detector

NT2 icecube neutrino detector

NT2 super-kamiokande neutrino detector

NT1 neutron detectors

NT2 activation detectors

NT2 bf3 counters

NT2 boron coated ion chambers

NT2 boron lined counters

NT2 fission chambers

NT2 fission foil detectors

NT2 fission thermocouple detectors

NT2 he-3 counters

NT2 moderating detectors

NT3 bonner sphere detectors

NT3 long counters

NT2 proton recoil detectors

NT2 self-powered neutron detectors

NT2 threshold detectors

NT1 panda detector

NT1 phenix detector

NT1 phobos detector

NT1 photographic film detectors

NT1 position sensitive detectors

NT1 proportional counters

**NT2** bf3 counters  
**NT2** boron lined counters  
**NT2** he-3 counters  
**NT2** liquid proportional counters  
**NT2** multiwire proportional chambers  
**NT3** drift chambers  
**NT4** time projection chambers  
**NT2** needle chambers  
**NT1** pyroelectric detectors  
**NT1** radiometers  
**NT1** scintillation counters  
**NT2** gas scintillation detectors  
**NT2** liquid scintillation detectors  
**NT2** scintillator-photodiode detectors  
**NT2** solid scintillation detectors  
**NT3** bgo detectors  
**NT3** nai detectors  
**NT3** plastic scintillation detectors  
**NT1** secondary emission detectors  
**NT1** self-powered detectors  
**NT2** self-powered gamma detectors  
**NT2** self-powered neutron detectors  
**NT1** semiconductor detectors  
**NT2** bulk semiconductor detectors  
**NT2** cdte semiconductor detectors  
**NT2** cdzntc semiconductor detectors  
**NT2** ge semiconductor detectors  
**NT3** high-purity ge detectors  
**NT3** li-drifted ge detectors  
**NT2** hgi2 semiconductor detectors  
**NT2** insb semiconductor detectors  
**NT2** junction detectors  
**NT3** li-drifted junction detectors  
**NT2** li-drifted detectors  
**NT3** li-drifted ge detectors  
**NT3** li-drifted junction detectors  
**NT3** li-drifted si detectors  
**NT2** si semiconductor detectors  
**NT3** li-drifted si detectors  
**NT3** si microstrip detectors  
**NT2** surface barrier detectors  
**NT1** shower counters  
**NT1** spark counters  
**NT1** stanford linear collider detector  
**NT1** star detector  
**NT1** superconducting colloid detectors  
**NT1** tissue-equivalent detectors  
**NT1** transition radiation detectors  
**NT1** wall-less counters  
**NT1** whole-body counters  
**RT** charged particle detection  
**RT** cosmic ray detection  
**RT** counting circuits  
**RT** counting techniques  
**RT** dosimeters  
**RT** fission fragment detection  
**RT** gamma detection  
**RT** neutron detection  
**RT** polarimeters  
**RT** pulse techniques  
**RT** radiation detection  
**RT** radiation hardness  
**RT** radiation monitors  
**RT** radioisotope scanners  
**RT** scalars  
**RT** spectrometers  
**RT** streak cameras  
**RT** telescope counters  
**RT** well logging equipment

## RADIATION DOSE DISTRIBUTIONS

**UF** dose distributions  
**NT1** spatial dose distributions  
**NT2** depth dose distributions  
**NT1** temporal dose distributions  
**RT** dose-response relationships  
**RT** irradiation  
**RT** isodose curves  
**RT** radiation doses

## RADIATION DOSE RANGES

2012-05-30

**NT1** absorbed dose range  
**NT2** giga gy range  
**NT2** gy range  
**NT3** gy range 01-10  
**NT3** gy range 10-100  
**NT3** gy range 100-1000  
**NT2** kilo gy range  
**NT2** mega gy range  
**NT2** micro gy range  
**NT3** micro gy range 01-10  
**NT3** micro gy range 10-100  
**NT3** micro gy range 100-1000  
**NT2** milli gy range  
**NT3** milli gy range 01-10  
**NT3** milli gy range 10-100  
**NT3** milli gy range 100-1000  
**NT2** nano gy range  
**NT1** equivalent dose range  
**NT2** micro sv range  
**NT2** milli sv range  
**NT3** milli sv range 01-10  
**NT3** milli sv range 10-100  
**NT3** milli sv range 100-1000  
**NT2** sv range  
**RT** radiation dose rate ranges  
**RT** radiation dose units  
**RT** radiation doses

## RADIATION DOSE RATE RANGES

2013-01-23

**NT1** micro sv per hour range  
**NT2** micro sv per hour range 01-10  
**NT2** micro sv per hour range 10-100  
**NT2** micro sv per hour range 100-1000  
**NT1** milli sv per hour range  
**NT2** milli sv per hour range 01-10  
**NT2** milli sv per hour range 10-100  
**NT2** milli sv per hour range 100-1000  
**NT1** milli sv per year range  
**NT2** milli sv per year range 01-10  
**NT2** milli sv per year range 10-100  
**NT2** milli sv per year range 100-1000  
**NT1** nano sv per hour range  
**NT1** sv per hour range  
**NT1** sv per year range  
**RT** dose rates  
**RT** equivalent dose range  
**RT** low dose irradiation  
**RT** pulsed irradiation  
**RT** radiation dose ranges  
**RT** temporal dose distributions  
**RT** time dependence

## RADIATION DOSE UNITS

1997-06-05

For studies concerning units, concepts or definitions.

**UF** becquerel  
**UF** gray  
**UF** r (exposure unit)  
**UF** rad  
**UF** rem  
**UF** roentgen (exposure unit)  
**UF** roentgen equivalent man  
**UF** sievert  
**UF** sievert unit  
**BT1** units  
**RT** dosimetry  
**RT** icru  
**RT** radiation dose ranges  
**RT** radiation doses  
**RT** radioactivity range

## radiation dosimeters

USE dosimeters

## RADIATION DOSES

UF doses (radiation)

**UF** exposure (radiation doses)  
**UF** radiation burden  
**UF** radiation exposure (doses)  
**BT1** doses  
**NT1** absorbed radiation doses  
**NT1** effective radiation doses  
**NT1** equivalent radiation doses  
**NT1** genetically significant dose  
**NT1** integral doses  
**NT1** lethal radiation dose  
**NT1** somatically significant dose  
**NT1** threshold dose  
**RT** alara  
**RT** biological indicators  
**RT** biophysics  
**RT** buildup  
**RT** critical organs  
**RT** dose commitments  
**RT** dose equivalents  
**RT** dose limits  
**RT** dose rates  
**RT** dose-response relationships  
**RT** dosimeters  
**RT** dosimetry  
**RT** energy absorption  
**RT** icrp critical group  
**RT** irradiation  
**RT** kerma  
**RT** maximum permissible dose  
**RT** maximum permissible exposure  
**RT** medical surveillance  
**RT** occupational exposure  
**RT** personnel monitoring  
**RT** radiation accidents  
**RT** radiation dose distributions  
**RT** radiation dose ranges  
**RT** radiation dose units  
**RT** radiation effects  
**RT** radiations  
**RT** remedial action  
**RT** source terms

## radiation dosimetry

USE dosimetry

## RADIATION EFFECTS

1996-01-24

**UF** radiation damage (nonbiologic)  
**NT1** biological radiation effects  
**NT2** abscopal radiation effects  
**NT2** bystander effects  
**NT2** delayed radiation effects  
**NT2** early radiation effects  
**NT2** genetic radiation effects  
**NT2** local radiation effects  
**NT3** osteoradionecrosis  
**NT3** radiation burns  
**NT3** radiodermatitis  
**NT2** radiation injuries  
**NT3** osteoradionecrosis  
**NT3** radiation burns  
**NT3** radiodermatitis  
**NT1** chemical radiation effects  
**NT2** lyoluminescence  
**NT2** radiation curing  
**NT2** radiolysis  
**NT3** autoradiolysis  
**NT1** cumulative radiation effects  
**NT1** physical radiation effects  
**NT2** atomic displacements  
**NT2** interstitial helium generation  
**NT2** interstitial hydrogen generation  
**NT2** radiation hardening  
**RT** biological localization  
**RT** biophysics  
**RT** blisters  
**RT** comparative evaluations  
**RT** crystal defects  
**RT** damage  
**RT** dose rates

RT dose-response relationships  
 RT energy losses  
 RT irradiation  
 RT photoacoustic effect  
 RT radiation doses  
 RT radiation hardness  
 RT radiation quality  
 RT radiations  
 RT radiobiology  
 RT radiosensitivity  
 RT rbe  
 RT recoils  
 RT response modifying factors  
 RT self-irradiation  
 RT strand breaks  
 RT thermal spikes  
 RT wigner effect

**RADIATION EQUIVALENCE**

INIS: 2000-04-12; ETDE: 1981-01-27

*The biological effect of a mutagen or carcinogen expressed in terms of the dose of ionizing radiation needed to produce a similar effect.*

RT carcinogens  
 RT genetic effects  
 RT mutagens

**radiation exposure (doses)**

USE radiation doses

**RADIATION FLUX**

UF flux (radiation)  
 NT1 cosmic ray flux  
 NT1 neutron flux  
 NT2 adjoint flux  
 NT1 solar flux  
 NT2 diffuse solar radiation  
 NT2 direct solar radiation  
 RT flux density  
 RT point kernels  
 RT poynting theorem

**RADIATION HARDENING**

BT1 hardening  
 \*BT1 physical radiation effects  
 RT radiation hardness

**radiation hardening (chemical)**

USE chemical radiation effects  
 USE polymerization

**RADIATION HARDNESS**

2014-06-25

RT damaging neutron fluence  
 RT electronic equipment  
 RT irradiation  
 RT radiation detectors  
 RT radiation effects  
 RT radiation hardening

**RADIATION HAZARDS**

\*BT1 health hazards  
 RT alara  
 RT fallout  
 RT fission product release  
 RT fuel element failure  
 RT genetically significant dose  
 RT hot labs  
 RT icrp critical group  
 RT irradiation  
 RT radiation protection  
 RT radiation protection laws  
 RT radioactive wastes  
 RT release limits  
 RT somatically significant dose  
 RT unsecar

**RADIATION HEATING**

*Component or materials heating by incident nuclear radiation.*

UF gamma heating  
 UF neutron heating  
 BT1 heating

**radiation hygiene**

USE radiation protection

**RADIATION INDUCED MUTANTS**

INIS: 1978-02-23; ETDE: 1986-01-03

BT1 mutants  
 RT animal breeding  
 RT plant breeding

**RADIATION INJURIES**

1998-02-16

*For damage to molecules of biological significance use CHEMICAL RADIATION EFFECTS or STRAND BREAKS.*

UF damage (radiation, biological)  
 UF delayed radiation injuries  
 UF early radiation injuries  
 UF radiation damage (biological)  
 \*BT1 biological radiation effects  
 \*BT1 injuries  
 NT1 osteoradionecrosis  
 NT1 radiation burns  
 NT1 radiodermatitis  
 RT biological indicators  
 RT biological repair  
 RT dna damages  
 RT host-cell reactivation  
 RT photoreactivation  
 RT radiation syndrome  
 RT radiobiology  
 RT radioinduction  
 RT strand breaks

**RADIATION LENGTH**

1999-07-20

\*BT1 length  
 RT bremsstrahlung  
 RT charged particle detection  
 RT energy losses  
 RT half-thickness  
 RT thickness

**radiation logging**

INIS: 2000-04-12; ETDE: 1976-06-07

USE radioactivity logging

**RADIATION METROLOGY**

2017-03-23

BT1 metrology  
 RT calibration  
 RT dosimetry

**RADIATION MONITORING**

UF control (radioactivity)  
 UF monitoring (radiation)  
 UF surveillance (radioactivity)  
 UF survey (radioactivity)  
 BT1 monitoring  
 NT1 personnel monitoring  
 RT aerial monitoring  
 RT aerosol monitoring  
 RT alarm systems  
 RT controlled areas  
 RT dosimeters  
 RT dosimetry  
 RT exposure ratemeters  
 RT inspection  
 RT radiation detection  
 RT radiation protection  
 RT radioactivity  
 RT radioassay  
 RT site characterization  
 RT skyshine

**RADIATION MONITORS**

UF alarm dosimeters  
 UF monitors (radiation)  
 \*BT1 monitors  
 NT1 exposure ratemeters  
 NT1 liquid contamination monitors  
 NT1 neutron monitors  
 NT1 surface contamination monitors  
 NT1 survey monitors  
 RT air samplers  
 RT alarm systems  
 RT dosimeters  
 RT radiation detectors  
 RT radioactivity

**RADIATION PRESSURE**

UF pressure (radiation)  
 RT electromagnetic radiation  
 RT solar wind

**RADIATION PROTECTION**

1995-05-10

UF health physics  
 UF nuclear safety  
 UF protection (radiation)  
 UF radiation hygiene  
 UF radiation safety  
 UF radiological protection  
 UF safety (nuclear)  
 SF alap  
 RT accidents  
 RT alara  
 RT annual limit of intake  
 RT biological shielding  
 RT biophysics  
 RT civil defense  
 RT containment  
 RT controlled areas  
 RT decontamination  
 RT distance  
 RT dosimetry  
 RT environment  
 RT ethical aspects  
 RT external irradiation  
 RT fallout  
 RT fallout shelters  
 RT federal radiation council  
 RT gloveboxes  
 RT gloves  
 RT half-thickness  
 RT health hazards  
 RT hot cells  
 RT hot labs  
 RT icrp  
 RT image intensifiers  
 RT industrial medicine  
 RT inspection  
 RT international convention on nuclear safety  
 RT international nuclear event scale  
 RT legal aspects  
 RT licensing  
 RT preventive medicine  
 RT protective clothing  
 RT public health  
 RT radiation hazards  
 RT radiation monitoring  
 RT radiation protection laws  
 RT radiation quality  
 RT radiation sources  
 RT radioprotective substances  
 RT reactor safety  
 RT recommendations  
 RT reference man  
 RT regulations  
 RT reliability  
 RT remedial action  
 RT remote handling  
 RT respirators

RT safety  
 RT safety showers  
 RT safety standards  
 RT shelters  
 RT shielding  
 RT shielding materials  
 RT shields  
 RT space flight  
 RT strahlenschutzkommission  
 RT television  
 RT usur  
 RT whole-body counting  
 RT working conditions

### **radiation protection guides**

USE recommendations

### **RADIATION PROTECTION LAWS**

INIS: 1990-12-15; ETDE: 1976-11-01

(Prior to December 1990, this descriptor was spelled RADIATION PROTECTION LAW.)

BT1 laws  
 RT federal radiation council  
 RT radiation hazards  
 RT radiation protection  
 RT safety standards

### **RADIATION QUALITY**

For comparative studies on different types of radiation.

RT energy losses  
 RT half-thickness  
 RT ionization  
 RT let  
 RT quality factor  
 RT radiation effects  
 RT radiation protection  
 RT radiations  
 RT rbe

### **radiation safety**

USE radiation protection

### **RADIATION SCATTERING**

#### **ANALYSIS**

\*BT1 nondestructive analysis  
 RT ion scattering analysis  
 RT radiometric analysis  
 RT scattering

### **RADIATION SOURCE IMPLANTS**

UF implanted sources  
 BT1 implants  
 BT1 radiation sources  
 RT afterloading  
 RT brachytherapy  
 RT internal irradiation  
 RT irradiation capsules  
 RT radioembolization  
 RT radiotherapy

### **RADIATION SOURCES**

For cosmic sources of radiation see also COSMIC GAMMA SOURCES, COSMIC RADIO SOURCES, and COSMIC X-RAY SOURCES.

UF applicators (radiotherapy)  
 UF radioapplicators  
 NT1 gamma sources  
 NT1 light sources  
 NT1 particle sources  
 NT2 alpha sources  
 NT2 antiproton sources  
 NT2 beta sources  
 NT2 deuteron sources  
 NT2 electron sources  
 NT3 pierce electron guns  
 NT2 neutron sources  
 NT3 neutron generators  
 NT2 positron sources  
 NT2 proton sources

NT1 point sources  
 NT1 portable sources  
 NT1 radiation source implants  
 NT1 sealed sources  
 NT1 synchrotron radiation sources  
 NT2 advanced light source  
 NT2 advanced photon source  
 NT2 european synchrotron radiation facility  
 NT2 indus-1  
 NT2 indus-2  
 NT2 kek photon factory  
 NT2 lnls storage ring  
 NT2 nsls  
 NT2 pohang light source  
 NT2 spring-8 storage ring  
 NT2 surf ii storage ring  
 NT2 swiss light source  
 NT1 unsealed sources  
 NT1 x-ray sources  
 RT containers  
 RT irradiation  
 RT irradiation devices  
 RT irradiation plants  
 RT lasers  
 RT masers  
 RT radiation protection  
 RT radiations  
 RT radioactivity  
 RT radioisotopes  
 RT well logging equipment

### **RADIATION STREAMING**

UF streaming (radiation)  
 RT radiations

### **RADIATION SYNDROME**

RT acute irradiation  
 RT autonomic nervous system  
 RT bone marrow  
 RT central nervous system  
 RT chronic irradiation  
 RT delayed radiation effects  
 RT gastrointestinal tract  
 RT latency period  
 RT lymphatic system  
 RT lymphocytes  
 RT muscles  
 RT radiation injuries

### **RADIATION TRANSPORT**

UF transport (radiation)  
 NT1 charged-particle transport  
 NT2 proton transport  
 NT1 neutral-particle transport  
 NT2 atom transport  
 NT2 neutron transport  
 NT2 photon transport  
 RT transport theory

### **RADIATIONLESS DECAY**

Emissionless transfer of excited-state energy from one quantum system to another, e.g. between atoms in gas mixtures.

UF radiationless transitions  
 \*BT1 de-excitation  
 BT1 energy transfer  
 RT fluorescence

### **radiationless transitions**

INIS: 1984-04-04; ETDE: 2002-04-26  
 USE radiationless decay

### **RADIATIONS**

NT1 background radiation  
 NT1 delta rays  
 NT1 electromagnetic radiation  
 NT2 auroral hiss  
 NT2 blackbody radiation  
 NT2 bremsstrahlung  
 NT3 cyclotron radiation

NT3 internal bremsstrahlung  
 NT3 undulator radiation  
 NT3 synchrotron radiation  
 NT2 cherenkov radiation  
 NT2 coherent radiation  
 NT2 electromagnetic pulses  
 NT3 internal electromagnetic pulses  
 NT2 gamma radiation  
 NT3 delayed gamma radiation  
 NT3 prompt gamma radiation  
 NT2 helicon waves  
 NT2 infrared radiation  
 NT3 far infrared radiation  
 NT3 intermediate infrared radiation  
 NT3 near infrared radiation  
 NT2 laser radiation  
 NT2 microwave radiation  
 NT3 relict radiation  
 NT2 monochromatic radiation  
 NT2 multipole radiation  
 NT2 radiowave radiation  
 NT3 long wave radiation  
 NT3 medium wave radiation  
 NT3 radio noise  
 NT4 atmospherics  
 NT4 whistlers  
 NT3 radioecho  
 NT3 short wave radiation  
 NT3 solar radio bursts  
 NT3 solar radiowave radiation  
 NT2 thermal radiation  
 NT2 transition radiation  
 NT2 ultralow frequency radiation  
 NT2 ultraviolet radiation  
 NT3 extreme ultraviolet radiation  
 NT3 far ultraviolet radiation  
 NT3 near ultraviolet radiation  
 NT2 visible radiation  
 NT2 x radiation  
 NT3 hard x radiation  
 NT3 soft x radiation  
 NT2 zodiacal light  
 NT1 gravitational radiation  
 NT2 gravitons  
 NT1 ionizing radiations  
 NT2 alpha particles  
 NT3 cosmic alpha particles  
 NT3 delayed alpha particles  
 NT3 solar alpha particles  
 NT2 beta particles  
 NT2 cosmic radiation  
 NT3 cosmic neutrinos  
 NT3 cosmic photons  
 NT3 cosmic protons  
 NT3 hard component  
 NT3 primary cosmic radiation  
 NT4 cosmic alpha particles  
 NT4 cosmic gamma bursts  
 NT4 cosmic nuclei  
 NT4 cosmic x-ray bursts  
 NT3 secondary cosmic radiation  
 NT4 cosmic electrons  
 NT4 cosmic kaons  
 NT4 cosmic muons  
 NT4 cosmic neutrons  
 NT4 cosmic pions  
 NT4 cosmic positrons  
 NT4 cosmic showers  
 NT5 extensive air showers  
 NT3 soft component  
 NT2 gamma radiation  
 NT3 delayed gamma radiation  
 NT3 prompt gamma radiation  
 NT2 skyshine  
 NT2 x radiation  
 NT3 hard x radiation  
 NT3 soft x radiation  
 NT1 stellar radiation  
 NT2 solar radiation

**NT3** diffuse solar radiation  
**NT3** direct solar radiation  
**NT3** solar particles  
   **NT4** solar alpha particles  
   **NT4** solar electrons  
   **NT4** solar neutrinos  
   **NT4** solar neutrons  
   **NT4** solar protons  
**NT3** solar radiowave radiation  
**NT1** stray radiation  
**RT** absorption  
**RT** biophysics  
**RT** buildup  
**RT** dosimetry  
**RT** irradiation  
**RT** radiation detection  
**RT** radiation doses  
**RT** radiation effects  
**RT** radiation quality  
**RT** radiation sources  
**RT** radiation streaming

### radiative capture

USE capture

### RADIATIVE COOLING

INIS: 1977-02-08; ETDE: 1975-10-01

**BT1** cooling  
**RT** air conditioning  
**RT** radiant heat transfer  
**RT** solar air conditioning

### RADIATIVE CORRECTIONS

**BT1** corrections  
**RT** electromagnetic interactions  
**RT** phi4-field theory  
**RT** quantum field theory

### RADIATIVE DECAY

INIS: 1980-09-12; ETDE: 1978-05-01

Weak or electromagnetic decay involving photons.

\***BT1** particle decay  
**RT** electromagnetic particle decay  
**RT** weak particle decay

### RADIATIVE FORCING

2013-12-13

Difference of radiant energy received by the earth and energy radiated back to space.

**UF** net radiation  
**RT** albedo  
**RT** energy balance  
**RT** insolation  
**RT** solar flux  
**RT** tropopause

### radiative transfer

INIS: 1984-04-04; ETDE: 2002-04-26

Energy transfer by radiation.

USE radiant heat transfer

### RADIATOR COUNTERS

**RT** activation detectors  
**RT** nuclear emulsions  
**RT** proton recoil detectors  
**RT** semiconductor detectors

### RADIATORS

Limited to heat radiators.

**BT1** heat exchangers

### RADICALS

1996-07-08

Not to be used for chemical compounds.

**UF** free radicals  
**NT1** acyl radicals  
   **NT2** acetyl radicals  
   **NT2** formyl radicals  
**NT1** alkoxy radicals  
   **NT2** butoxy radicals  
   **NT2** ethoxy radicals

**NT2** methoxy radicals  
**NT1** alkyl radicals  
   **NT2** allyl radicals  
   **NT2** butyl radicals  
   **NT2** dodecyl radicals  
   **NT2** ethyl radicals  
   **NT2** heptyl radicals  
   **NT2** hexyl radicals  
   **NT2** isobutyl radicals  
   **NT2** isopropyl radicals  
   **NT2** methyl radicals  
   **NT2** octyl radicals  
   **NT2** pentyl radicals  
   **NT2** propargyl radicals  
   **NT2** propyl radicals  
   **NT2** vinyl radicals  
**NT1** aryl radicals  
   **NT2** benzyl radicals  
   **NT2** mesityl radicals  
   **NT2** naphthyl radicals  
   **NT2** phenethyl radicals  
   **NT2** phenyl radicals  
   **NT2** tolyl radicals  
**NT1** benzoyl radicals  
**NT1** carbenes  
**NT1** carbonyl radicals  
**NT1** carbynes  
**NT1** dpph  
**NT1** hydronium radicals  
**NT1** hydroperoxy radicals  
**NT1** hydroxyl radicals  
**NT1** methylene radicals  
**NT1** nitroxyl radicals  
**NT1** peroxy radicals  
**NT1** phenoxy radicals  
**NT1** phenylene radicals  
**NT1** picryl radicals  
**NT1** pyridyl radicals  
**NT1** sulfhydryl radicals  
**NT1** superoxide radicals  
**NT1** thiyl radicals  
**NT1** vinylidene radicals  
**RT** reaction intermediates  
**RT** scavenging

### RADICIDATION

Use of irradiation to destroy microorganisms in food which are detrimental to health.

**UF** food irradiation (radiopasteurization)  
**UF** radiopasteurization  
**BT1** irradiation  
 \***BT1** pasteurization  
**RT** food  
**RT** health hazards  
**RT** ifip

### RADIO EQUIPMENT

INIS: 1981-03-10; ETDE: 1976-12-16

**UF** radio receivers  
**UF** radio transmitters  
 \***BT1** electronic equipment  
**NT1** heterodyne receivers  
**NT1** ionosondes  
**NT1** radio telescopes  
**RT** antennas  
**RT** communications  
**RT** microwave equipment  
**RT** radar  
**RT** radio equipment power supplies  
**RT** radiowave radiation  
**RT** rf systems  
**RT** television

### RADIO EQUIPMENT POWER SUPPLIES

2000-04-12

\***BT1** power supplies  
**RT** radio equipment

### radio frequency quadrupoles

INIS: 1991-10-09; ETDE: 2002-04-26

USE quadrupole linacs

### RADIO GALAXIES

**BT1** cosmic radio sources  
**BT1** galaxies  
**RT** quasars

### RADIO NOISE

**UF** cosmic noise  
**BT1** noise  
 \***BT1** radiowave radiation  
**NT1** atmospheric  
**NT1** whistlers  
**RT** background noise  
**RT** interference

### radio receivers

INIS: 1981-03-10; ETDE: 1976-12-29

USE radio equipment

### radio-receptor assay

INIS: 1984-04-04; ETDE: 2002-04-26

USE radioreceptor assay

### RADIO-RELEASE ANALYSIS

Substance to be measured reacts chemically with a converter substance to release a radioactive material.

**UF** radiorelease analysis  
 \***BT1** quantitative chemical analysis  
**RT** gas analysis  
**RT** tracer techniques

### RADIO TELESCOPES

\***BT1** antennas  
 \***BT1** radio equipment  
**BT1** telescopes  
**RT** interferometers

### radio transmitters

INIS: 1981-03-10; ETDE: 1976-12-29

USE radio equipment

### RADIOACTIVATION

For activation cross sections see also INTEGRAL CROSS SECTIONS.

**UF** activation (radio)  
**RT** activation analysis  
**RT** labelling  
**RT** neutron capture therapy  
**RT** neutron sources

### RADIOACTIVE AEROSOLS

**UF** radioactive particulates  
 \***BT1** aerosols  
**RT** aerosol monitoring  
**RT** fallout  
**RT** particle resuspension  
**RT** radioactive clouds

### radioactive biological wastes

USE biological wastes  
 USE radioactive wastes

### RADIOACTIVE CLOUDS

**UF** atomic clouds  
**BT1** clouds  
**RT** accidents  
**RT** aerial monitoring  
**RT** aerosols  
**RT** air  
**RT** earth atmosphere  
**RT** external irradiation  
**RT** fallout  
**RT** nuclear explosions  
**RT** radioactive aerosols  
**RT** radioactivity  
**RT** stacks  
**RT** washout  
**RT** wind

**radioactive decontamination**

INIS: 1975-11-27; ETDE: 2002-04-26

USE decontamination

**RADIOACTIVE EFFLUENTS**

UF effluents (radioactive)

\*BT1 radioactive wastes

RT chemical effluents

RT gaseous wastes

RT liquid wastes

RT particle resuspension

RT radioactive waste disposal

RT stack disposal

**radioactive gaseous wastes**

USE gaseous wastes

USE radioactive wastes

**RADIOACTIVE ION BEAMS**

INIS: 1992-02-26; ETDE: 1992-04-15

\*BT1 ion beams

NT1 aluminium 26 beams

NT1 argon 38 beams

NT1 argon 39 beams

NT1 argon 40 beams

NT1 beryllium 10 beams

NT1 beryllium 11 beams

NT1 beryllium 7 beams

NT1 boron 12 beams

NT1 boron 8 beams

NT1 carbon 10 beams

NT1 carbon 11 beams

NT1 carbon 14 beams

NT1 chlorine 39 beams

NT1 helium 6 beams

NT1 helium 8 beams

NT1 lithium 11 beams

NT1 lithium 8 beams

NT1 neon 19 beams

NT1 nitrogen 13 beams

NT1 sulfur 38 beams

NT1 triton beams

NT1 uranium 238 beams

**RADIOACTIVE IONIZATION GAGES**

\*BT1 ionization gages

**RADIOACTIVE MATERIALS**

BT1 materials

NT1 fission products

NT1 radioactive minerals

NT2 baddeleyite

NT2 corvusite

NT2 fersmite

NT2 kainosite

NT2 melanovanadite

NT2 pascoite

NT2 rutile

NT2 thorium minerals

NT3 allanite

NT3 bastnaesite

NT3 brannerite

NT3 ekanite

NT3 freyalite

NT3 hydrothorite

NT3 lodochnikite

NT3 lyndochite

NT3 mackintoshite

NT3 maitlandite

NT3 monazites

NT3 naegite

NT3 thorianite

NT3 thorite

NT4 jiningite

NT3 thucholite

NT3 uranothorite

NT2 uranium minerals

NT3 autunite

NT3 bassetite

NT3 becquerelite

NT3 billietite

NT3 brannerite

NT3 carnotite

NT3 clarkeite

NT3 coffinite

NT3 compregnacite

NT3 dewindtite

NT3 diderichite

NT3 djalmaite

NT3 ekanite

NT3 ellsworthite

NT3 ferghanite

NT3 fourmarierite

NT3 gastunite

NT3 guillemite

NT3 hallimondite

NT3 heinrichite

NT3 ianthinite

NT3 kahlerite

NT3 kirchheimerite

NT3 lodochnikite

NT3 mackintoshite

NT3 moctezumite

NT3 montroseite

NT3 naegite

NT3 natroautunite

NT3 ningyoite

NT3 novacekite

NT3 para-schoepite

NT3 ranquillite

NT3 rauvite

NT3 sabugalite

NT3 salecite

NT3 schoepite

NT3 sengierite

NT3 sklodowskite

NT3 soddyite

NT3 thorianite

NT3 thucholite

NT3 torbernite

NT3 tyuyamunite

NT3 uraninites

NT4 broeggerite

NT4 pitchblende

NT3 uranium black

NT3 uranophane

NT3 uranothorite

NT3 vesuvianite

NT1 radioactive wastes

NT2 alpha-bearing wastes

NT2 calcined wastes

NT2 high-level radioactive wastes

NT2 intermediate-level radioactive wastes

NT2 low-level radioactive wastes

NT2 radioactive effluents

NT2 waste forms

NT1 radiopharmaceuticals

RT radioactivity

RT radioisotopes

**RADIOACTIVE MINERALS**

1996-07-18

UF cordylite

UF florencite

BT1 minerals

\*BT1 radioactive materials

NT1 baddeleyite

NT1 corvusite

NT1 fersmite

NT1 kainosite

NT1 melanovanadite

NT1 pascoite

NT1 rutile

NT1 thorium minerals

NT2 allanite

NT2 bastnaesite

NT2 brannerite

NT2 ekanite

NT2 freyalite

NT2 hydrothorite

NT2 lodochnikite

NT2 lyndochite

NT2 mackintoshite

NT2 maitlandite

NT2 monazites

NT2 naegite

NT2 thorianite

NT2 thorite

NT3 jiningite

NT2 thucholite

NT2 uranothorite

NT1 uranium minerals

NT2 autunite

NT2 bassetite

NT2 becquerelite

NT2 billietite

NT2 brannerite

NT2 carnotite

NT2 clarkeite

NT2 coffinite

NT2 compregnacite

NT2 dewindtite

NT2 diderichite

NT2 djalmaite

NT2 ekanite

NT2 ellsworthite

NT2 ferghanite

NT2 fourmarierite

NT2 gastunite

NT2 guillemite

NT2 hallimondite

NT2 heinrichite

NT2 ianthinite

NT2 kahlerite

NT2 kirchheimerite

NT2 lodochnikite

NT2 mackintoshite

NT2 moctezumite

NT2 montroseite

NT2 naegite

NT2 natroautunite

NT2 ningyoite

NT2 novacekite

NT2 para-schoepite

NT2 ranquillite

NT2 rauvite

NT2 sabugalite

NT2 salecite

NT2 schoepite

NT2 sengierite

NT2 sklodowskite

NT2 soddyite

NT2 thorianite

NT2 thucholite

NT2 torbernite

NT2 tyuyamunite

NT2 uraninites

NT3 broeggerite

NT3 pitchblende

NT2 uranium black

NT2 uranophane

NT2 uranothorite

NT2 vesuvianite

**radioactive particulates**

USE particles

USE radioactive aerosols

**RADIOACTIVE TRACER LOGGING**

INIS: 1977-06-14; ETDE: 1976-06-07

*Well logging using radioactive tracers for measuring fluid movement and for obtaining source and sink information.*

\*BT1 radioactivity logging

\*BT1 tracer techniques



**radioactive tracers**

INIS: 2000-04-12; ETDE: 1981-05-18

SEE radiopharmaceuticals

SEE tracer techniques

**RADIOACTIVE WASTE DISPOSAL**

1997-06-19

\*BT1 radioactive waste management  
 \*BT1 waste disposal  
 RT actinide burner reactors  
 RT backfilling  
 RT biointrusion  
 RT boom clay  
 RT dalhart basin  
 RT disposal wells  
 RT environmental exposure pathway  
 RT fission product release  
 RT fuel cycle centers  
 RT ground release  
 RT marine disposal  
 RT natural analogue  
 RT novaya zemlya  
 RT nuclear waste policy acts  
 RT opalinus clay  
 RT palo duro basin  
 RT paradox basin  
 RT pasco basin  
 RT permian basin  
 RT radioactive effluents  
 RT radioactive waste facilities  
 RT radioactive waste storage  
 RT radioactive wastes  
 RT salt caverns  
 RT salt deposits  
 RT shaft excavations  
 RT stack disposal  
 RT underground disposal  
 RT waste forms  
 RT waste-rock interactions  
 RT yucca mountain

**RADIOACTIVE WASTE FACILITIES**

BT1 nuclear facilities  
 NT1 asse salt mine  
 NT1 aube plant  
 NT1 bohunice radioactive waste processing center  
 NT1 gorleben salt dome  
 NT1 hades underground research facility  
 NT1 konrad ore mine  
 NT1 manche plant  
 NT1 mochovc liquid raw final treatment facility  
 NT1 mochovc radioactive waste repository  
 NT1 morsleben salt mine  
 NT1 pamela plant  
 NT1 vaalputs radioactive waste disposal facility  
 NT1 wipp  
 RT biointrusion  
 RT fuel cycle centers  
 RT fuel reprocessing plants  
 RT radioactive waste disposal  
 RT radioactive waste processing  
 RT radioactive wastes  
 RT storage facilities  
 RT waste retrieval

**RADIOACTIVE WASTE MANAGEMENT**

1990-11-07

\*BT1 waste management  
 NT1 radioactive waste disposal  
 NT1 radioactive waste processing  
 NT2 harvest process  
 NT1 radioactive waste storage  
 NT2 monitored retrievable storage  
 RT compact commissions  
 RT radioactive wastes

RT risk assessment

**radioactive waste policy acts**

INIS: 1985-09-09; ETDE: 2002-04-26

USE nuclear waste policy acts

**RADIOACTIVE WASTE****PROCESSING**

UF *aralex process*  
 UF *opix process*  
 SF *medec process*  
 \*BT1 radioactive waste management  
 \*BT1 waste processing  
 NT1 harvest process  
 RT accelerator-driven transmutation  
 RT calcination  
 RT calcined wastes  
 RT ceramic melters  
 RT encapsulation  
 RT fuel cycle centers  
 RT iodox process  
 RT pamela plant  
 RT radioactive waste facilities  
 RT radioactive wastes  
 RT slagging pyrolysis process  
 RT synroc process  
 RT vitrification  
 RT waste forms

**RADIOACTIVE WASTE STORAGE**

1996-04-16

\*BT1 radioactive waste management  
 \*BT1 waste storage  
 NT1 monitored retrievable storage  
 RT dry storage  
 RT fuel cycle centers  
 RT harvest process  
 RT radioactive waste disposal  
 RT us mrs project  
 RT wet storage

**RADIOACTIVE WASTES**

UF *nuclear wastes*  
 UF *radioactive biological wastes*  
 UF *radioactive gaseous wastes*  
 UF *residues (radioactive)*  
 \*BT1 radioactive materials  
 BT1 wastes  
 NT1 alpha-bearing wastes  
 NT1 calcined wastes  
 NT1 high-level radioactive wastes  
 NT1 intermediate-level radioactive wastes  
 NT1 low-level radioactive wastes  
 NT1 radioactive effluents  
 NT1 waste forms  
 RT contamination  
 RT fission products  
 RT fissionable materials  
 RT ground disposal  
 RT mill tailings  
 RT nuclear materials management  
 RT nuclear waste policy acts  
 RT radiation hazards  
 RT radioactive waste disposal  
 RT radioactive waste facilities  
 RT radioactive waste management  
 RT radioactive waste processing  
 RT radiocolloids  
 RT radioisotope heat sources  
 RT release limits  
 RT salt vault project  
 RT spent fuels  
 RT waste pellets  
 RT waste retrieval

**RADIOACTIVITY**

For measured values of radioactivity and for unidentified radiation sources.

UF *concentrations (radionuclides)*  
 UF *induced radioactivity*

UF *radionuclide concentration*

NT1 natural radioactivity  
 RT activity levels  
 RT annual limit of intake  
 RT body burden  
 RT contamination  
 RT hot labs  
 RT maximum inhalation quantity  
 RT maximum permissible activity  
 RT maximum permissible body burden  
 RT maximum permissible intake  
 RT maximum permissible level  
 RT personnel monitoring  
 RT radiation monitoring  
 RT radiation monitors  
 RT radiation sources  
 RT radioactive clouds  
 RT radioactive materials  
 RT radioactivity range  
 RT radioassay  
 RT radioecological concentration  
 RT radioisotopes  
 RT radiometric analysis  
 RT radionuclide kinetics  
 RT radionuclide metrology  
 RT residence half-time  
 RT surface contamination  
 RT whole-body counting

**RADIOACTIVITY LOGGING**

INIS: 1976-10-29; ETDE: 1976-06-07

Well logging using either natural or induced nuclear radiation.

UF *nuclear log*  
 UF *radiation logging*  
 BT1 well logging  
 NT1 gamma-gamma logging  
 NT1 gamma logging  
 NT1 neutron logging  
 NT2 neutron-gamma logging  
 NT2 neutron-neutron logging  
 NT1 radioactive tracer logging  
 NT1 x-ray fluorescence logging  
 RT radiometric surveys

**RADIOACTIVITY RANGE**

2012-05-31

NT1 bq range  
 NT2 bq range 01-10  
 NT2 bq range 10-100  
 NT2 bq range 100-1000  
 NT1 giga bq range  
 NT1 kilo bq range  
 NT2 kilo bq range 01-10  
 NT2 kilo bq range 10-100  
 NT2 kilo bq range 100-1000  
 NT1 mega bq range  
 NT2 mega bq range 01-10  
 NT2 mega bq range 10-100  
 NT2 mega bq range 100-1000  
 NT1 milli bq range  
 NT1 peta bq range  
 NT1 tera bq range  
 RT contamination  
 RT radiation dose units  
 RT radioactivity

**RADIOACTIVITY TRANSPORT**

INIS: 1976-05-07; ETDE: 1976-08-24

The processes by which radioactive materials move and become deposited throughout a reactor system.

UF *activity transport*  
 RT *contamination*

**radioapplicators**

USE radiation sources

**RADIOASSAY**

The measurement of radioactive samples including the identification of unknown

*samples and the determination of activity or energy.*

- NT1 radioimmunoassay
- NT2 radioimmunoscintigraphy
- NT1 radioreceptor assay
- RT bioassay
- RT counting techniques
- RT qualitative chemical analysis
- RT radiation monitoring
- RT radioactivity
- RT radioenzymatic assay
- RT spectroscopy

## RADIOASTRONOMY

- BT1 astronomy
- RT cosmic radio sources
- RT ghz range
- RT mhz range
- RT solar radio bursts

## radioautography

- USE autoradiography

## radiobiological effects

- USE biological radiation effects

## RADIOBIOLOGY

- BT1 biology
- RT biological radiation effects
- RT biophysics
- RT molecular biology
- RT radiation effects
- RT radiation injuries
- RT radioinduction
- RT radiosensitivity
- RT tracer techniques

## radiocarbon dating

- USE carbon 14
- USE isotope dating

## RADIOCARDIOGRAPHY

- \*BT1 cardiography

## radiochemical activation analysis

INIS: 1993-11-09; ETDE: 2002-04-26

*Use one of the narrower terms of the descriptor below if appropriate.*

- USE activation analysis

## RADIOCHEMICAL ANALYSIS

1994-10-13

*Quantitative analysis based on a combination of radiochemical and radiometric techniques. (Until October 1994 this concept was indexed to RADIOMETRIC ANALYSIS.)*

- \*BT1 quantitative chemical analysis
- RT radiometric analysis

## radiochemical laboratories

- USE hot labs

## RADIOCHEMISTRY

*The chemistry of radioactive materials. Not to be used for RADIATION CHEMISTRY.*

- UF reactor chemistry
- BT1 chemistry
- NT1 hot atom chemistry
- NT2 szilard-chalmers reaction
- RT emanation method
- RT nuclear chemistry
- RT radiation chemistry

## RADIOCHROMATOGRAPHY

- \*BT1 chromatography

## RADIOCOLLOIDS

- \*BT1 colloids
- NT1 thorotrast
- RT gold 198
- RT isotope applications

- RT radioactive wastes
- RT radiopharmaceuticals

## radiocrystallography

- USE crystallography

## radiodecomposition

ETDE: 2002-04-26

- USE radiolysis

## RADIODERMATITIS

- \*BT1 dermatitis
- \*BT1 local radiation effects
- \*BT1 radiation injuries
- RT radiation burns

## radiodiagnosis (radionuclides)

- USE diagnosis
- USE nuclear medicine

## RADIODISINFESTATION

1980-12-02

- BT1 disinfestation
- BT1 irradiation
- RT grain disinfestation
- RT insects
- RT radiosterilization

## RADIOECHO

- \*BT1 radiowave radiation

## RADIOECOLOGICAL CONCENTRATION

- UF accumulation (radioecological)
- BT1 ecological concentration
- RT biological localization
- RT buildup
- RT concentration ratio
- RT contamination
- RT ecosystems
- RT environmental transport
- RT food chains
- RT radioactivity
- RT radionuclide migration

## RADIOECOLOGY

- BT1 ecology
- RT radionuclide migration

## radioelectric cells

ETDE: 2002-04-26

- USE direct collection converters

## RADIOEMBOLIZATION

2013-07-26

- \*BT1 brachytherapy
- RT blood vessels
- RT emboli
- RT liver
- RT neoplasms
- RT radiation source implants

## RADIOENZYMATIC ASSAY

INIS: 1981-09-17; ETDE: 1981-10-24

- RT enzymes
- RT labelled compounds
- RT quantitative chemical analysis
- RT radioassay

## radiofrequency systems

- USE rf systems

## radiographs

- USE images

## radiography (auto)

- USE autoradiography

## radiography (biomedical)

- USE biomedical radiography

## radiography (industrial)

- USE industrial radiography

## radiography (micro)

INIS: 1983-03-15; ETDE: 1975-10-01

- USE microradiography

## RADIOIMMUNOASSAY

- UF ria (radioimmunoassay)
- \*BT1 immunoassay
- \*BT1 radioimmunoassay
- RT antibodies
- RT antigen-antibody reactions
- RT antigens
- RT cpb
- RT labelled compounds
- RT radioimmunology
- RT radioimmunoscintigraphy
- RT radioisotopes

## RADIOIMMUNODETECTION

INIS: 1995-01-09; ETDE: 1990-01-23

- BT1 diagnostic techniques
- BT1 radioassay
- \*BT1 tracer techniques
- NT1 radioimmunoassay
- NT1 radioimmunoscintigraphy
- RT antibodies
- RT labelled compounds
- RT neoplasms

## RADIOIMMUNOLOGY

- BT1 immunology
- RT biological radiation effects
- RT grafts
- RT immunity
- RT irradiation
- RT radioimmunoassay
- RT radioimmunotherapy
- RT therapy

## RADIOIMMUNOSCINTIGRAPHY

INIS: 1995-01-09; ETDE: 1987-10-22

*The in vivo use of radiolabelled antibodies to visualize particular biological structures, especially diagnostic use in medicine.*

- \*BT1 radioimmunoassay
- \*BT1 scintiscanning
- RT monoclonal antibodies
- RT radioimmunoassay
- RT radioimmunotherapy

## RADIOIMMUNOTHERAPY

INIS: 1994-02-28; ETDE: 1986-01-14

*(Until March 1994 this concept was indexed by RADIOTHERAPY and IMMUNOTHERAPY.)*

- \*BT1 immunotherapy
- \*BT1 radiotherapy
- RT antibodies
- RT monoclonal antibodies
- RT radioimmunology
- RT radioimmunoscintigraphy

## radioinduced reactions

- USE chemical radiation effects

## RADIOINDUCTION

1994-08-26

*(Until August 1994 this concept was indexed by RADIATION EFFECTS.)*

- RT biological radiation effects
- RT radiation injuries
- RT radiobiology

## RADIOISOTOPE BATTERIES

- UF batteries (isotopic)
- BT1 direct energy converters
- NT1 snap batteries
- NT2 snap 19 battery
- NT2 snap 27 battery
- NT2 snap 9 battery
- RT cardiac pacemakers
- RT direct collection converters

RT mechanical heart  
 RT radioisotope heat sources  
 RT radioisotopes  
 RT spacecraft power supplies  
 RT thermoelectric generators

**RADIOISOTOPE GENERATORS**

UF *cow-milkers*  
 UF *generators (radioisotope)*  
 RT cesium 137  
 RT daughter products  
 RT decay  
 RT diagnostic techniques  
 RT germanium 68  
 RT half-life  
 RT isotope production  
 RT isotope separation  
 RT magnesium 28  
 RT molybdenum 99  
 RT strontium 90  
 RT tellurium 132  
 RT tin 113  
 RT yttrium 87

**RADIOISOTOPE HEAT SOURCES**

UF *heat sources (radioisotope)*  
 BT1 heat sources  
 RT energy  
 RT radioactive wastes  
 RT radioisotope batteries  
 RT thermoelectric generators

**radioisotope kinetics**

USE radionuclide kinetics

**radioisotope-labelled drugs**

INIS: 2000-04-12; ETDE: 1981-05-18

USE radiopharmaceuticals

**radioisotope migration**

USE radionuclide migration

**RADIOISOTOPE SCANNERS**

UF *scanners (radioisotope)*  
 RT gamma cameras  
 RT image processing  
 RT image scanners  
 RT images  
 RT positron cameras  
 RT radiation detectors  
 RT radioisotope scanning

**RADIOISOTOPE SCANNING**

UF *scanning (radioisotope)*  
 BT1 counting techniques  
 NT1 scintiscanning  
 NT2 radioimmunoscintigraphy  
 RT cameras  
 RT ecat scanning  
 RT emission computed tomography  
 RT gamma detection  
 RT nuclear medicine  
 RT positron computed tomography  
 RT radioisotope scanners  
 RT single photon emission computed tomography  
 RT tomography

**RADIOISOTOPES**

UF *radionuclides*  
 BT1 isotopes  
 NT1 alpha decay radioisotopes  
 NT2 actinium 206  
 NT2 actinium 207  
 NT2 actinium 208  
 NT2 actinium 209  
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 NT2 beryllium 8  
 NT2 bismuth 184  
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 NT2 bohrium 271  
 NT2 bohrium 272  
 NT2 boron 9  
 NT2 californium 237  
 NT2 californium 239  
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 NT2 copernicium 277  
 NT2 copernicium 285  
 NT2 curium 233  
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 NT2 darmstadtium 267  
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 NT2 darmstadtium 271  
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 NT2 darmstadtium 279  
 NT2 dubnium 255  
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 NT2 dubnium 263  
 NT2 dysprosium 150  
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 NT2 einsteinium 241  
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 NT2 einsteinium 254  
 NT2 einsteinium 255

NT2	erbium 152	NT2	hassium 266	NT2	mendelevium 256
NT2	erbium 153	NT2	hassium 267	NT2	mendelevium 257
NT2	erbium 154	NT2	hassium 269	NT2	mendelevium 258
NT2	erbium 155	NT2	hassium 270	NT2	mendelevium 259
NT2	europium 147	NT2	hassium 271	NT2	mercury 171
NT2	europium 148	NT2	hassium 275	NT2	mercury 172
NT2	fermium 243	NT2	helium 5	NT2	mercury 173
NT2	fermium 245	NT2	holmium 151	NT2	mercury 174
NT2	fermium 246	NT2	holmium 152	NT2	mercury 175
NT2	fermium 247	NT2	holmium 153	NT2	mercury 176
NT2	fermium 248	NT2	holmium 154	NT2	mercury 177
NT2	fermium 249	NT2	holmium 155	NT2	mercury 178
NT2	fermium 250	NT2	iodine 108	NT2	mercury 179
NT2	fermium 251	NT2	iodine 111	NT2	mercury 180
NT2	fermium 252	NT2	iridium 164	NT2	mercury 181
NT2	fermium 253	NT2	iridium 165	NT2	mercury 182
NT2	fermium 254	NT2	iridium 166	NT2	mercury 183
NT2	fermium 255	NT2	iridium 167	NT2	mercury 184
NT2	fermium 256	NT2	iridium 168	NT2	mercury 185
NT2	fermium 257	NT2	iridium 169	NT2	mercury 186
NT2	flerovium 285	NT2	iridium 170	NT2	mercury 187
NT2	flerovium 286	NT2	iridium 171	NT2	mercury 188
NT2	flerovium 287	NT2	iridium 172	NT2	moscovium 287
NT2	flerovium 288	NT2	iridium 173	NT2	moscovium 288
NT2	flerovium 289	NT2	iridium 174	NT2	neodymium 144
NT2	francium 199	NT2	iridium 175	NT2	neptunium 225
NT2	francium 200	NT2	iridium 176	NT2	neptunium 226
NT2	francium 201	NT2	iridium 177	NT2	neptunium 227
NT2	francium 202	NT2	lawrencium 251	NT2	neptunium 229
NT2	francium 203	NT2	lawrencium 252	NT2	neptunium 230
NT2	francium 204	NT2	lawrencium 253	NT2	neptunium 231
NT2	francium 205	NT2	lawrencium 254	NT2	neptunium 233
NT2	francium 206	NT2	lawrencium 255	NT2	neptunium 235
NT2	francium 207	NT2	lawrencium 256	NT2	neptunium 237
NT2	francium 208	NT2	lawrencium 257	NT2	nihonium 278
NT2	francium 209	NT2	lawrencium 258	NT2	nihonium 283
NT2	francium 210	NT2	lawrencium 259	NT2	nihonium 284
NT2	francium 211	NT2	lawrencium 260	NT2	nobelium 251
NT2	francium 212	NT2	lawrencium 264	NT2	nobelium 252
NT2	francium 213	NT2	lawrencium 265	NT2	nobelium 253
NT2	francium 214	NT2	lawrencium 266	NT2	nobelium 254
NT2	francium 215	NT2	lead 178	NT2	nobelium 255
NT2	francium 216	NT2	lead 180	NT2	nobelium 256
NT2	francium 217	NT2	lead 181	NT2	nobelium 257
NT2	francium 218	NT2	lead 182	NT2	nobelium 259
NT2	francium 219	NT2	lead 183	NT2	nobelium 260
NT2	francium 220	NT2	lead 184	NT2	oganesson 294
NT2	francium 221	NT2	lead 185	NT2	osmium 161
NT2	francium 222	NT2	lead 186	NT2	osmium 162
NT2	francium 223	NT2	lead 187	NT2	osmium 163
NT2	gadolinium 148	NT2	lead 188	NT2	osmium 164
NT2	gadolinium 149	NT2	lead 189	NT2	osmium 165
NT2	gadolinium 150	NT2	lead 190	NT2	osmium 166
NT2	gadolinium 151	NT2	lead 191	NT2	osmium 167
NT2	gadolinium 152	NT2	lead 192	NT2	osmium 168
NT2	gold 171	NT2	lead 210	NT2	osmium 169
NT2	gold 172	NT2	lithium 5	NT2	osmium 170
NT2	gold 173	NT2	livermorium 290	NT2	osmium 171
NT2	gold 174	NT2	livermorium 291	NT2	osmium 172
NT2	gold 175	NT2	livermorium 292	NT2	osmium 173
NT2	gold 176	NT2	livermorium 293	NT2	osmium 174
NT2	gold 177	NT2	lutetium 155	NT2	osmium 186
NT2	gold 178	NT2	lutetium 156	NT2	platinum 166
NT2	gold 179	NT2	lutetium 157	NT2	platinum 167
NT2	gold 181	NT2	lutetium 158	NT2	platinum 168
NT2	gold 183	NT2	lutetium 159	NT2	platinum 169
NT2	gold 184	NT2	meitnerium 266	NT2	platinum 170
NT2	gold 185	NT2	meitnerium 268	NT2	platinum 171
NT2	hafnium 156	NT2	meitnerium 270	NT2	platinum 172
NT2	hafnium 157	NT2	meitnerium 275	NT2	platinum 173
NT2	hafnium 158	NT2	meitnerium 276	NT2	platinum 174
NT2	hafnium 159	NT2	mendelevium 245	NT2	platinum 175
NT2	hafnium 160	NT2	mendelevium 246	NT2	platinum 176
NT2	hafnium 161	NT2	mendelevium 247	NT2	platinum 177
NT2	hafnium 162	NT2	mendelevium 248	NT2	platinum 178
NT2	hafnium 174	NT2	mendelevium 249	NT2	platinum 179
NT2	hassium 263	NT2	mendelevium 250	NT2	platinum 180
NT2	hassium 264	NT2	mendelevium 251	NT2	platinum 181
NT2	hassium 265	NT2	mendelevium 255	NT2	platinum 182

NT2	platinum 183	NT2	radium 205	NT2	seaborgium 261
NT2	platinum 184	NT2	radium 206	NT2	seaborgium 262
NT2	platinum 185	NT2	radium 207	NT2	seaborgium 263
NT2	platinum 186	NT2	radium 208	NT2	seaborgium 264
NT2	platinum 188	NT2	radium 209	NT2	seaborgium 265
NT2	platinum 190	NT2	radium 210	NT2	seaborgium 266
NT2	plutonium 228	NT2	radium 211	NT2	seaborgium 268
NT2	plutonium 229	NT2	radium 212	NT2	seaborgium 270
NT2	plutonium 230	NT2	radium 213	NT2	seaborgium 271
NT2	plutonium 232	NT2	radium 214	NT2	seaborgium 272
NT2	plutonium 233	NT2	radium 215	NT2	tantalum 157
NT2	plutonium 234	NT2	radium 216	NT2	tantalum 158
NT2	plutonium 235	NT2	radium 217	NT2	tantalum 159
NT2	plutonium 236	NT2	radium 218	NT2	tantalum 160
NT2	plutonium 237	NT2	radium 219	NT2	tantalum 161
NT2	plutonium 238	NT2	radium 220	NT2	tantalum 163
NT2	plutonium 239	NT2	radium 221	NT2	tantalum 164
NT2	plutonium 240	NT2	radium 222	NT2	tellurium 105
NT2	plutonium 241	NT2	radium 223	NT2	tellurium 106
NT2	plutonium 242	NT2	radium 224	NT2	tellurium 107
NT2	plutonium 244	NT2	radium 226	NT2	tellurium 108
NT2	polonium 186	NT2	radon 193	NT2	tellurium 109
NT2	polonium 187	NT2	radon 194	NT2	tellurium 110
NT2	polonium 188	NT2	radon 195	NT2	terbium 149
NT2	polonium 189	NT2	radon 197	NT2	terbium 151
NT2	polonium 190	NT2	radon 198	NT2	thallium 177
NT2	polonium 191	NT2	radon 199	NT2	thallium 178
NT2	polonium 192	NT2	radon 200	NT2	thallium 179
NT2	polonium 193	NT2	radon 201	NT2	thallium 180
NT2	polonium 194	NT2	radon 202	NT2	thallium 181
NT2	polonium 195	NT2	radon 203	NT2	thallium 182
NT2	polonium 196	NT2	radon 204	NT2	thallium 183
NT2	polonium 197	NT2	radon 205	NT2	thallium 184
NT2	polonium 198	NT2	radon 206	NT2	thallium 185
NT2	polonium 199	NT2	radon 207	NT2	thallium 186
NT2	polonium 200	NT2	radon 208	NT2	thallium 187
NT2	polonium 201	NT2	radon 209	NT2	thorium 209
NT2	polonium 202	NT2	radon 210	NT2	thorium 210
NT2	polonium 203	NT2	radon 211	NT2	thorium 211
NT2	polonium 204	NT2	radon 212	NT2	thorium 212
NT2	polonium 205	NT2	radon 213	NT2	thorium 213
NT2	polonium 206	NT2	radon 214	NT2	thorium 214
NT2	polonium 207	NT2	radon 215	NT2	thorium 215
NT2	polonium 208	NT2	radon 216	NT2	thorium 216
NT2	polonium 209	NT2	radon 217	NT2	thorium 217
NT2	polonium 210	NT2	radon 218	NT2	thorium 218
NT2	polonium 211	NT2	radon 219	NT2	thorium 219
NT2	polonium 212	NT2	radon 220	NT2	thorium 220
NT2	polonium 213	NT2	radon 221	NT2	thorium 221
NT2	polonium 214	NT2	radon 222	NT2	thorium 222
NT2	polonium 215	NT2	rhenium 160	NT2	thorium 223
NT2	polonium 216	NT2	rhenium 161	NT2	thorium 224
NT2	polonium 217	NT2	rhenium 162	NT2	thorium 225
NT2	polonium 218	NT2	rhenium 163	NT2	thorium 226
NT2	promethium 145	NT2	rhenium 164	NT2	thorium 227
NT2	protactinium 212	NT2	rhenium 165	NT2	thorium 228
NT2	protactinium 213	NT2	rhenium 166	NT2	thorium 229
NT2	protactinium 214	NT2	rhenium 167	NT2	thorium 230
NT2	protactinium 215	NT2	rhenium 168	NT2	thorium 232
NT2	protactinium 216	NT2	rhenium 169	NT2	thulium 153
NT2	protactinium 217	NT2	roentgenium 272	NT2	thulium 154
NT2	protactinium 218	NT2	roentgenium 273	NT2	thulium 155
NT2	protactinium 219	NT2	roentgenium 274	NT2	thulium 156
NT2	protactinium 220	NT2	roentgenium 279	NT2	thulium 157
NT2	protactinium 221	NT2	roentgenium 280	NT2	tungsten 158
NT2	protactinium 222	NT2	rutherfordium 253	NT2	tungsten 159
NT2	protactinium 223	NT2	rutherfordium 254	NT2	tungsten 160
NT2	protactinium 224	NT2	rutherfordium 255	NT2	tungsten 161
NT2	protactinium 225	NT2	rutherfordium 256	NT2	tungsten 162
NT2	protactinium 226	NT2	rutherfordium 257	NT2	tungsten 163
NT2	protactinium 227	NT2	rutherfordium 258	NT2	tungsten 164
NT2	protactinium 228	NT2	rutherfordium 259	NT2	tungsten 165
NT2	protactinium 229	NT2	rutherfordium 261	NT2	tungsten 166
NT2	protactinium 230	NT2	samarium 146	NT2	uranium 217
NT2	protactinium 231	NT2	samarium 147	NT2	uranium 218
NT2	radium 201	NT2	samarium 148	NT2	uranium 219
NT2	radium 202	NT2	seaborgium 258	NT2	uranium 220
NT2	radium 203	NT2	seaborgium 259	NT2	uranium 221
NT2	radium 204	NT2	seaborgium 260	NT2	uranium 222

<b>NT2</b>	uranium 223	<b>NT3</b>	argon 48	<b>NT3</b>	bromine 90
<b>NT2</b>	uranium 224	<b>NT3</b>	argon 52	<b>NT3</b>	bromine 91
<b>NT2</b>	uranium 225	<b>NT3</b>	argon 53	<b>NT3</b>	bromine 92
<b>NT2</b>	uranium 226	<b>NT3</b>	arsenic 74	<b>NT3</b>	bromine 93
<b>NT2</b>	uranium 227	<b>NT3</b>	arsenic 76	<b>NT3</b>	bromine 94
<b>NT2</b>	uranium 228	<b>NT3</b>	arsenic 77	<b>NT3</b>	bromine 95
<b>NT2</b>	uranium 229	<b>NT3</b>	arsenic 78	<b>NT3</b>	bromine 96
<b>NT2</b>	uranium 230	<b>NT3</b>	arsenic 79	<b>NT3</b>	bromine 97
<b>NT2</b>	uranium 231	<b>NT3</b>	arsenic 80	<b>NT3</b>	cadmium 113
<b>NT2</b>	uranium 232	<b>NT3</b>	arsenic 81	<b>NT3</b>	cadmium 115
<b>NT2</b>	uranium 233	<b>NT3</b>	arsenic 82	<b>NT3</b>	cadmium 117
<b>NT2</b>	uranium 234	<b>NT3</b>	arsenic 83	<b>NT3</b>	cadmium 118
<b>NT2</b>	uranium 235	<b>NT3</b>	arsenic 84	<b>NT3</b>	cadmium 119
<b>NT2</b>	uranium 236	<b>NT3</b>	arsenic 85	<b>NT3</b>	cadmium 120
<b>NT2</b>	uranium 238	<b>NT3</b>	arsenic 86	<b>NT3</b>	cadmium 121
<b>NT2</b>	xenon 109	<b>NT3</b>	arsenic 87	<b>NT3</b>	cadmium 122
<b>NT2</b>	xenon 110	<b>NT3</b>	arsenic 88	<b>NT3</b>	cadmium 123
<b>NT2</b>	xenon 111	<b>NT3</b>	arsenic 89	<b>NT3</b>	cadmium 124
<b>NT2</b>	xenon 112	<b>NT3</b>	arsenic 90	<b>NT3</b>	cadmium 125
<b>NT2</b>	ytterbium 154	<b>NT3</b>	arsenic 91	<b>NT3</b>	cadmium 126
<b>NT2</b>	ytterbium 155	<b>NT3</b>	arsenic 92	<b>NT3</b>	cadmium 127
<b>NT2</b>	ytterbium 156	<b>NT3</b>	astatine 217	<b>NT3</b>	cadmium 128
<b>NT2</b>	ytterbium 157	<b>NT3</b>	astatine 218	<b>NT3</b>	cadmium 129
<b>NT2</b>	ytterbium 158	<b>NT3</b>	astatine 219	<b>NT3</b>	cadmium 130
<b>NT1</b>	beta decay radioisotopes	<b>NT3</b>	astatine 220	<b>NT3</b>	cadmium 131
<b>NT2</b>	beta-minus decay radioisotopes	<b>NT3</b>	astatine 221	<b>NT3</b>	cadmium 132
<b>NT3</b>	actinium 226	<b>NT3</b>	astatine 222	<b>NT3</b>	calcium 45
<b>NT3</b>	actinium 227	<b>NT3</b>	astatine 223	<b>NT3</b>	calcium 47
<b>NT3</b>	actinium 228	<b>NT3</b>	barium 139	<b>NT3</b>	calcium 49
<b>NT3</b>	actinium 229	<b>NT3</b>	barium 140	<b>NT3</b>	calcium 50
<b>NT3</b>	actinium 230	<b>NT3</b>	barium 141	<b>NT3</b>	calcium 51
<b>NT3</b>	actinium 231	<b>NT3</b>	barium 142	<b>NT3</b>	calcium 52
<b>NT3</b>	actinium 232	<b>NT3</b>	barium 143	<b>NT3</b>	calcium 53
<b>NT3</b>	actinium 233	<b>NT3</b>	barium 144	<b>NT3</b>	calcium 54
<b>NT3</b>	actinium 234	<b>NT3</b>	barium 145	<b>NT3</b>	calcium 55
<b>NT3</b>	actinium 235	<b>NT3</b>	barium 146	<b>NT3</b>	calcium 56
<b>NT3</b>	actinium 236	<b>NT3</b>	barium 147	<b>NT3</b>	calcium 57
<b>NT3</b>	aluminium 28	<b>NT3</b>	barium 148	<b>NT3</b>	calcium 58
<b>NT3</b>	aluminium 29	<b>NT3</b>	barium 149	<b>NT3</b>	calcium 60
<b>NT3</b>	aluminium 30	<b>NT3</b>	barium 150	<b>NT3</b>	californium 253
<b>NT3</b>	aluminium 31	<b>NT3</b>	barium 151	<b>NT3</b>	californium 255
<b>NT3</b>	aluminium 32	<b>NT3</b>	barium 152	<b>NT3</b>	carbon 14
<b>NT3</b>	aluminium 34	<b>NT3</b>	barium 153	<b>NT3</b>	carbon 15
<b>NT3</b>	aluminium 36	<b>NT3</b>	berkelium 248	<b>NT3</b>	carbon 16
<b>NT3</b>	aluminium 37	<b>NT3</b>	berkelium 249	<b>NT3</b>	carbon 17
<b>NT3</b>	aluminium 40	<b>NT3</b>	berkelium 250	<b>NT3</b>	carbon 18
<b>NT3</b>	aluminium 41	<b>NT3</b>	berkelium 251	<b>NT3</b>	cerium 141
<b>NT3</b>	aluminium 42	<b>NT3</b>	berkelium 252	<b>NT3</b>	cerium 143
<b>NT3</b>	americium 242	<b>NT3</b>	berkelium 253	<b>NT3</b>	cerium 144
<b>NT3</b>	americium 244	<b>NT3</b>	berkelium 254	<b>NT3</b>	cerium 145
<b>NT3</b>	americium 245	<b>NT3</b>	beryllium 10	<b>NT3</b>	cerium 146
<b>NT3</b>	americium 246	<b>NT3</b>	beryllium 11	<b>NT3</b>	cerium 147
<b>NT3</b>	americium 247	<b>NT3</b>	beryllium 12	<b>NT3</b>	cerium 148
<b>NT3</b>	americium 248	<b>NT3</b>	beryllium 14	<b>NT3</b>	cerium 149
<b>NT3</b>	americium 249	<b>NT3</b>	bismuth 210	<b>NT3</b>	cerium 150
<b>NT3</b>	antimony 122	<b>NT3</b>	bismuth 211	<b>NT3</b>	cerium 151
<b>NT3</b>	antimony 124	<b>NT3</b>	bismuth 212	<b>NT3</b>	cerium 152
<b>NT3</b>	antimony 125	<b>NT3</b>	bismuth 213	<b>NT3</b>	cerium 153
<b>NT3</b>	antimony 126	<b>NT3</b>	bismuth 214	<b>NT3</b>	cerium 154
<b>NT3</b>	antimony 127	<b>NT3</b>	bismuth 215	<b>NT3</b>	cerium 155
<b>NT3</b>	antimony 128	<b>NT3</b>	bismuth 216	<b>NT3</b>	cerium 156
<b>NT3</b>	antimony 129	<b>NT3</b>	bismuth 217	<b>NT3</b>	cerium 157
<b>NT3</b>	antimony 130	<b>NT3</b>	bismuth 218	<b>NT3</b>	cesium 130
<b>NT3</b>	antimony 131	<b>NT3</b>	boron 12	<b>NT3</b>	cesium 132
<b>NT3</b>	antimony 132	<b>NT3</b>	boron 13	<b>NT3</b>	cesium 134
<b>NT3</b>	antimony 133	<b>NT3</b>	boron 14	<b>NT3</b>	cesium 135
<b>NT3</b>	antimony 134	<b>NT3</b>	boron 15	<b>NT3</b>	cesium 136
<b>NT3</b>	antimony 135	<b>NT3</b>	boron 16	<b>NT3</b>	cesium 137
<b>NT3</b>	antimony 136	<b>NT3</b>	boron 17	<b>NT3</b>	cesium 138
<b>NT3</b>	antimony 137	<b>NT3</b>	boron 19	<b>NT3</b>	cesium 139
<b>NT3</b>	antimony 138	<b>NT3</b>	bromine 80	<b>NT3</b>	cesium 140
<b>NT3</b>	antimony 139	<b>NT3</b>	bromine 82	<b>NT3</b>	cesium 141
<b>NT3</b>	argon 39	<b>NT3</b>	bromine 83	<b>NT3</b>	cesium 142
<b>NT3</b>	argon 41	<b>NT3</b>	bromine 84	<b>NT3</b>	cesium 143
<b>NT3</b>	argon 42	<b>NT3</b>	bromine 85	<b>NT3</b>	cesium 144
<b>NT3</b>	argon 43	<b>NT3</b>	bromine 86	<b>NT3</b>	cesium 145
<b>NT3</b>	argon 44	<b>NT3</b>	bromine 87	<b>NT3</b>	cesium 146
<b>NT3</b>	argon 45	<b>NT3</b>	bromine 88	<b>NT3</b>	cesium 147
<b>NT3</b>	argon 46	<b>NT3</b>	bromine 89	<b>NT3</b>	cesium 148

NT3 cesium 149	NT3 europium 156	NT3 hafnium 182
NT3 cesium 150	NT3 europium 157	NT3 hafnium 183
NT3 cesium 151	NT3 europium 158	NT3 hafnium 184
NT3 chlorine 36	NT3 europium 159	NT3 hafnium 187
NT3 chlorine 38	NT3 europium 160	NT3 hafnium 188
NT3 chlorine 39	NT3 europium 161	NT3 helium 6
NT3 chlorine 40	NT3 europium 162	NT3 helium 7
NT3 chlorine 41	NT3 europium 163	NT3 helium 8
NT3 chlorine 50	NT3 europium 164	NT3 holmium 164
NT3 chromium 55	NT3 europium 165	NT3 holmium 166
NT3 chromium 56	NT3 europium 166	NT3 holmium 167
NT3 chromium 57	NT3 europium 167	NT3 holmium 168
NT3 chromium 58	NT3 fluorine 20	NT3 holmium 169
NT3 chromium 59	NT3 fluorine 21	NT3 holmium 170
NT3 chromium 60	NT3 fluorine 22	NT3 holmium 171
NT3 chromium 62	NT3 fluorine 23	NT3 holmium 172
NT3 chromium 63	NT3 fluorine 24	NT3 holmium 173
NT3 chromium 64	NT3 fluorine 25	NT3 holmium 174
NT3 chromium 65	NT3 fluorine 26	NT3 holmium 175
NT3 chromium 66	NT3 fluorine 27	NT3 indium 112
NT3 chromium 67	NT3 francium 220	NT3 indium 114
NT3 chromium 68	NT3 francium 222	NT3 indium 115
NT3 cobalt 60	NT3 francium 223	NT3 indium 116
NT3 cobalt 61	NT3 francium 224	NT3 indium 117
NT3 cobalt 62	NT3 francium 225	NT3 indium 118
NT3 cobalt 63	NT3 francium 226	NT3 indium 119
NT3 cobalt 64	NT3 francium 227	NT3 indium 120
NT3 cobalt 65	NT3 francium 228	NT3 indium 121
NT3 cobalt 66	NT3 francium 229	NT3 indium 122
NT3 cobalt 67	NT3 francium 230	NT3 indium 123
NT3 cobalt 71	NT3 francium 231	NT3 indium 124
NT3 cobalt 72	NT3 gadolinium 159	NT3 indium 125
NT3 cobalt 73	NT3 gadolinium 161	NT3 indium 126
NT3 cobalt 74	NT3 gadolinium 162	NT3 indium 127
NT3 cobalt 75	NT3 gadolinium 163	NT3 indium 128
NT3 copper 64	NT3 gadolinium 164	NT3 indium 129
NT3 copper 66	NT3 gadolinium 165	NT3 indium 130
NT3 copper 67	NT3 gadolinium 166	NT3 indium 131
NT3 copper 68	NT3 gadolinium 168	NT3 indium 132
NT3 copper 69	NT3 gallium 70	NT3 indium 133
NT3 copper 70	NT3 gallium 72	NT3 indium 134
NT3 copper 71	NT3 gallium 73	NT3 indium 135
NT3 copper 72	NT3 gallium 74	NT3 iodine 126
NT3 copper 73	NT3 gallium 75	NT3 iodine 128
NT3 copper 74	NT3 gallium 76	NT3 iodine 129
NT3 copper 75	NT3 gallium 77	NT3 iodine 130
NT3 copper 76	NT3 gallium 78	NT3 iodine 131
NT3 copper 77	NT3 gallium 79	NT3 iodine 132
NT3 copper 78	NT3 gallium 80	NT3 iodine 133
NT3 copper 79	NT3 gallium 81	NT3 iodine 134
NT3 copper 80	NT3 gallium 82	NT3 iodine 135
NT3 curium 249	NT3 gallium 83	NT3 iodine 136
NT3 curium 250	NT3 gallium 84	NT3 iodine 137
NT3 curium 251	NT3 gallium 85	NT3 iodine 138
NT3 dysprosium 165	NT3 gallium 86	NT3 iodine 139
NT3 dysprosium 166	NT3 germanium 75	NT3 iodine 140
NT3 dysprosium 167	NT3 germanium 77	NT3 iodine 141
NT3 dysprosium 168	NT3 germanium 78	NT3 iodine 142
NT3 dysprosium 169	NT3 germanium 79	NT3 iodine 143
NT3 dysprosium 170	NT3 germanium 80	NT3 iodine 144
NT3 dysprosium 171	NT3 germanium 81	NT3 iridium 192
NT3 dysprosium 172	NT3 germanium 82	NT3 iridium 194
NT3 dysprosium 173	NT3 germanium 83	NT3 iridium 195
NT3 einsteinium 254	NT3 germanium 84	NT3 iridium 196
NT3 einsteinium 255	NT3 germanium 85	NT3 iridium 197
NT3 einsteinium 256	NT3 germanium 86	NT3 iridium 198
NT3 einsteinium 257	NT3 germanium 87	NT3 iridium 199
NT3 erbium 169	NT3 germanium 88	NT3 iridium 202
NT3 erbium 171	NT3 germanium 89	NT3 iron 59
NT3 erbium 172	NT3 gold 196	NT3 iron 60
NT3 erbium 173	NT3 gold 198	NT3 iron 61
NT3 erbium 174	NT3 gold 199	NT3 iron 62
NT3 erbium 175	NT3 gold 200	NT3 iron 63
NT3 erbium 176	NT3 gold 201	NT3 iron 64
NT3 erbium 177	NT3 gold 202	NT3 iron 69
NT3 europium 150	NT3 gold 203	NT3 iron 70
NT3 europium 152	NT3 gold 204	NT3 iron 71
NT3 europium 154	NT3 gold 205	NT3 iron 72
NT3 europium 155	NT3 hafnium 181	NT3 krypton 100

<b>NT3</b> krypton 85	<b>NT3</b> molybdenum 103	<b>NT3</b> niobium 99
<b>NT3</b> krypton 87	<b>NT3</b> molybdenum 104	<b>NT3</b> nitrogen 16
<b>NT3</b> krypton 88	<b>NT3</b> molybdenum 105	<b>NT3</b> nitrogen 17
<b>NT3</b> krypton 89	<b>NT3</b> molybdenum 106	<b>NT3</b> nitrogen 18
<b>NT3</b> krypton 90	<b>NT3</b> molybdenum 107	<b>NT3</b> nitrogen 19
<b>NT3</b> krypton 91	<b>NT3</b> molybdenum 108	<b>NT3</b> nitrogen 20
<b>NT3</b> krypton 92	<b>NT3</b> molybdenum 109	<b>NT3</b> nitrogen 22
<b>NT3</b> krypton 93	<b>NT3</b> molybdenum 110	<b>NT3</b> nitrogen 23
<b>NT3</b> krypton 94	<b>NT3</b> molybdenum 111	<b>NT3</b> osmium 191
<b>NT3</b> krypton 95	<b>NT3</b> molybdenum 112	<b>NT3</b> osmium 193
<b>NT3</b> krypton 97	<b>NT3</b> molybdenum 113	<b>NT3</b> osmium 194
<b>NT3</b> krypton 99	<b>NT3</b> molybdenum 114	<b>NT3</b> osmium 195
<b>NT3</b> lanthanum 138	<b>NT3</b> molybdenum 115	<b>NT3</b> osmium 196
<b>NT3</b> lanthanum 140	<b>NT3</b> molybdenum 99	<b>NT3</b> osmium 197
<b>NT3</b> lanthanum 141	<b>NT3</b> neodymium 147	<b>NT3</b> osmium 199
<b>NT3</b> lanthanum 142	<b>NT3</b> neodymium 149	<b>NT3</b> osmium 200
<b>NT3</b> lanthanum 143	<b>NT3</b> neodymium 151	<b>NT3</b> oxygen 19
<b>NT3</b> lanthanum 144	<b>NT3</b> neodymium 152	<b>NT3</b> oxygen 20
<b>NT3</b> lanthanum 145	<b>NT3</b> neodymium 153	<b>NT3</b> oxygen 21
<b>NT3</b> lanthanum 146	<b>NT3</b> neodymium 154	<b>NT3</b> oxygen 22
<b>NT3</b> lanthanum 147	<b>NT3</b> neodymium 155	<b>NT3</b> oxygen 23
<b>NT3</b> lanthanum 148	<b>NT3</b> neodymium 156	<b>NT3</b> oxygen 24
<b>NT3</b> lanthanum 149	<b>NT3</b> neodymium 157	<b>NT3</b> palladium 107
<b>NT3</b> lanthanum 150	<b>NT3</b> neodymium 158	<b>NT3</b> palladium 109
<b>NT3</b> lanthanum 151	<b>NT3</b> neodymium 159	<b>NT3</b> palladium 111
<b>NT3</b> lanthanum 152	<b>NT3</b> neodymium 160	<b>NT3</b> palladium 112
<b>NT3</b> lanthanum 153	<b>NT3</b> neodymium 161	<b>NT3</b> palladium 113
<b>NT3</b> lanthanum 154	<b>NT3</b> neon 23	<b>NT3</b> palladium 114
<b>NT3</b> lanthanum 155	<b>NT3</b> neon 24	<b>NT3</b> palladium 115
<b>NT3</b> lead 209	<b>NT3</b> neon 25	<b>NT3</b> palladium 116
<b>NT3</b> lead 210	<b>NT3</b> neon 26	<b>NT3</b> palladium 117
<b>NT3</b> lead 211	<b>NT3</b> neon 27	<b>NT3</b> palladium 118
<b>NT3</b> lead 212	<b>NT3</b> neon 29	<b>NT3</b> palladium 119
<b>NT3</b> lead 213	<b>NT3</b> neon 30	<b>NT3</b> palladium 120
<b>NT3</b> lead 214	<b>NT3</b> neon 31	<b>NT3</b> palladium 121
<b>NT3</b> lithium 11	<b>NT3</b> neon 33	<b>NT3</b> palladium 122
<b>NT3</b> lithium 13	<b>NT3</b> neon 34	<b>NT3</b> palladium 123
<b>NT3</b> lithium 8	<b>NT3</b> neptunium 236	<b>NT3</b> palladium 124
<b>NT3</b> lithium 9	<b>NT3</b> neptunium 238	<b>NT3</b> phosphorus 32
<b>NT3</b> lutetium 176	<b>NT3</b> neptunium 239	<b>NT3</b> phosphorus 33
<b>NT3</b> lutetium 177	<b>NT3</b> neptunium 240	<b>NT3</b> phosphorus 34
<b>NT3</b> lutetium 178	<b>NT3</b> neptunium 241	<b>NT3</b> phosphorus 35
<b>NT3</b> lutetium 179	<b>NT3</b> neptunium 242	<b>NT3</b> phosphorus 36
<b>NT3</b> lutetium 180	<b>NT3</b> neptunium 243	<b>NT3</b> phosphorus 37
<b>NT3</b> lutetium 181	<b>NT3</b> neptunium 244	<b>NT3</b> phosphorus 38
<b>NT3</b> lutetium 182	<b>NT3</b> neutron-rich isotopes	<b>NT3</b> phosphorus 40
<b>NT3</b> lutetium 183	<b>NT3</b> nickel 63	<b>NT3</b> phosphorus 41
<b>NT3</b> lutetium 184	<b>NT3</b> nickel 65	<b>NT3</b> phosphorus 42
<b>NT3</b> lutetium 187	<b>NT3</b> nickel 66	<b>NT3</b> platinum 197
<b>NT3</b> magnesium 27	<b>NT3</b> nickel 67	<b>NT3</b> platinum 199
<b>NT3</b> magnesium 28	<b>NT3</b> nickel 69	<b>NT3</b> platinum 200
<b>NT3</b> magnesium 29	<b>NT3</b> nickel 70	<b>NT3</b> platinum 201
<b>NT3</b> magnesium 30	<b>NT3</b> nickel 71	<b>NT3</b> plutonium 241
<b>NT3</b> magnesium 31	<b>NT3</b> nickel 72	<b>NT3</b> plutonium 243
<b>NT3</b> magnesium 32	<b>NT3</b> nickel 73	<b>NT3</b> plutonium 245
<b>NT3</b> magnesium 33	<b>NT3</b> nickel 74	<b>NT3</b> plutonium 246
<b>NT3</b> magnesium 34	<b>NT3</b> nickel 75	<b>NT3</b> polonium 215
<b>NT3</b> magnesium 37	<b>NT3</b> nickel 76	<b>NT3</b> polonium 218
<b>NT3</b> magnesium 38	<b>NT3</b> nickel 77	<b>NT3</b> polonium 219
<b>NT3</b> magnesium 39	<b>NT3</b> nickel 80	<b>NT3</b> polonium 220
<b>NT3</b> magnesium 40	<b>NT3</b> niobium 100	<b>NT3</b> potassium 40
<b>NT3</b> manganese 56	<b>NT3</b> niobium 101	<b>NT3</b> potassium 42
<b>NT3</b> manganese 57	<b>NT3</b> niobium 102	<b>NT3</b> potassium 43
<b>NT3</b> manganese 58	<b>NT3</b> niobium 103	<b>NT3</b> potassium 44
<b>NT3</b> manganese 59	<b>NT3</b> niobium 104	<b>NT3</b> potassium 45
<b>NT3</b> manganese 60	<b>NT3</b> niobium 105	<b>NT3</b> potassium 46
<b>NT3</b> manganese 61	<b>NT3</b> niobium 106	<b>NT3</b> potassium 47
<b>NT3</b> manganese 62	<b>NT3</b> niobium 107	<b>NT3</b> potassium 48
<b>NT3</b> manganese 63	<b>NT3</b> niobium 108	<b>NT3</b> potassium 49
<b>NT3</b> manganese 66	<b>NT3</b> niobium 109	<b>NT3</b> potassium 50
<b>NT3</b> manganese 67	<b>NT3</b> niobium 110	<b>NT3</b> potassium 51
<b>NT3</b> manganese 68	<b>NT3</b> niobium 111	<b>NT3</b> potassium 52
<b>NT3</b> manganese 69	<b>NT3</b> niobium 112	<b>NT3</b> potassium 53
<b>NT3</b> manganese 70	<b>NT3</b> niobium 113	<b>NT3</b> potassium 54
<b>NT3</b> mercury 203	<b>NT3</b> niobium 94	<b>NT3</b> potassium 55
<b>NT3</b> mercury 205	<b>NT3</b> niobium 95	<b>NT3</b> potassium 56
<b>NT3</b> mercury 206	<b>NT3</b> niobium 96	<b>NT3</b> praseodymium 142
<b>NT3</b> molybdenum 101	<b>NT3</b> niobium 97	<b>NT3</b> praseodymium 143
<b>NT3</b> molybdenum 102	<b>NT3</b> niobium 98	<b>NT3</b> praseodymium 144



NT3	praseodymium 145	NT3	rhodium 113	NT3	selenium 91
NT3	praseodymium 146	NT3	rhodium 114	NT3	silicon 31
NT3	praseodymium 147	NT3	rhodium 115	NT3	silicon 32
NT3	praseodymium 148	NT3	rhodium 116	NT3	silicon 33
NT3	praseodymium 149	NT3	rhodium 117	NT3	silicon 34
NT3	praseodymium 150	NT3	rhodium 118	NT3	silicon 35
NT3	praseodymium 151	NT3	rhodium 119	NT3	silicon 36
NT3	praseodymium 152	NT3	rhodium 120	NT3	silicon 37
NT3	praseodymium 153	NT3	rhodium 121	NT3	silicon 38
NT3	praseodymium 154	NT3	rhodium 122	NT3	silicon 39
NT3	praseodymium 155	NT3	rubidium 100	NT3	silicon 43
NT3	praseodymium 156	NT3	rubidium 84	NT3	silicon 44
NT3	praseodymium 157	NT3	rubidium 86	NT3	silver 108
NT3	praseodymium 158	NT3	rubidium 87	NT3	silver 110
NT3	praseodymium 159	NT3	rubidium 88	NT3	silver 111
NT3	promethium 146	NT3	rubidium 89	NT3	silver 112
NT3	promethium 147	NT3	rubidium 90	NT3	silver 113
NT3	promethium 148	NT3	rubidium 91	NT3	silver 114
NT3	promethium 149	NT3	rubidium 92	NT3	silver 115
NT3	promethium 150	NT3	rubidium 93	NT3	silver 116
NT3	promethium 151	NT3	rubidium 94	NT3	silver 117
NT3	promethium 152	NT3	rubidium 95	NT3	silver 118
NT3	promethium 153	NT3	rubidium 96	NT3	silver 119
NT3	promethium 154	NT3	rubidium 97	NT3	silver 120
NT3	promethium 155	NT3	rubidium 98	NT3	silver 121
NT3	promethium 156	NT3	rubidium 99	NT3	silver 122
NT3	promethium 157	NT3	ruthenium 103	NT3	silver 123
NT3	promethium 158	NT3	ruthenium 105	NT3	silver 124
NT3	promethium 159	NT3	ruthenium 106	NT3	silver 125
NT3	promethium 160	NT3	ruthenium 107	NT3	silver 126
NT3	promethium 161	NT3	ruthenium 108	NT3	silver 127
NT3	promethium 162	NT3	ruthenium 109	NT3	silver 128
NT3	promethium 163	NT3	ruthenium 110	NT3	silver 129
NT3	protactinium 230	NT3	ruthenium 111	NT3	silver 130
NT3	protactinium 232	NT3	ruthenium 112	NT3	sodium 24
NT3	protactinium 233	NT3	ruthenium 113	NT3	sodium 25
NT3	protactinium 234	NT3	ruthenium 114	NT3	sodium 26
NT3	protactinium 235	NT3	ruthenium 115	NT3	sodium 27
NT3	protactinium 236	NT3	ruthenium 116	NT3	sodium 28
NT3	protactinium 237	NT3	ruthenium 117	NT3	sodium 29
NT3	protactinium 238	NT3	ruthenium 118	NT3	sodium 30
NT3	protactinium 239	NT3	ruthenium 119	NT3	sodium 31
NT3	protactinium 240	NT3	ruthenium 120	NT3	sodium 32
NT3	radium 225	NT3	samarium 151	NT3	sodium 33
NT3	radium 227	NT3	samarium 153	NT3	sodium 34
NT3	radium 228	NT3	samarium 155	NT3	sodium 35
NT3	radium 229	NT3	samarium 156	NT3	sodium 37
NT3	radium 230	NT3	samarium 157	NT3	strontium 100
NT3	radium 231	NT3	samarium 158	NT3	strontium 101
NT3	radium 232	NT3	samarium 159	NT3	strontium 102
NT3	radon 221	NT3	samarium 160	NT3	strontium 103
NT3	radon 223	NT3	samarium 161	NT3	strontium 104
NT3	radon 224	NT3	samarium 162	NT3	strontium 105
NT3	radon 225	NT3	samarium 163	NT3	strontium 89
NT3	radon 226	NT3	samarium 164	NT3	strontium 90
NT3	radon 227	NT3	samarium 165	NT3	strontium 91
NT3	radon 228	NT3	scandium 46	NT3	strontium 92
NT3	radon 229	NT3	scandium 47	NT3	strontium 93
NT3	rhenium 186	NT3	scandium 48	NT3	strontium 94
NT3	rhenium 187	NT3	scandium 49	NT3	strontium 95
NT3	rhenium 188	NT3	scandium 50	NT3	strontium 96
NT3	rhenium 189	NT3	scandium 51	NT3	strontium 97
NT3	rhenium 190	NT3	scandium 52	NT3	strontium 98
NT3	rhenium 191	NT3	scandium 53	NT3	strontium 99
NT3	rhenium 192	NT3	scandium 56	NT3	sulfur 35
NT3	rhenium 193	NT3	scandium 57	NT3	sulfur 37
NT3	rhenium 194	NT3	scandium 58	NT3	sulfur 38
NT3	rhenium 195	NT3	scandium 59	NT3	sulfur 39
NT3	rhenium 196	NT3	scandium 60	NT3	sulfur 40
NT3	rhodium 102	NT3	scandium 61	NT3	sulfur 43
NT3	rhodium 104	NT3	selenium 79	NT3	tantalum 180
NT3	rhodium 105	NT3	selenium 81	NT3	tantalum 182
NT3	rhodium 106	NT3	selenium 83	NT3	tantalum 183
NT3	rhodium 107	NT3	selenium 84	NT3	tantalum 184
NT3	rhodium 108	NT3	selenium 85	NT3	tantalum 185
NT3	rhodium 109	NT3	selenium 86	NT3	tantalum 186
NT3	rhodium 110	NT3	selenium 87	NT3	tantalum 187
NT3	rhodium 111	NT3	selenium 88	NT3	tantalum 188
NT3	rhodium 112	NT3	selenium 89	NT3	tantalum 189

<b>NT3</b>	tantalum 190	<b>NT3</b>	tin 127	<b>NT3</b>	yttrium 94
<b>NT3</b>	technetium 100	<b>NT3</b>	tin 128	<b>NT3</b>	yttrium 95
<b>NT3</b>	technetium 101	<b>NT3</b>	tin 129	<b>NT3</b>	yttrium 96
<b>NT3</b>	technetium 102	<b>NT3</b>	tin 130	<b>NT3</b>	yttrium 97
<b>NT3</b>	technetium 103	<b>NT3</b>	tin 131	<b>NT3</b>	yttrium 98
<b>NT3</b>	technetium 104	<b>NT3</b>	tin 132	<b>NT3</b>	yttrium 99
<b>NT3</b>	technetium 105	<b>NT3</b>	tin 133	<b>NT3</b>	zinc 69
<b>NT3</b>	technetium 106	<b>NT3</b>	tin 134	<b>NT3</b>	zinc 71
<b>NT3</b>	technetium 107	<b>NT3</b>	tin 135	<b>NT3</b>	zinc 72
<b>NT3</b>	technetium 108	<b>NT3</b>	tin 136	<b>NT3</b>	zinc 73
<b>NT3</b>	technetium 109	<b>NT3</b>	tin 137	<b>NT3</b>	zinc 74
<b>NT3</b>	technetium 110	<b>NT3</b>	titanium 51	<b>NT3</b>	zinc 75
<b>NT3</b>	technetium 111	<b>NT3</b>	titanium 52	<b>NT3</b>	zinc 76
<b>NT3</b>	technetium 112	<b>NT3</b>	titanium 53	<b>NT3</b>	zinc 77
<b>NT3</b>	technetium 113	<b>NT3</b>	titanium 54	<b>NT3</b>	zinc 78
<b>NT3</b>	technetium 114	<b>NT3</b>	titanium 55	<b>NT3</b>	zinc 79
<b>NT3</b>	technetium 115	<b>NT3</b>	titanium 56	<b>NT3</b>	zinc 80
<b>NT3</b>	technetium 116	<b>NT3</b>	titanium 58	<b>NT3</b>	zinc 81
<b>NT3</b>	technetium 117	<b>NT3</b>	titanium 59	<b>NT3</b>	zinc 82
<b>NT3</b>	technetium 118	<b>NT3</b>	titanium 60	<b>NT3</b>	zinc 83
<b>NT3</b>	technetium 98	<b>NT3</b>	titanium 61	<b>NT3</b>	zirconium 100
<b>NT3</b>	technetium 99	<b>NT3</b>	titanium 62	<b>NT3</b>	zirconium 101
<b>NT3</b>	tellurium 127	<b>NT3</b>	titanium 63	<b>NT3</b>	zirconium 102
<b>NT3</b>	tellurium 129	<b>NT3</b>	tritium	<b>NT3</b>	zirconium 103
<b>NT3</b>	tellurium 131	<b>NT3</b>	tungsten 185	<b>NT3</b>	zirconium 104
<b>NT3</b>	tellurium 132	<b>NT3</b>	tungsten 187	<b>NT3</b>	zirconium 105
<b>NT3</b>	tellurium 133	<b>NT3</b>	tungsten 188	<b>NT3</b>	zirconium 106
<b>NT3</b>	tellurium 134	<b>NT3</b>	tungsten 189	<b>NT3</b>	zirconium 107
<b>NT3</b>	tellurium 135	<b>NT3</b>	tungsten 191	<b>NT3</b>	zirconium 108
<b>NT3</b>	tellurium 136	<b>NT3</b>	uranium 237	<b>NT3</b>	zirconium 109
<b>NT3</b>	tellurium 137	<b>NT3</b>	uranium 239	<b>NT3</b>	zirconium 110
<b>NT3</b>	tellurium 138	<b>NT3</b>	uranium 240	<b>NT3</b>	zirconium 93
<b>NT3</b>	tellurium 139	<b>NT3</b>	uranium 241	<b>NT3</b>	zirconium 95
<b>NT3</b>	tellurium 140	<b>NT3</b>	uranium 242	<b>NT3</b>	zirconium 97
<b>NT3</b>	tellurium 141	<b>NT3</b>	vanadium 50	<b>NT3</b>	zirconium 98
<b>NT3</b>	tellurium 142	<b>NT3</b>	vanadium 52	<b>NT3</b>	zirconium 99
<b>NT3</b>	terbium 156	<b>NT3</b>	vanadium 53	<b>NT2</b>	beta-plus decay radioisotopes
<b>NT3</b>	terbium 158	<b>NT3</b>	vanadium 54	<b>NT3</b>	aluminium 22
<b>NT3</b>	terbium 160	<b>NT3</b>	vanadium 55	<b>NT3</b>	aluminium 23
<b>NT3</b>	terbium 161	<b>NT3</b>	vanadium 56	<b>NT3</b>	aluminium 24
<b>NT3</b>	terbium 162	<b>NT3</b>	vanadium 57	<b>NT3</b>	aluminium 25
<b>NT3</b>	terbium 163	<b>NT3</b>	vanadium 58	<b>NT3</b>	aluminium 26
<b>NT3</b>	terbium 164	<b>NT3</b>	vanadium 61	<b>NT3</b>	americium 235
<b>NT3</b>	terbium 165	<b>NT3</b>	vanadium 62	<b>NT3</b>	americium 236
<b>NT3</b>	terbium 166	<b>NT3</b>	vanadium 63	<b>NT3</b>	antimony 104
<b>NT3</b>	terbium 167	<b>NT3</b>	vanadium 64	<b>NT3</b>	antimony 105
<b>NT3</b>	terbium 168	<b>NT3</b>	vanadium 65	<b>NT3</b>	antimony 108
<b>NT3</b>	terbium 169	<b>NT3</b>	vanadium 66	<b>NT3</b>	antimony 110
<b>NT3</b>	terbium 170	<b>NT3</b>	xenon 133	<b>NT3</b>	antimony 111
<b>NT3</b>	terbium 171	<b>NT3</b>	xenon 135	<b>NT3</b>	antimony 112
<b>NT3</b>	thallium 204	<b>NT3</b>	xenon 137	<b>NT3</b>	antimony 113
<b>NT3</b>	thallium 206	<b>NT3</b>	xenon 138	<b>NT3</b>	antimony 114
<b>NT3</b>	thallium 207	<b>NT3</b>	xenon 139	<b>NT3</b>	antimony 115
<b>NT3</b>	thallium 208	<b>NT3</b>	xenon 140	<b>NT3</b>	antimony 116
<b>NT3</b>	thallium 209	<b>NT3</b>	xenon 141	<b>NT3</b>	antimony 117
<b>NT3</b>	thallium 210	<b>NT3</b>	xenon 142	<b>NT3</b>	antimony 118
<b>NT3</b>	thallium 211	<b>NT3</b>	xenon 143	<b>NT3</b>	antimony 120
<b>NT3</b>	thallium 212	<b>NT3</b>	xenon 144	<b>NT3</b>	antimony 122
<b>NT3</b>	thorium 231	<b>NT3</b>	xenon 145	<b>NT3</b>	argon 31
<b>NT3</b>	thorium 233	<b>NT3</b>	xenon 147	<b>NT3</b>	argon 32
<b>NT3</b>	thorium 234	<b>NT3</b>	ytterbium 175	<b>NT3</b>	argon 33
<b>NT3</b>	thorium 235	<b>NT3</b>	ytterbium 177	<b>NT3</b>	argon 34
<b>NT3</b>	thorium 236	<b>NT3</b>	ytterbium 178	<b>NT3</b>	argon 35
<b>NT3</b>	thorium 237	<b>NT3</b>	ytterbium 179	<b>NT3</b>	arsenic 66
<b>NT3</b>	thulium 168	<b>NT3</b>	ytterbium 180	<b>NT3</b>	arsenic 67
<b>NT3</b>	thulium 170	<b>NT3</b>	ytterbium 181	<b>NT3</b>	arsenic 68
<b>NT3</b>	thulium 171	<b>NT3</b>	yttrium 100	<b>NT3</b>	arsenic 69
<b>NT3</b>	thulium 172	<b>NT3</b>	yttrium 101	<b>NT3</b>	arsenic 70
<b>NT3</b>	thulium 173	<b>NT3</b>	yttrium 102	<b>NT3</b>	arsenic 71
<b>NT3</b>	thulium 174	<b>NT3</b>	yttrium 103	<b>NT3</b>	arsenic 72
<b>NT3</b>	thulium 175	<b>NT3</b>	yttrium 104	<b>NT3</b>	arsenic 74
<b>NT3</b>	thulium 176	<b>NT3</b>	yttrium 105	<b>NT3</b>	astatine 205
<b>NT3</b>	thulium 177	<b>NT3</b>	yttrium 106	<b>NT3</b>	astatine 206
<b>NT3</b>	thulium 178	<b>NT3</b>	yttrium 107	<b>NT3</b>	barium 114
<b>NT3</b>	thulium 179	<b>NT3</b>	yttrium 108	<b>NT3</b>	barium 115
<b>NT3</b>	tin 121	<b>NT3</b>	yttrium 90	<b>NT3</b>	barium 116
<b>NT3</b>	tin 123	<b>NT3</b>	yttrium 91	<b>NT3</b>	barium 117
<b>NT3</b>	tin 125	<b>NT3</b>	yttrium 92	<b>NT3</b>	barium 118
<b>NT3</b>	tin 126	<b>NT3</b>	yttrium 93	<b>NT3</b>	barium 119

NT3	barium 120	NT3	chlorine 33	NT3	gadolinium 147
NT3	barium 121	NT3	chlorine 34	NT3	gallium 60
NT3	barium 122	NT3	chlorine 36	NT3	gallium 62
NT3	barium 123	NT3	chromium 42	NT3	gallium 63
NT3	barium 124	NT3	chromium 45	NT3	gallium 64
NT3	barium 125	NT3	chromium 46	NT3	gallium 65
NT3	barium 126	NT3	chromium 47	NT3	gallium 66
NT3	barium 127	NT3	chromium 49	NT3	gallium 68
NT3	barium 129	NT3	cobalt 52	NT3	germanium 61
NT3	berkelium 236	NT3	cobalt 53	NT3	germanium 63
NT3	berkelium 238	NT3	cobalt 54	NT3	germanium 64
NT3	bismuth 194	NT3	cobalt 55	NT3	germanium 65
NT3	bismuth 197	NT3	cobalt 56	NT3	germanium 66
NT3	bismuth 200	NT3	cobalt 58	NT3	germanium 67
NT3	bismuth 202	NT3	copper 56	NT3	germanium 69
NT3	bismuth 203	NT3	copper 57	NT3	gold 182
NT3	bismuth 205	NT3	copper 58	NT3	gold 184
NT3	bismuth 206	NT3	copper 59	NT3	gold 185
NT3	bismuth 207	NT3	copper 60	NT3	gold 186
NT3	boron 8	NT3	copper 61	NT3	gold 187
NT3	bromine 69	NT3	copper 62	NT3	gold 188
NT3	bromine 70	NT3	copper 64	NT3	gold 189
NT3	bromine 71	NT3	curium 232	NT3	gold 190
NT3	bromine 72	NT3	dysprosium 140	NT3	gold 192
NT3	bromine 73	NT3	dysprosium 145	NT3	gold 194
NT3	bromine 74	NT3	dysprosium 146	NT3	gold 196
NT3	bromine 75	NT3	dysprosium 147	NT3	hafnium 154
NT3	bromine 76	NT3	dysprosium 148	NT3	hafnium 155
NT3	bromine 77	NT3	dysprosium 149	NT3	hafnium 162
NT3	bromine 78	NT3	dysprosium 150	NT3	hafnium 163
NT3	bromine 80	NT3	dysprosium 151	NT3	hafnium 166
NT3	cadmium 100	NT3	dysprosium 152	NT3	hafnium 167
NT3	cadmium 101	NT3	dysprosium 153	NT3	hafnium 168
NT3	cadmium 102	NT3	dysprosium 155	NT3	hafnium 169
NT3	cadmium 103	NT3	dysprosium 157	NT3	holmium 145
NT3	cadmium 104	NT3	erbium 145	NT3	holmium 146
NT3	cadmium 105	NT3	erbium 146	NT3	holmium 147
NT3	cadmium 107	NT3	erbium 147	NT3	holmium 148
NT3	cadmium 97	NT3	erbium 148	NT3	holmium 149
NT3	cadmium 98	NT3	erbium 149	NT3	holmium 150
NT3	cadmium 99	NT3	erbium 150	NT3	holmium 151
NT3	calcium 36	NT3	erbium 151	NT3	holmium 152
NT3	calcium 37	NT3	erbium 152	NT3	holmium 153
NT3	calcium 38	NT3	erbium 153	NT3	holmium 154
NT3	calcium 39	NT3	erbium 154	NT3	holmium 155
NT3	carbon 10	NT3	erbium 155	NT3	holmium 156
NT3	carbon 11	NT3	erbium 156	NT3	holmium 157
NT3	carbon 9	NT3	erbium 157	NT3	holmium 158
NT3	cerium 121	NT3	erbium 158	NT3	holmium 160
NT3	cerium 125	NT3	erbium 159	NT3	holmium 162
NT3	cerium 127	NT3	erbium 161	NT3	indium 100
NT3	cerium 128	NT3	erbium 163	NT3	indium 103
NT3	cerium 129	NT3	europium 132	NT3	indium 104
NT3	cerium 130	NT3	europium 134	NT3	indium 105
NT3	cerium 131	NT3	europium 135	NT3	indium 106
NT3	cerium 132	NT3	europium 136	NT3	indium 107
NT3	cerium 133	NT3	europium 138	NT3	indium 108
NT3	cerium 135	NT3	europium 139	NT3	indium 109
NT3	cerium 137	NT3	europium 140	NT3	indium 110
NT3	cesium 114	NT3	europium 141	NT3	indium 112
NT3	cesium 115	NT3	europium 142	NT3	indium 114
NT3	cesium 116	NT3	europium 143	NT3	iodine 110
NT3	cesium 117	NT3	europium 144	NT3	iodine 111
NT3	cesium 118	NT3	europium 145	NT3	iodine 112
NT3	cesium 119	NT3	europium 146	NT3	iodine 113
NT3	cesium 120	NT3	europium 147	NT3	iodine 114
NT3	cesium 121	NT3	europium 148	NT3	iodine 115
NT3	cesium 122	NT3	europium 150	NT3	iodine 116
NT3	cesium 123	NT3	europium 152	NT3	iodine 117
NT3	cesium 124	NT3	fluorine 17	NT3	iodine 118
NT3	cesium 125	NT3	fluorine 18	NT3	iodine 119
NT3	cesium 126	NT3	gadolinium 135	NT3	iodine 120
NT3	cesium 127	NT3	gadolinium 137	NT3	iodine 121
NT3	cesium 128	NT3	gadolinium 139	NT3	iodine 122
NT3	cesium 129	NT3	gadolinium 142	NT3	iodine 124
NT3	cesium 130	NT3	gadolinium 143	NT3	iodine 126
NT3	cesium 132	NT3	gadolinium 144	NT3	iodine 128
NT3	chlorine 31	NT3	gadolinium 145	NT3	iridium 178
NT3	chlorine 32	NT3	gadolinium 146	NT3	iridium 179

<b>NT3</b> iridium 180	<b>NT3</b> mercury 193	<b>NT3</b> polonium 205
<b>NT3</b> iridium 181	<b>NT3</b> molybdenum 86	<b>NT3</b> polonium 207
<b>NT3</b> iridium 182	<b>NT3</b> molybdenum 87	<b>NT3</b> potassium 35
<b>NT3</b> iridium 183	<b>NT3</b> molybdenum 88	<b>NT3</b> potassium 36
<b>NT3</b> iridium 184	<b>NT3</b> molybdenum 89	<b>NT3</b> potassium 37
<b>NT3</b> iridium 185	<b>NT3</b> molybdenum 90	<b>NT3</b> potassium 38
<b>NT3</b> iridium 186	<b>NT3</b> molybdenum 91	<b>NT3</b> potassium 40
<b>NT3</b> iridium 188	<b>NT3</b> neodymium 127	<b>NT3</b> praseodymium 126
<b>NT3</b> iridium 190	<b>NT3</b> neodymium 128	<b>NT3</b> praseodymium 127
<b>NT3</b> iron 45	<b>NT3</b> neodymium 129	<b>NT3</b> praseodymium 129
<b>NT3</b> iron 46	<b>NT3</b> neodymium 130	<b>NT3</b> praseodymium 130
<b>NT3</b> iron 49	<b>NT3</b> neodymium 131	<b>NT3</b> praseodymium 131
<b>NT3</b> iron 51	<b>NT3</b> neodymium 132	<b>NT3</b> praseodymium 132
<b>NT3</b> iron 52	<b>NT3</b> neodymium 133	<b>NT3</b> praseodymium 133
<b>NT3</b> iron 53	<b>NT3</b> neodymium 134	<b>NT3</b> praseodymium 134
<b>NT3</b> krypton 69	<b>NT3</b> neodymium 135	<b>NT3</b> praseodymium 135
<b>NT3</b> krypton 71	<b>NT3</b> neodymium 136	<b>NT3</b> praseodymium 136
<b>NT3</b> krypton 72	<b>NT3</b> neodymium 137	<b>NT3</b> praseodymium 137
<b>NT3</b> krypton 73	<b>NT3</b> neodymium 138	<b>NT3</b> praseodymium 138
<b>NT3</b> krypton 74	<b>NT3</b> neodymium 139	<b>NT3</b> praseodymium 139
<b>NT3</b> krypton 75	<b>NT3</b> neodymium 141	<b>NT3</b> praseodymium 140
<b>NT3</b> krypton 77	<b>NT3</b> neon 17	<b>NT3</b> promethium 132
<b>NT3</b> krypton 79	<b>NT3</b> neon 18	<b>NT3</b> promethium 133
<b>NT3</b> lanthanum 121	<b>NT3</b> neon 19	<b>NT3</b> promethium 134
<b>NT3</b> lanthanum 125	<b>NT3</b> neptunium 234	<b>NT3</b> promethium 135
<b>NT3</b> lanthanum 126	<b>NT3</b> nickel 49	<b>NT3</b> promethium 136
<b>NT3</b> lanthanum 127	<b>NT3</b> nickel 50	<b>NT3</b> promethium 137
<b>NT3</b> lanthanum 128	<b>NT3</b> nickel 52	<b>NT3</b> promethium 138
<b>NT3</b> lanthanum 129	<b>NT3</b> nickel 53	<b>NT3</b> promethium 139
<b>NT3</b> lanthanum 130	<b>NT3</b> nickel 55	<b>NT3</b> promethium 140
<b>NT3</b> lanthanum 131	<b>NT3</b> nickel 56	<b>NT3</b> promethium 141
<b>NT3</b> lanthanum 132	<b>NT3</b> nickel 57	<b>NT3</b> promethium 142
<b>NT3</b> lanthanum 133	<b>NT3</b> niobium 83	<b>NT3</b> protactinium 230
<b>NT3</b> lanthanum 134	<b>NT3</b> niobium 84	<b>NT3</b> radon 207
<b>NT3</b> lanthanum 135	<b>NT3</b> niobium 85	<b>NT3</b> radon 209
<b>NT3</b> lanthanum 136	<b>NT3</b> niobium 87	<b>NT3</b> rhenium 165
<b>NT3</b> lead 187	<b>NT3</b> niobium 88	<b>NT3</b> rhenium 170
<b>NT3</b> lead 188	<b>NT3</b> niobium 89	<b>NT3</b> rhenium 171
<b>NT3</b> lead 189	<b>NT3</b> niobium 90	<b>NT3</b> rhenium 172
<b>NT3</b> lead 190	<b>NT3</b> niobium 92	<b>NT3</b> rhenium 174
<b>NT3</b> lead 191	<b>NT3</b> nitrogen 12	<b>NT3</b> rhenium 175
<b>NT3</b> lead 192	<b>NT3</b> nitrogen 13	<b>NT3</b> rhenium 176
<b>NT3</b> lead 193	<b>NT3</b> osmium 172	<b>NT3</b> rhenium 177
<b>NT3</b> lead 194	<b>NT3</b> osmium 173	<b>NT3</b> rhenium 178
<b>NT3</b> lead 195	<b>NT3</b> osmium 174	<b>NT3</b> rhenium 179
<b>NT3</b> lead 199	<b>NT3</b> osmium 175	<b>NT3</b> rhenium 180
<b>NT3</b> lead 201	<b>NT3</b> osmium 176	<b>NT3</b> rhenium 182
<b>NT3</b> lutetium 153	<b>NT3</b> osmium 177	<b>NT3</b> rhodium 100
<b>NT3</b> lutetium 161	<b>NT3</b> osmium 178	<b>NT3</b> rhodium 102
<b>NT3</b> lutetium 162	<b>NT3</b> osmium 179	<b>NT3</b> rhodium 91
<b>NT3</b> lutetium 163	<b>NT3</b> osmium 181	<b>NT3</b> rhodium 92
<b>NT3</b> lutetium 164	<b>NT3</b> osmium 183	<b>NT3</b> rhodium 93
<b>NT3</b> lutetium 165	<b>NT3</b> oxygen 13	<b>NT3</b> rhodium 94
<b>NT3</b> lutetium 166	<b>NT3</b> oxygen 14	<b>NT3</b> rhodium 95
<b>NT3</b> lutetium 167	<b>NT3</b> oxygen 15	<b>NT3</b> rhodium 96
<b>NT3</b> lutetium 168	<b>NT3</b> palladium 101	<b>NT3</b> rhodium 97
<b>NT3</b> lutetium 169	<b>NT3</b> palladium 93	<b>NT3</b> rhodium 98
<b>NT3</b> lutetium 170	<b>NT3</b> palladium 94	<b>NT3</b> rhodium 99
<b>NT3</b> lutetium 171	<b>NT3</b> palladium 95	<b>NT3</b> rubidium 73
<b>NT3</b> lutetium 174	<b>NT3</b> palladium 97	<b>NT3</b> rubidium 74
<b>NT3</b> magnesium 20	<b>NT3</b> palladium 98	<b>NT3</b> rubidium 75
<b>NT3</b> magnesium 21	<b>NT3</b> palladium 99	<b>NT3</b> rubidium 76
<b>NT3</b> magnesium 22	<b>NT3</b> phosphorus 26	<b>NT3</b> rubidium 77
<b>NT3</b> magnesium 23	<b>NT3</b> phosphorus 28	<b>NT3</b> rubidium 78
<b>NT3</b> manganese 48	<b>NT3</b> phosphorus 29	<b>NT3</b> rubidium 79
<b>NT3</b> manganese 49	<b>NT3</b> phosphorus 30	<b>NT3</b> rubidium 80
<b>NT3</b> manganese 50	<b>NT3</b> platinum 174	<b>NT3</b> rubidium 81
<b>NT3</b> manganese 51	<b>NT3</b> platinum 182	<b>NT3</b> rubidium 82
<b>NT3</b> manganese 52	<b>NT3</b> platinum 183	<b>NT3</b> rubidium 84
<b>NT3</b> mercury 179	<b>NT3</b> platinum 184	<b>NT3</b> ruthenium 88
<b>NT3</b> mercury 181	<b>NT3</b> platinum 185	<b>NT3</b> ruthenium 89
<b>NT3</b> mercury 182	<b>NT3</b> platinum 187	<b>NT3</b> ruthenium 92
<b>NT3</b> mercury 183	<b>NT3</b> platinum 189	<b>NT3</b> ruthenium 93
<b>NT3</b> mercury 184	<b>NT3</b> polonium 198	<b>NT3</b> ruthenium 95
<b>NT3</b> mercury 185	<b>NT3</b> polonium 199	<b>NT3</b> samarium 132
<b>NT3</b> mercury 186	<b>NT3</b> polonium 200	<b>NT3</b> samarium 133
<b>NT3</b> mercury 187	<b>NT3</b> polonium 201	<b>NT3</b> samarium 134
<b>NT3</b> mercury 188	<b>NT3</b> polonium 202	<b>NT3</b> samarium 135
<b>NT3</b> mercury 191	<b>NT3</b> polonium 203	<b>NT3</b> samarium 136

NT3	samarium 137	NT3	tellurium 113	NT3	vanadium 46
NT3	samarium 138	NT3	tellurium 114	NT3	vanadium 47
NT3	samarium 139	NT3	tellurium 115	NT3	vanadium 48
NT3	samarium 140	NT3	tellurium 116	NT3	xenon 110
NT3	samarium 141	NT3	tellurium 117	NT3	xenon 111
NT3	samarium 142	NT3	tellurium 118	NT3	xenon 112
NT3	samarium 143	NT3	tellurium 119	NT3	xenon 113
NT3	scandium 40	NT3	tellurium 121	NT3	xenon 114
NT3	scandium 41	NT3	terbium 139	NT3	xenon 115
NT3	scandium 42	NT3	terbium 141	NT3	xenon 116
NT3	scandium 43	NT3	terbium 143	NT3	xenon 117
NT3	scandium 44	NT3	terbium 144	NT3	xenon 118
NT3	selenium 65	NT3	terbium 145	NT3	xenon 119
NT3	selenium 67	NT3	terbium 146	NT3	xenon 120
NT3	selenium 68	NT3	terbium 147	NT3	xenon 121
NT3	selenium 69	NT3	terbium 148	NT3	xenon 122
NT3	selenium 70	NT3	terbium 149	NT3	xenon 123
NT3	selenium 71	NT3	terbium 150	NT3	xenon 125
NT3	selenium 73	NT3	terbium 151	NT3	ytterbium 153
NT3	silicon 24	NT3	terbium 152	NT3	ytterbium 158
NT3	silicon 25	NT3	terbium 153	NT3	ytterbium 160
NT3	silicon 26	NT3	terbium 154	NT3	ytterbium 161
NT3	silicon 27	NT3	terbium 156	NT3	ytterbium 162
NT3	silver 100	NT3	thallium 182	NT3	ytterbium 163
NT3	silver 101	NT3	thallium 184	NT3	ytterbium 165
NT3	silver 102	NT3	thallium 186	NT3	ytterbium 167
NT3	silver 103	NT3	thallium 188	NT3	yttrium 79
NT3	silver 104	NT3	thallium 189	NT3	yttrium 80
NT3	silver 105	NT3	thallium 190	NT3	yttrium 81
NT3	silver 106	NT3	thallium 191	NT3	yttrium 82
NT3	silver 108	NT3	thallium 192	NT3	yttrium 83
NT3	silver 94	NT3	thallium 193	NT3	yttrium 84
NT3	silver 96	NT3	thallium 194	NT3	yttrium 85
NT3	silver 98	NT3	thallium 195	NT3	yttrium 86
NT3	silver 99	NT3	thallium 196	NT3	yttrium 87
NT3	sodium 20	NT3	thallium 197	NT3	yttrium 88
NT3	sodium 21	NT3	thallium 198	NT3	zinc 57
NT3	sodium 22	NT3	thallium 200	NT3	zinc 59
NT3	strontium 75	NT3	thulium 148	NT3	zinc 60
NT3	strontium 76	NT3	thulium 156	NT3	zinc 61
NT3	strontium 77	NT3	thulium 157	NT3	zinc 62
NT3	strontium 78	NT3	thulium 158	NT3	zinc 63
NT3	strontium 79	NT3	thulium 159	NT3	zinc 65
NT3	strontium 80	NT3	thulium 160	NT3	zirconium 81
NT3	strontium 81	NT3	thulium 161	NT3	zirconium 82
NT3	strontium 83	NT3	thulium 162	NT3	zirconium 83
NT3	sulfur 28	NT3	thulium 163	NT3	zirconium 84
NT3	sulfur 29	NT3	thulium 164	NT3	zirconium 85
NT3	sulfur 30	NT3	thulium 165	NT3	zirconium 87
NT3	sulfur 31	NT3	thulium 166	NT3	zirconium 89
NT3	tantalum 165	NT3	tin 100	NT2	electron capture radioisotopes
NT3	tantalum 166	NT3	tin 102	NT3	actinium 214
NT3	tantalum 167	NT3	tin 103	NT3	actinium 215
NT3	tantalum 168	NT3	tin 105	NT3	actinium 222
NT3	tantalum 169	NT3	tin 106	NT3	actinium 223
NT3	tantalum 170	NT3	tin 107	NT3	actinium 224
NT3	tantalum 171	NT3	tin 108	NT3	actinium 226
NT3	tantalum 172	NT3	tin 109	NT3	americium 231
NT3	tantalum 173	NT3	tin 111	NT3	americium 232
NT3	tantalum 174	NT3	titanium 39	NT3	americium 233
NT3	tantalum 175	NT3	titanium 40	NT3	americium 234
NT3	tantalum 176	NT3	titanium 41	NT3	americium 235
NT3	tantalum 177	NT3	titanium 42	NT3	americium 236
NT3	tantalum 178	NT3	titanium 43	NT3	americium 237
NT3	technetium 88	NT3	titanium 45	NT3	americium 238
NT3	technetium 89	NT3	tungsten 157	NT3	americium 239
NT3	technetium 90	NT3	tungsten 168	NT3	americium 240
NT3	technetium 91	NT3	tungsten 169	NT3	americium 242
NT3	technetium 92	NT3	tungsten 170	NT3	americium 244
NT3	technetium 93	NT3	tungsten 171	NT3	antimony 103
NT3	technetium 94	NT3	tungsten 172	NT3	antimony 107
NT3	technetium 95	NT3	tungsten 173	NT3	antimony 109
NT3	technetium 96	NT3	tungsten 175	NT3	antimony 110
NT3	tellurium 107	NT3	tungsten 177	NT3	antimony 111
NT3	tellurium 108	NT3	tungsten 190	NT3	antimony 112
NT3	tellurium 109	NT3	vanadium 42	NT3	antimony 113
NT3	tellurium 110	NT3	vanadium 43	NT3	antimony 114
NT3	tellurium 111	NT3	vanadium 44	NT3	antimony 115
NT3	tellurium 112	NT3	vanadium 45	NT3	antimony 116

<b>NT3</b> antimony 117	<b>NT3</b> bromine 76	<b>NT3</b> dubnium 258
<b>NT3</b> antimony 118	<b>NT3</b> bromine 77	<b>NT3</b> dysprosium 138
<b>NT3</b> antimony 119	<b>NT3</b> bromine 78	<b>NT3</b> dysprosium 139
<b>NT3</b> antimony 120	<b>NT3</b> bromine 80	<b>NT3</b> dysprosium 140
<b>NT3</b> antimony 122	<b>NT3</b> cadmium 100	<b>NT3</b> dysprosium 141
<b>NT3</b> argon 37	<b>NT3</b> cadmium 101	<b>NT3</b> dysprosium 143
<b>NT3</b> arsenic 67	<b>NT3</b> cadmium 102	<b>NT3</b> dysprosium 144
<b>NT3</b> arsenic 70	<b>NT3</b> cadmium 103	<b>NT3</b> dysprosium 145
<b>NT3</b> arsenic 71	<b>NT3</b> cadmium 104	<b>NT3</b> dysprosium 147
<b>NT3</b> arsenic 72	<b>NT3</b> cadmium 105	<b>NT3</b> dysprosium 148
<b>NT3</b> arsenic 73	<b>NT3</b> cadmium 107	<b>NT3</b> dysprosium 149
<b>NT3</b> arsenic 74	<b>NT3</b> cadmium 109	<b>NT3</b> dysprosium 150
<b>NT3</b> astatine 195	<b>NT3</b> cadmium 96	<b>NT3</b> dysprosium 151
<b>NT3</b> astatine 197	<b>NT3</b> cadmium 97	<b>NT3</b> dysprosium 152
<b>NT3</b> astatine 199	<b>NT3</b> calcium 41	<b>NT3</b> dysprosium 153
<b>NT3</b> astatine 200	<b>NT3</b> californium 241	<b>NT3</b> dysprosium 155
<b>NT3</b> astatine 201	<b>NT3</b> californium 243	<b>NT3</b> dysprosium 157
<b>NT3</b> astatine 202	<b>NT3</b> californium 245	<b>NT3</b> dysprosium 159
<b>NT3</b> astatine 203	<b>NT3</b> californium 247	<b>NT3</b> einsteinium 240
<b>NT3</b> astatine 204	<b>NT3</b> cerium 119	<b>NT3</b> einsteinium 241
<b>NT3</b> astatine 205	<b>NT3</b> cerium 120	<b>NT3</b> einsteinium 242
<b>NT3</b> astatine 206	<b>NT3</b> cerium 121	<b>NT3</b> einsteinium 244
<b>NT3</b> astatine 207	<b>NT3</b> cerium 122	<b>NT3</b> einsteinium 245
<b>NT3</b> astatine 208	<b>NT3</b> cerium 123	<b>NT3</b> einsteinium 246
<b>NT3</b> astatine 209	<b>NT3</b> cerium 126	<b>NT3</b> einsteinium 247
<b>NT3</b> astatine 210	<b>NT3</b> cerium 127	<b>NT3</b> einsteinium 248
<b>NT3</b> astatine 211	<b>NT3</b> cerium 128	<b>NT3</b> einsteinium 249
<b>NT3</b> barium 117	<b>NT3</b> cerium 129	<b>NT3</b> einsteinium 250
<b>NT3</b> barium 119	<b>NT3</b> cerium 130	<b>NT3</b> einsteinium 251
<b>NT3</b> barium 120	<b>NT3</b> cerium 131	<b>NT3</b> einsteinium 252
<b>NT3</b> barium 121	<b>NT3</b> cerium 132	<b>NT3</b> einsteinium 254
<b>NT3</b> barium 122	<b>NT3</b> cerium 133	<b>NT3</b> erbium 143
<b>NT3</b> barium 123	<b>NT3</b> cerium 134	<b>NT3</b> erbium 144
<b>NT3</b> barium 124	<b>NT3</b> cerium 135	<b>NT3</b> erbium 146
<b>NT3</b> barium 125	<b>NT3</b> cerium 137	<b>NT3</b> erbium 147
<b>NT3</b> barium 126	<b>NT3</b> cerium 139	<b>NT3</b> erbium 149
<b>NT3</b> barium 127	<b>NT3</b> cesium 114	<b>NT3</b> erbium 150
<b>NT3</b> barium 128	<b>NT3</b> cesium 115	<b>NT3</b> erbium 151
<b>NT3</b> barium 129	<b>NT3</b> cesium 116	<b>NT3</b> erbium 152
<b>NT3</b> barium 131	<b>NT3</b> cesium 117	<b>NT3</b> erbium 153
<b>NT3</b> barium 133	<b>NT3</b> cesium 118	<b>NT3</b> erbium 154
<b>NT3</b> berkelium 235	<b>NT3</b> cesium 119	<b>NT3</b> erbium 155
<b>NT3</b> berkelium 236	<b>NT3</b> cesium 120	<b>NT3</b> erbium 156
<b>NT3</b> berkelium 237	<b>NT3</b> cesium 121	<b>NT3</b> erbium 157
<b>NT3</b> berkelium 238	<b>NT3</b> cesium 122	<b>NT3</b> erbium 158
<b>NT3</b> berkelium 239	<b>NT3</b> cesium 123	<b>NT3</b> erbium 159
<b>NT3</b> berkelium 240	<b>NT3</b> cesium 124	<b>NT3</b> erbium 160
<b>NT3</b> berkelium 242	<b>NT3</b> cesium 125	<b>NT3</b> erbium 161
<b>NT3</b> berkelium 243	<b>NT3</b> cesium 126	<b>NT3</b> erbium 163
<b>NT3</b> berkelium 244	<b>NT3</b> cesium 127	<b>NT3</b> erbium 165
<b>NT3</b> berkelium 245	<b>NT3</b> cesium 128	<b>NT3</b> europium 132
<b>NT3</b> berkelium 246	<b>NT3</b> cesium 129	<b>NT3</b> europium 133
<b>NT3</b> berkelium 248	<b>NT3</b> cesium 130	<b>NT3</b> europium 139
<b>NT3</b> beryllium 7	<b>NT3</b> cesium 131	<b>NT3</b> europium 140
<b>NT3</b> bismuth 190	<b>NT3</b> cesium 132	<b>NT3</b> europium 141
<b>NT3</b> bismuth 191	<b>NT3</b> cesium 134	<b>NT3</b> europium 142
<b>NT3</b> bismuth 192	<b>NT3</b> chlorine 36	<b>NT3</b> europium 143
<b>NT3</b> bismuth 193	<b>NT3</b> chromium 48	<b>NT3</b> europium 144
<b>NT3</b> bismuth 194	<b>NT3</b> chromium 49	<b>NT3</b> europium 145
<b>NT3</b> bismuth 195	<b>NT3</b> chromium 51	<b>NT3</b> europium 146
<b>NT3</b> bismuth 196	<b>NT3</b> cobalt 49	<b>NT3</b> europium 147
<b>NT3</b> bismuth 197	<b>NT3</b> cobalt 51	<b>NT3</b> europium 148
<b>NT3</b> bismuth 198	<b>NT3</b> cobalt 55	<b>NT3</b> europium 149
<b>NT3</b> bismuth 199	<b>NT3</b> cobalt 56	<b>NT3</b> europium 150
<b>NT3</b> bismuth 200	<b>NT3</b> cobalt 57	<b>NT3</b> europium 152
<b>NT3</b> bismuth 201	<b>NT3</b> cobalt 58	<b>NT3</b> europium 154
<b>NT3</b> bismuth 202	<b>NT3</b> copper 55	<b>NT3</b> fermium 247
<b>NT3</b> bismuth 203	<b>NT3</b> copper 58	<b>NT3</b> fermium 249
<b>NT3</b> bismuth 204	<b>NT3</b> copper 60	<b>NT3</b> fermium 251
<b>NT3</b> bismuth 205	<b>NT3</b> copper 61	<b>NT3</b> fermium 253
<b>NT3</b> bismuth 206	<b>NT3</b> copper 62	<b>NT3</b> francium 204
<b>NT3</b> bismuth 207	<b>NT3</b> copper 64	<b>NT3</b> francium 206
<b>NT3</b> bismuth 208	<b>NT3</b> curium 232	<b>NT3</b> francium 207
<b>NT3</b> bromine 67	<b>NT3</b> curium 233	<b>NT3</b> francium 208
<b>NT3</b> bromine 68	<b>NT3</b> curium 234	<b>NT3</b> francium 209
<b>NT3</b> bromine 71	<b>NT3</b> curium 235	<b>NT3</b> francium 210
<b>NT3</b> bromine 73	<b>NT3</b> curium 238	<b>NT3</b> francium 211
<b>NT3</b> bromine 74	<b>NT3</b> curium 239	<b>NT3</b> francium 212
<b>NT3</b> bromine 75	<b>NT3</b> curium 241	<b>NT3</b> francium 213

NT3 gadolinium 135	NT3 holmium 164	NT3 lanthanum 134
NT3 gadolinium 141	NT3 indium 102	NT3 lanthanum 135
NT3 gadolinium 143	NT3 indium 103	NT3 lanthanum 136
NT3 gadolinium 144	NT3 indium 104	NT3 lanthanum 137
NT3 gadolinium 145	NT3 indium 105	NT3 lanthanum 138
NT3 gadolinium 146	NT3 indium 106	NT3 lawrencium 251
NT3 gadolinium 147	NT3 indium 107	NT3 lawrencium 254
NT3 gadolinium 149	NT3 indium 108	NT3 lawrencium 255
NT3 gadolinium 151	NT3 indium 109	NT3 lawrencium 256
NT3 gadolinium 153	NT3 indium 110	NT3 lead 186
NT3 gallium 62	NT3 indium 111	NT3 lead 187
NT3 gallium 63	NT3 indium 112	NT3 lead 188
NT3 gallium 64	NT3 indium 114	NT3 lead 189
NT3 gallium 65	NT3 indium 97	NT3 lead 190
NT3 gallium 66	NT3 indium 98	NT3 lead 191
NT3 gallium 67	NT3 indium 99	NT3 lead 192
NT3 gallium 68	NT3 iodine 110	NT3 lead 193
NT3 gallium 70	NT3 iodine 111	NT3 lead 194
NT3 germanium 63	NT3 iodine 112	NT3 lead 195
NT3 germanium 64	NT3 iodine 113	NT3 lead 196
NT3 germanium 65	NT3 iodine 114	NT3 lead 197
NT3 germanium 66	NT3 iodine 115	NT3 lead 198
NT3 germanium 67	NT3 iodine 116	NT3 lead 199
NT3 germanium 68	NT3 iodine 117	NT3 lead 200
NT3 germanium 69	NT3 iodine 118	NT3 lead 201
NT3 germanium 71	NT3 iodine 119	NT3 lead 202
NT3 gold 180	NT3 iodine 120	NT3 lead 203
NT3 gold 181	NT3 iodine 121	NT3 lead 205
NT3 gold 182	NT3 iodine 122	NT3 lutetium 150
NT3 gold 183	NT3 iodine 123	NT3 lutetium 153
NT3 gold 184	NT3 iodine 124	NT3 lutetium 154
NT3 gold 185	NT3 iodine 125	NT3 lutetium 155
NT3 gold 186	NT3 iodine 126	NT3 lutetium 156
NT3 gold 187	NT3 iodine 128	NT3 lutetium 157
NT3 gold 188	NT3 iridium 178	NT3 lutetium 158
NT3 gold 189	NT3 iridium 179	NT3 lutetium 159
NT3 gold 190	NT3 iridium 180	NT3 lutetium 160
NT3 gold 191	NT3 iridium 181	NT3 lutetium 161
NT3 gold 192	NT3 iridium 182	NT3 lutetium 162
NT3 gold 193	NT3 iridium 183	NT3 lutetium 163
NT3 gold 194	NT3 iridium 184	NT3 lutetium 164
NT3 gold 195	NT3 iridium 185	NT3 lutetium 165
NT3 gold 196	NT3 iridium 186	NT3 lutetium 166
NT3 hafnium 154	NT3 iridium 187	NT3 lutetium 167
NT3 hafnium 155	NT3 iridium 188	NT3 lutetium 168
NT3 hafnium 157	NT3 iridium 189	NT3 lutetium 169
NT3 hafnium 158	NT3 iridium 190	NT3 lutetium 170
NT3 hafnium 159	NT3 iridium 192	NT3 lutetium 171
NT3 hafnium 160	NT3 iron 45	NT3 lutetium 172
NT3 hafnium 162	NT3 iron 52	NT3 lutetium 173
NT3 hafnium 163	NT3 iron 53	NT3 lutetium 174
NT3 hafnium 166	NT3 iron 55	NT3 manganese 51
NT3 hafnium 167	NT3 krypton 69	NT3 manganese 52
NT3 hafnium 168	NT3 krypton 71	NT3 manganese 53
NT3 hafnium 169	NT3 krypton 72	NT3 manganese 54
NT3 hafnium 170	NT3 krypton 73	NT3 mendelevium 245
NT3 hafnium 171	NT3 krypton 74	NT3 mendelevium 246
NT3 hafnium 172	NT3 krypton 75	NT3 mendelevium 248
NT3 hafnium 173	NT3 krypton 76	NT3 mendelevium 249
NT3 hafnium 175	NT3 krypton 77	NT3 mendelevium 250
NT3 holmium 142	NT3 krypton 79	NT3 mendelevium 251
NT3 holmium 143	NT3 krypton 81	NT3 mendelevium 252
NT3 holmium 145	NT3 lanthanum 117	NT3 mendelevium 253
NT3 holmium 147	NT3 lanthanum 118	NT3 mendelevium 254
NT3 holmium 149	NT3 lanthanum 119	NT3 mendelevium 255
NT3 holmium 150	NT3 lanthanum 120	NT3 mendelevium 256
NT3 holmium 151	NT3 lanthanum 121	NT3 mendelevium 257
NT3 holmium 152	NT3 lanthanum 122	NT3 mendelevium 258
NT3 holmium 153	NT3 lanthanum 123	NT3 mercury 177
NT3 holmium 154	NT3 lanthanum 124	NT3 mercury 178
NT3 holmium 155	NT3 lanthanum 125	NT3 mercury 179
NT3 holmium 156	NT3 lanthanum 126	NT3 mercury 180
NT3 holmium 157	NT3 lanthanum 127	NT3 mercury 181
NT3 holmium 158	NT3 lanthanum 128	NT3 mercury 182
NT3 holmium 159	NT3 lanthanum 129	NT3 mercury 183
NT3 holmium 160	NT3 lanthanum 130	NT3 mercury 184
NT3 holmium 161	NT3 lanthanum 131	NT3 mercury 185
NT3 holmium 162	NT3 lanthanum 132	NT3 mercury 186
NT3 holmium 163	NT3 lanthanum 133	NT3 mercury 187

NT3	mercury 188	NT3	palladium 92	NT3	promethium 144
NT3	mercury 189	NT3	palladium 94	NT3	promethium 145
NT3	mercury 190	NT3	palladium 95	NT3	promethium 146
NT3	mercury 191	NT3	palladium 96	NT3	protactinium 226
NT3	mercury 192	NT3	palladium 97	NT3	protactinium 227
NT3	mercury 193	NT3	palladium 98	NT3	protactinium 228
NT3	mercury 194	NT3	palladium 99	NT3	protactinium 229
NT3	mercury 195	NT3	platinum 173	NT3	protactinium 230
NT3	mercury 197	NT3	platinum 174	NT3	radium 213
NT3	molybdenum 83	NT3	platinum 175	NT3	radium 214
NT3	molybdenum 87	NT3	platinum 176	NT3	radon 198
NT3	molybdenum 88	NT3	platinum 177	NT3	radon 200
NT3	molybdenum 89	NT3	platinum 178	NT3	radon 201
NT3	molybdenum 90	NT3	platinum 179	NT3	radon 202
NT3	molybdenum 91	NT3	platinum 180	NT3	radon 203
NT3	molybdenum 93	NT3	platinum 181	NT3	radon 204
NT3	neodymium 125	NT3	platinum 182	NT3	radon 205
NT3	neodymium 126	NT3	platinum 183	NT3	radon 206
NT3	neodymium 129	NT3	platinum 184	NT3	radon 207
NT3	neodymium 130	NT3	platinum 185	NT3	radon 208
NT3	neodymium 132	NT3	platinum 186	NT3	radon 209
NT3	neodymium 133	NT3	platinum 187	NT3	radon 210
NT3	neodymium 134	NT3	platinum 188	NT3	radon 211
NT3	neodymium 135	NT3	platinum 189	NT3	rhenium 163
NT3	neodymium 136	NT3	platinum 191	NT3	rhenium 164
NT3	neodymium 137	NT3	platinum 193	NT3	rhenium 165
NT3	neodymium 138	NT3	plutonium 232	NT3	rhenium 168
NT3	neodymium 139	NT3	plutonium 233	NT3	rhenium 170
NT3	neodymium 140	NT3	plutonium 234	NT3	rhenium 171
NT3	neodymium 141	NT3	plutonium 235	NT3	rhenium 172
NT3	neptunium 230	NT3	plutonium 237	NT3	rhenium 173
NT3	neptunium 231	NT3	polonium 196	NT3	rhenium 174
NT3	neptunium 232	NT3	polonium 197	NT3	rhenium 175
NT3	neptunium 233	NT3	polonium 198	NT3	rhenium 176
NT3	neptunium 234	NT3	polonium 199	NT3	rhenium 177
NT3	neptunium 235	NT3	polonium 200	NT3	rhenium 178
NT3	neptunium 236	NT3	polonium 201	NT3	rhenium 179
NT3	nickel 48	NT3	polonium 202	NT3	rhenium 180
NT3	nickel 51	NT3	polonium 203	NT3	rhenium 181
NT3	nickel 56	NT3	polonium 204	NT3	rhenium 182
NT3	nickel 57	NT3	polonium 205	NT3	rhenium 183
NT3	nickel 59	NT3	polonium 206	NT3	rhenium 184
NT3	niobium 82	NT3	polonium 207	NT3	rhenium 186
NT3	niobium 84	NT3	polonium 208	NT3	rhodium 100
NT3	niobium 85	NT3	polonium 209	NT3	rhodium 101
NT3	niobium 86	NT3	potassium 40	NT3	rhodium 102
NT3	niobium 87	NT3	praseodymium 125	NT3	rhodium 104
NT3	niobium 88	NT3	praseodymium 127	NT3	rhodium 89
NT3	niobium 90	NT3	praseodymium 128	NT3	rhodium 90
NT3	niobium 91	NT3	praseodymium 129	NT3	rhodium 91
NT3	niobium 92	NT3	praseodymium 130	NT3	rhodium 92
NT3	nitrogen 13	NT3	praseodymium 132	NT3	rhodium 93
NT3	nobelium 253	NT3	praseodymium 133	NT3	rhodium 95
NT3	nobelium 254	NT3	praseodymium 134	NT3	rhodium 96
NT3	nobelium 255	NT3	praseodymium 135	NT3	rhodium 97
NT3	nobelium 259	NT3	praseodymium 136	NT3	rhodium 98
NT3	osmium 166	NT3	praseodymium 137	NT3	rhodium 99
NT3	osmium 167	NT3	praseodymium 138	NT3	rubidium 76
NT3	osmium 168	NT3	praseodymium 139	NT3	rubidium 77
NT3	osmium 169	NT3	praseodymium 140	NT3	rubidium 78
NT3	osmium 170	NT3	praseodymium 142	NT3	rubidium 79
NT3	osmium 171	NT3	promethium 126	NT3	rubidium 81
NT3	osmium 172	NT3	promethium 127	NT3	rubidium 82
NT3	osmium 173	NT3	promethium 128	NT3	rubidium 83
NT3	osmium 174	NT3	promethium 129	NT3	rubidium 84
NT3	osmium 175	NT3	promethium 130	NT3	rubidium 86
NT3	osmium 176	NT3	promethium 131	NT3	ruthenium 87
NT3	osmium 177	NT3	promethium 132	NT3	ruthenium 90
NT3	osmium 178	NT3	promethium 133	NT3	ruthenium 91
NT3	osmium 179	NT3	promethium 134	NT3	ruthenium 92
NT3	osmium 180	NT3	promethium 135	NT3	ruthenium 93
NT3	osmium 181	NT3	promethium 136	NT3	ruthenium 94
NT3	osmium 182	NT3	promethium 137	NT3	ruthenium 95
NT3	osmium 183	NT3	promethium 138	NT3	ruthenium 97
NT3	osmium 185	NT3	promethium 139	NT3	samarium 129
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NT3	palladium 101	NT3	promethium 141	NT3	samarium 132
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NT3	palladium 91	NT3	promethium 143	NT3	samarium 134



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NT3	zinc 56	NT2	erbium 169	NT2	platinum 195
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NT3	zinc 63	NT2	europium 147	NT2	polonium 206
NT3	zinc 65	NT2	europium 148	NT2	polonium 210
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NT3	zirconium 79	NT2	europium 156	NT2	promethium 143
NT3	zirconium 84	NT2	fermium 252	NT2	promethium 148
NT3	zirconium 85	NT2	fermium 253	NT2	promethium 149
NT3	zirconium 86	NT2	fermium 257	NT2	promethium 151
NT3	zirconium 87	NT2	gadolinium 146	NT2	protactinium 229
NT3	zirconium 88	NT2	gadolinium 147	NT2	protactinium 230
NT3	zirconium 89	NT2	gadolinium 149	NT2	protactinium 232
NT1	bone seekers	NT2	gadolinium 151	NT2	protactinium 233
NT1	days living radioisotopes	NT2	gadolinium 153	NT2	radium 223
NT2	actinium 225	NT2	gallium 67	NT2	radium 224
NT2	actinium 226	NT2	germanium 68	NT2	radium 225
NT2	americium 240	NT2	germanium 69	NT2	radon 222
NT2	antimony 119	NT2	germanium 71	NT2	rhenium 182
NT2	antimony 120	NT2	gold 194	NT2	rhenium 183
NT2	antimony 122	NT2	gold 195	NT2	rhenium 184
NT2	antimony 124	NT2	gold 196	NT2	rhenium 186
NT2	antimony 126	NT2	gold 198	NT2	rhenium 189
NT2	antimony 127	NT2	gold 199	NT2	rhodium 101
NT2	argon 37	NT2	hafnium 175	NT2	rhodium 102
NT2	arsenic 71	NT2	hafnium 179	NT2	rhodium 105
NT2	arsenic 72	NT2	hafnium 181	NT2	rhodium 99
NT2	arsenic 73	NT2	holmium 166	NT2	rubidium 83
NT2	arsenic 74	NT2	indium 111	NT2	rubidium 84
NT2	arsenic 76	NT2	indium 114	NT2	rubidium 86
NT2	arsenic 77	NT2	iodine 124	NT2	ruthenium 103
NT2	barium 128	NT2	iodine 125	NT2	ruthenium 97
NT2	barium 131	NT2	iodine 126	NT2	samarium 145
NT2	barium 133	NT2	iodine 131	NT2	samarium 153
NT2	barium 135	NT2	iridium 188	NT2	scandium 44
NT2	barium 140	NT2	iridium 189	NT2	scandium 46
NT2	berkelium 245	NT2	iridium 190	NT2	scandium 47
NT2	berkelium 246	NT2	iridium 192	NT2	scandium 48
NT2	berkelium 249	NT2	iridium 193	NT2	selenium 72
NT2	beryllium 7	NT2	iridium 194	NT2	selenium 75
NT2	bismuth 205	NT2	iron 59	NT2	silver 105
NT2	bismuth 206	NT2	krypton 79	NT2	silver 106
NT2	bismuth 210	NT2	lanthanum 140	NT2	silver 110
NT2	bromine 77	NT2	lead 203	NT2	silver 111
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NT2	calcium 45	NT2	lutetium 171	NT2	strontium 85
NT2	calcium 47	NT2	lutetium 172	NT2	strontium 89
NT2	californium 246	NT2	lutetium 174	NT2	sulfur 35
NT2	californium 248	NT2	lutetium 177	NT2	tantalum 177
NT2	californium 253	NT2	manganese 52	NT2	tantalum 182
NT2	californium 254	NT2	manganese 54	NT2	tantalum 183
NT2	cerium 134	NT2	mendelevium 258	NT2	technetium 95
NT2	cerium 137	NT2	mercury 195	NT2	technetium 96
NT2	cerium 139	NT2	mercury 197	NT2	technetium 97
NT2	cerium 141	NT2	mercury 203	NT2	tellurium 118
NT2	cerium 143	NT2	molybdenum 99	NT2	tellurium 119
NT2	cerium 144	NT2	neodymium 140	NT2	tellurium 121
NT2	cesium 129	NT2	neodymium 147	NT2	tellurium 123
NT2	cesium 131	NT2	neptunium 234	NT2	tellurium 125
NT2	cesium 132	NT2	neptunium 238	NT2	tellurium 127
NT2	cesium 136	NT2	neptunium 239	NT2	tellurium 129
NT2	chromium 51	NT2	nickel 56	NT2	tellurium 131
NT2	cobalt 56	NT2	nickel 57	NT2	tellurium 132
NT2	cobalt 57	NT2	nickel 66	NT2	terbium 153
NT2	cobalt 58	NT2	niobium 91	NT2	terbium 155
NT2	copper 67	NT2	niobium 92	NT2	terbium 156
NT2	curium 240	NT2	niobium 95	NT2	terbium 160
NT2	curium 241	NT2	osmium 185	NT2	terbium 161
NT2	curium 242	NT2	osmium 191	NT2	thallium 200
NT2	dubnium 268	NT2	osmium 193	NT2	thallium 201
NT2	dysprosium 159	NT2	palladium 100	NT2	thallium 202
NT2	dysprosium 166	NT2	palladium 103	NT2	thorium 227
NT2	einsteinium 251	NT2	phosphorus 32	NT2	thorium 231
NT2	einsteinium 253	NT2	phosphorus 33	NT2	thorium 234
NT2	einsteinium 254	NT2	platinum 188	NT2	thulium 165
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NT2	thulium 170	NT2	barium 139	NT2	hassium 276
NT2	thulium 172	NT2	berkelium 243	NT2	holmium 160
NT2	tin 113	NT2	berkelium 244	NT2	holmium 161
NT2	tin 117	NT2	berkelium 248	NT2	holmium 162
NT2	tin 119	NT2	berkelium 250	NT2	holmium 167
NT2	tin 121	NT2	bismuth 201	NT2	indium 109
NT2	tin 123	NT2	bismuth 202	NT2	indium 110
NT2	tin 125	NT2	bismuth 203	NT2	indium 113
NT2	tungsten 178	NT2	bismuth 204	NT2	indium 115
NT2	tungsten 181	NT2	bismuth 212	NT2	indium 117
NT2	tungsten 185	NT2	bohrium 273	NT2	iodine 120
NT2	tungsten 187	NT2	bohrium 274	NT2	iodine 121
NT2	tungsten 188	NT2	bromine 75	NT2	iodine 123
NT2	uranium 230	NT2	bromine 76	NT2	iodine 130
NT2	uranium 231	NT2	bromine 80	NT2	iodine 132
NT2	uranium 237	NT2	bromine 83	NT2	iodine 133
NT2	vanadium 48	NT2	cadmium 107	NT2	iodine 135
NT2	vanadium 49	NT2	cadmium 117	NT2	iridium 184
NT2	xenon 127	NT2	californium 247	NT2	iridium 185
NT2	xenon 129	NT2	californium 255	NT2	iridium 186
NT2	xenon 131	NT2	cerium 132	NT2	iridium 187
NT2	xenon 133	NT2	cerium 133	NT2	iridium 190
NT2	ytterbium 166	NT2	cerium 135	NT2	iridium 194
NT2	ytterbium 169	NT2	cerium 137	NT2	iridium 195
NT2	ytterbium 175	NT2	cesium 127	NT2	iridium 196
NT2	yttrium 87	NT2	cesium 134	NT2	iron 52
NT2	yttrium 88	NT2	chromium 48	NT2	krypton 76
NT2	yttrium 90	NT2	cobalt 55	NT2	krypton 77
NT2	yttrium 91	NT2	cobalt 58	NT2	krypton 83
NT2	zinc 65	NT2	cobalt 61	NT2	krypton 85
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NT2	carbon 14 decay radioisotopes	NT2	dysprosium 155	NT2	lead 200
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NT3	radium 224	NT2	einsteinium 249	NT2	lead 204
NT3	radium 226	NT2	einsteinium 250	NT2	lead 209
NT2	magnesium 28 decay radioisotopes	NT2	einsteinium 256	NT2	lead 212
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NT2	neon 24 decay radioisotopes	NT2	erbium 163	NT2	magnesium 28
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NT2	americium 237	NT2	gallium 66	NT2	neodymium 139
NT2	americium 238	NT2	gallium 68	NT2	neodymium 141
NT2	americium 239	NT2	gallium 72	NT2	neodymium 149
NT2	americium 242	NT2	gallium 73	NT2	neptunium 236
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NT2	americium 245	NT2	germanium 75	NT2	nickel 65
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NT2	argon 41	NT2	gold 196	NT2	osmium 182
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NT2	astatine 207	NT2	hafnium 170	NT2	osmium 189
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NT2	platinum 197	NT2	thulium 163	NT2	iodine 133
NT2	platinum 200	NT2	thulium 166	NT2	iridium 190
NT2	plutonium 234	NT2	thulium 173	NT2	iridium 191
NT2	plutonium 243	NT2	tin 110	NT2	iridium 192
NT2	plutonium 245	NT2	tin 127	NT2	iridium 193
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NT2	potassium 42	NT2	uranium 240	NT2	lead 202
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NT2	praseodymium 137	NT2	xenon 123	NT2	lutetium 170
NT2	praseodymium 138	NT2	xenon 125	NT2	lutetium 171
NT2	praseodymium 139	NT2	xenon 135	NT2	lutetium 172
NT2	praseodymium 142	NT2	ytterbium 164	NT2	lutetium 176
NT2	praseodymium 145	NT2	ytterbium 177	NT2	mercury 193
NT2	promethium 150	NT2	ytterbium 178	NT2	mercury 195
NT2	protactinium 228	NT2	yttrium 85	NT2	mercury 197
NT2	protactinium 234	NT2	yttrium 86	NT2	mercury 199
NT2	radium 230	NT2	yttrium 87	NT2	molybdenum 93
NT2	radon 210	NT2	yttrium 90	NT2	neodymium 147
NT2	radon 211	NT2	yttrium 92	NT2	neptunium 236
NT2	radon 224	NT2	yttrium 93	NT2	niobium 91
NT2	rhenium 181	NT2	zinc 62	NT2	niobium 93
NT2	rhenium 182	NT2	zinc 69	NT2	niobium 94
NT2	rhenium 188	NT2	zinc 71	NT2	osmium 180
NT2	rhenium 190	NT2	zirconium 86	NT2	osmium 189
NT2	rhodium 100	NT2	zirconium 87	NT2	osmium 190
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NT2	rhodium 99	NT1	internal conversion radioisotopes	NT2	osmium 194
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NT2	rubidium 82	NT2	antimony 119	NT2	palladium 112
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NT2	scandium 43	NT2	barium 131	NT2	plutonium 235
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NT2	scandium 73	NT2	barium 135	NT2	polonium 199
NT2	silicon 31	NT2	berkelium 243	NT2	polonium 201
NT2	silver 103	NT2	bromine 77	NT2	polonium 202
NT2	silver 104	NT2	bromine 80	NT2	polonium 203
NT2	silver 112	NT2	bromine 82	NT2	polonium 205
NT2	silver 113	NT2	cadmium 111	NT2	polonium 206
NT2	sodium 24	NT2	cadmium 113	NT2	polonium 207
NT2	strontium 80	NT2	californium 247	NT2	praseodymium 142
NT2	strontium 85	NT2	californium 250	NT2	praseodymium 145
NT2	strontium 87	NT2	cerium 133	NT2	radium 213
NT2	strontium 91	NT2	cerium 137	NT2	radium 225
NT2	strontium 92	NT2	cesium 123	NT2	radium 228
NT2	sulfur 38	NT2	cesium 134	NT2	radium 230
NT2	tantalum 173	NT2	cesium 138	NT2	radon 210
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NT2	tantalum 175	NT2	cobalt 60	NT2	rhenium 183
NT2	tantalum 176	NT2	dysprosium 159	NT2	rhenium 184
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NT2	technetium 95	NT2	gold 191	NT2	rhodium 105
NT2	technetium 99	NT2	gold 193	NT2	rhodium 96
NT2	tellurium 116	NT2	gold 195	NT2	rubidium 81
NT2	tellurium 117	NT2	gold 196	NT2	samarium 145
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NT2	tellurium 127	NT2	hafnium 178	NT2	scandium 46
NT2	tellurium 129	NT2	hafnium 179	NT2	selenium 79
NT2	terbium 147	NT2	hafnium 180	NT2	selenium 81
NT2	terbium 148	NT2	holmium 158	NT2	silver 103
NT2	terbium 149	NT2	holmium 160	NT2	silver 105
NT2	terbium 150	NT2	holmium 164	NT2	silver 107
NT2	terbium 151	NT2	indium 112	NT2	silver 109
NT2	terbium 152	NT2	indium 114	NT2	silver 111
NT2	terbium 154	NT2	indium 115	NT2	silver 99
NT2	terbium 156	NT2	indium 116	NT2	tantalum 182
NT2	thallium 195	NT2	indium 121	NT2	technetium 96
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NT2	terbium 158	NT2	dysprosium 149	NT2	krypton 86
NT2	thallium 198	NT2	dysprosium 165	NT2	lanthanum 132
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NT2	thulium 159	NT2	erbium 167	NT2	lead 197
NT2	thulium 161	NT2	europium 141	NT2	lead 199
NT2	tin 113	NT2	europium 152	NT2	lead 200
NT2	tin 119	NT2	europium 154	NT2	lead 201
NT2	tin 121	NT2	fermium 250	NT2	lead 202
NT2	tungsten 176	NT2	fermium 256	NT2	lead 203
NT2	tungsten 181	NT2	fluorine 18	NT2	lead 204
NT2	tungsten 185	NT2	francium 206	NT2	lead 205
NT2	uranium 230	NT2	francium 211	NT2	lead 207
NT2	uranium 235	NT2	francium 212	NT2	lutetium 153
NT2	uranium 240	NT2	francium 213	NT2	lutetium 154
NT2	xenon 125	NT2	francium 218	NT2	lutetium 161
NT2	xenon 129	NT2	gadolinium 141	NT2	lutetium 169
NT2	xenon 131	NT2	gadolinium 145	NT2	lutetium 170
NT2	xenon 133	NT2	gadolinium 147	NT2	lutetium 171
NT2	ytterbium 164	NT2	gadolinium 148	NT2	lutetium 172
NT2	ytterbium 165	NT2	gallium 72	NT2	lutetium 174
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NT2	barium 135	NT2	holmium 148	NT2	niobium 91
NT2	barium 136	NT2	holmium 156	NT2	niobium 93
NT2	barium 137	NT2	holmium 158	NT2	niobium 94
NT2	barium 138	NT2	holmium 159	NT2	niobium 95
NT2	bismuth 184	NT2	holmium 160	NT2	niobium 97
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NT2	bismuth 208	NT2	holmium 164	NT2	osmium 189
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NT2	bromine 80	NT2	indium 114	NT2	platinum 184
NT2	bromine 82	NT2	indium 115	NT2	platinum 193
NT2	bromine 83	NT2	indium 116	NT2	platinum 195
NT2	cadmium 100	NT2	indium 117	NT2	platinum 197
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NT2	rhenium 184	NT2	thallium 195	NT2	iodine 109
NT2	rhenium 186	NT2	thallium 196	NT2	iodine 116
NT2	rhenium 188	NT2	thallium 197	NT2	iodine 121
NT2	rhenium 190	NT2	thallium 198	NT2	iodine 122
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NT2	tellurium 127	NT2	darmstadtium 267	NT2	actinium 211
NT2	tellurium 129	NT2	darmstadtium 269	NT2	actinium 212
NT2	tellurium 131	NT2	darmstadtium 273	NT2	actinium 213
NT2	tellurium 133	NT2	dysprosium 140	NT2	actinium 215
NT2	terbium 142	NT2	europium 130	NT2	actinium 220
NT2	terbium 144	NT2	fermium 241	NT2	actinium 221
NT2	terbium 146	NT2	fermium 242	NT2	aluminium 22
NT2	terbium 151	NT2	fermium 258	NT2	aluminium 23
NT2	terbium 152	NT2	flerovium 285	NT2	aluminium 24
NT2	terbium 154	NT2	francium 212	NT2	aluminium 31
NT2	terbium 156	NT2	francium 213	NT2	aluminium 32
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NT2	manganese 68	NT2	platinum 184	NT2	samarium 129
NT2	manganese 69	NT2	platinum 187	NT2	samarium 164
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NT2	meitnerium 270	NT2	polonium 190	NT2	scandium 42
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NT2	nickel 55	NT2	radium 213	NT2	silver 129
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NT2	nickel 75	NT2	radium 220	NT2	silver 95
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NT2	nickel 80	NT2	radon 195	NT2	sodium 20
NT2	nihonium 283	NT2	radon 197	NT2	sodium 24
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NT2	niobium 108	NT2	radon 213	NT2	sodium 29
NT2	niobium 109	NT2	radon 218	NT2	sodium 30
NT2	niobium 110	NT2	rhodium 161	NT2	sodium 31
NT2	niobium 111	NT2	rhodium 162	NT2	sodium 32
NT2	niobium 113	NT2	rhodium 163	NT2	sodium 33
NT2	niobium 81	NT2	rhodium 164	NT2	sodium 34
NT2	niobium 82	NT2	rhodium 115	NT2	sodium 35
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NT2	nitrogen 18	NT2	rhodium 118	NT2	strontium 101
NT2	nitrogen 19	NT2	rhodium 120	NT2	strontium 102
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NT2	technetium 114	NT2	yttrium 98	NT2	bismuth 199
NT2	technetium 115	NT2	zinc 57	NT2	bismuth 200
NT2	technetium 116	NT2	zinc 59	NT2	bismuth 201
NT2	technetium 117	NT2	zinc 80	NT2	bismuth 211
NT2	technetium 85	NT2	zinc 81	NT2	bismuth 212
NT2	technetium 86	NT2	zirconium 105	NT2	bismuth 213
NT2	tellurium 107	NT2	zirconium 79	NT2	bismuth 214
NT2	terbium 136	NT2	zirconium 90	NT2	bismuth 215
NT2	terbium 137	NT1	minutes living radioisotopes	NT2	bismuth 216
NT2	terbium 138	NT2	actinium 222	NT2	bohrium 275
NT2	terbium 142	NT2	actinium 223	NT2	bromine 72
NT2	terbium 146	NT2	actinium 230	NT2	bromine 73
NT2	terbium 171	NT2	actinium 231	NT2	bromine 74
NT2	thallium 176	NT2	actinium 232	NT2	bromine 77
NT2	thallium 177	NT2	actinium 233	NT2	bromine 78
NT2	thallium 178	NT2	aluminium 28	NT2	bromine 80
NT2	thallium 179	NT2	aluminium 29	NT2	bromine 82
NT2	thallium 183	NT2	americium 233	NT2	bromine 84
NT2	thorium 209	NT2	americium 234	NT2	bromine 85
NT2	thorium 210	NT2	americium 235	NT2	cadmium 100
NT2	thorium 211	NT2	americium 236	NT2	cadmium 101
NT2	thorium 212	NT2	americium 244	NT2	cadmium 102
NT2	thorium 213	NT2	americium 246	NT2	cadmium 103
NT2	thorium 214	NT2	americium 247	NT2	cadmium 104
NT2	thorium 216	NT2	americium 248	NT2	cadmium 105
NT2	thorium 221	NT2	americium 249	NT2	cadmium 111
NT2	thorium 222	NT2	antimony 111	NT2	cadmium 118
NT2	thorium 223	NT2	antimony 113	NT2	cadmium 119
NT2	thulium 146	NT2	antimony 114	NT2	calcium 49
NT2	thulium 147	NT2	antimony 115	NT2	californium 240
NT2	thulium 150	NT2	antimony 116	NT2	californium 241
NT2	tin 135	NT2	antimony 118	NT2	californium 242
NT2	tin 136	NT2	antimony 120	NT2	californium 243
NT2	tin 137	NT2	antimony 122	NT2	californium 244
NT2	tin 99	NT2	antimony 124	NT2	californium 245
NT2	titanium 39	NT2	antimony 126	NT2	californium 256
NT2	titanium 40	NT2	antimony 128	NT2	carbon 11
NT2	titanium 41	NT2	antimony 129	NT2	cerium 128
NT2	titanium 42	NT2	antimony 130	NT2	cerium 129
NT2	titanium 43	NT2	antimony 131	NT2	cerium 130
NT2	titanium 58	NT2	antimony 132	NT2	cerium 131
NT2	titanium 59	NT2	antimony 133	NT2	cerium 145
NT2	titanium 60	NT2	argon 43	NT2	cerium 146
NT2	titanium 61	NT2	argon 44	NT2	cesium 120
NT2	tungsten 157	NT2	arsenic 68	NT2	cesium 121
NT2	tungsten 159	NT2	arsenic 69	NT2	cesium 122
NT2	tungsten 160	NT2	arsenic 70	NT2	cesium 123
NT2	tungsten 161	NT2	arsenic 79	NT2	cesium 125
NT2	uranium 217	NT2	astatine 201	NT2	cesium 126
NT2	uranium 218	NT2	astatine 202	NT2	cesium 128
NT2	uranium 225	NT2	astatine 203	NT2	cesium 130
NT2	uranium 226	NT2	astatine 204	NT2	cesium 135
NT2	vanadium 42	NT2	astatine 205	NT2	cesium 138
NT2	vanadium 44	NT2	astatine 206	NT2	cesium 139
NT2	vanadium 45	NT2	astatine 220	NT2	cesium 140
NT2	vanadium 46	NT2	astatine 221	NT2	chlorine 34
NT2	vanadium 64	NT2	barium 122	NT2	chlorine 38
NT2	vanadium 65	NT2	barium 123	NT2	chlorine 39
NT2	xenon 109	NT2	barium 124	NT2	chlorine 40
NT2	xenon 110	NT2	barium 125	NT2	chromium 49
NT2	xenon 111	NT2	barium 127	NT2	chromium 55
NT2	xenon 143	NT2	barium 131	NT2	chromium 56
NT2	xenon 145	NT2	barium 137	NT2	cobalt 54
NT2	xenon 147	NT2	barium 141	NT2	cobalt 60
NT2	ytterbium 148	NT2	barium 142	NT2	cobalt 62
NT2	ytterbium 149	NT2	berkelium 238	NT2	copernicium 283
NT2	ytterbium 154	NT2	berkelium 239	NT2	copernicium 285
NT2	ytterbium 175	NT2	berkelium 240	NT2	copper 59
NT2	yttrium 100	NT2	berkelium 242	NT2	copper 60
NT2	yttrium 101	NT2	berkelium 251	NT2	copper 62
NT2	yttrium 102	NT2	berkelium 252	NT2	copper 66
NT2	yttrium 103	NT2	berkelium 253	NT2	copper 68
NT2	yttrium 104	NT2	berkelium 254	NT2	copper 69
NT2	yttrium 107	NT2	bismuth 193	NT2	curium 233
NT2	yttrium 108	NT2	bismuth 194	NT2	curium 234
NT2	yttrium 78	NT2	bismuth 195	NT2	curium 235
NT2	yttrium 88	NT2	bismuth 196	NT2	curium 236

NT2	curium 237	NT2	holmium 158	NT2	lutetium 169
NT2	curium 251	NT2	holmium 159	NT2	lutetium 171
NT2	dubnium 264	NT2	holmium 160	NT2	lutetium 172
NT2	dubnium 265	NT2	holmium 162	NT2	lutetium 178
NT2	dubnium 266	NT2	holmium 164	NT2	lutetium 180
NT2	dysprosium 147	NT2	holmium 168	NT2	lutetium 181
NT2	dysprosium 148	NT2	holmium 169	NT2	lutetium 182
NT2	dysprosium 149	NT2	holmium 170	NT2	lutetium 187
NT2	dysprosium 150	NT2	indium 103	NT2	magnesium 27
NT2	dysprosium 151	NT2	indium 104	NT2	manganese 50
NT2	dysprosium 165	NT2	indium 105	NT2	manganese 51
NT2	dysprosium 167	NT2	indium 106	NT2	manganese 52
NT2	dysprosium 168	NT2	indium 107	NT2	manganese 57
NT2	einsteinium 245	NT2	indium 108	NT2	manganese 58
NT2	einsteinium 246	NT2	indium 109	NT2	meitnerium 265
NT2	einsteinium 247	NT2	indium 111	NT2	meitnerium 279
NT2	einsteinium 248	NT2	indium 112	NT2	mendelevium 251
NT2	einsteinium 256	NT2	indium 114	NT2	mendelevium 252
NT2	erbium 154	NT2	indium 116	NT2	mendelevium 253
NT2	erbium 155	NT2	indium 117	NT2	mendelevium 254
NT2	erbium 156	NT2	indium 118	NT2	mendelevium 255
NT2	erbium 157	NT2	indium 119	NT2	mendelevium 258
NT2	erbium 159	NT2	indium 121	NT2	mercury 186
NT2	erbium 173	NT2	iodine 115	NT2	mercury 187
NT2	erbium 174	NT2	iodine 117	NT2	mercury 188
NT2	europium 142	NT2	iodine 118	NT2	mercury 189
NT2	europium 143	NT2	iodine 119	NT2	mercury 190
NT2	europium 154	NT2	iodine 120	NT2	mercury 191
NT2	europium 158	NT2	iodine 122	NT2	mercury 199
NT2	europium 159	NT2	iodine 128	NT2	mercury 205
NT2	fermium 249	NT2	iodine 130	NT2	mercury 206
NT2	fermium 250	NT2	iodine 134	NT2	molybdenum 101
NT2	fluorine 17	NT2	iodine 136	NT2	molybdenum 102
NT2	francium 210	NT2	iridium 179	NT2	molybdenum 103
NT2	francium 211	NT2	iridium 180	NT2	molybdenum 104
NT2	francium 212	NT2	iridium 181	NT2	molybdenum 88
NT2	francium 221	NT2	iridium 182	NT2	molybdenum 89
NT2	francium 222	NT2	iridium 183	NT2	molybdenum 91
NT2	francium 223	NT2	iridium 192	NT2	neodymium 132
NT2	francium 224	NT2	iridium 197	NT2	neodymium 133
NT2	francium 225	NT2	iron 53	NT2	neodymium 134
NT2	francium 227	NT2	iron 61	NT2	neodymium 135
NT2	gadolinium 142	NT2	iron 62	NT2	neodymium 136
NT2	gadolinium 143	NT2	krypton 74	NT2	neodymium 137
NT2	gadolinium 144	NT2	krypton 75	NT2	neodymium 139
NT2	gadolinium 145	NT2	krypton 89	NT2	neodymium 141
NT2	gadolinium 161	NT2	lanthanum 125	NT2	neodymium 151
NT2	gadolinium 162	NT2	lanthanum 126	NT2	neodymium 152
NT2	gadolinium 163	NT2	lanthanum 127	NT2	neon 24
NT2	gallium 64	NT2	lanthanum 128	NT2	neptunium 229
NT2	gallium 65	NT2	lanthanum 129	NT2	neptunium 230
NT2	gallium 70	NT2	lanthanum 130	NT2	neptunium 231
NT2	gallium 74	NT2	lanthanum 131	NT2	neptunium 232
NT2	gallium 75	NT2	lanthanum 132	NT2	neptunium 233
NT2	germanium 64	NT2	lanthanum 134	NT2	neptunium 240
NT2	germanium 67	NT2	lanthanum 136	NT2	neptunium 241
NT2	gold 185	NT2	lanthanum 143	NT2	neptunium 242
NT2	gold 186	NT2	lawrencium 260	NT2	neptunium 243
NT2	gold 187	NT2	lead 190	NT2	neptunium 244
NT2	gold 188	NT2	lead 191	NT2	niobium 85
NT2	gold 189	NT2	lead 192	NT2	niobium 86
NT2	gold 190	NT2	lead 193	NT2	niobium 87
NT2	gold 200	NT2	lead 194	NT2	niobium 88
NT2	gold 201	NT2	lead 195	NT2	niobium 94
NT2	hafnium 164	NT2	lead 196	NT2	niobium 98
NT2	hafnium 165	NT2	lead 197	NT2	niobium 99
NT2	hafnium 166	NT2	lead 199	NT2	nitrogen 13
NT2	hafnium 167	NT2	lead 201	NT2	nobelium 253
NT2	hafnium 168	NT2	lead 211	NT2	nobelium 255
NT2	hafnium 169	NT2	lead 213	NT2	nobelium 259
NT2	hafnium 177	NT2	lead 214	NT2	osmium 175
NT2	hassium 274	NT2	lutetium 161	NT2	osmium 176
NT2	holmium 150	NT2	lutetium 162	NT2	osmium 177
NT2	holmium 152	NT2	lutetium 163	NT2	osmium 178
NT2	holmium 153	NT2	lutetium 164	NT2	osmium 179
NT2	holmium 154	NT2	lutetium 165	NT2	osmium 180
NT2	holmium 155	NT2	lutetium 166	NT2	osmium 181
NT2	holmium 156	NT2	lutetium 167	NT2	osmium 190
NT2	holmium 157	NT2	lutetium 168	NT2	osmium 195

NT2	osmium 196	NT2	rhenium 173	NT2	tantalum 168
NT2	osmium 197	NT2	rhenium 174	NT2	tantalum 169
NT2	oxygen 14	NT2	rhenium 175	NT2	tantalum 170
NT2	oxygen 15	NT2	rhenium 176	NT2	tantalum 171
NT2	palladium 109	NT2	rhenium 177	NT2	tantalum 172
NT2	palladium 111	NT2	rhenium 178	NT2	tantalum 178
NT2	palladium 113	NT2	rhenium 179	NT2	tantalum 182
NT2	palladium 114	NT2	rhenium 180	NT2	tantalum 185
NT2	palladium 96	NT2	rhenium 188	NT2	tantalum 186
NT2	palladium 97	NT2	rhenium 190	NT2	tantalum 187
NT2	palladium 98	NT2	rhenium 191	NT2	technetium 101
NT2	palladium 99	NT2	rhodium 100	NT2	technetium 102
NT2	phosphorus 30	NT2	rhodium 103	NT2	technetium 104
NT2	platinum 182	NT2	rhodium 104	NT2	technetium 105
NT2	platinum 183	NT2	rhodium 107	NT2	technetium 91
NT2	platinum 184	NT2	rhodium 108	NT2	technetium 92
NT2	platinum 185	NT2	rhodium 109	NT2	technetium 93
NT2	platinum 199	NT2	rhodium 94	NT2	technetium 94
NT2	platinum 201	NT2	rhodium 95	NT2	technetium 96
NT2	plutonium 232	NT2	rhodium 96	NT2	tellurium 112
NT2	plutonium 233	NT2	rhodium 97	NT2	tellurium 113
NT2	plutonium 235	NT2	rhodium 98	NT2	tellurium 114
NT2	polonium 198	NT2	rubidium 77	NT2	tellurium 115
NT2	polonium 199	NT2	rubidium 78	NT2	tellurium 131
NT2	polonium 200	NT2	rubidium 79	NT2	tellurium 133
NT2	polonium 201	NT2	rubidium 81	NT2	tellurium 134
NT2	polonium 202	NT2	rubidium 82	NT2	terbium 147
NT2	polonium 203	NT2	rubidium 84	NT2	terbium 148
NT2	polonium 218	NT2	rubidium 86	NT2	terbium 149
NT2	potassium 38	NT2	rubidium 88	NT2	terbium 150
NT2	potassium 44	NT2	rubidium 89	NT2	terbium 152
NT2	potassium 45	NT2	rubidium 90	NT2	terbium 162
NT2	potassium 46	NT2	ruthenium 107	NT2	terbium 163
NT2	praseodymium 131	NT2	ruthenium 108	NT2	terbium 164
NT2	praseodymium 132	NT2	ruthenium 92	NT2	terbium 165
NT2	praseodymium 133	NT2	ruthenium 93	NT2	thallium 188
NT2	praseodymium 134	NT2	ruthenium 94	NT2	thallium 189
NT2	praseodymium 135	NT2	rutherfordium 261	NT2	thallium 190
NT2	praseodymium 136	NT2	rutherfordium 263	NT2	thallium 191
NT2	praseodymium 138	NT2	samarium 138	NT2	thallium 192
NT2	praseodymium 140	NT2	samarium 139	NT2	thallium 193
NT2	praseodymium 142	NT2	samarium 140	NT2	thallium 194
NT2	praseodymium 144	NT2	samarium 141	NT2	thallium 206
NT2	praseodymium 146	NT2	samarium 143	NT2	thallium 207
NT2	praseodymium 147	NT2	samarium 155	NT2	thallium 208
NT2	praseodymium 148	NT2	samarium 157	NT2	thallium 209
NT2	praseodymium 149	NT2	samarium 158	NT2	thallium 210
NT2	promethium 136	NT2	scandium 49	NT2	thorium 225
NT2	promethium 137	NT2	scandium 50	NT2	thorium 226
NT2	promethium 138	NT2	seaborgium 270	NT2	thorium 233
NT2	promethium 139	NT2	seaborgium 271	NT2	thorium 235
NT2	promethium 140	NT2	selenium 68	NT2	thorium 236
NT2	promethium 141	NT2	selenium 70	NT2	thorium 237
NT2	promethium 152	NT2	selenium 71	NT2	thulium 156
NT2	promethium 153	NT2	selenium 73	NT2	thulium 157
NT2	promethium 154	NT2	selenium 79	NT2	thulium 158
NT2	protactinium 226	NT2	selenium 81	NT2	thulium 159
NT2	protactinium 227	NT2	selenium 83	NT2	thulium 160
NT2	protactinium 234	NT2	selenium 84	NT2	thulium 161
NT2	protactinium 235	NT2	silver 100	NT2	thulium 162
NT2	protactinium 236	NT2	silver 101	NT2	thulium 164
NT2	protactinium 237	NT2	silver 102	NT2	thulium 174
NT2	protactinium 238	NT2	silver 104	NT2	thulium 175
NT2	radium 213	NT2	silver 105	NT2	thulium 176
NT2	radium 227	NT2	silver 106	NT2	thulium 177
NT2	radium 229	NT2	silver 108	NT2	tin 106
NT2	radium 231	NT2	silver 111	NT2	tin 107
NT2	radium 232	NT2	silver 113	NT2	tin 108
NT2	radon 204	NT2	silver 115	NT2	tin 109
NT2	radon 205	NT2	silver 116	NT2	tin 111
NT2	radon 206	NT2	silver 117	NT2	tin 113
NT2	radon 207	NT2	silver 99	NT2	tin 123
NT2	radon 208	NT2	strontium 78	NT2	tin 125
NT2	radon 209	NT2	strontium 79	NT2	tin 127
NT2	radon 212	NT2	strontium 81	NT2	tin 128
NT2	radon 221	NT2	strontium 93	NT2	tin 129
NT2	radon 223	NT2	strontium 94	NT2	tin 130
NT2	radon 225	NT2	sulfur 37	NT2	tin 131
NT2	radon 226	NT2	tantalum 167	NT2	titanium 51

NT2	titanium 52	NT2	fluorine 30	NT2	gold 171
NT2	tungsten 170	NT2	fluorine 31	NT2	holmium 140
NT2	tungsten 171	NT2	francium 211	NT2	holmium 141
NT2	tungsten 172	NT2	francium 212	NT2	iodine 109
NT2	tungsten 173	NT2	francium 213	NT2	iridium 164
NT2	tungsten 174	NT2	francium 215	NT2	iridium 165
NT2	tungsten 175	NT2	francium 216	NT2	iron 45
NT2	tungsten 179	NT2	gadolinium 136	NT2	lanthanum 117
NT2	tungsten 185	NT2	gadolinium 147	NT2	lutetium 150
NT2	tungsten 189	NT2	gadolinium 148	NT2	lutetium 151
NT2	tungsten 190	NT2	germanium 86	NT2	manganese 45
NT2	uranium 227	NT2	germanium 88	NT2	nitrogen 10
NT2	uranium 228	NT2	germanium 89	NT2	potassium 33
NT2	uranium 229	NT2	krypton 86	NT2	potassium 34
NT2	uranium 235	NT2	krypton 97	NT2	rhenium 159
NT2	uranium 239	NT2	lead 194	NT2	rhenium 160
NT2	uranium 241	NT2	lead 200	NT2	rubidium 71
NT2	uranium 242	NT2	magnesium 37	NT2	rubidium 72
NT2	vanadium 47	NT2	magnesium 39	NT2	scandium 36
NT2	vanadium 52	NT2	magnesium 45	NT2	scandium 37
NT2	vanadium 53	NT2	molybdenum 92	NT2	scandium 38
NT2	xenon 117	NT2	molybdenum 94	NT2	scandium 39
NT2	xenon 118	NT2	neon 33	NT2	selenium 66
NT2	xenon 119	NT2	neptunium 237	NT2	sodium 19
NT2	xenon 120	NT2	osmium 182	NT2	sulfur 26
NT2	xenon 121	NT2	oxygen 25	NT2	tantalum 155
NT2	xenon 127	NT2	oxygen 26	NT2	tantalum 156
NT2	xenon 135	NT2	oxygen 27	NT2	tantalum 157
NT2	xenon 137	NT2	phosphorus 25	NT2	terbium 135
NT2	xenon 138	NT2	plutonium 237	NT2	terbium 137
NT2	ytterbium 158	NT2	polonium 210	NT2	terbium 138
NT2	ytterbium 159	NT2	polonium 212	NT2	thallium 176
NT2	ytterbium 160	NT2	potassium 40	NT2	thallium 177
NT2	ytterbium 161	NT2	protactinium 219	NT2	thulium 144
NT2	ytterbium 162	NT2	protactinium 220	NT2	thulium 145
NT2	ytterbium 163	NT2	radium 216	NT2	thulium 146
NT2	ytterbium 165	NT2	radon 210	NT2	thulium 147
NT2	ytterbium 167	NT2	radon 211	NT2	vanadium 40
NT2	ytterbium 179	NT2	radon 214	NT2	vanadium 41
NT2	ytterbium 180	NT2	rhodium 90	NT2	zinc 54
NT2	yttrium 81	NT2	rhodium 91	NT2	zinc 55
NT2	yttrium 83	NT2	rubidium 85	NT2	zinc 56
NT2	yttrium 84	NT2	scandium 38	NT1	seconds living radioisotopes
NT2	yttrium 86	NT2	selenium 64	NT2	actinium 214
NT2	yttrium 91	NT2	sodium 22	NT2	actinium 222
NT2	yttrium 94	NT2	tellurium 105	NT2	actinium 234
NT2	yttrium 95	NT2	thorium 218	NT2	actinium 235
NT2	zinc 60	NT2	titanium 58	NT2	aluminium 24
NT2	zinc 61	NT2	titanium 59	NT2	aluminium 25
NT2	zinc 63	NT2	vanadium 61	NT2	aluminium 26
NT2	zinc 69	NT2	vanadium 62	NT2	aluminium 30
NT2	zinc 71	NT2	vanadium 63	NT2	americium 231
NT2	zinc 74	NT2	zirconium 109	NT2	americium 232
NT2	zirconium 81	NT1	neutron-deficient isotopes	NT2	antimony 105
NT2	zirconium 82	NT1	proton decay radioisotopes	NT2	antimony 106
NT2	zirconium 84	NT2	aluminium 21	NT2	antimony 107
NT2	zirconium 85	NT2	argon 30	NT2	antimony 108
NT2	zirconium 89	NT2	arsenic 62	NT2	antimony 109
NT1	nanoseconds living radioisotopes	NT2	arsenic 63	NT2	antimony 110
NT2	actinium 217	NT2	arsenic 64	NT2	antimony 112
NT2	aluminium 40	NT2	bismuth 185	NT2	antimony 126
NT2	antimony 113	NT2	calcium 34	NT2	antimony 134
NT2	antimony 117	NT2	cesium 112	NT2	antimony 135
NT2	argon 30	NT2	cesium 113	NT2	argon 35
NT2	astatine 213	NT2	chlorine 28	NT2	argon 45
NT2	astatine 214	NT2	chlorine 29	NT2	argon 46
NT2	barium 138	NT2	chlorine 30	NT2	arsenic 67
NT2	bismuth 211	NT2	cobalt 49	NT2	arsenic 80
NT2	bromine 83	NT2	cobalt 52	NT2	arsenic 81
NT2	calcium 34	NT2	cobalt 53	NT2	arsenic 82
NT2	carbon 21	NT2	copper 52	NT2	arsenic 83
NT2	chlorine 29	NT2	copper 53	NT2	arsenic 84
NT2	chlorine 30	NT2	copper 54	NT2	arsenic 85
NT2	chromium 65	NT2	europium 130	NT2	astatine 198
NT2	chromium 66	NT2	europium 131	NT2	astatine 199
NT2	cobalt 49	NT2	europium 132	NT2	astatine 200
NT2	fermium 256	NT2	fluorine 14	NT2	astatine 202
NT2	fluorine 18	NT2	germanium 62	NT2	astatine 218
NT2	fluorine 28	NT2	gold 170	NT2	astatine 219

NT2	astatine 222	NT2	chlorine 38	NT2	francium 208
NT2	astatine 223	NT2	chlorine 41	NT2	francium 209
NT2	barium 117	NT2	chromium 57	NT2	francium 213
NT2	barium 118	NT2	chromium 58	NT2	francium 220
NT2	barium 119	NT2	chromium 59	NT2	francium 226
NT2	barium 120	NT2	cobalt 63	NT2	francium 228
NT2	barium 121	NT2	cobalt 65	NT2	francium 229
NT2	barium 127	NT2	copernicium 285	NT2	francium 230
NT2	barium 143	NT2	copper 58	NT2	francium 231
NT2	barium 144	NT2	copper 68	NT2	francium 232
NT2	barium 145	NT2	copper 70	NT2	gadolinium 135
NT2	barium 146	NT2	copper 71	NT2	gadolinium 140
NT2	berkelium 235	NT2	copper 72	NT2	gadolinium 141
NT2	beryllium 11	NT2	copper 73	NT2	gadolinium 143
NT2	bismuth 189	NT2	copper 74	NT2	gadolinium 164
NT2	bismuth 190	NT2	copper 75	NT2	gadolinium 165
NT2	bismuth 191	NT2	dubnium 255	NT2	gadolinium 166
NT2	bismuth 192	NT2	dubnium 256	NT2	gadolinium 167
NT2	bismuth 193	NT2	dubnium 257	NT2	gadolinium 169
NT2	bismuth 198	NT2	dubnium 258	NT2	gallium 63
NT2	bismuth 217	NT2	dubnium 259	NT2	gallium 74
NT2	bismuth 218	NT2	dubnium 260	NT2	gallium 76
NT2	bohrium 266	NT2	dubnium 261	NT2	gallium 77
NT2	bohrium 267	NT2	dubnium 262	NT2	gallium 78
NT2	bohrium 271	NT2	dubnium 263	NT2	gallium 79
NT2	bohrium 272	NT2	dysprosium 140	NT2	gallium 80
NT2	bromine 71	NT2	dysprosium 141	NT2	gallium 81
NT2	bromine 76	NT2	dysprosium 142	NT2	germanium 65
NT2	bromine 79	NT2	dysprosium 143	NT2	germanium 75
NT2	bromine 86	NT2	dysprosium 144	NT2	germanium 77
NT2	bromine 87	NT2	dysprosium 145	NT2	germanium 79
NT2	bromine 88	NT2	dysprosium 146	NT2	germanium 80
NT2	bromine 89	NT2	dysprosium 147	NT2	germanium 81
NT2	bromine 90	NT2	dysprosium 169	NT2	germanium 82
NT2	cadmium 120	NT2	dysprosium 170	NT2	germanium 83
NT2	cadmium 121	NT2	dysprosium 171	NT2	germanium 84
NT2	cadmium 122	NT2	dysprosium 171	NT2	gold 176
NT2	cadmium 123	NT2	einsteinium 241	NT2	gold 177
NT2	cadmium 124	NT2	einsteinium 242	NT2	gold 178
NT2	cadmium 97	NT2	einsteinium 243	NT2	gold 179
NT2	cadmium 98	NT2	einsteinium 244	NT2	gold 180
NT2	cadmium 99	NT2	erbium 146	NT2	gold 181
NT2	calcium 50	NT2	erbium 147	NT2	gold 182
NT2	calcium 51	NT2	erbium 148	NT2	gold 183
NT2	calcium 52	NT2	erbium 149	NT2	gold 184
NT2	californium 237	NT2	erbium 150	NT2	gold 184
NT2	californium 239	NT2	erbium 151	NT2	gold 193
NT2	carbon 10	NT2	erbium 152	NT2	gold 195
NT2	carbon 15	NT2	erbium 153	NT2	gold 196
NT2	cerium 121	NT2	erbium 167	NT2	gold 197
NT2	cerium 122	NT2	erbium 176	NT2	gold 202
NT2	cerium 123	NT2	erbium 177	NT2	gold 203
NT2	cerium 124	NT2	europium 135	NT2	gold 204
NT2	cerium 125	NT2	europium 136	NT2	gold 205
NT2	cerium 126	NT2	europium 138	NT2	hafnium 154
NT2	cerium 127	NT2	europium 139	NT2	hafnium 158
NT2	cerium 135	NT2	europium 140	NT2	hafnium 159
NT2	cerium 139	NT2	europium 141	NT2	hafnium 160
NT2	cerium 147	NT2	europium 142	NT2	hafnium 161
NT2	cerium 148	NT2	europium 144	NT2	hafnium 162
NT2	cerium 149	NT2	europium 160	NT2	hafnium 163
NT2	cerium 150	NT2	europium 161	NT2	hafnium 177
NT2	cerium 151	NT2	europium 162	NT2	hafnium 178
NT2	cerium 152	NT2	europium 163	NT2	hafnium 179
NT2	cesium 115	NT2	europium 164	NT2	hafnium 187
NT2	cesium 116	NT2	fermium 245	NT2	hafnium 188
NT2	cesium 117	NT2	fermium 246	NT2	hassium 269
NT2	cesium 118	NT2	fermium 247	NT2	hassium 270
NT2	cesium 119	NT2	fermium 248	NT2	hassium 271
NT2	cesium 122	NT2	fermium 250	NT2	hassium 272
NT2	cesium 123	NT2	fermium 259	NT2	holmium 145
NT2	cesium 124	NT2	fermium 289	NT2	holmium 146
NT2	cesium 136	NT2	flerovium 289	NT2	holmium 148
NT2	cesium 141	NT2	fluorine 20	NT2	holmium 149
NT2	cesium 142	NT2	fluorine 21	NT2	holmium 150
NT2	cesium 143	NT2	fluorine 22	NT2	holmium 151
NT2	cesium 144	NT2	fluorine 23	NT2	holmium 152
NT2	chlorine 33	NT2	francium 204	NT2	holmium 159
NT2	chlorine 34	NT2	francium 205	NT2	holmium 161
		NT2	francium 206	NT2	holmium 163
		NT2	francium 207		

NT2	holmium 170	NT2	lead 185	NT2	osmium 168
NT2	holmium 171	NT2	lead 186	NT2	osmium 169
NT2	holmium 172	NT2	lead 187	NT2	osmium 170
NT2	holmium 173	NT2	lead 188	NT2	osmium 171
NT2	holmium 174	NT2	lead 189	NT2	osmium 172
NT2	holmium 175	NT2	lead 203	NT2	osmium 173
NT2	indium 101	NT2	lutetium 154	NT2	osmium 174
NT2	indium 102	NT2	lutetium 157	NT2	osmium 192
NT2	indium 104	NT2	lutetium 158	NT2	osmium 199
NT2	indium 105	NT2	lutetium 159	NT2	osmium 200
NT2	indium 107	NT2	lutetium 160	NT2	oxygen 19
NT2	indium 116	NT2	lutetium 183	NT2	oxygen 20
NT2	indium 118	NT2	lutetium 184	NT2	oxygen 21
NT2	indium 120	NT2	magnesium 22	NT2	oxygen 22
NT2	indium 121	NT2	magnesium 23	NT2	palladium 107
NT2	indium 122	NT2	magnesium 29	NT2	palladium 115
NT2	indium 123	NT2	manganese 58	NT2	palladium 116
NT2	indium 124	NT2	manganese 59	NT2	palladium 117
NT2	indium 125	NT2	manganese 60	NT2	palladium 118
NT2	indium 126	NT2	meitnerium 271	NT2	palladium 93
NT2	indium 127	NT2	meitnerium 272	NT2	palladium 94
NT2	indium 129	NT2	meitnerium 273	NT2	palladium 95
NT2	indium 98	NT2	meitnerium 274	NT2	phosphorus 29
NT2	indium 99	NT2	mendelevium 247	NT2	phosphorus 34
NT2	iodine 111	NT2	mendelevium 248	NT2	phosphorus 35
NT2	iodine 112	NT2	mendelevium 249	NT2	phosphorus 36
NT2	iodine 113	NT2	mendelevium 250	NT2	phosphorus 37
NT2	iodine 114	NT2	mercury 179	NT2	platinum 175
NT2	iodine 116	NT2	mercury 180	NT2	platinum 176
NT2	iodine 133	NT2	mercury 181	NT2	platinum 177
NT2	iodine 136	NT2	mercury 182	NT2	platinum 178
NT2	iodine 137	NT2	mercury 183	NT2	platinum 179
NT2	iodine 138	NT2	mercury 184	NT2	platinum 180
NT2	iodine 139	NT2	mercury 185	NT2	platinum 181
NT2	iridium 170	NT2	molybdenum 105	NT2	platinum 183
NT2	iridium 171	NT2	molybdenum 106	NT2	platinum 199
NT2	iridium 172	NT2	molybdenum 107	NT2	plutonium 229
NT2	iridium 173	NT2	molybdenum 108	NT2	polonium 195
NT2	iridium 174	NT2	molybdenum 110	NT2	polonium 196
NT2	iridium 175	NT2	molybdenum 86	NT2	polonium 197
NT2	iridium 176	NT2	molybdenum 87	NT2	polonium 203
NT2	iridium 177	NT2	neodymium 127	NT2	polonium 207
NT2	iridium 178	NT2	neodymium 129	NT2	polonium 211
NT2	iridium 191	NT2	neodymium 130	NT2	polonium 212
NT2	iridium 196	NT2	neodymium 131	NT2	polonium 217
NT2	iridium 198	NT2	neodymium 137	NT2	potassium 37
NT2	iridium 199	NT2	neodymium 153	NT2	potassium 38
NT2	iridium 202	NT2	neodymium 154	NT2	potassium 47
NT2	iron 52	NT2	neodymium 155	NT2	potassium 48
NT2	iron 63	NT2	neodymium 156	NT2	potassium 49
NT2	iron 64	NT2	neon 18	NT2	praseodymium 124
NT2	krypton 72	NT2	neon 19	NT2	praseodymium 125
NT2	krypton 73	NT2	neon 23	NT2	praseodymium 126
NT2	krypton 79	NT2	nickel 67	NT2	praseodymium 127
NT2	krypton 81	NT2	nickel 69	NT2	praseodymium 128
NT2	krypton 90	NT2	nickel 70	NT2	praseodymium 129
NT2	krypton 91	NT2	nickel 71	NT2	praseodymium 130
NT2	krypton 92	NT2	nickel 72	NT2	praseodymium 150
NT2	krypton 93	NT2	nickel 74	NT2	praseodymium 151
NT2	lanthanum 118	NT2	niobium 100	NT2	praseodymium 152
NT2	lanthanum 119	NT2	niobium 101	NT2	praseodymium 153
NT2	lanthanum 120	NT2	niobium 102	NT2	praseodymium 154
NT2	lanthanum 121	NT2	niobium 103	NT2	promethium 128
NT2	lanthanum 122	NT2	niobium 104	NT2	promethium 129
NT2	lanthanum 123	NT2	niobium 105	NT2	promethium 130
NT2	lanthanum 124	NT2	niobium 106	NT2	promethium 131
NT2	lanthanum 144	NT2	niobium 83	NT2	promethium 132
NT2	lanthanum 145	NT2	niobium 84	NT2	promethium 133
NT2	lanthanum 146	NT2	niobium 85	NT2	promethium 134
NT2	lanthanum 147	NT2	niobium 90	NT2	promethium 135
NT2	lanthanum 148	NT2	niobium 97	NT2	promethium 140
NT2	lanthanum 149	NT2	niobium 98	NT2	promethium 142
NT2	lawrencium 252	NT2	niobium 99	NT2	promethium 155
NT2	lawrencium 253	NT2	nitrogen 16	NT2	promethium 156
NT2	lawrencium 254	NT2	nitrogen 17	NT2	promethium 157
NT2	lawrencium 255	NT2	nobelium 252	NT2	promethium 158
NT2	lawrencium 256	NT2	nobelium 254	NT2	promethium 159
NT2	lawrencium 258	NT2	nobelium 256	NT2	protactinium 225
NT2	lawrencium 259	NT2	nobelium 257	NT2	radium 207

NT2	radium 208	NT2	samarium 162	NT2	terbium 146
NT2	radium 209	NT2	scandium 42	NT2	terbium 151
NT2	radium 210	NT2	scandium 46	NT2	terbium 158
NT2	radium 211	NT2	scandium 51	NT2	terbium 166
NT2	radium 212	NT2	scandium 52	NT2	terbium 167
NT2	radium 214	NT2	seaborgium 265	NT2	terbium 168
NT2	radium 221	NT2	seaborgium 266	NT2	terbium 169
NT2	radium 222	NT2	seaborgium 268	NT2	terbium 170
NT2	radium 233	NT2	selenium 69	NT2	thallium 180
NT2	radium 234	NT2	selenium 77	NT2	thallium 181
NT2	radon 200	NT2	selenium 85	NT2	thallium 182
NT2	radon 201	NT2	selenium 86	NT2	thallium 184
NT2	radon 202	NT2	selenium 87	NT2	thallium 185
NT2	radon 203	NT2	selenium 88	NT2	thallium 186
NT2	radon 219	NT2	silicon 26	NT2	thallium 187
NT2	radon 220	NT2	silicon 27	NT2	thallium 195
NT2	radon 227	NT2	silicon 33	NT2	thallium 197
NT2	radon 228	NT2	silicon 34	NT2	thallium 207
NT2	rhenium 165	NT2	silver 101	NT2	thorium 215
NT2	rhenium 166	NT2	silver 103	NT2	thorium 223
NT2	rhenium 167	NT2	silver 107	NT2	thorium 224
NT2	rhenium 168	NT2	silver 109	NT2	thulium 151
NT2	rhenium 169	NT2	silver 110	NT2	thulium 152
NT2	rhenium 170	NT2	silver 114	NT2	thulium 153
NT2	rhenium 171	NT2	silver 115	NT2	thulium 154
NT2	rhenium 172	NT2	silver 116	NT2	thulium 155
NT2	rhenium 192	NT2	silver 117	NT2	thulium 156
NT2	rhenium 194	NT2	silver 118	NT2	thulium 162
NT2	rhenium 195	NT2	silver 119	NT2	thulium 178
NT2	rhenium 196	NT2	silver 120	NT2	thulium 179
NT2	rhodium 104	NT2	silver 122	NT2	tin 102
NT2	rhodium 105	NT2	silver 96	NT2	tin 103
NT2	rhodium 106	NT2	silver 97	NT2	tin 105
NT2	rhodium 108	NT2	silver 98	NT2	tin 128
NT2	rhodium 110	NT2	silver 99	NT2	tin 131
NT2	rhodium 111	NT2	sodium 21	NT2	tin 132
NT2	rhodium 112	NT2	sodium 25	NT2	tin 133
NT2	rhodium 113	NT2	sodium 26	NT2	tin 134
NT2	rhodium 114	NT2	strontium 76	NT2	titanium 53
NT2	rhodium 117	NT2	strontium 77	NT2	tungsten 160
NT2	rhodium 90	NT2	strontium 83	NT2	tungsten 162
NT2	rhodium 91	NT2	strontium 95	NT2	tungsten 163
NT2	rhodium 92	NT2	strontium 96	NT2	tungsten 164
NT2	rhodium 93	NT2	sulfur 30	NT2	tungsten 165
NT2	rhodium 94	NT2	sulfur 31	NT2	tungsten 166
NT2	roentgenium 280	NT2	sulfur 39	NT2	tungsten 167
NT2	rubidium 75	NT2	sulfur 40	NT2	tungsten 168
NT2	rubidium 76	NT2	tantalum 160	NT2	tungsten 169
NT2	rubidium 80	NT2	tantalum 161	NT2	tungsten 183
NT2	rubidium 91	NT2	tantalum 162	NT2	vanadium 43
NT2	rubidium 92	NT2	tantalum 163	NT2	vanadium 54
NT2	rubidium 93	NT2	tantalum 164	NT2	vanadium 55
NT2	rubidium 94	NT2	tantalum 165	NT2	xenon 112
NT2	ruthenium 109	NT2	tantalum 166	NT2	xenon 113
NT2	ruthenium 110	NT2	tantalum 188	NT2	xenon 114
NT2	ruthenium 111	NT2	technetium 100	NT2	xenon 115
NT2	ruthenium 112	NT2	technetium 102	NT2	xenon 116
NT2	ruthenium 113	NT2	technetium 103	NT2	xenon 125
NT2	ruthenium 89	NT2	technetium 106	NT2	xenon 139
NT2	ruthenium 90	NT2	technetium 107	NT2	xenon 140
NT2	ruthenium 91	NT2	technetium 108	NT2	xenon 141
NT2	ruthenium 93	NT2	technetium 109	NT2	xenon 142
NT2	rutherfordium 253	NT2	technetium 87	NT2	xenon 144
NT2	rutherfordium 255	NT2	technetium 88	NT2	ytterbium 153
NT2	rutherfordium 257	NT2	technetium 90	NT2	ytterbium 155
NT2	rutherfordium 259	NT2	tellurium 108	NT2	ytterbium 156
NT2	rutherfordium 262	NT2	tellurium 109	NT2	ytterbium 157
NT2	samarium 130	NT2	tellurium 110	NT2	ytterbium 169
NT2	samarium 131	NT2	tellurium 111	NT2	ytterbium 176
NT2	samarium 132	NT2	tellurium 135	NT2	ytterbium 177
NT2	samarium 133	NT2	tellurium 136	NT2	yttrium 78
NT2	samarium 134	NT2	tellurium 137	NT2	yttrium 79
NT2	samarium 135	NT2	tellurium 138	NT2	yttrium 80
NT2	samarium 136	NT2	terbium 139	NT2	yttrium 82
NT2	samarium 137	NT2	terbium 140	NT2	yttrium 84
NT2	samarium 139	NT2	terbium 141	NT2	yttrium 89
NT2	samarium 159	NT2	terbium 143	NT2	yttrium 96
NT2	samarium 160	NT2	terbium 144	NT2	yttrium 97
NT2	samarium 161	NT2	terbium 145	NT2	yttrium 98

NT2	yttrium 99	NT2	fermium 252	NT2	bismuth 208
NT2	zinc 73	NT2	fermium 254	NT2	bismuth 210
NT2	zinc 75	NT2	fermium 255	NT2	cadmium 109
NT2	zinc 76	NT2	fermium 256	NT2	cadmium 113
NT2	zinc 77	NT2	fermium 257	NT2	calcium 41
NT2	zinc 78	NT2	fermium 258	NT2	californium 249
NT2	zinc 79	NT2	fermium 259	NT2	californium 250
NT2	zirconium 100	NT2	fermium 260	NT2	californium 251
NT2	zirconium 101	NT2	fermium 264	NT2	californium 252
NT2	zirconium 102	NT2	flerovium 286	NT2	carbon 14
NT2	zirconium 103	NT2	hassium 264	NT2	cesium 134
NT2	zirconium 104	NT2	hassium 265	NT2	cesium 135
NT2	zirconium 83	NT2	meitnerium 266	NT2	cesium 137
NT2	zirconium 85	NT2	mendelevium 245	NT2	chlorine 36
NT2	zirconium 87	NT2	mendelevium 246	NT2	cobalt 60
NT2	zirconium 98	NT2	mendelevium 259	NT2	curium 243
NT2	zirconium 99	NT2	neptunium 237	NT2	curium 244
NT1	spontaneous fission radioisotopes	NT2	nobelium 250	NT2	curium 245
NT2	americium 237	NT2	nobelium 252	NT2	curium 246
NT2	americium 238	NT2	nobelium 254	NT2	curium 247
NT2	americium 239	NT2	nobelium 256	NT2	curium 248
NT2	americium 240	NT2	nobelium 258	NT2	curium 250
NT2	americium 241	NT2	plutonium 235	NT2	dysprosium 154
NT2	americium 242	NT2	plutonium 236	NT2	einsteinium 252
NT2	americium 243	NT2	plutonium 237	NT2	europium 150
NT2	americium 244	NT2	plutonium 238	NT2	europium 152
NT2	americium 245	NT2	plutonium 239	NT2	europium 154
NT2	americium 246	NT2	plutonium 240	NT2	europium 155
NT2	berkelium 242	NT2	plutonium 241	NT2	gadolinium 148
NT2	berkelium 243	NT2	plutonium 242	NT2	gadolinium 150
NT2	berkelium 244	NT2	plutonium 243	NT2	gadolinium 152
NT2	berkelium 245	NT2	plutonium 244	NT2	hafnium 172
NT2	berkelium 249	NT2	rutherfordium 253	NT2	hafnium 174
NT2	bohrium 261	NT2	rutherfordium 254	NT2	hafnium 178
NT2	bohrium 262	NT2	rutherfordium 255	NT2	hafnium 182
NT2	californium 237	NT2	rutherfordium 256	NT2	holmium 163
NT2	californium 246	NT2	rutherfordium 257	NT2	holmium 166
NT2	californium 248	NT2	rutherfordium 258	NT2	indium 115
NT2	californium 249	NT2	rutherfordium 259	NT2	iodine 129
NT2	californium 250	NT2	rutherfordium 260	NT2	iridium 192
NT2	californium 252	NT2	rutherfordium 261	NT2	iron 55
NT2	californium 254	NT2	rutherfordium 262	NT2	iron 60
NT2	californium 256	NT2	rutherfordium 263	NT2	krypton 81
NT2	copernicium 282	NT2	rutherfordium 267	NT2	krypton 85
NT2	copernicium 283	NT2	seaborgium 258	NT2	lanthanum 137
NT2	copernicium 284	NT2	seaborgium 259	NT2	lanthanum 138
NT2	curium 240	NT2	seaborgium 260	NT2	lead 202
NT2	curium 241	NT2	seaborgium 261	NT2	lead 205
NT2	curium 242	NT2	seaborgium 262	NT2	lead 210
NT2	curium 243	NT2	seaborgium 263	NT2	lutetium 173
NT2	curium 244	NT2	seaborgium 264	NT2	lutetium 174
NT2	curium 245	NT2	seaborgium 265	NT2	lutetium 176
NT2	curium 246	NT2	seaborgium 266	NT2	manganese 53
NT2	curium 248	NT2	seaborgium 268	NT2	mercury 194
NT2	curium 250	NT2	seaborgium 270	NT2	molybdenum 93
NT2	darmstadtium 272	NT2	seaborgium 271	NT2	neodymium 144
NT2	darmstadtium 279	NT2	seaborgium 272	NT2	neptunium 235
NT2	darmstadtium 281	NT2	seaborgium 273	NT2	neptunium 236
NT2	dubnium 255	NT2	thorium 230	NT2	neptunium 237
NT2	dubnium 256	NT2	thorium 232	NT2	nickel 59
NT2	dubnium 257	NT2	uranium 232	NT2	nickel 63
NT2	dubnium 258	NT2	uranium 233	NT2	niobium 91
NT2	dubnium 259	NT2	uranium 234	NT2	niobium 92
NT2	dubnium 260	NT2	uranium 235	NT2	niobium 93
NT2	dubnium 261	NT2	uranium 236	NT2	niobium 94
NT2	dubnium 262	NT2	uranium 238	NT2	osmium 186
NT2	dubnium 263	NT1	years living radioisotopes	NT2	osmium 194
NT2	dubnium 267	NT2	actinium 227	NT2	palladium 107
NT2	dubnium 268	NT2	aluminium 26	NT2	platinum 190
NT2	einsteinium 253	NT2	americium 241	NT2	platinum 193
NT2	einsteinium 254	NT2	americium 242	NT2	plutonium 236
NT2	einsteinium 255	NT2	americium 243	NT2	plutonium 238
NT2	einsteinium 257	NT2	antimony 125	NT2	plutonium 239
NT2	fermium 241	NT2	argon 39	NT2	plutonium 240
NT2	fermium 242	NT2	argon 42	NT2	plutonium 241
NT2	fermium 244	NT2	barium 133	NT2	plutonium 242
NT2	fermium 246	NT2	berkelium 247	NT2	plutonium 244
NT2	fermium 248	NT2	beryllium 10	NT2	polonium 208
NT2	fermium 250	NT2	bismuth 207	NT2	polonium 209



NT2 potassium 40  
 NT2 promethium 144  
 NT2 promethium 145  
 NT2 promethium 146  
 NT2 promethium 147  
 NT2 protactinium 231  
 NT2 radium 226  
 NT2 radium 228  
 NT2 rhenium 186  
 NT2 rhenium 187  
 NT2 rhodium 101  
 NT2 rubidium 87  
 NT2 ruthenium 106  
 NT2 samarium 146  
 NT2 samarium 147  
 NT2 samarium 148  
 NT2 samarium 151  
 NT2 selenium 79  
 NT2 silicon 32  
 NT2 silver 108  
 NT2 sodium 22  
 NT2 strontium 90  
 NT2 tantalum 179  
 NT2 technetium 97  
 NT2 technetium 98  
 NT2 technetium 99  
 NT2 tellurium 123  
 NT2 terbium 157  
 NT2 terbium 158  
 NT2 thallium 204  
 NT2 thorium 228  
 NT2 thorium 229  
 NT2 thorium 230  
 NT2 thorium 232  
 NT2 thulium 171  
 NT2 tin 121  
 NT2 tin 126  
 NT2 titanium 44  
 NT2 tritium  
 NT2 uranium 232  
 NT2 uranium 233  
 NT2 uranium 234  
 NT2 uranium 235  
 NT2 uranium 236  
 NT2 uranium 238  
 NT2 vanadium 50  
 NT2 zirconium 93  
 RT biological localization  
 RT carrier-free isotopes  
 RT carriers  
 RT natural occurrence  
 RT nuclear medicine  
 RT radiation sources  
 RT radioactive materials  
 RT radioactivity  
 RT radioimmunoassay  
 RT radioisotope batteries  
 RT radionuclide administration  
 RT radionuclide kinetics  
 RT radionuclide metrology  
 RT radionuclide migration  
 RT radiopharmaceuticals

## RADIOLOGICAL DISPERSAL DEVICES

2009-09-08

*Devices or mechanisms that spread radioactive material by detonating explosives or by other means, with the intention to kill and/or cause disruption in a city or nation.*

UF dirty bombs

BT1 weapons

RT biological radiation effects

RT contamination

RT national security

RT radiological warfare

## RADIOLOGICAL PERSONNEL

\*BT1 medical personnel

RT biomedical radiography

RT industrial radiography

## radiological protection

USE radiation protection

## RADIOLOGICAL WARFARE

INIS: 1992-03-16; ETDE: 1987-07-09

*Employment of agents or weapons to produce casualties by means of ionizing radiations, as distinguished from blast or thermal effects.*

BT1 warfare

RT enhanced radiation weapons

RT radiological dispersal devices

## RADIOLOGY

*For the use of radiant energy in medicine.*

\*BT1 nuclear medicine

NT1 biomedical radiography

NT2 fluoroscopy

NT2 ionographic imaging

NT2 osteodensitometry

NT2 renography

NT1 radiotherapy

NT2 afterloading

NT2 brachytherapy

NT3 radioembolization

NT2 ct-guided radiotherapy

NT2 external beam radiation therapy

NT2 neutron therapy

NT3 neutron capture therapy

NT2 radioimmunotherapy

RT diagnosis

RT diagnostic techniques

## RADIOLUMINESCENCE

\*BT1 luminescence

NT1 radiothermoluminescence

RT scintillations

## RADIOLYSIS

UF damage (radiation, chemical)

UF degradation (radioinduced)

UF radiation damage (chemical)

UF radiodecomposition

\*BT1 chemical radiation effects

\*BT1 decomposition

NT1 autoradiolysis

RT dissociation

RT g value

RT photolysis

RT radiation chemistry

## RADIOMETERS

\*BT1 radiation detectors

RT heterodyne receivers

RT pyranometers

## RADIOMETRIC ANALYSIS

*Quantitative analysis for a radioactive component with known specific activity, based on measurement of its absolute disintegration rate.*

\*BT1 quantitative chemical analysis

RT radiation scattering analysis

RT radioactivity

RT radiochemical analysis

## RADIOMETRIC GAGES

UF beta backscattering gages

BT1 measuring instruments

NT1 electron-capture detectors

RT densimeters

RT level indicators

RT moisture gages

RT nondestructive testing

RT radiometric sorting

RT sedimentometers

RT thickness gages

## RADIOMETRIC SORTING

BT1 sorting

RT ore processing

RT radiometric gages

## RADIOMETRIC SURVEYS

INIS: 1978-11-24; ETDE: 1978-02-14

\*BT1 geophysical surveys

RT aerial prospecting

RT exploration

RT gamma spectroscopy

RT radioactivity logging

RT uranium deposits

## RADIOMIMETIC DRUGS

BT1 drugs

NT1 neocarcinostatin

RT antimetabolic drugs

RT carcinogens

RT dna adducts

RT mutagens

## RADIONUCLIDE ADMINISTRATION

RT blood-plasma clearance

RT inhalation

RT injection

RT intake

RT intratracheal administration

RT oral administration

RT radioisotopes

RT radionuclide kinetics

## radionuclide concentration

USE radioactivity

## radionuclide distributions

USE radionuclide kinetics

## RADIONUCLIDE KINETICS

*For radionuclides in living organisms only; see also TRANSLOCATION.*

UF contamination (internal)

UF internal contamination

UF radioisotope kinetics

UF radionuclide distributions

UF radionuclide metabolism

UF radionuclide transfer (in organisms)

UF radionuclide turnover

UF transfer (in organism)

UF transfer (radionuclides in organisms)

UF transport (in organisms)

UF transport (radionuclides in biological systems)

UF transport (radionuclides in organisms)

UF turnover (radionuclides)

UF kinetics

BT1 kinetics

RT biological half-life

RT biological hot spots

RT biological localization

RT biophysics

RT blood-plasma clearance

RT body burden

RT bone seekers

RT carriers

RT compartments

RT concentration ratio

RT critical organs

RT dose commitments

RT dynamic function studies

RT excretion

RT intake

RT internal irradiation

RT metabolism

RT nonuniform irradiation

RT personnel monitoring

RT radioactivity

RT radioisotopes

RT radionuclide administration

RT retention

RT retention functions

RT tissue distribution

RT tracer techniques

RT unsealed sources

- RT uptake  
RT whole-body counting

**radionuclide metabolism**

- USE radionuclide kinetics

**RADIONUCLIDE METROLOGY**

2017-03-23

- BT1 metrology  
RT radioactivity  
RT radioisotopes

**RADIONUCLIDE MIGRATION**

*In environment.*

- UF migration (radionuclide)  
UF radioisotope migration  
UF radionuclide transfer (in environment)  
UF transfer (environmental radionuclides)  
UF transfer (in environment)  
UF transport (environmental radionuclides)  
\*BT1 environmental transport  
RT backfilling  
RT biological availability  
RT clays  
RT diffusion  
RT ecosystems  
RT environment  
RT environmental exposure pathway  
RT fallout deposits  
RT food chains  
RT ground water  
RT irrigation  
RT natural analogue  
RT particle resuspension  
RT radioecological concentration  
RT radioecology  
RT radioisotopes  
RT soils  
RT tracer techniques  
RT transfrontier contamination  
RT translocation

**radionuclide transfer (in environment)**

1993-11-09

- USE radionuclide migration

**radionuclide transfer (in organisms)**

1993-11-09

- USE radionuclide kinetics

**radionuclide turnover**

- USE radionuclide kinetics

**radionuclides**

- USE radioisotopes

**radiopasteurization**

(Prior to July 1985, this was a valid ETDE descriptor.)

- USE radication

**RADIOPHARMACEUTICALS**

1996-10-23

- UF radioisotope-labelled drugs  
SF radioactive tracers  
BT1 drugs  
BT1 labelled compounds  
\*BT1 radioactive materials  
RT biological localization  
RT brachytherapy  
RT bromosulphothalein  
RT cpb  
RT diagnosis  
RT dual-isotope subtraction technique  
RT dynamic function studies  
RT ecat scanning  
RT methyl tyrosine

- RT mibg  
RT microspheres  
RT nuclear medicine  
RT radiocolloids  
RT radioisotopes  
RT scintiscanning  
RT tracer techniques

**radiophotoluminescent dosimeters**

- USE rpl dosimeters

**radiopolymerization**

- USE chemical radiation effects  
USE polymerization

**RADIOPRESERVATION**

1985-07-19

(Prior to August 1985 RADURIZATION was used.)

- BT1 irradiation  
BT1 preservation  
NT1 radurization  
RT food  
RT food processing  
RT storage life

**RADIOPROTECTIVE SUBSTANCES**

1996-10-23

(Prior to August 1996 ROYAL JELLY was a valid ETDE descriptor.)

- UF cytriphos  
UF dose reduction factor  
UF dose relative factor  
UF drf  
UF ethyrone  
UF ethyroneethyl phosphinate  
UF pentacyn  
SF royal jelly  
SF tumor necrosis factor  
BT1 drugs  
BT1 response modifying factors  
NT1 beta-aminoethyl isothiourrea  
NT1 cystamine  
NT1 cystaphos  
NT1 cysteamine  
NT1 dimercaprol  
NT1 dtpa  
NT1 gammaphos  
NT1 glutathione  
NT1 hydroxytryptophan  
NT1 kallikrein  
NT1 mercaptoethylguanidine  
NT1 mercaptopropylamine  
NT1 mexamine  
NT1 mpg  
NT1 penicillamine  
NT1 serotonin  
NT2 bufotenine  
RT radiation protection  
RT radiosensitivity effects

**RADIORECEPTOR ASSAY**

1980-05-14

- UF radio-receptor assay  
UF rra  
BT1 radioassay  
\*BT1 tracer techniques  
RT bioassay  
RT cell membranes  
RT receptors

**radiorelease analysis**

INIS: 1984-07-20; ETDE: 2002-04-26

- USE radio-release analysis

**radioresistance**

- USE radiosensitivity

**radioresistant**

2015-08-14

- USE radiosensitivity

**RADIOSENSITIVITY**

- UF radioresistance  
UF radioresistant  
BT1 sensitivity  
RT biological radiation effects  
RT dose-response relationships  
RT radiation effects  
RT radiobiology  
RT radiosensitivity effects  
RT radiosensitizers  
RT response modifying factors  
RT survival curves

**RADIOSENSITIVITY EFFECTS**

- RT bystander effects  
RT radioprotective substances  
RT radiosensitivity  
RT radiosensitizers

**RADIOSENSITIZERS**

1996-10-22

- BT1 drugs  
BT1 response modifying factors  
NT1 fudr  
NT1 metronidazole  
NT1 misonidazole  
NT1 nem  
NT1 triacetoneamine-n-oxy  
RT antimetotic drugs  
RT radiosensitivity  
RT radiosensitivity effects

**RADIOSTERILIZATION**

1985-07-19

(Prior to August 1985 STERILIZATION was used for the radiosterilization of non-food items.)

- BT1 irradiation  
BT1 sterilization  
NT1 radappertization  
RT isomed  
RT radiodisinfestation  
RT sterile insect release  
RT sterile male technique

**radiosterilization (food)**

ETDE: 1995-05-05

- USE radappertization

**radiosurgery**

- USE radiotherapy  
USE surgery

**RADIOTHERAPY**

- UF contact radiotherapy  
UF high energy radiotherapy  
UF plesiotherapy  
UF radiosurgery  
UF superevoltage radiotherapy  
UF teletherapy  
\*BT1 radiology  
\*BT1 therapy  
NT1 afterloading  
NT1 brachytherapy  
NT2 radioembolization  
NT1 ct-guided radiotherapy  
NT1 external beam radiation therapy  
NT1 neutron therapy  
NT2 neutron capture therapy  
NT1 radioimmunotherapy  
RT anticonvulsants  
RT collimators  
RT combined therapy  
RT cumulative radiation effects  
RT depth dose distributions  
RT equivalent radiation doses  
RT fractionated irradiation  
RT irradiation  
RT isodose curves  
RT jinr phasotron

RT pbi  
 RT phantoms  
 RT radiation source implants

**RADIOTHERMOLUMINESCENCE**

INIS: 1980-12-01; ETDE: 1981-01-09

\*BT1 radioluminescence  
 \*BT1 thermoluminescence

**radiothorium**

USE thorium 228

**RADIOTOXINS**

RT abscolpal radiation effects  
 RT toxins

**RADIOWAVE RADIATION**

1996-06-28

UF decimeter wave radiation (1-3 dm)  
 UF decimeter wave radiation (3-10dm)  
 UF meter wave radiation  
 UF shf radiation  
 UF super high frequency radiation  
 UF uhf radiation (01-100 ghz)  
 UF uhf radiation (100-1000 mhz)  
 UF uhf radiation (lower range)  
 UF uhf radiation (upper range)  
 UF ultrahigh frequency radiation (01-100 ghz)  
 UF ultrahigh frequency radiation (100-1000 mhz)  
 UF ultrahigh frequency radiation (lower range)  
 UF ultrahigh frequency radiation (upper range)  
 UF very high frequency radiation  
 UF vhf radiation  
 \*BT1 electromagnetic radiation  
 NT1 long wave radiation  
 NT1 medium wave radiation  
 NT1 radio noise  
 NT2 atmospherics  
 NT2 whistlers  
 NT1 radioecho  
 NT1 short wave radiation  
 NT1 solar radio bursts  
 NT1 solar radiowave radiation  
 RT cosmic radio sources  
 RT critical frequency  
 RT polar-cap absorption  
 RT radar  
 RT radio equipment  
 RT rf systems  
 RT signal distortion

**RADISHES**

\*BT1 magnoliopsida  
 \*BT1 vegetables  
 RT brassica

**RADIUM**

\*BT1 alkaline earth metals  
 RT natural radioactivity

**RADIUM 201**

2007-11-22

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes

**RADIUM 202**

2007-11-22

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes

**RADIUM 203**

2007-11-22

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei

\*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 204**

2007-11-22

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 205**

INIS: 1988-04-15; ETDE: 1988-05-23

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 206**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 207**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 208**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 209**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 210**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 211**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 212**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 213**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 214**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 215**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 216**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 217**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 218**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 219**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 220**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 221**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 222**

\*BT1 alpha decay radioisotopes  
 \*BT1 carbon 14 decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 223**

UF actinium x  
 \*BT1 alpha decay radioisotopes  
 \*BT1 carbon 14 decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes

**RADIUM 224**

UF thorium x  
 \*BT1 alpha decay radioisotopes  
 \*BT1 carbon 14 decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes

**RADIUM 225**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 radium isotopes

**RADIUM 226**

- \*BT1 alpha decay radioisotopes
- \*BT1 carbon 14 decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 years living radioisotopes

**RADIUM 226 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**RADIUM 227**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radium isotopes

**RADIUM 228**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 radium isotopes
- \*BT1 years living radioisotopes

**RADIUM 229**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radium isotopes

**RADIUM 230**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 radium isotopes

**RADIUM 231**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radium isotopes

**RADIUM 232**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radium isotopes

**RADIUM 233**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 234**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**radium a**

- USE polonium 218

**radium additions**

*2000-04-12*

(Prior to August 1993 this was a valid ETDE descriptor.)

- USE alloys
- USE radium compounds

**radium b**

- USE lead 214

**RADIUM BROMIDES**

- \*BT1 bromides
- \*BT1 radium halides

**radium c**

- USE bismuth 214

**radium c/**

- USE polonium 214

**radium c//**

- USE thallium 210

**RADIUM CARBONATES**

*1996-07-08*

(From June 1996 to November 2007

RADIUM COMPOUNDS + CARBONATES was used for this concept.)

- \*BT1 carbonates
- \*BT1 radium compounds

**RADIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 radium halides

**RADIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**RADIUM COMPOUNDS**

*1997-06-19*

- UF radium additions
- BT1 alkaline earth metal compounds
- NT1 radium carbonates
- NT1 radium halides
- NT2 radium bromides
- NT2 radium chlorides
- NT2 radium fluorides
- NT1 radium nitrates
- NT1 radium nitrides
- NT1 radium oxides
- NT1 radium silicates
- NT1 radium sulfates

**radium d**

- USE lead 210

**radium e**

- USE bismuth 210

**radium e//**

- USE thallium 206

**radium f**

- USE polonium 210

**RADIUM FLUORIDES**

*1996-07-08*

(From June 1996 to February 2008 RADIUM COMPOUNDS + FLUORIDES was used for this concept.)

- \*BT1 fluorides
- \*BT1 radium halides

**radium g**

- USE lead 206

**RADIUM HALIDES**

*2008-02-07*

- \*BT1 halides
- \*BT1 radium compounds
- NT1 radium bromides
- NT1 radium chlorides
- NT1 radium fluorides

**RADIUM IONS**

- \*BT1 ions

**RADIUM ISOTOPES**

*1999-02-01*

- \*BT1 alkaline earth isotopes

NT1 radium 201

NT1 radium 202

NT1 radium 203

NT1 radium 204

NT1 radium 205

NT1 radium 206

NT1 radium 207

NT1 radium 208

NT1 radium 209

NT1 radium 210

NT1 radium 211

NT1 radium 212

NT1 radium 213

NT1 radium 214

NT1 radium 215

NT1 radium 216

NT1 radium 217

NT1 radium 218

NT1 radium 219

NT1 radium 220

NT1 radium 221

NT1 radium 222

NT1 radium 223

NT1 radium 224

NT1 radium 225

NT1 radium 226

NT1 radium 227

NT1 radium 228

NT1 radium 229

NT1 radium 230

NT1 radium 231

NT1 radium 232

NT1 radium 233

NT1 radium 234

RT bone seekers

**RADIUM NITRATES**

*INIS: 2000-04-12; ETDE: 1976-03-11*

- \*BT1 nitrates
- \*BT1 radium compounds

**RADIUM NITRIDES**

*INIS: 2000-04-12; ETDE: 1994-08-10*

- \*BT1 nitrides
- \*BT1 radium compounds

**RADIUM OXIDES**

*INIS: 2000-04-12; ETDE: 1976-03-11*

- \*BT1 oxides
- \*BT1 radium compounds

**RADIUM SILICATES**

*INIS: 2000-04-12; ETDE: 1976-03-11*

(From January 1993 to November 2007 RADIUM COMPOUNDS + SILICATES was used for this concept.)

- \*BT1 radium compounds
- \*BT1 silicates

**RADIUM SULFATES**

- \*BT1 radium compounds
- \*BT1 sulfates

**RADON**

- \*BT1 rare gases
- RT natural radioactivity

**RADON 193**

*2007-04-19*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 194**

*2007-04-19*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radon isotopes



- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 227**

*INIS: 1987-01-28; ETDE: 1987-02-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 228**

*INIS: 1989-07-19; ETDE: 1989-08-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 229**

*2009-06-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes

**RADON COMPLEXES**

*2012-05-04*

- BT1 complexes

**RADON COMPOUNDS**

*1996-01-24*

- BT1 rare gas compounds
- NT1 radon halides
  - NT2 radon fluorides
- NT1 radon oxides

**RADON FLUORIDES**

- \*BT1 fluorides
- \*BT1 radon halides

**RADON HALIDES**

*2012-07-25*

- \*BT1 halides
- \*BT1 radon compounds
- NT1 radon fluorides

**RADON IONS**

- \*BT1 ions

**RADON ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 radon 193
- NT1 radon 194
- NT1 radon 195
- NT1 radon 196
- NT1 radon 197
- NT1 radon 198
- NT1 radon 199
- NT1 radon 200
- NT1 radon 201
- NT1 radon 202
- NT1 radon 203
- NT1 radon 204
- NT1 radon 205
- NT1 radon 206
- NT1 radon 207
- NT1 radon 208
- NT1 radon 209
- NT1 radon 210
- NT1 radon 211
- NT1 radon 212
- NT1 radon 213
- NT1 radon 214
- NT1 radon 215
- NT1 radon 216
- NT1 radon 217
- NT1 radon 218
- NT1 radon 219

- NT1 radon 220
- NT1 radon 221
- NT1 radon 222
- NT1 radon 223
- NT1 radon 224
- NT1 radon 225
- NT1 radon 226
- NT1 radon 227
- NT1 radon 228
- NT1 radon 229

**radon monitors**

- USE emanometers

**RADON OXIDES**

- \*BT1 oxides
- \*BT1 radon compounds

**RADURIZATION**

*Use of irradiation to prolong shelf-life of food.*

- UF food irradiation (radiopreservation)
- \*BT1 food processing
- \*BT1 radiopreservation
- RT food
- RT ifip

**RAFFINOSE**

- \*BT1 oligosaccharides

**RAFT RIVER VALLEY**

*INIS: 2000-04-12; ETDE: 1976-05-17*

- BT1 valleys
- RT idaho

**rahyd process**

*INIS: 2000-04-12; ETDE: 1979-11-07*  
*Dry reprocessing of U and TH metallic fuels.*  
 (Prior to June 1991 this was a valid ETDE descriptor.)

- USE reprocessing

**RAIL TRANSPORT**

*INIS: 1981-03-10; ETDE: 1976-06-07*

- \*BT1 land transport
- RT monorails
- RT railroad cars
- RT railways
- RT routing
- RT vehicles

**RAILGUN ACCELERATORS**

*INIS: 1981-09-18; ETDE: 1980-01-15*  
*Type of macroparticle accelerator to be used in inertial confinement fusion.*

- BT1 accelerators
- RT impact fusion
- RT impact fusion drivers

**RAILROAD CARS**

*INIS: 1981-03-10; ETDE: 1978-08-07*

- BT1 vehicles
- RT locomotives
- RT rail transport
- RT railways
- RT trains

**RAILWAYS**

*1993-03-18*

- NT1 electric railways
- NT1 monorails
- RT levitated trains
- RT locomotives
- RT rail transport
- RT railroad cars
- RT rapid transit systems
- RT trains

**RAIN**

- BT1 atmospheric precipitations
- NT1 acid rain
- RT droplets
- RT landslides

- RT monsoons
- RT natural disasters
- RT rain water
- RT snow
- RT storms
- RT washout

**RAIN WATER**

- \*BT1 water
- NT1 throughfall
- RT atmospheric precipitations
- RT interception
- RT rain
- RT runoff

**rainout**

- USE washout

**RAJASTHAN-1 REACTOR**

*Kota, Rajasthan, India.*

- UF raps-1 reactor
- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**RAJASTHAN-2 REACTOR**

*Kota, Rajasthan, India.*

- UF raps-2 reactor
- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**RAJASTHAN-3 REACTOR**

*INIS: 1993-02-09; ETDE: 1993-03-04*

*Kota, Rajasthan, India.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**RAJASTHAN-4 REACTOR**

*INIS: 1993-02-09; ETDE: 1993-03-04*

*Kota, Rajasthan, India.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**RAJASTHAN-5 REACTOR**

*2005-07-22*

*Nuclear Power Corporation of India Ltd.,*

*Kota, Rajasthan, India.*

- \*BT1 phwr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**RAJASTHAN-6 REACTOR**

*2005-07-22*

*Nuclear Power Corporation of India Ltd.,*

*Kota, Rajasthan, India.*

- \*BT1 phwr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**RAKE-2 REACTOR**

*ETDE: 1975-09-11*

*Central Institute for Nuclear Research  
 Rossendorf, Dresden, Federal Republic of  
 Germany. Decommissioned since 1997.*

*UF rake reactor*

*UF rossendorf assembly for critical  
 experiments*

- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 water moderated reactors
- \*BT1 zero power reactors

**rake reactor**

*2018-08-16*

- USE rake-2 reactor

**raleigh-ncsc research reactor-1**

*1993-11-09*

- USE ncsr-1 reactor

**raleigh pulstar reactor**

USE pulstar-raleigh reactor

**RAMAN EFFECT**

RT raman spectra  
 RT raman spectroscopy  
 RT scattering  
 RT spectra  
 RT ultraviolet radiation  
 RT visible radiation

**RAMAN SPECTRA**

INIS: 1976-02-05; ETDE: 1975-10-01

BT1 spectra  
 RT laser spectroscopy  
 RT raman effect  
 RT raman spectroscopy

**RAMAN SPECTROSCOPY**

INIS: 1986-04-04; ETDE: 1983-03-07

(Prior to March 1983 this concept was indexed to RAMAN SPECTRA in ETDE.)

UF cars (spectroscopy)  
 UF coherent anti-stokes raman spectroscopy  
 \*BT1 laser spectroscopy  
 RT quantitative chemical analysis  
 RT raman effect  
 RT raman spectra

**RAMJET ENGINES**

\*BT1 internal combustion engines

**RAMSAUER EFFECT**

UF ramsauer-townsend effect  
 RT elastic scattering

**ramsauer-townsend effect**

USE ramsauer effect

**rana**

USE frogs

**RANA REACTOR**

National Nuclear Energy Committee, Rome, Italy. Permanent shutdown since 1981.

UF casaccia rana reactor  
 UF ispra-2 rana reactor

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**RANCE POWER PLANT**

INIS: 1992-08-26; ETDE: 1975-07-29

\*BT1 tidal power plants

**RANCHO SECO-1 REACTOR**

Sacramento Municipal Utility District, Clay Station, California, USA. Shut down in 1989; decommissioned in 1995.

UF sacramento rancho seco-1 reactor  
 \*BT1 pwr type reactors

**RANCHO SECO-2 REACTOR**

Clay Station, California, USA. Unit never ordered.

UF sacramento rancho seco-2 reactor  
 \*BT1 power reactors

**random number generators**

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE computer codes  
 SEE randomness

**RANDOM PHASE APPROXIMATION**

\*BT1 approximations  
 RT boson expansion  
 RT ericson theory  
 RT statistics

**RANDOMNESS**

1995-11-21

(From March 1983 till March 1997 RANDOMNESS was a valid ETDE descriptor.)

SF random number generators  
 RT attractors  
 RT ergodic divertors  
 RT monte carlo method

**RANGE**

The range of particles and radiations in matter; not for the concepts covered by ENERGY RANGE or INTERACTION RANGE.

RT absorption  
 RT depth dose distributions  
 RT distance  
 RT energy losses  
 RT stopping power  
 RT straggling

**RANGE FINDERS**

INIS: 1976-03-25; ETDE: 1975-11-28

BT1 measuring instruments  
 NT1 radar  
 NT2 acoustic radar  
 NT2 optical radar  
 NT1 sonar

**RANGELANDS**

INIS: 2000-05-24; ETDE: 1978-09-13

Lands providing forage for domestic and wild animals, wildlife cover, recreation opportunities and vegetation for watershed protection.

UF grasslands  
 \*BT1 terrestrial ecosystems  
 RT domestic animals  
 RT grazing  
 RT management  
 RT pastures  
 RT plants  
 RT resource assessment  
 RT wild animals

**RANGER DEPOSIT**

INIS: 1977-03-14; ETDE: 1977-06-03

\*BT1 uranium deposits  
 RT northern territory  
 RT uranium ores

**RANGER PROJECT**

INIS: 2000-04-12; ETDE: 1987-05-06

\*BT1 atmospheric explosions  
 \*BT1 nuclear explosions

**RANKINE CYCLE**

An ideal thermodynamic cycle consisting of heat addition at constant pressure, isentropic expansion, heat rejection at constant pressure, and isentropic compression; used as an ideal standard for the performance of heat-engine and heat-pump installations operating with a condensable vapor as the working fluid, such as a steam power plant. also known as steam cycle.

BT1 thermodynamic cycles  
 RT rankine cycle power systems  
 RT thermodynamics

**RANKINE CYCLE ENGINES**

1992-11-04

\*BT1 heat engines  
 RT automobiles  
 RT rankine cycle power systems  
 RT steam  
 RT vapor generators

**RANKINE CYCLE POWER SYSTEMS**

1992-03-11

\*BT1 power systems  
 RT rankine cycle  
 RT rankine cycle engines

**RANKINE-HUGONIOT EQUATIONS**

1999-07-07

BT1 equations  
 RT shock waves

**RANQUILITE**

2000-04-12

\*BT1 silicate minerals  
 \*BT1 uranium minerals  
 RT calcium silicates  
 RT uranium silicates

**RANSTAD DEPOSIT**

INIS: 1980-12-01; ETDE: 1981-01-09

\*BT1 uranium deposits  
 RT sweden  
 RT uranium ores

**RANUNCULACEAE**

UF buttercups  
 UF caraway  
 UF crowfoot  
 UF delphinium  
 UF nigella  
 \*BT1 magnoliopsida

**rapeseed**

INIS: 2002-04-15; ETDE: 2002-03-26

USE brassica

**RAPID TRANSIT SYSTEMS**

INIS: 2000-04-12; ETDE: 1975-11-28

BT1 transportation systems  
 RT electric railways  
 RT mass transit systems  
 RT railways  
 RT trains  
 RT transport

**rapidity**

ETDE: 2002-05-01

USE particle rapidity

**raps-1 reactor**

USE rajasthan-1 reactor

**raps-2 reactor**

USE rajasthan-2 reactor

**RAPSODIE REACTOR**

CEA/CEN Cadarache, st. Paul Lez Durance, France. Decommissioned since 1984.

UF cadarache rapsodie reactor  
 UF fortissimo reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 lmfbr type reactors  
 \*BT1 plutonium reactors  
 \*BT1 sodium cooled reactors  
 \*BT1 test reactors

**RARE EARTH ADDITIONS**

\*BT1 rare earth alloys  
 NT1 cerium additions  
 NT1 dysprosium additions  
 NT1 erbium additions  
 NT1 europium additions  
 NT1 gadolinium additions  
 NT1 holmium additions  
 NT1 lanthanum additions  
 NT2 alloy-co36cr22ni22w15fe3  
 NT3 haynes 188 alloy  
 NT1 lutetium additions  
 NT1 neodymium additions  
 NT1 praseodymium additions  
 NT1 promethium additions

NT1 samarium additions  
 NT1 terbium additions  
 NT1 thulium additions  
 NT1 ytterbium additions

**RARE EARTH ALLOYS**

1996-07-23

(Prior to March 1997 PROMETHIUM ALLOYS was a valid ETDE descriptor.)

UF *promethium alloys*  
 BT1 alloys  
 NT1 cerium alloys  
 NT2 cerium additions  
 NT2 cerium base alloys  
 NT3 misch metal  
 NT1 dysprosium alloys  
 NT2 dysprosium additions  
 NT2 dysprosium base alloys  
 NT1 erbium alloys  
 NT2 erbium additions  
 NT2 erbium base alloys  
 NT1 europium alloys  
 NT2 europium additions  
 NT2 europium base alloys  
 NT1 gadolinium alloys  
 NT2 gadolinium additions  
 NT2 gadolinium base alloys  
 NT1 holmium alloys  
 NT2 holmium additions  
 NT2 holmium base alloys  
 NT1 lanthanum alloys  
 NT2 lanthanum additions  
 NT3 alloy-co36cr22ni22w15fe3  
 NT4 haynes 188 alloy  
 NT2 lanthanum base alloys  
 NT2 misch metal  
 NT1 lutetium alloys  
 NT2 lutetium additions  
 NT2 lutetium base alloys  
 NT1 magnesium alloy-ek  
 NT1 magnesium alloy-ez  
 NT1 neodymium alloys  
 NT2 neodymium additions  
 NT2 neodymium base alloys  
 NT1 praseodymium alloys  
 NT2 praseodymium base alloys  
 NT1 rare earth additions  
 NT2 cerium additions  
 NT2 dysprosium additions  
 NT2 erbium additions  
 NT2 europium additions  
 NT2 gadolinium additions  
 NT2 holmium additions  
 NT2 lanthanum additions  
 NT3 alloy-co36cr22ni22w15fe3  
 NT4 haynes 188 alloy  
 NT2 lutetium additions  
 NT2 neodymium additions  
 NT2 praseodymium additions  
 NT2 promethium additions  
 NT2 samarium additions  
 NT2 terbium additions  
 NT2 thulium additions  
 NT2 ytterbium additions  
 NT1 samarium alloys  
 NT2 samarium additions  
 NT2 samarium base alloys  
 NT1 terbium alloys  
 NT2 terbium additions  
 NT2 terbium base alloys  
 NT1 thulium alloys  
 NT2 thulium additions  
 NT2 thulium base alloys  
 NT1 ytterbium alloys  
 NT2 ytterbium base alloys  
 RT actinide alloys

**RARE EARTH COMPLEXES**

BT1 complexes  
 NT1 cerium complexes

NT1 dysprosium complexes  
 NT1 erbium complexes  
 NT1 europium complexes  
 NT1 gadolinium complexes  
 NT1 holmium complexes  
 NT1 lanthanum complexes  
 NT1 lutetium complexes  
 NT1 neodymium complexes  
 NT1 praseodymium complexes  
 NT1 promethium complexes  
 NT1 samarium complexes  
 NT1 terbium complexes  
 NT1 thulium complexes  
 NT1 ytterbium complexes

**RARE EARTH COMPOUNDS**

SF *gadolinite*  
 NT1 cerium compounds  
 NT2 cerium arsenides  
 NT2 cerium borides  
 NT2 cerium carbides  
 NT2 cerium carbonates  
 NT2 cerium halides  
 NT3 cerium bromides  
 NT3 cerium chlorides  
 NT3 cerium fluorides  
 NT3 cerium iodides  
 NT2 cerium hydrides  
 NT2 cerium hydroxides  
 NT2 cerium nitrates  
 NT2 cerium nitrides  
 NT2 cerium oxides  
 NT2 cerium perchlorates  
 NT2 cerium phosphates  
 NT2 cerium phosphides  
 NT2 cerium selenides  
 NT2 cerium silicates  
 NT2 cerium silicides  
 NT2 cerium sulfates  
 NT2 cerium sulfides  
 NT2 cerium tellurides  
 NT2 cerium tungstates  
 NT1 dysprosium compounds  
 NT2 dysprosium borides  
 NT2 dysprosium carbides  
 NT2 dysprosium halides  
 NT3 dysprosium bromides  
 NT3 dysprosium chlorides  
 NT3 dysprosium fluorides  
 NT3 dysprosium iodides  
 NT2 dysprosium hydrides  
 NT2 dysprosium hydroxides  
 NT2 dysprosium nitrates  
 NT2 dysprosium nitrides  
 NT2 dysprosium oxides  
 NT2 dysprosium perchlorates  
 NT2 dysprosium phosphates  
 NT2 dysprosium phosphides  
 NT2 dysprosium selenides  
 NT2 dysprosium silicates  
 NT2 dysprosium silicides  
 NT2 dysprosium sulfates  
 NT2 dysprosium sulfides  
 NT2 dysprosium tellurides  
 NT2 dysprosium tungstates  
 NT1 erbium compounds  
 NT2 erbium borides  
 NT2 erbium carbides  
 NT2 erbium carbonates  
 NT2 erbium halides  
 NT3 erbium bromides  
 NT3 erbium chlorides  
 NT3 erbium fluorides  
 NT3 erbium iodides  
 NT2 erbium hydrides  
 NT2 erbium hydroxides  
 NT2 erbium nitrates  
 NT2 erbium nitrides  
 NT2 erbium oxides  
 NT2 erbium perchlorates  
 NT2 erbium phosphates  
 NT2 erbium phosphides  
 NT2 erbium selenides  
 NT2 erbium silicates  
 NT2 erbium silicides  
 NT2 erbium sulfates  
 NT2 erbium sulfides  
 NT2 erbium tellurides  
 NT2 erbium tungstates  
 NT1 europium compounds  
 NT2 europium arsenides  
 NT2 europium borides  
 NT2 europium carbides  
 NT2 europium carbonates  
 NT2 europium halides  
 NT3 europium bromides  
 NT3 europium chlorides  
 NT3 europium fluorides  
 NT3 europium iodides  
 NT2 europium hydrides  
 NT2 europium hydroxides  
 NT2 europium nitrates  
 NT2 europium nitrides  
 NT2 europium oxides  
 NT2 europium perchlorates  
 NT2 europium phosphates  
 NT2 europium phosphides  
 NT2 europium selenides  
 NT2 europium silicates  
 NT2 europium silicides  
 NT2 europium sulfates  
 NT2 europium sulfides  
 NT2 europium tellurides  
 NT1 gadolinium compounds  
 NT2 gadolinium arsenides  
 NT2 gadolinium borides  
 NT2 gadolinium carbides  
 NT2 gadolinium carbonates  
 NT2 gadolinium halides  
 NT3 gadolinium bromides  
 NT3 gadolinium chlorides  
 NT3 gadolinium fluorides  
 NT3 gadolinium iodides  
 NT2 gadolinium hydrides  
 NT2 gadolinium hydroxides  
 NT2 gadolinium nitrates  
 NT2 gadolinium nitrides  
 NT2 gadolinium oxides  
 NT2 gadolinium perchlorates  
 NT2 gadolinium phosphates  
 NT2 gadolinium phosphides  
 NT2 gadolinium selenides  
 NT2 gadolinium silicides  
 NT2 gadolinium sulfates  
 NT2 gadolinium sulfides  
 NT2 gadolinium tellurides  
 NT2 gadolinium tungstates  
 NT1 holmium compounds  
 NT2 holmium borides  
 NT2 holmium carbides  
 NT2 holmium carbonates  
 NT2 holmium halides  
 NT3 holmium bromides  
 NT3 holmium chlorides  
 NT3 holmium fluorides  
 NT3 holmium iodides  
 NT2 holmium hydrides  
 NT2 holmium hydroxides  
 NT2 holmium nitrates  
 NT2 holmium nitrides  
 NT2 holmium oxides  
 NT2 holmium perchlorates  
 NT2 holmium phosphates  
 NT2 holmium phosphides  
 NT2 holmium selenides  
 NT2 holmium silicates  
 NT2 holmium silicides  
 NT2 holmium sulfates  
 NT2 holmium sulfides



NT2	holmium tellurides	NT2	praseodymium hydrides	NT3	thulium chlorides
NT1	lanthanum compounds	NT2	praseodymium hydroxides	NT3	thulium fluorides
NT2	lanthanum borides	NT2	praseodymium nitrates	NT3	thulium iodides
NT2	lanthanum carbides	NT2	praseodymium nitrides	NT2	thulium hydrides
NT2	lanthanum carbonates	NT2	praseodymium oxides	NT2	thulium hydroxides
NT2	lanthanum halides	NT2	praseodymium perchlorates	NT2	thulium nitrates
NT3	lanthanum bromides	NT2	praseodymium phosphates	NT2	thulium nitrides
NT3	lanthanum chlorides	NT2	praseodymium phosphides	NT2	thulium oxides
NT3	lanthanum fluorides	NT2	praseodymium selenides	NT2	thulium perchlorates
NT3	lanthanum iodides	NT2	praseodymium silicates	NT2	thulium phosphates
NT2	lanthanum hydrides	NT2	praseodymium silicides	NT2	thulium phosphides
NT2	lanthanum hydroxides	NT2	praseodymium sulfates	NT2	thulium selenides
NT2	lanthanum nitrates	NT2	praseodymium sulfides	NT2	thulium silicates
NT2	lanthanum nitrides	NT2	praseodymium tellurides	NT2	thulium silicides
NT2	lanthanum oxides	NT2	praseodymium tungstates	NT2	thulium sulfates
NT2	lanthanum perchlorates	NT1	promethium compounds	NT2	thulium sulfides
NT2	lanthanum phosphates	NT2	promethium halides	NT2	thulium tellurides
NT2	lanthanum phosphides	NT3	promethium bromides	NT1	ytterbium compounds
NT2	lanthanum selenides	NT3	promethium chlorides	NT2	ytterbium borides
NT2	lanthanum silicates	NT3	promethium fluorides	NT2	ytterbium carbides
NT2	lanthanum silicides	NT3	promethium iodides	NT2	ytterbium carbonates
NT2	lanthanum sulfates	NT2	promethium hydroxides	NT2	ytterbium halides
NT2	lanthanum sulfides	NT2	promethium nitrates	NT3	ytterbium bromides
NT2	lanthanum tellurides	NT2	promethium oxides	NT3	ytterbium chlorides
NT2	lanthanum tungstates	NT2	promethium phosphates	NT3	ytterbium fluorides
NT2	plzt	NT1	samarium compounds	NT3	ytterbium iodides
NT1	lutetium compounds	NT2	samarium arsenides	NT2	ytterbium hydrides
NT2	lutetium borides	NT2	samarium borides	NT2	ytterbium hydroxides
NT2	lutetium carbides	NT2	samarium carbides	NT2	ytterbium nitrates
NT2	lutetium carbonates	NT2	samarium carbonates	NT2	ytterbium nitrides
NT2	lutetium halides	NT2	samarium halides	NT2	ytterbium oxides
NT3	lutetium bromides	NT3	samarium bromides	NT2	ytterbium perchlorates
NT3	lutetium chlorides	NT3	samarium chlorides	NT2	ytterbium phosphates
NT3	lutetium fluorides	NT3	samarium fluorides	NT2	ytterbium phosphides
NT3	lutetium iodides	NT3	samarium iodides	NT2	ytterbium selenides
NT2	lutetium hydrides	NT2	samarium hydrides	NT2	ytterbium silicates
NT2	lutetium hydroxides	NT2	samarium hydroxides	NT2	ytterbium silicides
NT2	lutetium nitrates	NT2	samarium nitrates	NT2	ytterbium sulfates
NT2	lutetium oxides	NT2	samarium nitrides	NT2	ytterbium sulfides
NT2	lutetium perchlorates	NT2	samarium oxides	NT2	ytterbium tellurides
NT2	lutetium phosphates	NT2	samarium perchlorates	NT2	ytterbium tungstates
NT2	lutetium phosphates	NT2	samarium phosphates		
NT2	lutetium selenides	NT2	samarium phosphides		
NT2	lutetium silicates	NT2	samarium selenides		
NT2	lutetium silicides	NT2	samarium silicates		
NT2	lutetium sulfates	NT2	samarium silicides		
NT2	lutetium sulfides	NT2	samarium sulfates		
NT2	lutetium tungstates	NT2	samarium sulfides		
NT1	neodymium compounds	NT2	samarium tellurides		
NT2	neodymium borides	NT2	samarium tungstates		
NT2	neodymium carbides	NT1	terbium compounds		
NT2	neodymium carbonates	NT2	terbium arsenides		
NT2	neodymium halides	NT2	terbium borides		
NT3	neodymium bromides	NT2	terbium carbides		
NT3	neodymium chlorides	NT2	terbium carbonates		
NT3	neodymium fluorides	NT2	terbium halides		
NT3	neodymium iodides	NT3	terbium bromides		
NT2	neodymium hydrides	NT3	terbium chlorides		
NT2	neodymium hydroxides	NT3	terbium fluorides		
NT2	neodymium nitrates	NT3	terbium iodides		
NT2	neodymium nitrides	NT2	terbium hydrides		
NT2	neodymium oxides	NT2	terbium hydroxides		
NT2	neodymium perchlorates	NT2	terbium nitrates		
NT2	neodymium phosphates	NT2	terbium nitrides		
NT2	neodymium phosphates	NT2	terbium oxides		
NT2	neodymium silicates	NT2	terbium perchlorates		
NT2	neodymium silicides	NT2	terbium phosphates		
NT2	neodymium sulfates	NT2	terbium phosphides		
NT2	neodymium sulfides	NT2	terbium selenides		
NT2	neodymium tellurides	NT2	terbium silicides		
NT2	neodymium tungstates	NT2	terbium sulfates		
NT1	praseodymium compounds	NT2	terbium sulfides		
NT2	praseodymium arsenides	NT2	terbium tellurides		
NT2	praseodymium borides	NT1	thulium compounds		
NT2	praseodymium carbides	NT2	thulium arsenides		
NT2	praseodymium carbonates	NT2	thulium borides		
NT2	praseodymium halides	NT2	thulium carbides		
NT3	praseodymium bromides	NT2	thulium halides		
NT3	praseodymium chlorides	NT3	thulium bromides		
NT3	praseodymium fluorides				
NT3	praseodymium iodides				

**rare earth elements**

ETDE: 2002-05-01

USE rare earths

**rare earth isotopes**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE rare earth nuclei

**RARE EARTH NUCLEI**

1997-01-30

UF rare earth isotopes

\*BT1 intermediate mass nuclei

NT1 cerium 119

NT1 cerium 120

NT1 cerium 121

NT1 cerium 122

NT1 cerium 123

NT1 cerium 124

NT1 cerium 125

NT1 cerium 126

NT1 cerium 127

NT1 cerium 128

NT1 cerium 129

NT1 cerium 130

NT1 cerium 131

NT1 cerium 132

NT1 cerium 133

NT1 cerium 134

NT1 cerium 135

NT1 cerium 136

NT1 cerium 137

NT1 cerium 138

NT1 cerium 139

NT1 cerium 140

NT1 cerium 141

NT1 cerium 142

NT1 cerium 143	NT1 erbium 172	NT1 gadolinium 169
NT1 cerium 144	NT1 erbium 173	NT1 holmium 140
NT1 cerium 145	NT1 erbium 174	NT1 holmium 141
NT1 cerium 146	NT1 erbium 175	NT1 holmium 142
NT1 cerium 147	NT1 erbium 176	NT1 holmium 143
NT1 cerium 148	NT1 erbium 177	NT1 holmium 144
NT1 cerium 149	NT1 europium 130	NT1 holmium 145
NT1 cerium 150	NT1 europium 131	NT1 holmium 146
NT1 cerium 151	NT1 europium 132	NT1 holmium 147
NT1 cerium 152	NT1 europium 133	NT1 holmium 148
NT1 cerium 153	NT1 europium 134	NT1 holmium 149
NT1 cerium 154	NT1 europium 135	NT1 holmium 150
NT1 cerium 155	NT1 europium 136	NT1 holmium 151
NT1 cerium 156	NT1 europium 137	NT1 holmium 152
NT1 cerium 157	NT1 europium 138	NT1 holmium 153
NT1 dysprosium 138	NT1 europium 139	NT1 holmium 154
NT1 dysprosium 139	NT1 europium 140	NT1 holmium 155
NT1 dysprosium 140	NT1 europium 141	NT1 holmium 156
NT1 dysprosium 141	NT1 europium 142	NT1 holmium 157
NT1 dysprosium 142	NT1 europium 143	NT1 holmium 158
NT1 dysprosium 143	NT1 europium 144	NT1 holmium 159
NT1 dysprosium 144	NT1 europium 145	NT1 holmium 160
NT1 dysprosium 145	NT1 europium 146	NT1 holmium 161
NT1 dysprosium 146	NT1 europium 147	NT1 holmium 162
NT1 dysprosium 147	NT1 europium 148	NT1 holmium 163
NT1 dysprosium 148	NT1 europium 149	NT1 holmium 164
NT1 dysprosium 149	NT1 europium 150	NT1 holmium 165
NT1 dysprosium 150	NT1 europium 151	NT1 holmium 166
NT1 dysprosium 151	NT1 europium 152	NT1 holmium 167
NT1 dysprosium 152	NT1 europium 153	NT1 holmium 168
NT1 dysprosium 153	NT1 europium 154	NT1 holmium 169
NT1 dysprosium 154	NT1 europium 155	NT1 holmium 170
NT1 dysprosium 155	NT1 europium 156	NT1 holmium 171
NT1 dysprosium 156	NT1 europium 157	NT1 holmium 172
NT1 dysprosium 157	NT1 europium 158	NT1 holmium 173
NT1 dysprosium 158	NT1 europium 159	NT1 holmium 174
NT1 dysprosium 159	NT1 europium 160	NT1 holmium 175
NT1 dysprosium 160	NT1 europium 161	NT1 lanthanum 117
NT1 dysprosium 161	NT1 europium 162	NT1 lanthanum 118
NT1 dysprosium 162	NT1 europium 163	NT1 lanthanum 119
NT1 dysprosium 163	NT1 europium 164	NT1 lanthanum 120
NT1 dysprosium 164	NT1 europium 165	NT1 lanthanum 121
NT1 dysprosium 165	NT1 europium 166	NT1 lanthanum 122
NT1 dysprosium 166	NT1 europium 167	NT1 lanthanum 123
NT1 dysprosium 167	NT1 gadolinium 134	NT1 lanthanum 124
NT1 dysprosium 168	NT1 gadolinium 135	NT1 lanthanum 125
NT1 dysprosium 169	NT1 gadolinium 136	NT1 lanthanum 126
NT1 dysprosium 170	NT1 gadolinium 137	NT1 lanthanum 127
NT1 dysprosium 171	NT1 gadolinium 138	NT1 lanthanum 128
NT1 dysprosium 172	NT1 gadolinium 139	NT1 lanthanum 129
NT1 dysprosium 173	NT1 gadolinium 140	NT1 lanthanum 130
NT1 erbium 143	NT1 gadolinium 141	NT1 lanthanum 131
NT1 erbium 144	NT1 gadolinium 142	NT1 lanthanum 132
NT1 erbium 145	NT1 gadolinium 143	NT1 lanthanum 133
NT1 erbium 147	NT1 gadolinium 144	NT1 lanthanum 134
NT1 erbium 148	NT1 gadolinium 145	NT1 lanthanum 135
NT1 erbium 149	NT1 gadolinium 146	NT1 lanthanum 136
NT1 erbium 150	NT1 gadolinium 147	NT1 lanthanum 137
NT1 erbium 151	NT1 gadolinium 148	NT1 lanthanum 138
NT1 erbium 152	NT1 gadolinium 149	NT1 lanthanum 139
NT1 erbium 153	NT1 gadolinium 150	NT1 lanthanum 140
NT1 erbium 154	NT1 gadolinium 151	NT1 lanthanum 141
NT1 erbium 155	NT1 gadolinium 152	NT1 lanthanum 142
NT1 erbium 156	NT1 gadolinium 153	NT1 lanthanum 143
NT1 erbium 157	NT1 gadolinium 154	NT1 lanthanum 144
NT1 erbium 158	NT1 gadolinium 155	NT1 lanthanum 145
NT1 erbium 159	NT1 gadolinium 156	NT1 lanthanum 146
NT1 erbium 160	NT1 gadolinium 157	NT1 lanthanum 147
NT1 erbium 161	NT1 gadolinium 158	NT1 lanthanum 148
NT1 erbium 162	NT1 gadolinium 159	NT1 lanthanum 149
NT1 erbium 163	NT1 gadolinium 160	NT1 lanthanum 150
NT1 erbium 164	NT1 gadolinium 161	NT1 lanthanum 151
NT1 erbium 165	NT1 gadolinium 162	NT1 lanthanum 152
NT1 erbium 166	NT1 gadolinium 163	NT1 lanthanum 153
NT1 erbium 167	NT1 gadolinium 164	NT1 lanthanum 154
NT1 erbium 168	NT1 gadolinium 165	NT1 lanthanum 155
NT1 erbium 169	NT1 gadolinium 166	NT1 lutetium 150
NT1 erbium 170	NT1 gadolinium 167	NT1 lutetium 151
NT1 erbium 171	NT1 gadolinium 168	NT1 lutetium 152

NT1	lutetium 153	NT1	praseodymium 129	NT1	samarium 138
NT1	lutetium 154	NT1	praseodymium 130	NT1	samarium 139
NT1	lutetium 155	NT1	praseodymium 131	NT1	samarium 140
NT1	lutetium 156	NT1	praseodymium 132	NT1	samarium 141
NT1	lutetium 157	NT1	praseodymium 133	NT1	samarium 142
NT1	lutetium 158	NT1	praseodymium 134	NT1	samarium 143
NT1	lutetium 159	NT1	praseodymium 135	NT1	samarium 144
NT1	lutetium 160	NT1	praseodymium 136	NT1	samarium 145
NT1	lutetium 161	NT1	praseodymium 137	NT1	samarium 146
NT1	lutetium 162	NT1	praseodymium 138	NT1	samarium 147
NT1	lutetium 163	NT1	praseodymium 139	NT1	samarium 148
NT1	lutetium 164	NT1	praseodymium 140	NT1	samarium 149
NT1	lutetium 165	NT1	praseodymium 141	NT1	samarium 150
NT1	lutetium 166	NT1	praseodymium 142	NT1	samarium 151
NT1	lutetium 167	NT1	praseodymium 143	NT1	samarium 152
NT1	lutetium 168	NT1	praseodymium 144	NT1	samarium 153
NT1	lutetium 169	NT1	praseodymium 145	NT1	samarium 154
NT1	lutetium 170	NT1	praseodymium 146	NT1	samarium 155
NT1	lutetium 171	NT1	praseodymium 147	NT1	samarium 156
NT1	lutetium 172	NT1	praseodymium 148	NT1	samarium 157
NT1	lutetium 173	NT1	praseodymium 149	NT1	samarium 158
NT1	lutetium 174	NT1	praseodymium 150	NT1	samarium 159
NT1	lutetium 175	NT1	praseodymium 151	NT1	samarium 160
NT1	lutetium 176	NT1	praseodymium 152	NT1	samarium 161
NT1	lutetium 177	NT1	praseodymium 153	NT1	samarium 162
NT1	lutetium 178	NT1	praseodymium 154	NT1	samarium 163
NT1	lutetium 179	NT1	praseodymium 155	NT1	samarium 164
NT1	lutetium 180	NT1	praseodymium 156	NT1	samarium 165
NT1	lutetium 181	NT1	praseodymium 157	NT1	terbium 135
NT1	lutetium 182	NT1	praseodymium 158	NT1	terbium 136
NT1	lutetium 183	NT1	praseodymium 159	NT1	terbium 137
NT1	lutetium 184	NT1	promethium 126	NT1	terbium 138
NT1	lutetium 187	NT1	promethium 127	NT1	terbium 139
NT1	neodymium 124	NT1	promethium 128	NT1	terbium 140
NT1	neodymium 125	NT1	promethium 129	NT1	terbium 141
NT1	neodymium 126	NT1	promethium 130	NT1	terbium 142
NT1	neodymium 127	NT1	promethium 131	NT1	terbium 143
NT1	neodymium 128	NT1	promethium 132	NT1	terbium 144
NT1	neodymium 129	NT1	promethium 133	NT1	terbium 145
NT1	neodymium 130	NT1	promethium 134	NT1	terbium 146
NT1	neodymium 131	NT1	promethium 135	NT1	terbium 147
NT1	neodymium 132	NT1	promethium 136	NT1	terbium 148
NT1	neodymium 133	NT1	promethium 137	NT1	terbium 149
NT1	neodymium 134	NT1	promethium 138	NT1	terbium 150
NT1	neodymium 135	NT1	promethium 139	NT1	terbium 151
NT1	neodymium 136	NT1	promethium 140	NT1	terbium 152
NT1	neodymium 137	NT1	promethium 141	NT1	terbium 153
NT1	neodymium 138	NT1	promethium 142	NT1	terbium 154
NT1	neodymium 139	NT1	promethium 143	NT1	terbium 155
NT1	neodymium 140	NT1	promethium 144	NT1	terbium 156
NT1	neodymium 141	NT1	promethium 145	NT1	terbium 157
NT1	neodymium 142	NT1	promethium 146	NT1	terbium 158
NT1	neodymium 143	NT1	promethium 147	NT1	terbium 159
NT1	neodymium 144	NT1	promethium 148	NT1	terbium 160
NT1	neodymium 145	NT1	promethium 149	NT1	terbium 161
NT1	neodymium 146	NT1	promethium 150	NT1	terbium 162
NT1	neodymium 147	NT1	promethium 151	NT1	terbium 163
NT1	neodymium 148	NT1	promethium 152	NT1	terbium 164
NT1	neodymium 149	NT1	promethium 153	NT1	terbium 165
NT1	neodymium 150	NT1	promethium 154	NT1	terbium 166
NT1	neodymium 151	NT1	promethium 155	NT1	terbium 167
NT1	neodymium 152	NT1	promethium 156	NT1	terbium 168
NT1	neodymium 153	NT1	promethium 157	NT1	terbium 169
NT1	neodymium 154	NT1	promethium 158	NT1	terbium 170
NT1	neodymium 155	NT1	promethium 159	NT1	terbium 171
NT1	neodymium 156	NT1	promethium 160	NT1	thulium 144
NT1	neodymium 157	NT1	promethium 161	NT1	thulium 145
NT1	neodymium 158	NT1	promethium 162	NT1	thulium 146
NT1	neodymium 159	NT1	promethium 163	NT1	thulium 147
NT1	neodymium 160	NT1	samarium 128	NT1	thulium 148
NT1	neodymium 161	NT1	samarium 129	NT1	thulium 149
NT1	praseodymium 121	NT1	samarium 130	NT1	thulium 150
NT1	praseodymium 122	NT1	samarium 131	NT1	thulium 151
NT1	praseodymium 123	NT1	samarium 132	NT1	thulium 152
NT1	praseodymium 124	NT1	samarium 133	NT1	thulium 153
NT1	praseodymium 125	NT1	samarium 134	NT1	thulium 154
NT1	praseodymium 126	NT1	samarium 135	NT1	thulium 155
NT1	praseodymium 127	NT1	samarium 136	NT1	thulium 156
NT1	praseodymium 128	NT1	samarium 137	NT1	thulium 157

**NT1** thulium 158  
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**NT1** ytterbium 148  
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**NT1** ytterbium 179  
**NT1** ytterbium 180  
**NT1** ytterbium 181

**RARE EARTHS**

*UF* lanthanides  
*UF* rare earth elements  
 \*BT1 metals  
**NT1** cerium  
   **NT2** cerium-alpha  
   **NT2** cerium-beta  
   **NT2** cerium-gamma  
**NT1** dysprosium  
**NT1** erbium  
**NT1** europium  
**NT1** gadolinium  
**NT1** holmium  
**NT1** lanthanum  
**NT1** lutetium  
**NT1** neodymium  
**NT1** praseodymium  
**NT1** promethium  
**NT1** samarium  
**NT1** terbium  
**NT1** thulium  
**NT1** ytterbium

*RT* thucholite

**RARE GAS COMPOUNDS**

**NT1** argon compounds  
   **NT2** argon halides  
     **NT3** argon chlorides  
     **NT3** argon fluorides  
     **NT3** argon iodides  
   **NT2** argon hydrides  
   **NT2** argon nitrides  
   **NT2** argon oxides  
**NT1** helium compounds  
   **NT2** helium halides  
     **NT3** helium chlorides  
   **NT2** helium hydrides  
   **NT2** helium hydroxides  
   **NT2** helium oxides  
   **NT2** helium tritides  
**NT1** krypton compounds  
   **NT2** krypton halides  
     **NT3** krypton bromides  
     **NT3** krypton chlorides  
     **NT3** krypton fluorides  
   **NT2** krypton hydrides  
   **NT2** krypton oxides  
**NT1** neon compounds  
   **NT2** neon halides  
     **NT3** neon bromides  
     **NT3** neon chlorides  
     **NT3** neon fluorides  
     **NT3** neon iodides  
   **NT2** neon hydrides  
   **NT2** neon oxides  
**NT1** radon compounds  
   **NT2** radon halides  
     **NT3** radon fluorides  
   **NT2** radon oxides  
**NT1** xenon compounds  
   **NT2** xenon halides  
     **NT3** xenon bromides  
     **NT3** xenon chlorides  
     **NT3** xenon fluorides  
     **NT3** xenon iodides  
   **NT2** xenon hydrides  
   **NT2** xenon oxides

**RARE GASES**

*UF* noble gases  
 \*BT1 gases  
 \*BT1 nonmetals  
**NT1** argon  
**NT1** helium  
**NT1** krypton  
**NT1** neon  
**NT1** radon  
**NT1** xenon  
*RT* clathrates  
*RT* emanation method  
*RT* emanation thermal analysis  
*RT* gas scintillation detectors  
*RT* inert atmosphere

**RAREFIED GASES**

\*BT1 gases

**RARITA-SCHWINGER THEORY**

*RT* quantum mechanics  
*RT* wave equations

**RAROTONGA TREATY**

*INIS*: 1992-01-07; *ETDE*: 1992-02-10  
 BT1 treaties  
*RT* arms control  
*RT* international agreements  
*RT* nuclear weapons

**ras al khaima**

*INIS*: 1992-05-07; *ETDE*: 1976-08-05  
 USE united arab emirates

**raschig rings**

USE column packing

**RASPBERRIES**

*INIS*: 1976-06-23; *ETDE*: 1976-08-24  
 \*BT1 berries  
*RT* rosaceae

**rat kangaroos**

*INIS*: 2000-04-12; *ETDE*: 1981-06-15  
 USE marsupials

**RATCHETING**

*INIS*: 1984-08-24; *ETDE*: 1976-07-07  
*Progressive distortion resulting from or enhanced by cyclic loading.*  
 BT1 deformation  
*RT* creep  
*RT* dynamic loads  
*RT* mechanical structures  
*RT* strains  
*RT* stresses

**rate structure**

*INIS*: 2000-04-12; *ETDE*: 1978-04-06  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE prices

**ratemeters (counting)**

USE counting ratemeters

**ratemeters (dose)**

USE dose ratemeters

**ratemeters (exposure)**

USE exposure ratemeters

**rational surfaces**

*INIS*: 1991-03-22; *ETDE*: 1991-04-09  
 USE mode rational surfaces

**rationing**

*INIS*: 1985-12-10; *ETDE*: 1978-03-03  
 USE allocations

**RATS**

\*BT1 rodents

**RAUVITE**

2000-04-12  
 \*BT1 oxide minerals  
 \*BT1 uranium minerals  
*RT* calcium oxides  
*RT* uranium oxides  
*RT* vanadium oxides

**RAW MATERIALS**

*INIS*: 1992-03-11; *ETDE*: 1978-06-14  
*Materials available, suitable, or required for manufacture, development, training, or some other finishing process, but not yet so used.*  
 BT1 materials  
**NT1** chemical feedstocks  
*RT* resources

**rawalpindi research reactor**

USE par-1 reactor

**RAYLEIGH NUMBER**

2007-01-08  
 BT1 dimensionless numbers  
*RT* forced convection  
*RT* natural convection

**rayleigh-ritz method**

USE ritz method

**RAYLEIGH SCATTERING**

\*BT1 coherent scattering

**RAYLEIGH-SCHROEDINGER  
FORMULA**

RT perturbation theory

**RAYLEIGH-TAYLOR INSTABILITY**

BT1 instability  
RT fluid flow  
RT hydrodynamics  
RT plasma macroinstabilities

**RAYLEIGH WAVES**

1999-09-17

RT earthquakes  
RT lattice vibrations  
RT seismic detection  
RT seismic surface waves  
RT seismic waves  
RT underground explosions

**RAYON**

\*BT1 polysaccharides  
RT cellulose  
RT fibers  
RT textiles

**RAZDAN COMPUTERS**

BT1 computers

**RB-1 REACTOR**

Montecuccolino Nuclear Engineering Lab.,  
Univ. of Bologna, Bologna, Italy.  
Decommissioned since 1986.

UF *montecuccolino rb-1 reactor*  
UF *reattore bologna-1*  
\*BT1 enriched uranium reactors  
\*BT1 graphite moderated reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 zero power reactors

**RB-2 REACTOR**

Decommissioned since 1986.

UF *montecuccolino rb-2 reactor*  
UF *reattore bologna-2*  
\*BT1 argonaut type reactors  
\*BT1 thermal reactors

**RB-3 REACTOR**

Decommissioned since 2014.

UF *montecuccolino rb-3 reactor*  
UF *reattore bologna-3*  
\*BT1 heavy water moderated reactors  
\*BT1 tank type reactors  
\*BT1 zero power reactors

**RBE**

UF *relative biological effectiveness*  
RT biological radiation effects  
RT let  
RT oxygen enhancement ratio  
RT quality factor  
RT radiation effects  
RT radiation quality

**rbmk-1000 reactor**

INIS: 1984-08-23; ETDE: 1984-09-20  
USE leningrad-1 reactor

**rbmk-1500 reactor**

INIS: 1996-02-09; ETDE: 1984-09-20  
USE ignalina-1 reactor

**rbmk type reactors**

INIS: 1988-10-10; ETDE: 1988-11-01  
High-power channel-cooled graphite-moderated reactor type.  
USE lwgr type reactors

**rbs**

2002-11-25

USE rutherford backscattering spectroscopy

**rc-1 reactor**

USE triga-2-rome reactor

**rc-4 reactor casaccia**

USE ritmo reactor

**RCIC SYSTEMS**

1993-04-27

UF *reactor core isolation cooling*  
\*BT1 reactor cooling systems

**RCN**

Reactor Centrum Nederland; name changed  
on 1 August 1976 to *Energieonderzoek*  
*Centrum Nederland*, and documents written  
after that date should be indexed to ECN.

UF *reactor centrum nederland (petten)*  
\*BT1 ecn

**RCNP CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24

Research Center for Nuclear Physics, Osaka  
University.

UF *research center nuclear physics*  
*cyclotron*

\*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons

**rdf**

INIS: 2000-04-12; ETDE: 1976-11-02

USE refuse derived fuels

**re-entry**

USE reentry

**reacteur jules horowitz**

2005-02-10

USE jules horowitz reactor

**REACTION HEAT**

UF *heat of reaction*

\*BT1 enthalpy  
NT1 combustion heat  
NT1 dissociation heat  
NT1 formation heat  
RT thermochemical heat storage  
RT wetting heat

**REACTION INTERMEDIATES**

INIS: 1983-03-15; ETDE: 1978-10-23

SF *intermediates (reaction)*

SF *transient species*  
RT carbenes  
RT carbynes  
RT chemical reaction kinetics  
RT chemical reactions  
RT photochemistry  
RT radiation chemistry  
RT radicals

**REACTION KINETICS**

UF *activity coefficient*

UF *reaction mechanisms*

UF *reaction rate*

BT1 kinetics  
NT1 biochemical reaction kinetics  
NT2 cpb

NT1 chemical reaction kinetics

NT2 combustion kinetics

NT1 nuclear reaction kinetics

RT activation energy

RT arrhenius equation

RT dissociation

RT equilibrium

**reaction mechanisms**

USE reaction kinetics

**reaction product transport**

INIS: 1995-05-09; ETDE: 2002-05-01

(Until May 1995 this was a valid descriptor.)

USE reaction product transport systems

**REACTION PRODUCT TRANSPORT  
SYSTEMS**

1995-05-10

(Until May 1995 this concept was indexed to  
REACTION PRODUCT TRANSPORT.)

UF *helium jet method*

UF *reaction product transport*

UF *transport (reaction product)*

NT1 rabbit tubes

RT accelerator experimental facilities

RT nuclear reactions

RT pneumatic transport

RT reactor experimental facilities

**reaction rate**

USE reaction kinetics

**reactivation**

INIS: 2000-04-12; ETDE: 1980-11-25

SEE regeneration

**REACTIVITY**

RT inhour equation

RT pile oscillation techniques

RT pile replacement techniques

RT poisoning

RT reactivity coefficients

RT reactivity insertions

RT reactivity meters

RT reactivity units

RT reactivity worths

RT reactor kinetics

RT rod drop method

**reactivity (chemical)**

INIS: 2000-04-12; ETDE: 1979-06-06

USE activation energy

**REACTIVITY COEFFICIENTS**

NT1 danger coefficient

NT1 doppler coefficient

NT1 power coefficient

NT1 pressure coefficient

NT1 temperature coefficient

NT1 void coefficient

RT reactivity

RT reactivity insertions

RT reactor kinetics

**REACTIVITY-INITIATED  
ACCIDENTS**

2017-07-18

\*BT1 reactor accidents

NT1 rod drop accidents

NT1 rod ejection accidents

**REACTIVITY INSERTIONS**

NT1 rod drop accidents

RT pulsed reactors

RT reactivity

RT reactivity coefficients

RT reactivity units

RT reactivity worths

RT reactor kinetics

RT rod ejection accidents

**REACTIVITY METERS**

\*BT1 meters

RT reactivity

**REACTIVITY UNITS**

BT1 units

NT1 dollars

NT1 inhours

RT reactivity

RT reactivity insertions

**REACTIVITY WORTHS**

RT reactivity

RT reactivity insertions

**REACTOR ACCIDENT SIMULATION**

2006-06-27

- BT1 simulation
- RT hypothetical accidents
- RT reactor accidents
- RT reactor safety

**REACTOR ACCIDENTS**

1997-04-29

*Includes abnormal conditions of other than major significance sometimes referred to as incidents, events, etc.; for fission reactors only.*

- SF nuclear accidents
- SF ria (reactor accidents)
- BT1 accidents
- NT1 atws
- NT1 excursions
- NT1 fuel degradation
- NT1 fuel handling accidents
- NT1 loss of coolant
  - NT2 lbloca
  - NT2 sbloca
- NT1 loss of core cooling
- NT1 loss of flow
- NT1 meltdown
  - NT2 melt-through
- NT1 multiple steam generator tube rupture
- NT1 power-cooling-mismatch accidents
- NT1 reactivity-initiated accidents
  - NT2 rod drop accidents
  - NT2 rod ejection accidents
- NT1 reactor core disruption
- NT1 station blackout
- NT1 steam generator tube rupture
- NT1 steam line break accidents
- NT1 total loss of feedwater
- NT1 transient overpower accidents
- NT1 uncontrolled boron dilution
- RT accident-tolerant nuclear fuels
- RT burnout
- RT canare
- RT cenna
- RT corium
- RT emergency plans
- RT fuel-coolant interactions
- RT fuel element failure
- RT fukushima accident archive
- RT fukushima accident data
- RT international nuclear event scale
- RT missile protection
- RT molten metal-water reactions
- RT pressure suppression
- RT reactor accident simulation
- RT reactor operation
- RT reactor safety
- RT source terms
- RT vapor explosions

**reactor argentin-0**

USE ra-0 reactor

**reactor argentin-1**

USE ra-1 reactor

**reactor argentin-2**

USE ra-2 reactor

**reactor argentin-3**

USE ra-3 reactor

**reactor argentin-4**

INIS: 2002-08-13; ETDE: 2002-06-16

USE ra-4 reactor

**reactor argentin-5**

INIS: 1984-06-21; ETDE: 2002-05-01

USE ra-5 reactor

**reactor argentin-8**

2002-11-20

USE ra-8 reactor

**reactor argentin ra-6**

2001-03-01

USE ra-6 reactor

**REACTOR CELLS**

UF cells (reactor)

RT reactor lattices

**reactor centrum nederland (petten)**

ETDE: 2002-05-01

USE rcn

**REACTOR CHANNELS***Passages through reactors.*

UF channels (reactor)

BT1 reactor components

NT1 beam holes

NT1 experimental channels

NT1 fuel channels

RT neutron guides

**REACTOR CHARGING MACHINES**

UF charging machines (fission reactor)

UF fueling machines (fission reactors)

UF loading machines (fission reactor)

BT1 reactor components

RT reactor fueling

RT remote handling

**reactor chemistry**

ETDE: 2002-05-01

USE radiochemistry

**REACTOR COMMISSIONING**

1996-04-29

*For fission reactors only.*

UF commissioning (reactor)

BT1 commissioning

BT1 reactor life cycle

RT national control

RT reactor decommissioning

**REACTOR COMPONENTS***For fission reactors only.*

UF reactor internals

NT1 breeding blankets

NT1 control elements
 

- NT2 regulating rods
- NT2 scram rods
- NT2 shim rods

NT1 control rod drives

NT1 core catchers

NT1 fuel elements
 

- NT2 annular fuel elements
- NT2 fuel pins
- NT2 fuel plates
- NT2 fuel rods
- NT3 hollow fuel rods

NT2 fuel wires

NT2 spent fuel elements

NT2 thermionic fuel elements

NT1 reactor channels
 

- NT2 beam holes
- NT2 experimental channels
- NT2 fuel channels

NT1 reactor charging machines

NT1 reactor cooling systems
 

- NT2 direct cycle cooling systems
- NT2 dual cycle cooling systems
- NT2 integrated cooling systems
- NT2 primary coolant circuits
- NT3 coolant cleanup systems

NT2 rcic systems

NT2 rhr systems

NT2 secondary coolant circuits

NT2 shrouds

NT2 tertiary coolant circuits

NT1 reactor cores

NT2 coupled reactor cores

NT2 heterogeneous reactor cores

NT1 reactor experimental facilities

NT2 beam holes

NT2 experimental channels

NT2 in pile loops

NT2 rabbit tubes

NT2 tristan separator

NT1 reactor safety fuses

RT alarm systems

RT condensation chambers

RT containers

RT containment

RT control equipment

RT cooling towers

RT electrical equipment

RT electronic equipment

RT fins

RT fluid-structure interactions

RT heat exchangers

RT jackets

RT leak detectors

RT pumps

RT reactor materials

RT shielding materials

RT shields

RT sleeves

RT spacers

RT vanes

**reactor control rods**

USE control elements

**REACTOR CONTROL SYSTEMS**

*The processes and operations ensuring the control and safe running of a nuclear fission reactor.*

- BT1 control systems
- RT automation
- RT boiling detection
- RT burnable poisons
- RT configuration control
- RT control elements
- RT control rod drives
- RT control rooms
- RT fluid poison control
- RT interlocks
- RT neutron absorbers
- RT neutron detectors
- RT neutron monitors
- RT on-line control systems
- RT process computers
- RT reactor instrumentation
- RT reactor monitoring systems
- RT reactor safety fuses
- RT thermocouples

**reactor control theory**

2000-04-12

USE reactor kinetics

**REACTOR COOLING SYSTEMS**

*For fission reactors only.*

UF cooling systems (fission reactor)

\*BT1 cooling systems

BT1 reactor components

NT1 direct cycle cooling systems

NT1 dual cycle cooling systems

NT1 integrated cooling systems

NT1 primary coolant circuits

NT2 coolant cleanup systems

NT1 rcic systems

NT1 rhr systems

NT1 secondary coolant circuits

NT1 shrouds

NT1 tertiary coolant circuits

RT auxiliary water systems

RT blowers

RT boilers

RT bypasses  
 RT closed-cycle cooling systems  
 RT compressors  
 RT condensation chambers  
 RT condenser cooling systems  
 RT coolants  
 RT cooling  
 RT demineralizers  
 RT economizers  
 RT feedwater  
 RT feedwater heaters  
 RT fluid flow  
 RT fluid-structure interactions  
 RT heat exchangers  
 RT heat transfer  
 RT hot channel  
 RT hot spots  
 RT ice condensers  
 RT isolation condensers  
 RT loss of coolant  
 RT open-cycle cooling systems  
 RT pressure tubes  
 RT pressurizers  
 RT pumps  
 RT recombiners  
 RT restraints  
 RT steam condensers  
 RT steam generators  
 RT steam jet ejectors  
 RT steam lines  
 RT steam separators  
 RT steam systems  
 RT steam turbines  
 RT superheaters  
 RT tubes  
 RT valves  
 RT vapor generators  
 RT water chemistry  
 RT water supply

**reactor cooling systems (fusion)**

INIS: 1993-11-09; ETDE: 2002-05-01

USE thermonuclear reactor cooling systems

**REACTOR CORE DISRUPTION**

UF hcda  
 \*BT1 reactor accidents  
 \*BT1 severe accidents  
 RT reactor cores

**reactor core isolation cooling**

1993-04-27

USE rcic systems

**REACTOR CORE RESTRAINTS**

\*BT1 reactor protection systems  
 BT1 restraints  
 RT reactor cores  
 RT reactor safety  
 RT supports

**REACTOR CORES**

UF cores (reactor)  
 BT1 reactor components  
 NT1 coupled reactor cores  
 NT1 heterogeneous reactor cores  
 RT control elements  
 RT core catchers  
 RT corium  
 RT fluid-structure interactions  
 RT fuel assemblies  
 RT fuel elements  
 RT fuel management  
 RT in core instruments  
 RT moderators  
 RT power density  
 RT power distribution  
 RT reactor core disruption  
 RT reactor core restraints

RT reactor lattices

**REACTOR DECOMMISSIONING**

For fission reactors only.

BT1 decommissioning  
 BT1 reactor life cycle  
 RT national control  
 RT reactor commissioning

**REACTOR DESIGN**

2017-03-17

BT1 design  
 BT1 reactor life cycle  
 RT beyond-design-basis accidents  
 RT design-basis accidents  
 RT reactor planning

**REACTOR DISMANTLING**

For fission reactors only.

UF dismantling (fission reactor)  
 UF dismantling (reactor)  
 BT1 demolition  
 BT1 reactor life cycle  
 RT fuel assembly dismantling  
 RT national control

**REACTOR EXPERIMENTAL FACILITIES**

1995-05-10

UF experimental facilities (reactor)  
 BT1 reactor components  
 NT1 beam holes  
 NT1 experimental channels  
 NT1 in pile loops  
 NT1 rabbit tubes  
 NT1 tristan separator  
 RT reaction product transport systems

**reactor fuel elements**

USE fuel elements

**REACTOR FUELING**

For fission reactors only.

UF charging (fission reactor)  
 UF discharging (fission reactor)  
 UF fuel loading (fission reactor)  
 UF loading (fission reactor)  
 UF unloading (fission reactor)  
 UF unloading (reactor)  
 NT1 batch loading  
 RT fuel management  
 RT reactor charging machines  
 RT reactor operation  
 RT remote handling

**reactor fueling (fission reactors)**

INIS: 1993-11-09; ETDE: 2002-05-01

USE thermonuclear reactor fueling

**reactor fuels**

2000-04-12

USE nuclear fuels

**reactor fuels (fission)**

INIS: 1982-11-29; ETDE: 2002-05-01

USE nuclear fuels

**reactor fuels (fusion)**

INIS: 1982-11-29; ETDE: 2002-05-01

USE thermonuclear fuels

**REACTOR INSTRUMENTATION**

For fission reactors only.

NT1 in core instruments  
 NT2 noise thermometers  
 RT acoustic monitoring  
 RT control rooms  
 RT loose parts monitoring  
 RT measuring instruments  
 RT reactor control systems  
 RT reactor monitoring systems  
 RT reactor operation

RT reactor protection systems

RT reactor safety

RT reactor shutdown

**reactor internals**

1976-02-05

If appropriate, use descriptors for specific components.

USE reactor components

**REACTOR KINETICS**

For fission reactors only.

UF control theory (fission reactor)  
 UF control theory (reactor)  
 UF fission reactor control theory  
 UF reactor control theory  
 BT1 kinetics  
 RT burnable poisons  
 RT control elements  
 RT control rod worths  
 RT criticality  
 RT delayed neutrons  
 RT heterogeneous effects  
 RT inhour equation  
 RT perturbation theory  
 RT poisoning  
 RT reactivity  
 RT reactivity coefficients  
 RT reactivity insertions  
 RT reactor kinetics equations  
 RT reactor noise  
 RT reactor period  
 RT reactor physics  
 RT reactor simulators  
 RT reactor stability  
 RT rod drop method

**REACTOR KINETICS EQUATIONS**

For fission reactors only.

UF kinetics equations (reactor)  
 BT1 equations  
 NT1 response matrix method  
 RT chapman-kolmogorov equation  
 RT reactor kinetics

**REACTOR LATTICE PARAMETERS**

UF pitch (reactor parameters)  
 UF reactor lattice pitch  
 RT homogenization methods  
 RT reactor lattices  
 RT reactor physics

**reactor lattice pitch**

USE reactor lattice parameters

**REACTOR LATTICES**

UF lattices (reactor)  
 RT configuration  
 RT configuration control  
 RT fuel elements  
 RT power density  
 RT reactor cells  
 RT reactor cores  
 RT reactor lattice parameters  
 RT zero power reactors

**REACTOR LICENSING**

For fission reactors only.

BT1 licensing  
 BT1 reactor life cycle  
 RT antitrust review  
 RT financial data  
 RT gesellschaft fuer anlagen- und reaktorsicherheit  
 RT lifetime extension  
 RT reactor safety

**REACTOR LIFE CYCLE**

2017-03-17

NT1 reactor commissioning  
 NT1 reactor decommissioning

NT1 reactor design  
 NT1 reactor dismantling  
 NT1 reactor licensing  
 NT1 reactor operation  
 NT2 reactor maintenance  
 NT1 reactor planning  
 NT1 reactor shutdown  
 NT2 scram  
 NT1 reactor start-up  
 NT1 site selection  
 RT lifetime extension  
 RT reactor safety

## REACTOR MAINTENANCE

*For fission reactors only.*

BT1 maintenance  
 \*BT1 reactor operation  
 RT in-service inspection  
 RT inspection  
 RT repair  
 RT safety culture

## REACTOR MATERIALS

*For fission reactors only; see also descriptors for specific materials.*

BT1 materials  
 NT1 nuclear fuels  
 NT2 accident-tolerant nuclear fuels  
 NT2 alloy nuclear fuels  
 NT3 uranium-molybdenum fuels  
 NT2 denatured fuel  
 NT2 dispersion nuclear fuels  
 NT2 fuel solutions  
 NT2 liquid metal fuels  
 NT2 mixed carbide fuels  
 NT2 mixed nitride fuels  
 NT2 mixed oxide fuels  
 NT2 molten salt fuels  
 NT2 spent fuels  
 NT1 nuclear poisons  
 NT2 burnable poisons  
 NT2 fission poisons  
 NT2 soluble poisons  
 RT coolants  
 RT matrix materials  
 RT moderators  
 RT neutron absorbers  
 RT reactor components  
 RT shielding materials

## reactor materials (fusion reactors)

*INIS: 1993-11-09; ETDE: 2002-05-01*

USE thermonuclear reactor materials

## REACTOR MONITORING SYSTEMS

*INIS: 1984-10-23; ETDE: 1984-11-08*

*Measuring and evaluation systems for performance monitoring of reactor or its components. Not to be confused with*

*REACTOR CONTROL SYSTEMS.*

UF monitors (reactor)  
 RT acoustic monitoring  
 RT failed element monitors  
 RT loose parts monitoring  
 RT monitoring  
 RT monitors  
 RT on-line measurement systems  
 RT reactor control systems  
 RT reactor instrumentation  
 RT temperature monitoring

## REACTOR NEUTRINOS

*2017-11-09*

\*BT1 neutrinos  
 RT reactors

## REACTOR NEUTRON SOURCE FACILITIES

*2016-06-09*

BT1 neutron source facilities  
 NT1 ihni-1 reactor

NT1 nisis facility

## REACTOR NOISE

UF noise (reactor)  
 RT correlation functions  
 RT reactor kinetics  
 RT variations

## REACTOR OPERATION

*For fission reactors only.*

UF operation (fission reactor)  
 UF operation (reactor)  
 BT1 operation  
 BT1 reactor life cycle  
 NT1 reactor maintenance  
 RT fuel element failure  
 RT lifetime extension  
 RT reactor accidents  
 RT reactor fueling  
 RT reactor instrumentation  
 RT reactor operators  
 RT reactor shutdown  
 RT reactor start-up  
 RT repair  
 RT safety culture

## REACTOR OPERATORS

*INIS: 1981-02-27; ETDE: 1980-04-14*

*For fission reactors only.*

BT1 personnel  
 RT reactor operation  
 RT safety culture

## REACTOR OSCILLATORS

UF oscillators (reactor)  
 RT oscillators  
 RT pile oscillation techniques

## REACTOR PERIOD

UF period (reactor)

RT reactor kinetics  
 RT rossi alpha method

## REACTOR PHYSICS

*INIS: 2000-01-26; ETDE: 1979-05-25*

*Use only for indexing articles of very broad coverage, such as annual reviews or textbooks, dealing with fission reactors.*

BT1 physics  
 RT neutron physics  
 RT neutron slowing-down theory  
 RT neutron transport theory  
 RT reactor kinetics  
 RT reactor lattice parameters  
 RT reactor safety

## REACTOR PLANNING

*2017-03-17*

BT1 planning  
 BT1 reactor life cycle  
 RT reactor design

## REACTOR POISON REMOVAL

UF removal (reactor poison)  
 BT1 removal  
 RT nuclear poisons  
 RT samarium oscillations  
 RT xenon oscillations

## reactor pressure vessel failure

*2017-07-18*

USE melt-through

## REACTOR PROTECTION SYSTEMS

*For fission reactors only.*

BT1 engineered safety systems  
 NT1 eccs  
 NT2 core flooding systems  
 NT2 core spray systems  
 NT2 high pressure coolant injection  
 NT2 low pressure coolant injection  
 NT1 reactor core restraints

RT depressurization systems  
 RT equipment protection devices  
 RT missile protection  
 RT reactor instrumentation  
 RT reactor safety  
 RT safety injection  
 RT scram  
 RT systems analysis

## REACTOR SAFETY

*1995-05-10*

*Theoretical and experimental investigations of the behavior of fission reactor types and designs under various real or hypothetical accidents.*

UF safety (reactor)  
 BT1 safety  
 RT accident-tolerant nuclear fuels  
 RT accidents  
 RT bethe-tait method  
 RT boiling detection  
 RT condensation chambers  
 RT containment  
 RT containment spray systems  
 RT criticality  
 RT depressurization  
 RT fuel densification  
 RT fuel element failure  
 RT gesellschaft fuer anlagen- und reaktorsicherheit  
 RT high pressure coolant injection  
 RT hot channel factor  
 RT hot spot factor  
 RT international convention on nuclear safety  
 RT international nuclear event scale  
 RT low pressure coolant injection  
 RT missile protection  
 RT molten metal-water reactions  
 RT pressure release  
 RT pressure suppression  
 RT radiation protection  
 RT reactor accident simulation  
 RT reactor accidents  
 RT reactor core restraints  
 RT reactor instrumentation  
 RT reactor licensing  
 RT reactor life cycle  
 RT reactor physics  
 RT reactor protection systems  
 RT reactor technology  
 RT reactors  
 RT reliability  
 RT safety engineering  
 RT safety margins  
 RT safety standards  
 RT site selection  
 RT systems analysis

## REACTOR SAFETY EXPERIMENTS

*For fission reactors only.*

NT1 containment mockup facility  
 NT1 containment research installation  
 NT1 containment systems experiment  
 NT1 nuclear safety pilot plant  
 RT eccs

## REACTOR SAFETY FUSES

UF fuses (reactor safety)  
 BT1 reactor components  
 RT reactor control systems  
 RT scram

## REACTOR SHUTDOWN

*For fission reactors only.*

UF shutdown (reactor)  
 BT1 reactor life cycle  
 BT1 shutdown  
 NT1 scram  
 RT after-heat



RT reactor instrumentation  
 RT reactor operation  
 RT residual power

**REACTOR SIMULATORS**

*For fission reactors only.*

UF simulators (reactor)  
 \*BT1 simulators  
 RT control rooms  
 RT reactor kinetics

**REACTOR SITES**

1997-06-17

*For fission reactors only. Use for documents focusing on the site as a whole and not individual reactors, e.g., radiation monitoring, contamination, decontamination, remedial actions, etc.*

UF sites (fission reactor)  
 UF sites (reactor)  
 NT1 bruce site  
 NT1 darlington site  
 NT1 fukushima daiichi nuclear power station  
 NT1 gravelines site  
 NT1 pickering site  
 RT environment  
 RT external zones  
 RT nuclear power plants  
 RT offshore nuclear power plants  
 RT offshore sites  
 RT on-site power generation  
 RT site approvals  
 RT site characterization  
 RT site preparation  
 RT site selection  
 RT underground nuclear stations

**reactor siting**

USE site selection

**REACTOR STABILITY**

*For fission reactors only.*

UF stability (fission reactor)  
 UF stability (reactor)  
 BT1 stability  
 RT frequency response testing  
 RT nonlinear problems  
 RT nyquist diagrams  
 RT reactor kinetics  
 RT transfer functions

**REACTOR START-UP**

*For fission reactors only.*

UF start-up (fission reactor)  
 UF start-up (reactor)  
 BT1 reactor life cycle  
 BT1 start-up  
 RT reactor operation  
 RT thermonuclear ignition

**reactor start-up (thermonuclear ignition)**

INIS: 1993-11-09; ETDE: 2002-05-01

USE thermonuclear ignition

**REACTOR TECHNOLOGY**

INIS: 1975-08-20; ETDE: 1975-10-01

*Use only for indexing articles of very broad coverage, such as annual reviews or textbooks, dealing with fission reactors.*

RT nuclear engineering  
 RT reactor safety  
 RT reactors

**reactor thermal columns**

USE thermal columns

**reactor triga puspati**

INIS: 1985-01-17; ETDE: 1985-02-22  
 Malaysia.

USE rtp reactor

**reactor venezolano-1**

USE rv-1 reactor

**REACTOR VESSELS**

*For nonpressurized containers of reactor cores and associated components.*

UF vessels (reactor)  
 BT1 containers

**REACTORS**

*Fission reactors only. For fusion reactors, use THERMONUCLEAR REACTORS, and for reactors combining both types of reactions, use HYBRID REACTORS.*

UF nuclear reactors

NT1 breeder reactors

NT2 fbr type reactors

NT3 aipfr reactor

NT3 gcfr type reactors

NT4 gcfr reactor

NT3 kalpakkam pfbr reactor

NT3 lmfr type reactors

NT4 beloyarsk-3 reactor

NT4 beloyarsk-4 reactor

NT4 bn-1200 reactor

NT4 bn-1600 reactor

NT4 bn-350 reactor

NT4 bor-60 reactor

NT4 cdfr reactor

NT4 clinch river breeder reactor

NT4 dfr reactor

NT4 ebr-1 reactor

NT4 ebr-2 reactor

NT4 enrico fermi-1 reactor

NT4 joyo reactor

NT4 kalpakkam lmfr reactor

NT4 monju reactor

NT4 pfr reactor

NT4 phenix reactor

NT4 plbr reactor

NT4 rapsodie reactor

NT4 sbr-1 reactor

NT4 sbr-2 reactor

NT4 sbr-5 reactor

NT4 snr-2 reactor

NT4 snr reactor

NT4 superphenix reactor

NT4 venus reactor

NT3 pec brasimone reactor

NT3 zebra reactor

NT2 lwbr type reactors

NT1 desalination reactors

NT2 bn-350 reactor

NT1 dust cooled reactors

NT1 enriched uranium reactors

NT2 ill high flux reactor

NT2 acpr reactor

NT2 aérojet-general nucleonics reactors

NT3 agn 201 costanza

NT2 afsr reactor

NT2 agr type reactors

NT3 connah quay-b reactor

NT3 dungeness-b reactor

NT3 hartlepool reactor

NT3 heysham-a reactor

NT3 heysham-b reactor

NT3 hinkley point-b reactor

NT3 hunterston-b reactor

NT3 torness reactor

NT3 wagr reactor

NT2 ai-1-77 reactor

NT2 akr-1 reactor

NT2 alrr reactor

NT2 anex reactor

NT2 anna reactor

NT2 aps reactor

NT2 apsara reactor

NT2 arbus reactor

NT2 argonaut type reactors

NT3 aeg-pr-10 reactor

NT3 arbi reactor

NT3 argonaut reactor

NT3 argos reactor

NT3 athene reactor

NT3 jason reactor

NT3 lfr reactor

NT3 moata reactor

NT3 nestor reactor

NT3 queen mary college utr-b reactor

NT3 ra-1 reactor

NT3 rb-2 reactor

NT3 rien-1 reactor

NT3 srcc-utr-100 reactor

NT3 stark reactor

NT3 strasbourg-cronenbourg reactor

NT3 ufr reactor

NT3 ulysses reactor

NT3 urr reactor

NT3 utr-10-kinki reactor

NT3 vpi-utr-10 reactor

NT2 argus reactor

NT2 armf-1 reactor

NT2 astra reactor

NT2 atr reactor

NT2 atrc reactor

NT2 avogadro rs-1 reactor

NT2 avr reactor

NT2 bawtr reactor

NT2 beloyarsk-1 reactor

NT2 beloyarsk-2 reactor

NT2 bgrr reactor

NT2 bigr reactor

NT2 bir reactor

NT2 bor-60 reactor

NT2 borax-1 reactor

NT2 borax-2 reactor

NT2 borax-3 reactor

NT2 borax-4 reactor

NT2 borax-5 reactor

NT2 br-02 reactor

NT2 br-2 reactor

NT2 brr reactor

NT2 bsr-1 reactor

NT2 bsr-2 reactor

NT2 bwr type reactors

NT3 allens creek-1 reactor

NT3 allens creek-2 reactor

NT3 bailly-1 reactor

NT3 barsebaeck-1 reactor

NT3 barsebaeck-2 reactor

NT3 barton-1 reactor

NT3 barton-2 reactor

NT3 barton-3 reactor

NT3 barton-4 reactor

NT3 bell reactor

NT3 big rock point reactor

NT3 black fox-1 reactor

NT3 black fox-2 reactor

NT3 bolsa chica-1 reactor

NT3 bolsa chica-2 reactor

NT3 bonus reactor

NT3 browns ferry-1 reactor

NT3 browns ferry-2 reactor

NT3 browns ferry-3 reactor

NT3 brunsbuetel reactor

NT3 brunswick-1 reactor

NT3 brunswick-2 reactor

NT3 chinshan-1 reactor

NT3 chinshan-2 reactor

NT3 clinton-1 reactor

NT3 clinton-2 reactor

NT3 cofrentes reactor

NT3 cooper reactor

NT3 dodewaard reactor

NT3	douglas point-1 reactor	NT3	montalto di castro-1 reactor	NT2	el-4 reactor
NT3	douglas point-2 reactor	NT3	montalto di castro-2 reactor	NT2	enrico fermi-1 reactor
NT3	dresden-1 reactor	NT3	monticello reactor	NT2	entc lwsr reactor
NT3	dresden-2 reactor	NT3	muehleberg reactor	NT2	eocr reactor
NT3	dresden-3 reactor	NT3	nine mile point-1 reactor	NT2	es-salam reactor
NT3	duane arnold-1 reactor	NT3	nine mile point-2 reactor	NT2	esada-vesr reactor
NT3	ebwr reactor	NT3	okg-1 reactor	NT2	essor reactor
NT3	enel-4 reactor	NT3	okg-2 reactor	NT2	etr reactor
NT3	enrico fermi-2 reactor	NT3	okg-3 reactor	NT2	etrc reactor
NT3	err reactor	NT3	olkiluoto-1 reactor	NT2	etrr-2 reactor
NT3	fitzpatrick reactor	NT3	olkiluoto-2 reactor	NT2	evsr reactor
NT3	forsmark-1 reactor	NT3	onagawa-1 reactor	NT2	ewg-1 reactor
NT3	forsmark-2 reactor	NT3	onagawa-2 reactor	NT2	fmr reactor
NT3	forsmark-3 reactor	NT3	onagawa-3 reactor	NT2	fmr reactor
NT3	fukushima-1 reactor	NT3	oyster creek-1 reactor	NT2	fr-0 reactor
NT3	fukushima-2 reactor	NT3	pathfinder reactor	NT2	frf reactor
NT3	fukushima-3 reactor	NT3	peach bottom-2 reactor	NT2	frg-1 reactor
NT3	fukushima-4 reactor	NT3	peach bottom-3 reactor	NT2	frg-2 reactor
NT3	fukushima-5 reactor	NT3	perry-1 reactor	NT2	frj-1 reactor
NT3	fukushima-6 reactor	NT3	perry-2 reactor	NT2	frj-2 reactor
NT3	fukushima-ii-1 reactor	NT3	philippsburg-1 reactor	NT2	frm-ii reactor
NT3	fukushima-ii-2 reactor	NT3	phipps bend-1 reactor	NT2	frm reactor
NT3	fukushima-ii-3 reactor	NT3	phipps bend-2 reactor	NT2	fulton-1 reactor
NT3	fukushima-ii-4 reactor	NT3	pilgrim-1 reactor	NT2	fulton-2 reactor
NT3	garigliano reactor	NT3	quad cities-1 reactor	NT2	ga siwabessy reactor
NT3	garona reactor	NT3	quad cities-2 reactor	NT2	ga standard reactor
NT3	ge standard reactor	NT3	ringhals-1 reactor	NT2	getr reactor
NT3	graben-1 reactor	NT3	river bend-1 reactor	NT2	giacint reactor
NT3	graben-2 reactor	NT3	river bend-2 reactor	NT2	gidra reactor
NT3	grand gulf-1 reactor	NT3	rwe-bayernwerk reactor	NT2	gtr reactor
NT3	grand gulf-2 reactor	NT3	shika-1 reactor	NT2	hanaro reactor
NT3	gundremmingen-2 reactor	NT3	shika-2 reactor	NT2	harmonie reactor
NT3	gundremmingen-3 reactor	NT3	shimane-1 reactor	NT2	hbwr reactor
NT3	hamaoka-1 reactor	NT3	shimane-2 reactor	NT2	hector reactor
NT3	hamaoka-2 reactor	NT3	shimane-3 reactor	NT2	herald reactor
NT3	hamaoka-3 reactor	NT3	shoreham reactor	NT2	hero reactor
NT3	hamaoka-4 reactor	NT3	skagit-1 reactor	NT2	hfbr reactor
NT3	hamaoka-5 reactor	NT3	skagit-2 reactor	NT2	hfetr reactor
NT3	hartsville-1 reactor	NT3	sl-1 reactor	NT2	hfir reactor
NT3	hartsville-2 reactor	NT3	susquehanna-1 reactor	NT2	hfr reactor
NT3	hartsville-3 reactor	NT3	susquehanna-2 reactor	NT2	hifar reactor
NT3	hartsville-4 reactor	NT3	tarapur-1 reactor	NT2	hnpf reactor
NT3	hatch-1 reactor	NT3	tarapur-2 reactor	NT2	hor reactor
NT3	hatch-2 reactor	NT3	tokai-2 reactor	NT2	horace reactor
NT3	hdr reactor	NT3	tsuruga reactor	NT2	hpr reactor
NT3	higashidori-1 reactor	NT3	tullnerfeld reactor	NT2	hre-2 reactor
NT3	hope creek-1 reactor	NT3	vak reactor	NT2	hlt reactor
NT3	hope creek-2 reactor	NT3	vbwr reactor	NT2	htr-10 reactor
NT3	humboldt bay reactor	NT3	vermont yankee reactor	NT2	htr reactor
NT3	isar reactor	NT3	verplanck-1 reactor	NT2	htr reactor
NT3	jpdr-2 reactor	NT3	verplanck-2 reactor	NT2	hwctr reactor
NT3	jpdr reactor	NT3	vk-50 reactor	NT2	ian-r1 reactor
NT3	kaiseraugst reactor	NT3	wnp-2 reactor	NT2	iear-1 reactor
NT3	kashiwazaki-kariwa-1 reactor	NT3	wuergassen reactor	NT2	ignalina-1 reactor
NT3	kashiwazaki-kariwa-2 reactor	NT3	zimmer-1 reactor	NT2	ignalina-2 reactor
NT3	kashiwazaki-kariwa-3 reactor	NT3	zimmer-2 reactor	NT2	igr reactor
NT3	kashiwazaki-kariwa-4 reactor	NT2	byu l-77 reactor	NT2	irl reactor
NT3	kashiwazaki-kariwa-5 reactor	NT2	cabri reactor	NT2	irr-1 reactor
NT3	kashiwazaki-kariwa-6 reactor	NT2	cesnef reactor	NT2	irt-2000 djakarta reactor
NT3	kashiwazaki-kariwa-7 reactor	NT2	chernobylsk-1 reactor	NT2	irt-2000 moscow reactor
NT3	kruemmel reactor	NT2	chernobylsk-2 reactor	NT2	irt-c reactor
NT3	kuosheng-1 reactor	NT2	chernobylsk-3 reactor	NT2	irt-f reactor
NT3	kuosheng-2 reactor	NT2	chernobylsk-4 reactor	NT2	irt reactor
NT3	la salle county-1 reactor	NT2	consort-2 reactor	NT2	irt-sofia reactor
NT3	la salle county-2 reactor	NT2	coral-1 reactor	NT2	isis reactor
NT3	labwr reactor	NT2	cp-3m reactor	NT2	ispra-1 reactor
NT3	laguna verde-1 reactor	NT2	cp-5 reactor	NT2	ivv-2m reactor
NT3	laguna verde-2 reactor	NT2	cvr reactor	NT2	janus reactor
NT3	leibstadt reactor	NT2	democritus reactor	NT2	jeep-2 reactor
NT3	limerick-1 reactor	NT2	dfi reactor	NT2	jen-1 reactor
NT3	limerick-2 reactor	NT2	dido reactor	NT2	jen reactor
NT3	lingen reactor	NT2	dmtr reactor	NT2	jmr reactor
NT3	lungmen-1 reactor	NT2	dr-1 reactor	NT2	jrr-1 reactor
NT3	lungmen-2 reactor	NT2	dr-2 reactor	NT2	jrr-2 reactor
NT3	mendocino-1 reactor	NT2	dr-3 reactor	NT2	jrr-3m reactor
NT3	mendocino-2 reactor	NT2	dragon reactor	NT2	jrr-4 reactor
NT3	millstone-1 reactor	NT2	ebor reactor	NT2	jules horowitz reactor
NT3	montague-1 reactor	NT2	egcr reactor	NT2	knk-2 reactor
NT3	montague-2 reactor	NT2	el-3 reactor	NT2	knk reactor

NT2	kuca reactor	NT2	pwr type reactors	NT3	cook-1 reactor
NT2	kuhfr reactor	NT3	aguirre reactor	NT3	cook-2 reactor
NT2	kur reactor	NT3	almaraz-1 reactor	NT3	cruas-1 reactor
NT2	kursk-1 reactor	NT3	almaraz-2 reactor	NT3	cruas-2 reactor
NT2	kursk-2 reactor	NT3	angra-1 reactor	NT3	cruas-3 reactor
NT2	kursk-3 reactor	NT3	angra-2 reactor	NT3	cruas-4 reactor
NT2	kursk-4 reactor	NT3	angra-3 reactor	NT3	crystal river-3 reactor
NT2	leningrad-1 reactor	NT3	arkansas-1 reactor	NT3	crystal river-4 reactor
NT2	leningrad-2 reactor	NT3	arkansas-2 reactor	NT3	dampierre-1 reactor
NT2	leningrad-3 reactor	NT3	asco-1 reactor	NT3	dampierre-2 reactor
NT2	leningrad-4 reactor	NT3	asco-2 reactor	NT3	dampierre-3 reactor
NT2	lido reactor	NT3	atlantic-1 reactor	NT3	dampierre-4 reactor
NT2	litr reactor	NT3	atlantic-2 reactor	NT3	davis besse-1 reactor
NT2	lpr reactor	NT3	basf-1 reactor	NT3	davis besse-2 reactor
NT2	lptr reactor	NT3	basf-2 reactor	NT3	davis besse-3 reactor
NT2	lucens reactor	NT3	beaver valley-1 reactor	NT3	daya bay-1 reactor
NT2	maple reactor	NT3	beaver valley-2 reactor	NT3	daya bay-2 reactor
NT2	maple type reactors	NT3	bellefonte-1 reactor	NT3	diablo canyon-1 reactor
NT2	maria reactor	NT3	bellefonte-2 reactor	NT3	diablo canyon-2 reactor
NT2	marviken reactor	NT3	belleville-1 reactor	NT3	doel-1 reactor
NT2	maryla reactor	NT3	belleville-2 reactor	NT3	doel-2 reactor
NT2	masurca reactor	NT3	beznau-1 reactor	NT3	doel-3 reactor
NT2	melusine-1 reactor	NT3	beznau-2 reactor	NT3	doel-4 reactor
NT2	merlin reactor	NT3	biblis-1 reactor	NT3	efdr-50 reactor
NT2	minerve reactor	NT3	biblis-2 reactor	NT3	emsland reactor
NT2	mitr reactor	NT3	biblis-3 reactor	NT3	erie-1 reactor
NT2	ml-1 reactor	NT3	biblis-4 reactor	NT3	erie-2 reactor
NT2	mnr reactor	NT3	blayais-1 reactor	NT3	fangchenggang-1 reactor
NT2	mnsr type reactors	NT3	blayais-2 reactor	NT3	fangchenggang-2 reactor
NT3	entic mnsr reactor	NT3	blayais-3 reactor	NT3	fangjiashan-1 reactor
NT3	gharr-1 reactor	NT3	blayais-4 reactor	NT3	fangjiashan-2 reactor
NT3	mnsr-ciae reactor	NT3	blue hills-1 reactor	NT3	farley-1 reactor
NT3	mnsr-sd reactor	NT3	blue hills-2 reactor	NT3	farley-2 reactor
NT3	mnsr-sh reactor	NT3	borsele reactor	NT3	fessenheim-1 reactor
NT3	mnsr-sz reactor	NT3	br-3 reactor	NT3	fessenheim-2 reactor
NT3	nirr-1 reactor	NT3	braidwood-1 reactor	NT3	flamanville-1 reactor
NT3	parr-2 reactor	NT3	braidwood-2 reactor	NT3	flamanville-2 reactor
NT3	srr-1 reactor	NT3	brokdorf reactor	NT3	flamanville-3 reactor
NT2	mrr reactor	NT3	bugey-2 reactor	NT3	forked river-1 reactor
NT2	msre reactor	NT3	bugey-3 reactor	NT3	fuqing-1 reactor
NT2	mtr reactor	NT3	bugey-4 reactor	NT3	fuqing-2 reactor
NT2	murr reactor	NT3	bugey-5 reactor	NT3	fuqing-3 reactor
NT2	n-reactor	NT3	bw standard reactor	NT3	fuqing-4 reactor
NT2	ncscr-1 reactor	NT3	byron-1 reactor	NT3	fuqing-5 reactor
NT2	nevada university reactor	NT3	byron-2 reactor	NT3	fuqing-6 reactor
NT2	nhr-5 reactor	NT3	calhoun-1 reactor	NT3	genkai-1 reactor
NT2	niederaichbach reactor	NT3	calhoun-2 reactor	NT3	genkai-2 reactor
NT2	nsrr reactor	NT3	callaway-1 reactor	NT3	genkai-3 reactor
NT2	ntr reactor	NT3	callaway-2 reactor	NT3	genkai-4 reactor
NT2	nuclear furnace reactor	NT3	calvert cliffs-1 reactor	NT3	ginna-1 reactor
NT2	nur reactor	NT3	calvert cliffs-2 reactor	NT3	goesgen reactor
NT2	oldbury-b reactor	NT3	carem 25 reactor	NT3	golfech-1 reactor
NT2	omre reactor	NT3	catawba-1 reactor	NT3	golfech-2 reactor
NT2	opal reactor	NT3	catawba-2 reactor	NT3	grafenrheinfeld reactor
NT2	orr reactor	NT3	cattenom-1 reactor	NT3	gravelines-1 reactor
NT2	osiris reactor	NT3	cattenom-2 reactor	NT3	gravelines-2 reactor
NT2	owr reactor	NT3	cattenom-3 reactor	NT3	gravelines-3 reactor
NT2	parr-1 reactor	NT3	cattenom-4 reactor	NT3	gravelines-4 reactor
NT2	pbr reactor	NT3	ce standard reactor	NT3	gravelines-5 reactor
NT2	pctr reactor	NT3	changjiang-1 reactor	NT3	gravelines-6 reactor
NT2	peach bottom-1 reactor	NT3	changjiang-2 reactor	NT3	greene county reactor
NT2	pegase reactor	NT3	chasnupp-1 reactor	NT3	greenwood-2 reactor
NT2	peggy reactor	NT3	chasnupp-2 reactor	NT3	greenwood-3 reactor
NT2	pelinduna reactor	NT3	chasnupp-3 reactor	NT3	grohnde reactor
NT2	perryman-1 reactor	NT3	cherokee-1 reactor	NT3	hamm-uentrop reactor
NT2	perryman-2 reactor	NT3	cherokee-2 reactor	NT3	hanbit-1 reactor
NT2	phebus reactor	NT3	cherokee-3 reactor	NT3	hanbit-2 reactor
NT2	phenix reactor	NT3	chinon-b1 reactor	NT3	hanbit-3 reactor
NT2	pik physical model reactor	NT3	chinon-b2 reactor	NT3	hanbit-4 reactor
NT2	pik reactor	NT3	chinon-b3 reactor	NT3	hanbit-5 reactor
NT2	pluto reactor	NT3	chinon-b4 reactor	NT3	hanbit-6 reactor
NT2	pnpf reactor	NT3	chooz-a reactor	NT3	harris-1 reactor
NT2	prnc-1-77 reactor	NT3	chooz-b1 reactor	NT3	harris-2 reactor
NT2	proteus reactor	NT3	chooz-b2 reactor	NT3	harris-3 reactor
NT2	prr-1 reactor	NT3	civaux-1 reactor	NT3	harris-4 reactor
NT2	prr reactor	NT3	civaux-2 reactor	NT3	haven-1 reactor
NT2	ptr reactor	NT3	comanche peak-1 reactor	NT4	koshkonong-1 reactor
NT2	pulstar-buffalo reactor	NT3	comanche peak-2 reactor	NT3	haven-2 reactor
NT2	pur-1 reactor	NT3	connecticut yankee reactor	NT4	koshkonong-2 reactor

NT3 hongyanhe-1 reactor	NT3 otto hahn reactor	NT3 sundesert-1 reactor
NT3 hongyanhe-2 reactor	NT3 palisades-1 reactor	NT3 sundesert-2 reactor
NT3 hongyanhe-3 reactor	NT3 palo verde-1 reactor	NT3 surry-1 reactor
NT3 hongyanhe-4 reactor	NT3 palo verde-2 reactor	NT3 surry-2 reactor
NT3 ikata-2 reactor	NT3 palo verde-3 reactor	NT3 surry-3 reactor
NT3 ikata-3 reactor	NT3 palo verde-4 reactor	NT3 surry-4 reactor
NT3 ikata reactor	NT3 palo verde-5 reactor	NT3 takahama-1 reactor
NT3 indian point-1 reactor	NT3 paluel-1 reactor	NT3 takahama-2 reactor
NT3 indian point-2 reactor	NT3 paluel-2 reactor	NT3 takahama-3 reactor
NT3 indian point-3 reactor	NT3 paluel-3 reactor	NT3 takahama-4 reactor
NT3 iran-1 reactor	NT3 paluel-4 reactor	NT3 three mile island-1 reactor
NT3 iran-2 reactor	NT3 pat reactor	NT3 three mile island-2 reactor
NT3 isar-2 reactor	NT3 pebble springs-1 reactor	NT3 tihange-2 reactor
NT3 jamesport-1 reactor	NT3 pebble springs-2 reactor	NT3 tihange-3 reactor
NT3 jamesport-2 reactor	NT3 penly-1 reactor	NT3 tihange reactor
NT3 kewaunee reactor	NT3 penly-2 reactor	NT3 tomari-1 reactor
NT3 koeberg-1 reactor	NT3 penly-3 reactor	NT3 tomari-2 reactor
NT3 koeberg-2 reactor	NT3 perkins-1 reactor	NT3 tomari-3 reactor
NT3 kori-1 reactor	NT3 perkins-2 reactor	NT3 tricastin-1 reactor
NT3 kori-2 reactor	NT3 perkins-3 reactor	NT3 tricastin-2 reactor
NT3 kori-3 reactor	NT3 philippsburg-2 reactor	NT3 tricastin-3 reactor
NT3 kori-4 reactor	NT3 pilgrim-2 reactor	NT3 tricastin-4 reactor
NT3 krsko reactor	NT3 pilgrim-3 reactor	NT3 trillo-1 reactor
NT3 lemoniz-1 reactor	NT3 pm-2a reactor	NT3 trojan reactor
NT3 lemoniz-2 reactor	NT3 pm-3a reactor	NT3 tsuruga-2 reactor
NT3 lenin reactor	NT3 pnpp-1 reactor	NT3 turkey point-3 reactor
NT3 leonid brezhnev reactor	NT3 point beach-1 reactor	NT3 turkey point-4 reactor
NT3 lingao-1 reactor	NT3 point beach-2 reactor	NT3 tva-1 reactor
NT3 lingao-2 reactor	NT3 prairie island-1 reactor	NT3 tva-2 reactor
NT3 lingao-3 reactor	NT3 prairie island-2 reactor	NT3 tyrone-1 reactor
NT3 lingao-4 reactor	NT3 qinshan-1 reactor	NT3 tyrone-2 reactor
NT3 loft reactor	NT3 qinshan-2-1 reactor	NT3 ulchin-1 reactor
NT3 lucie-1 reactor	NT3 qinshan-2-2 reactor	NT3 ulchin-2 reactor
NT3 lucie-2 reactor	NT3 qinshan-2-3 reactor	NT3 ulchin-3 reactor
NT3 maanshan-1 reactor	NT3 qinshan-2-4 reactor	NT3 ulchin-4 reactor
NT3 maanshan-2 reactor	NT3 quanicassee-1 reactor	NT3 ulchin-5 reactor
NT3 maine yankee reactor	NT3 quanicassee-2 reactor	NT3 ulchin-6 reactor
NT3 malibu-1 reactor	NT3 rancho seco-1 reactor	NT3 unterweser reactor
NT3 marble hill-1 reactor	NT3 remerschen reactor	NT3 vahnum-1 reactor
NT3 marble hill-2 reactor	NT3 rheinsberg akw1 reactor	NT3 vahnum-2 reactor
NT3 mc guire-1 reactor	NT3 ringhals-2 reactor	NT3 vandellos-2 reactor
NT3 mc guire-2 reactor	NT3 ringhals-3 reactor	NT3 vogtle-1 reactor
NT3 mh-1a reactor	NT3 ringhals-4 reactor	NT3 vogtle-2 reactor
NT3 midland-1 reactor	NT3 robinson-2 reactor	NT3 vogtle-3 reactor
NT3 midland-2 reactor	NT3 rooppur reactor	NT3 vogtle-4 reactor
NT3 mihama-1 reactor	NT3 rowe yankee reactor	NT3 waterford-3 reactor
NT3 mihama-2 reactor	NT3 s1c prototype reactor	NT3 waterford-4 reactor
NT3 mihama-3 reactor	NT3 saint alban-1 reactor	NT3 watts bar-1 reactor
NT3 millstone-2 reactor	NT3 saint alban-2 reactor	NT3 watts bar-2 reactor
NT3 millstone-3 reactor	NT3 saint laurent-b1 reactor	NT3 westinghouse standard reactor
NT3 muelheim-kaerlich reactor	NT3 saint laurent-b2 reactor	NT3 wnp-1 reactor
NT3 mutsu reactor	NT3 salem-1 reactor	NT3 wnp-3 reactor
NT3 neckar-1 reactor	NT3 salem-2 reactor	NT3 wnp-4 reactor
NT3 neckar-2 reactor	NT3 san onofre-1 reactor	NT3 wnp-5 reactor
NT3 nep-1 reactor	NT3 san onofre-2 reactor	NT3 wolf creek-1 reactor
NT3 nep-2 reactor	NT3 san onofre-3 reactor	NT3 wup-3 reactor
NT3 neupotz-1 reactor	NT3 savannah reactor	NT3 wup-4 reactor
NT3 neupotz-2 reactor	NT3 saxton reactor	NT3 wup-5 reactor
NT3 ningde-1 reactor	NT3 seabrook-1 reactor	NT3 wup-6 reactor
NT3 ningde-2 reactor	NT3 seabrook-2 reactor	NT3 wwer type reactors
NT3 ningde-3 reactor	NT3 selni reactor	NT4 armenian-1 reactor
NT3 ningde-4 reactor	NT3 sendai-1 reactor	NT4 armenian-2 reactor
NT3 nogent-1 reactor	NT3 sendai-2 reactor	NT4 balakovo-1 reactor
NT3 nogent-2 reactor	NT3 sequoyah-1 reactor	NT4 balakovo-2 reactor
NT3 north anna-1 reactor	NT3 sequoyah-2 reactor	NT4 balakovo-3 reactor
NT3 north anna-2 reactor	NT3 shin-kori-1 reactor	NT4 balakovo-4 reactor
NT3 north anna-3 reactor	NT3 shin-kori-2 reactor	NT4 blahutovice-1 reactor
NT3 north anna-4 reactor	NT3 shin-kori-3 reactor	NT4 bohunice v-1 reactor
NT3 north coast-1 reactor	NT3 shin-wolsong-1 reactor	NT4 bohunice v-2 reactor
NT3 obrigheim reactor	NT3 shippingport reactor	NT4 dukovany-1 reactor
NT3 oconee-1 reactor	NT3 sizewell-b reactor	NT4 dukovany-2 reactor
NT3 oconee-2 reactor	NT3 sm-1 reactor	NT4 dukovany-3 reactor
NT3 oconee-3 reactor	NT3 sm-1a reactor	NT4 dukovany-4 reactor
NT3 oi-1 reactor	NT3 south texas project-1 reactor	NT4 greifswald-1 reactor
NT3 oi-2 reactor	NT3 south texas project-2 reactor	NT4 greifswald-2 reactor
NT3 oi-3 reactor	NT3 stade reactor	NT4 greifswald-3 reactor
NT3 oi-4 reactor	NT3 sterling-1 reactor	NT4 greifswald-4 reactor
NT3 oktemberyayn-2 reactor	NT3 sterling-2 reactor	NT4 greifswald-5 reactor
NT3 olkiluoto-3 reactor	NT3 summer-1 reactor	NT4 greifswald-6 reactor

NT4	juragua-1 reactor	NT2	rospo reactor	NT3	psbr reactor
NT4	kalinin-1 reactor	NT2	rpt reactor	NT3	rtp reactor
NT4	kalinin-2 reactor	NT2	rts-1 reactor	NT3	trico ii reactor
NT4	kalinin-3 reactor	NT2	rv-1 reactor	NT3	trico reactor
NT4	kalinin-4 reactor	NT2	safari-1 reactor	NT3	triga-1-arizona reactor
NT4	kecerovce-1 reactor	NT2	saphir reactor	NT3	triga-1-california reactor
NT4	khmelnitskij-1 reactor	NT2	sbr-1 reactor	NT3	triga-1-hanford reactor
NT4	khmelnitskij-2 reactor	NT2	schmehausen-2 reactor	NT3	triga-1-hanover reactor
NT4	kola-1 reactor	NT2	ser reactor	NT3	triga-1-heidelberg reactor
NT4	kola-2 reactor	NT2	shgwr reactor	NT3	triga-1-michigan reactor
NT4	kola-3 reactor	NT2	shca reactor	NT3	triga-2-bandung reactor
NT4	kola-4 reactor	NT2	silene reactor	NT3	triga-2-bangladesh reactor
NT4	kozloduy-1 reactor	NT2	siloe reactor	NT3	triga-2-dalat reactor
NT4	kozloduy-2 reactor	NT2	siloette reactor	NT3	triga-2-illinois reactor
NT4	kozloduy-3 reactor	NT2	slowpoke type reactors	NT3	triga-2-kansas reactor
NT4	kozloduy-4 reactor	NT3	slowpoke-alberta reactor	NT3	triga-2-ljubljana reactor
NT4	kozloduy-5 reactor	NT3	slowpoke-dalhousie reactor	NT3	triga-2-mainz reactor
NT4	kozloduy-6 reactor	NT3	slowpoke-mona reactor	NT3	triga-2-musashi reactor
NT4	kudankulam-1 reactor	NT3	slowpoke-montreal reactor	NT3	triga-2-pavia reactor
NT4	kudankulam-2 reactor	NT3	slowpoke-ottawa reactor	NT3	triga-2-pitesti reactor
NT4	loviisa-1 reactor	NT3	slowpoke-rmc reactor	NT3	triga-2-reactor
NT4	loviisa-2 reactor	NT3	slowpoke-src reactor	NT3	triga-2-rikkyo reactor
NT4	mochovce-1 reactor	NT3	slowpoke-toronto reactor	NT3	triga-2-rome reactor
NT4	mochovce-2 reactor	NT3	slowpoke-wvre reactor	NT3	triga-2-seoul reactor
NT4	novovoronezh-1 reactor	NT2	smolensk-1 reactor	NT3	triga-2-vienna reactor
NT4	novovoronezh-2 reactor	NT2	smolensk-2 reactor	NT3	triga-3-la jolla reactor
NT4	novovoronezh-3 reactor	NT2	smolensk-3 reactor	NT3	triga-3-munich reactor
NT4	novovoronezh-4 reactor	NT2	snap 10 reactor	NT3	triga-3-salazar reactor
NT4	novovoronezh-5 reactor	NT3	s10fs-1 reactor	NT3	triga-3-seoul reactor
NT4	paks-1 reactor	NT3	s10fs-3 reactor	NT3	triga-brazil reactor
NT4	paks-2 reactor	NT3	s10fs-4 reactor	NT3	triga-texas reactor
NT4	paks-3 reactor	NT2	snap 2 reactor	NT3	triga-veterans reactor
NT4	paks-4 reactor	NT3	s2ds reactor	NT3	ucbrr reactor
NT4	rostov-1 reactor	NT2	snap 50 reactor	NT3	uwnr reactor
NT4	rostov-2 reactor	NT2	snap 8 reactor	NT3	wsur reactor
NT4	rostov-3 reactor	NT3	s8dr reactor	NT2	triton reactor
NT4	rovno-1 reactor	NT3	s8er reactor	NT2	trr-1 reactor
NT4	rovno-2 reactor	NT2	snap-tsf reactor	NT2	tsr-1 reactor
NT4	rovno-3 reactor	NT2	snaptran reactors	NT2	tz1 reactor
NT4	rovno-4 reactor	NT2	spert-1 reactor	NT2	tz2 reactor
NT4	rovno-5 reactor	NT2	spert-2 reactor	NT2	uhtrex reactor
NT4	south ukrainian-1 reactor	NT2	spert-3 reactor	NT2	uknr reactor
NT4	south ukrainian-2 reactor	NT2	spert-4 reactor	NT2	umne-1 reactor
NT4	south ukrainian-3 reactor	NT2	sr-1 reactor	NT2	umrr reactor
NT4	stendal-1 reactor	NT2	sr-oa reactor	NT2	utr reactor
NT4	tatarian reactor	NT2	sre reactor	NT2	uvar reactor
NT4	temelin-1 reactor	NT2	stacy reactor	NT2	uwtr reactor
NT4	temelin-2 reactor	NT2	stek reactor	NT2	venus reactor
NT4	tianwan-1 reactor	NT2	stir reactor	NT2	vg-400 reactor
NT4	tianwan-2 reactor	NT2	summit-1 reactor	NT2	vg-50 reactor
NT4	zaporozhe-1 reactor	NT2	summit-2 reactor	NT2	vhr reactor
NT4	zaporozhe-2 reactor	NT2	superphenix reactor	NT2	vidal-1 reactor
NT4	zaporozhe-3 reactor	NT2	supo reactor	NT2	vidal-2 reactor
NT4	zaporozhe-4 reactor	NT2	sur-100 series reactor	NT2	viper reactor
NT4	zaporozhe-5 reactor	NT2	tca reactor	NT2	vr-1 reactor
NT4	zaporozhe-6 reactor	NT2	thetis reactor	NT2	vrain reactor
NT3	wyhl-1 reactor	NT2	thor reactor	NT2	wntn reactor
NT3	wyhl-2 reactor	NT2	thtr-300 reactor	NT2	wpir reactor
NT3	yangjiang-1 reactor	NT2	tibr reactor	NT2	wr-1 reactor
NT3	yangjiang-2 reactor	NT2	toshiba reactor	NT2	wrrr reactor
NT3	yangjiang-3 reactor	NT2	tr-1 reactor	NT2	wtr reactor
NT3	yangjiang-4 reactor	NT2	tr-2 reactor	NT2	wwr type reactors
NT3	yellow creek-1 reactor	NT2	tracy reactor	NT3	budapest training reactor
NT3	yellow creek-2 reactor	NT2	treat reactor	NT3	irt-1 libya reactor
NT3	zion-1 reactor	NT2	triga type reactors	NT3	irt-baghdad reactor
NT3	zion-2 reactor	NT3	afri reactor	NT3	lvr-15 reactor
NT3	zorita-1 reactor	NT3	atpr reactor	NT3	wwr-2 reactor
NT2	r-2 reactor	NT3	colorado triga-mk-3 reactor	NT3	wwr-k-almaty reactor
NT2	r-a reactor	NT3	cornell triga-mk-2 reactor	NT3	wwr-m-kiev reactor
NT2	r2-0 reactor	NT3	dow triga-mk-1 reactor	NT3	wwr-m-leningrad reactor
NT2	ra-5 reactor	NT3	fir-1 reactor	NT3	wwr-s-bucharest reactor
NT2	ra-6 reactor	NT3	frf-2 reactor	NT3	wwr-s-budapest reactor
NT2	ra-8 reactor	NT3	frn reactor	NT3	wwr-s-cairo reactor
NT2	rana reactor	NT3	gulf triga-mk-3 reactor	NT3	wwr-s-moscow reactor
NT2	rapso die reactor	NT3	kartini-ppny reactor	NT3	wwr-s-prague reactor
NT2	rb-1 reactor	NT3	lopra reactor	NT3	wwr-s-tashkent reactor
NT2	rg-1m reactor	NT3	nscr reactor	NT3	wwr-sm rossendorf reactor
NT2	ritmo reactor	NT3	ostr reactor	NT3	wwr-z reactor
NT2	rmb reactor	NT3	prpr reactor	NT2	xma-1 reactor

- NT2** zlfr reactor  
**NT2** zpr reactor  
**NT1** epithermal reactors  
**NT2** fast reactors  
**NT3** actinide burner reactors  
**NT3** afsr reactor  
**NT3** aprf reactor  
**NT3** bfs reactor  
**NT3** bigr reactor  
**NT3** bir reactor  
**NT3** brest-od-300 reactor  
**NT3** cefr reactor  
**NT3** cfrmf reactor  
**NT3** clementine reactor  
**NT3** coral-1 reactor  
**NT3** ecel reactor  
**NT3** fbr type reactors  
**NT4** aipfr reactor  
**NT4** gcf type reactors  
**NT5** gcf reactor  
**NT4** kalpakkam pfr reactor  
**NT4** lmfbr type reactors  
**NT5** beloyarsk-3 reactor  
**NT5** beloyarsk-4 reactor  
**NT5** bn-1200 reactor  
**NT5** bn-1600 reactor  
**NT5** bn-350 reactor  
**NT5** bor-60 reactor  
**NT5** cdf reactor  
**NT5** clinch river breeder reactor  
**NT5** dfr reactor  
**NT5** ebr-1 reactor  
**NT5** ebr-2 reactor  
**NT5** enrico fermi-1 reactor  
**NT5** joyo reactor  
**NT5** kalpakkam lmfbr reactor  
**NT5** monju reactor  
**NT5** pfr reactor  
**NT5** phenix reactor  
**NT5** plbr reactor  
**NT5** rapsodie reactor  
**NT5** sbr-1 reactor  
**NT5** sbr-2 reactor  
**NT5** sbr-5 reactor  
**NT5** snr-2 reactor  
**NT5** snr reactor  
**NT5** superphenix reactor  
**NT5** venus reactor  
**NT4** pec brasimone reactor  
**NT4** zebra reactor  
**NT3** fbrf reactor  
**NT3** fca reactor  
**NT3** ffr reactor  
**NT3** fr-0 reactor  
**NT3** harmonie reactor  
**NT3** hprr reactor  
**NT3** ibr-2 reactor  
**NT3** ibr-30 reactor  
**NT3** ifr reactor  
**NT3** kalpakkam pfr reactor  
**NT3** kbr-1 reactor  
**NT3** knk-2 reactor  
**NT3** lampre-1 reactor  
**NT3** masurca reactor  
**NT3** myrrha facility  
**NT3** purnima-2 reactor  
**NT3** purnima reactor  
**NT3** saref reactor  
**NT3** sefor reactor  
**NT3** sneak reactor  
**NT3** sora reactor  
**NT3** stf reactor  
**NT3** tapiro reactor  
**NT3** tibr reactor  
**NT3** vera reactor  
**NT3** viper reactor  
**NT3** wnt reactor  
**NT3** yayoi reactor  
**NT3** zephyr reactor  
**NT3** zpr reactor  
**NT3** zpr-3 reactor  
**NT3** zpr-6 reactor  
**NT3** zpr-9 reactor  
**NT3** zrr reactor  
**NT2** intermediate reactors  
**NT3** thor reactor  
**NT1** fluid fueled reactors  
**NT2** gas fueled reactors  
**NT3** coaxial flow reactors  
**NT3** light bulb reactors  
**NT3** plasma core assembly  
**NT2** liquid homogeneous reactors  
**NT3** aqueous homogeneous reactors  
**NT4** ai-1-77 reactor  
**NT4** argus reactor  
**NT4** ber-2 reactor  
**NT4** byu 1-77 reactor  
**NT4** cesnef reactor  
**NT4** dr-1 reactor  
**NT4** frf reactor  
**NT4** gidra reactor  
**NT4** hre-2 reactor  
**NT4** jrr-1 reactor  
**NT4** kewb reactor  
**NT4** kstr reactor  
**NT4** ncsr-1 reactor  
**NT4** nevada university reactor  
**NT4** prnc-1-77 reactor  
**NT4** supo reactor  
**NT4** wrrr reactor  
**NT2** molten salt fueled reactors  
**NT1** fog cooled reactors  
**NT1** gas cooled reactors  
**NT2** air cooled reactors  
**NT3** afsr reactor  
**NT3** bepo reactor  
**NT3** bgrr reactor  
**NT3** br-1 reactor  
**NT3** g-1 reactor  
**NT3** gleep reactor  
**NT3** harmonie reactor  
**NT3** hprr reactor  
**NT3** kalpakkam pfr reactor  
**NT3** masurca reactor  
**NT3** sneak reactor  
**NT3** stf reactor  
**NT3** tory-2a reactor  
**NT3** tory-2c reactor  
**NT3** treat reactor  
**NT3** windscale production reactors  
**NT3** x-10 reactor  
**NT3** xma-1 reactor  
**NT3** zed-2 reactor  
**NT2** carbon dioxide cooled reactors  
**NT3** berkeley reactor  
**NT3** bohunice a-1 reactor  
**NT3** bradwell reactor  
**NT3** bugey-1 reactor  
**NT3** calder hall a-1 reactor  
**NT3** calder hall a-2 reactor  
**NT3** calder hall b-3 reactor  
**NT3** calder hall b-4 reactor  
**NT3** cesar reactor  
**NT3** chapelcross-1 reactor  
**NT3** chapelcross-2 reactor  
**NT3** chapelcross-3 reactor  
**NT3** chapelcross-4 reactor  
**NT3** chinon-a1 reactor  
**NT3** chinon-a2 reactor  
**NT3** chinon-a3 reactor  
**NT3** connah quay-b reactor  
**NT3** dungeness-a reactor  
**NT3** dungeness-b reactor  
**NT3** el-2 reactor  
**NT3** el-4 reactor  
**NT3** g-2 reactor  
**NT3** g-3 reactor  
**NT3** hartlepool reactor  
**NT3** hector reactor  
**NT3** hero reactor  
**NT3** heysham-a reactor  
**NT3** heysham-b reactor  
**NT3** hinkley point-a reactor  
**NT3** hinkley point-b reactor  
**NT3** hunterston-a reactor  
**NT3** hunterston-b reactor  
**NT3** latina reactor  
**NT3** lucens reactor  
**NT3** niederaichbach reactor  
**NT3** oldbury-a reactor  
**NT3** oldbury-b reactor  
**NT3** saint laurent-a1 reactor  
**NT3** saint laurent-a2 reactor  
**NT3** sizewell-a reactor  
**NT3** tokai-mura reactor  
**NT3** torness reactor  
**NT3** trawsfynydd reactor  
**NT3** vandellos reactor  
**NT3** wagr reactor  
**NT3** wylfa reactor  
**NT2** ewg-1 reactor  
**NT2** gcf type reactors  
**NT3** gcf reactor  
**NT2** gcr type reactors  
**NT3** agr type reactors  
**NT4** connah quay-b reactor  
**NT4** dungeness-b reactor  
**NT4** hartlepool reactor  
**NT4** heysham-a reactor  
**NT4** heysham-b reactor  
**NT4** hinkley point-b reactor  
**NT4** hunterston-b reactor  
**NT4** torness reactor  
**NT4** wagr reactor  
**NT3** bugey-1 reactor  
**NT3** chinon-a1 reactor  
**NT3** chinon-a2 reactor  
**NT3** chinon-a3 reactor  
**NT3** g-1 reactor  
**NT3** g-2 reactor  
**NT3** g-3 reactor  
**NT3** magnox type reactors  
**NT4** berkeley reactor  
**NT4** bradwell reactor  
**NT4** calder hall a-1 reactor  
**NT4** calder hall a-2 reactor  
**NT4** calder hall b-3 reactor  
**NT4** calder hall b-4 reactor  
**NT4** chapelcross-1 reactor  
**NT4** chapelcross-2 reactor  
**NT4** chapelcross-3 reactor  
**NT4** chapelcross-4 reactor  
**NT4** dungeness-a reactor  
**NT4** hinkley point-a reactor  
**NT4** hunterston-a reactor  
**NT4** latina reactor  
**NT4** oldbury-a reactor  
**NT4** sizewell-a reactor  
**NT4** tokai-mura reactor  
**NT4** trawsfynydd reactor  
**NT4** wylfa reactor  
**NT3** saint laurent-a1 reactor  
**NT3** saint laurent-a2 reactor  
**NT3** vandellos reactor  
**NT2** helium cooled reactors  
**NT3** avr reactor  
**NT3** dragon reactor  
**NT3** ebor reactor  
**NT3** egr reactor  
**NT3** fulton-1 reactor  
**NT3** fulton-2 reactor  
**NT3** gcf reactor  
**NT3** gcr reactor  
**NT3** htr-10 reactor  
**NT3** htr reactor  
**NT3** iea-zpr reactor  
**NT3** peach bottom-1 reactor

- NT3** schmehausen-2 reactor  
**NT3** summit-1 reactor  
**NT3** summit-2 reactor  
**NT3** thtr-300 reactor  
**NT3** uhtrex reactor  
**NT3** vg-400 reactor  
**NT3** vgr-50 reactor  
**NT3** vhtr reactor  
**NT3** vidal-1 reactor  
**NT3** vidal-2 reactor  
**NT3** vrain reactor  
**NT2** htgr type reactors  
**NT3** avr reactor  
**NT3** dragon reactor  
**NT3** fulton-1 reactor  
**NT3** fulton-2 reactor  
**NT3** ga standard reactor  
**NT3** htr-10 reactor  
**NT3** httr reactor  
**NT3** kahter reactor  
**NT3** peach bottom-1 reactor  
**NT3** schmehausen-2 reactor  
**NT3** summit-1 reactor  
**NT3** summit-2 reactor  
**NT3** thtr-300 reactor  
**NT3** vg-400 reactor  
**NT3** vgr-50 reactor  
**NT3** vhtr reactor  
**NT3** vidal-1 reactor  
**NT3** vidal-2 reactor  
**NT3** vrain reactor  
**NT2** hwgcr type reactors  
**NT3** bohunice a-1 reactor  
**NT3** bohunice a-2 reactor  
**NT3** el-4 reactor  
**NT3** lucens reactor  
**NT3** niederaichbach reactor  
**NT2** hydrogen cooled reactors  
**NT3** kiwi reactors  
**NT4** kiwi-tnt reactor  
**NT3** nerva reactor  
**NT3** nrx-a2 reactor  
**NT3** nrx-a3 reactor  
**NT3** nrx-a4-est reactor  
**NT3** nrx-a5 reactor  
**NT3** nrx-a6 reactor  
**NT3** pewee-1 reactor  
**NT3** pewee-2 reactor  
**NT3** pewee-3 reactor  
**NT3** pewee-4 reactor  
**NT3** phoebus-1a reactor  
**NT3** phoebus-1b reactor  
**NT3** phoebus-2a reactor  
**NT3** rover reactors  
**NT3** xe-prime reactor  
**NT2** nitrogen cooled reactors  
**NT3** htltr reactor  
**NT3** ml-1 reactor  
**NT3** zenith reactor  
**NT2** pebble bed reactors  
**NT3** avr reactor  
**NT3** thtr-300 reactor  
**NT3** vg-400 reactor  
**NT3** vgr-50 reactor  
**NT1** graphite moderated reactors  
**NT2** anna reactor  
**NT2** bepo reactor  
**NT2** bgrr reactor  
**NT2** bigr reactor  
**NT2** br-1 reactor  
**NT2** cesar reactor  
**NT2** cp-2 reactor  
**NT2** egr reactor  
**NT2** f-1 reactor  
**NT2** gcr type reactors  
**NT3** agr type reactors  
**NT4** connah quay-b reactor  
**NT4** dungeness-b reactor  
**NT4** hartlepool reactor  
**NT4** heysham-a reactor  
**NT4** heysham-b reactor  
**NT4** hinkley point-b reactor  
**NT4** hunterston-b reactor  
**NT4** torness reactor  
**NT4** wagr reactor  
**NT3** bugey-1 reactor  
**NT3** chinon-a1 reactor  
**NT3** chinon-a2 reactor  
**NT3** chinon-a3 reactor  
**NT3** g-1 reactor  
**NT3** g-2 reactor  
**NT3** g-3 reactor  
**NT3** magnox type reactors  
**NT4** berkeley reactor  
**NT4** bradwell reactor  
**NT4** calder hall a-1 reactor  
**NT4** calder hall a-2 reactor  
**NT4** calder hall b-3 reactor  
**NT4** calder hall b-4 reactor  
**NT4** chapelcross-1 reactor  
**NT4** chapelcross-2 reactor  
**NT4** chapelcross-3 reactor  
**NT4** chapelcross-4 reactor  
**NT4** dungeness-a reactor  
**NT4** hinkley point-a reactor  
**NT4** hunterston-a reactor  
**NT4** latina reactor  
**NT4** oldbury-a reactor  
**NT4** sizewell-a reactor  
**NT4** tokai-mura reactor  
**NT4** trawsfynydd reactor  
**NT4** wylfa reactor  
**NT3** saint laurent-a1 reactor  
**NT3** saint laurent-a2 reactor  
**NT3** vandellos reactor  
**NT2** gleep reactor  
**NT2** hector reactor  
**NT2** hero reactor  
**NT2** hew-305 reactor  
**NT2** hitrex-1 reactor  
**NT2** hnpf reactor  
**NT2** htgr type reactors  
**NT3** avr reactor  
**NT3** dragon reactor  
**NT3** fulton-1 reactor  
**NT3** fulton-2 reactor  
**NT3** ga standard reactor  
**NT3** htr-10 reactor  
**NT3** httr reactor  
**NT3** kahter reactor  
**NT3** peach bottom-1 reactor  
**NT3** schmehausen-2 reactor  
**NT3** summit-1 reactor  
**NT3** summit-2 reactor  
**NT3** thtr-300 reactor  
**NT3** vg-400 reactor  
**NT3** vgr-50 reactor  
**NT3** vhtr reactor  
**NT3** vidal-1 reactor  
**NT3** vidal-2 reactor  
**NT3** vrain reactor  
**NT2** htltr reactor  
**NT2** iea-zpr reactor  
**NT2** igr reactor  
**NT2** iowa utr-10 reactor  
**NT2** luca reactor  
**NT2** lwgr type reactors  
**NT3** aps reactor  
**NT3** beloyarsk-1 reactor  
**NT3** beloyarsk-2 reactor  
**NT3** bilibin reactor  
**NT3** chernobylsk-1 reactor  
**NT3** chernobylsk-2 reactor  
**NT3** chernobylsk-3 reactor  
**NT3** chernobylsk-4 reactor  
**NT3** ignalina-1 reactor  
**NT3** ignalina-2 reactor  
**NT3** kursk-1 reactor  
**NT3** kursk-2 reactor  
**NT3** kursk-3 reactor  
**NT3** kursk-4 reactor  
**NT3** leningrad-1 reactor  
**NT3** leningrad-2 reactor  
**NT3** leningrad-3 reactor  
**NT3** leningrad-4 reactor  
**NT3** n-reactor  
**NT3** rpt reactor  
**NT3** smolensk-1 reactor  
**NT3** smolensk-2 reactor  
**NT3** smolensk-3 reactor  
**NT3** uwtr reactor  
**NT2** marius reactor  
**NT2** msre reactor  
**NT2** ntr reactor  
**NT2** pctr reactor  
**NT2** proteus reactor  
**NT2** rb-1 reactor  
**NT2** sgr type reactors  
**NT3** sre reactor  
**NT2** shca reactor  
**NT2** sr-305 reactor  
**NT2** treat reactor  
**NT2** uhtrex reactor  
**NT2** windscale production reactors  
**NT2** x-10 reactor  
**NT2** zenith reactor  
**NT1** heavy water cooled reactors  
**NT2** ill high flux reactor  
**NT2** alrr reactor  
**NT2** aquilon reactor  
**NT2** bhwr type reactors  
**NT3** hbwr reactor  
**NT3** marviken reactor  
**NT2** celestin reactor  
**NT2** cp-3 reactor  
**NT2** cp-3m reactor  
**NT2** cp-5 reactor  
**NT2** dca reactor  
**NT2** dhruva reactor  
**NT2** dido reactor  
**NT2** diorit reactor  
**NT2** dmtr reactor  
**NT2** dr-3 reactor  
**NT2** el-1 reactor  
**NT2** el-3 reactor  
**NT2** eole reactor  
**NT2** es-salam reactor  
**NT2** essor reactor  
**NT2** fr-2 reactor  
**NT2** frj-2 reactor  
**NT2** grenoble reactor  
**NT2** gtrr reactor  
**NT2** hfbr reactor  
**NT2** hifar reactor  
**NT2** hwctr reactor  
**NT2** hwrr reactor  
**NT2** irr-2 reactor  
**NT2** ispra-1 reactor  
**NT2** jeep-2 reactor  
**NT2** jrr-2 reactor  
**NT2** jrr-3 reactor  
**NT2** mitr reactor  
**NT2** nbsr reactor  
**NT2** nora reactor  
**NT2** nru reactor  
**NT2** nrx reactor  
**NT2** pdp reactor  
**NT2** pelinduna reactor  
**NT2** phwr type reactors  
**NT3** agesta reactor  
**NT3** atucha-1 reactor  
**NT3** atucha-2 reactor  
**NT3** bruce-1 reactor  
**NT3** bruce-2 reactor  
**NT3** bruce-3 reactor  
**NT3** bruce-4 reactor  
**NT3** bruce-5 reactor

NT3	bruce-6 reactor	NT3	cernavoda-1 reactor	NT2	jeep-2 reactor
NT3	bruce-7 reactor	NT3	cernavoda-2 reactor	NT2	jrr-2 reactor
NT3	bruce-8 reactor	NT3	cordoba reactor	NT2	jrr-3 reactor
NT3	cernavoda-1 reactor	NT3	darlington-1 reactor	NT2	juno reactor
NT3	cernavoda-2 reactor	NT3	darlington-2 reactor	NT2	k reactor
NT3	cordoba reactor	NT3	darlington-3 reactor	NT2	l reactor
NT3	cvtr reactor	NT3	darlington-4 reactor	NT2	maple reactor
NT3	darlington-1 reactor	NT3	douglas point ontario reactor	NT2	maple type reactors
NT3	darlington-2 reactor	NT3	embalse reactor	NT2	mitr reactor
NT3	darlington-3 reactor	NT3	gentilly-1 reactor	NT2	nbsr reactor
NT3	darlington-4 reactor	NT3	gentilly-2 reactor	NT2	nora reactor
NT3	douglas point ontario reactor	NT3	kaiga-1 reactor	NT2	nru reactor
NT3	embalse reactor	NT3	kaiga-2 reactor	NT2	nrx reactor
NT3	gentilly-2 reactor	NT3	kaiga-3 reactor	NT2	p reactor
NT3	kaiga-1 reactor	NT3	kaiga-4 reactor	NT2	pdp reactor
NT3	kaiga-2 reactor	NT3	kakrapar-1 reactor	NT2	pelinduna reactor
NT3	kaiga-3 reactor	NT3	kakrapar-2 reactor	NT2	phwr type reactors
NT3	kaiga-4 reactor	NT3	kanupp reactor	NT3	agesta reactor
NT3	kakrapar-1 reactor	NT3	npd reactor	NT3	atucha-1 reactor
NT3	kakrapar-2 reactor	NT3	pickering-1 reactor	NT3	atucha-2 reactor
NT3	kalpakkam-1 reactor	NT3	pickering-2 reactor	NT3	bruce-1 reactor
NT3	kalpakkam-2 reactor	NT3	pickering-3 reactor	NT3	bruce-2 reactor
NT3	kanupp reactor	NT3	pickering-4 reactor	NT3	bruce-3 reactor
NT3	mzfr reactor	NT3	pickering-5 reactor	NT3	bruce-4 reactor
NT3	narora-1 reactor	NT3	pickering-6 reactor	NT3	bruce-5 reactor
NT3	narora-2 reactor	NT3	pickering-7 reactor	NT3	bruce-6 reactor
NT3	npd reactor	NT3	pickering-8 reactor	NT3	bruce-7 reactor
NT3	pickering-1 reactor	NT3	point lepreau-1 reactor	NT3	bruce-8 reactor
NT3	pickering-2 reactor	NT3	point lepreau-2 reactor	NT3	cernavoda-1 reactor
NT3	pickering-3 reactor	NT3	qinshan-3-1 reactor	NT3	cernavoda-2 reactor
NT3	pickering-4 reactor	NT3	qinshan-3-2 reactor	NT3	cordoba reactor
NT3	pickering-5 reactor	NT3	qinshan-3-3 reactor	NT3	cvtr reactor
NT3	pickering-6 reactor	NT3	rajasthan-1 reactor	NT3	darlington-1 reactor
NT3	pickering-7 reactor	NT3	rajasthan-2 reactor	NT3	darlington-2 reactor
NT3	pickering-8 reactor	NT3	rajasthan-3 reactor	NT3	darlington-3 reactor
NT3	point lepreau-1 reactor	NT3	rajasthan-4 reactor	NT3	darlington-4 reactor
NT3	point lepreau-2 reactor	NT3	rajasthan-5 reactor	NT3	douglas point ontario reactor
NT3	qinshan-3-1 reactor	NT3	rajasthan-6 reactor	NT3	embalse reactor
NT3	qinshan-3-2 reactor	NT3	tarapur-3 reactor	NT3	gentilly-2 reactor
NT3	qinshan-3-3 reactor	NT3	tarapur-4 reactor	NT3	kaiga-1 reactor
NT3	rajasthan-1 reactor	NT3	wolsung-1 reactor	NT3	kaiga-2 reactor
NT3	rajasthan-2 reactor	NT3	wolsung-2 reactor	NT3	kaiga-3 reactor
NT3	rajasthan-3 reactor	NT3	wolsung-3 reactor	NT3	kaiga-4 reactor
NT3	rajasthan-4 reactor	NT3	wolsung-4 reactor	NT3	kakrapar-1 reactor
NT3	rajasthan-5 reactor	NT2	celestin reactor	NT3	kakrapar-2 reactor
NT3	rajasthan-6 reactor	NT2	cirus reactor	NT3	kalpakkam-1 reactor
NT3	tarapur-3 reactor	NT2	cp-3 reactor	NT3	kalpakkam-2 reactor
NT3	tarapur-4 reactor	NT2	cp-3m reactor	NT3	kanupp reactor
NT3	wolsung-1 reactor	NT2	cp-5 reactor	NT3	mzfr reactor
NT3	wolsung-2 reactor	NT2	dca reactor	NT3	narora-1 reactor
NT3	wolsung-3 reactor	NT2	dhruva reactor	NT3	narora-2 reactor
NT3	wolsung-4 reactor	NT2	dhruva reactor	NT3	npd reactor
NT2	pik reactor	NT2	dido reactor	NT3	pickering-1 reactor
NT2	pluto reactor	NT2	dimple reactor	NT3	pickering-2 reactor
NT2	prr reactor	NT2	diorit reactor	NT3	pickering-3 reactor
NT2	prtr reactor	NT2	dmtr reactor	NT3	pickering-4 reactor
NT2	pse reactor	NT2	dr-3 reactor	NT3	pickering-5 reactor
NT2	r-1 reactor	NT2	eco reactor	NT3	pickering-6 reactor
NT2	r-a reactor	NT2	el-1 reactor	NT3	pickering-7 reactor
NT2	sm-1 subcritical assembly	NT2	el-2 reactor	NT3	pickering-8 reactor
NT2	spert-2 reactor	NT2	el-3 reactor	NT3	point lepreau-1 reactor
NT2	taiwan research reactor	NT2	eole reactor	NT3	point lepreau-2 reactor
NT2	zed-2 reactor	NT2	es-salam reactor	NT3	qinshan-3-1 reactor
NT1	heavy water moderated reactors	NT2	essor reactor	NT3	qinshan-3-2 reactor
NT2	ill high flux reactor	NT2	fr-2 reactor	NT3	rajasthan-1 reactor
NT2	alrr reactor	NT2	frj-2 reactor	NT3	rajasthan-2 reactor
NT2	aquilon reactor	NT2	frm-ii reactor	NT3	rajasthan-3 reactor
NT2	bhwr type reactors	NT2	grenoble reactor	NT3	rajasthan-4 reactor
NT3	hbwr reactor	NT2	gtr reactor	NT3	rajasthan-5 reactor
NT3	marviken reactor	NT2	hfb reactor	NT3	rajasthan-6 reactor
NT2	c reactor	NT2	hifar reactor	NT3	tarapur-3 reactor
NT2	candu type reactors	NT2	hre-2 reactor	NT3	tarapur-4 reactor
NT3	bruce-1 reactor	NT2	hwctr reactor	NT3	wolsung-1 reactor
NT3	bruce-2 reactor	NT2	hwgr type reactors	NT3	wolsung-2 reactor
NT3	bruce-3 reactor	NT3	bohunice a-1 reactor	NT3	wolsung-3 reactor
NT3	bruce-4 reactor	NT3	bohunice a-2 reactor	NT3	wolsung-4 reactor
NT3	bruce-5 reactor	NT3	el-4 reactor	NT2	pik reactor
NT3	bruce-6 reactor	NT3	lucens reactor	NT2	pluto reactor
NT3	bruce-7 reactor	NT3	niederaichbach reactor	NT2	prr reactor
NT3	bruce-8 reactor	NT2	hwlwr type reactors		
		NT3	cirene reactor		
		NT3	gentilly-1 reactor		
		NT3	jatr reactor		
		NT2	hwrr reactor		
		NT2	hwzpr reactor		
		NT2	irr-2 reactor		
		NT2	ispra-1 reactor		



- NT2** prtr reactor  
**NT2** pse reactor  
**NT2** r-1 reactor  
**NT2** r-a reactor  
**NT2** r-b reactor  
**NT2** r reactor  
**NT2** rb-3 reactor  
**NT2** rtr reactor  
**NT2** sghwr reactor  
**NT2** spert-2 reactor  
**NT2** taiwan research reactor  
**NT2** tr-0 reactor  
**NT2** wr-1 reactor  
**NT2** zed-2 reactor  
**NT2** zeep reactor  
**NT2** zerlina reactor  
**NT1** homogeneous reactors  
**NT2** fuel dispersion reactors  
**NT3** fluidized bed reactors  
**NT3** slurry reactors  
**NT2** gas fueled reactors  
**NT3** coaxial flow reactors  
**NT3** light bulb reactors  
**NT3** plasma core assembly  
**NT2** liquid homogeneous reactors  
**NT3** aqueous homogeneous reactors  
**NT4** ai-1-77 reactor  
**NT4** argus reactor  
**NT4** ber-2 reactor  
**NT4** byu 1-77 reactor  
**NT4** cesnef reactor  
**NT4** dr-1 reactor  
**NT4** frf reactor  
**NT4** gidra reactor  
**NT4** hre-2 reactor  
**NT4** jrr-1 reactor  
**NT4** kewb reactor  
**NT4** kstr reactor  
**NT4** nscsr-1 reactor  
**NT4** nevada university reactor  
**NT4** prnc-1-77 reactor  
**NT4** supo reactor  
**NT4** wrrr reactor  
**NT2** solid homogeneous reactors  
**NT3** acpr reactor  
**NT3** aerojet-general nucleonics reactors  
**NT4** agn 201 costanza  
**NT3** akr-1 reactor  
**NT3** anex reactor  
**NT3** ebor reactor  
**NT3** nsrr reactor  
**NT3** pebble bed reactors  
**NT4** avr reactor  
**NT4** thtr-300 reactor  
**NT4** vg-400 reactor  
**NT4** vgr-50 reactor  
**NT3** romashka reactor  
**NT3** shca reactor  
**NT3** sur-100 series reactor  
**NT3** treat reactor  
**NT3** triga type reactors  
**NT4** afri reactor  
**NT4** atrp reactor  
**NT4** colorado triga-mk-3 reactor  
**NT4** cornell triga-mk-2 reactor  
**NT4** dow triga-mk-1 reactor  
**NT4** fir-1 reactor  
**NT4** frf-2 reactor  
**NT4** frn reactor  
**NT4** gulf triga-mk-3 reactor  
**NT4** kartini-ppny reactor  
**NT4** lopra reactor  
**NT4** nscr reactor  
**NT4** ostr reactor  
**NT4** prpr reactor  
**NT4** psbr reactor  
**NT4** rtp reactor  
**NT4** trico ii reactor  
**NT4** trico reactor  
**NT3** triga-1-arizona reactor  
**NT3** triga-1-california reactor  
**NT3** triga-1-hanford reactor  
**NT3** triga-1-hanover reactor  
**NT3** triga-1-heidelberg reactor  
**NT3** triga-1-michigan reactor  
**NT3** triga-2-bandung reactor  
**NT3** triga-2-bangladesh reactor  
**NT3** triga-2-dalat reactor  
**NT3** triga-2-illinois reactor  
**NT3** triga-2-kansas reactor  
**NT3** triga-2-ljubljana reactor  
**NT3** triga-2-mainz reactor  
**NT3** triga-2-musashi reactor  
**NT3** triga-2-pavia reactor  
**NT3** triga-2-pitesti reactor  
**NT3** triga-2-rome reactor  
**NT3** triga-2-seoul reactor  
**NT3** triga-2-vienna reactor  
**NT3** triga-3-la jolla reactor  
**NT3** triga-3-munich reactor  
**NT3** triga-3-salazar reactor  
**NT3** triga-3-seoul reactor  
**NT3** triga-brazil reactor  
**NT3** triga-texas reactor  
**NT3** triga-veterans reactor  
**NT3** ucbr reactor  
**NT3** uwnr reactor  
**NT3** wsur reactor  
**NT2** xma-1 reactor  
**NT1** irradiation reactors  
**NT2** chemonuclear reactors  
**NT2** isotope production reactors  
**NT3** ill high flux reactor  
**NT3** afri reactor  
**NT3** ai-1-77 reactor  
**NT3** alrr reactor  
**NT3** apsar reactor  
**NT3** astrar reactor  
**NT3** atrp reactor  
**NT3** bepo reactor  
**NT3** ber-2 reactor  
**NT3** bgrr reactor  
**NT3** brrr reactor  
**NT3** byu 1-77 reactor  
**NT3** celestin reactor  
**NT3** cesnef reactor  
**NT3** cirus reactor  
**NT3** consort-2 reactor  
**NT3** cp-5 reactor  
**NT3** dhruva reactor  
**NT3** dido reactor  
**NT3** dmt reactor  
**NT3** dow triga-mk-1 reactor  
**NT3** dr-2 reactor  
**NT3** dr-3 reactor  
**NT3** el-1 reactor  
**NT3** el-2 reactor  
**NT3** el-3 reactor  
**NT3** etr reactor  
**NT3** ewa reactor  
**NT3** fir-1 reactor  
**NT3** fnr reactor  
**NT3** fr-2 reactor  
**NT3** frf reactor  
**NT3** frg-2 reactor  
**NT3** frj-2 reactor  
**NT3** getr reactor  
**NT3** gtrr reactor  
**NT3** gulf triga-mk-3 reactor  
**NT3** hanaro reactor  
**NT3** hfir reactor  
**NT3** hifar reactor  
**NT3** htr reactor  
**NT3** hwrr reactor  
**NT3** ian-r1 reactor  
**NT3** irt-c reactor  
**NT3** irt-f reactor  
**NT3** irt reactor  
**NT3** irt-sofia reactor  
**NT3** ispra-1 reactor  
**NT3** jeep-2 reactor  
**NT3** jrr-1 reactor  
**NT3** jrr-3 reactor  
**NT3** jrr-3m reactor  
**NT3** kuhfr reactor  
**NT3** lptr reactor  
**NT3** maria reactor  
**NT3** melusine-1 reactor  
**NT3** mnr reactor  
**NT3** mrr reactor  
**NT3** nru reactor  
**NT3** nrx reactor  
**NT3** opal reactor  
**NT3** ostr reactor  
**NT3** pulstar-buffalo reactor  
**NT4** trico reactor  
**NT4** triga-1-arizona reactor  
**NT4** triga-1-california reactor  
**NT4** triga-1-hanford reactor  
**NT4** triga-1-hanover reactor  
**NT4** triga-1-heidelberg reactor  
**NT4** triga-1-michigan reactor  
**NT4** triga-2-bandung reactor  
**NT4** triga-2-bangladesh reactor  
**NT4** triga-2-dalat reactor  
**NT4** triga-2-illinois reactor  
**NT4** triga-2-kansas reactor  
**NT4** triga-2-ljubljana reactor  
**NT4** triga-2-mainz reactor  
**NT4** triga-2-musashi reactor  
**NT4** triga-2-pavia reactor  
**NT4** triga-2-pitesti reactor  
**NT4** triga-2-rome reactor  
**NT4** triga-2-seoul reactor  
**NT4** triga-2-vienna reactor  
**NT4** triga-3-la jolla reactor  
**NT4** triga-3-munich reactor  
**NT4** triga-3-salazar reactor  
**NT4** triga-3-seoul reactor  
**NT4** triga-brazil reactor  
**NT4** triga-texas reactor  
**NT4** ucbr reactor  
**NT4** uwnr reactor  
**NT4** wsur reactor  
**NT1** hydride moderated reactors  
**NT2** acpr reactor  
**NT2** anex reactor  
**NT2** nsrr reactor  
**NT2** stir reactor  
**NT2** szr type reactors  
**NT3** knk-2 reactor  
**NT3** knk reactor  
**NT2** topaz reactor  
**NT2** triga type reactors  
**NT3** afri reactor  
**NT3** atrp reactor  
**NT3** colorado triga-mk-3 reactor  
**NT3** cornell triga-mk-2 reactor  
**NT3** dow triga-mk-1 reactor  
**NT3** fir-1 reactor  
**NT3** frf-2 reactor  
**NT3** frn reactor  
**NT3** gulf triga-mk-3 reactor  
**NT3** kartini-ppny reactor  
**NT3** lopra reactor  
**NT3** nscr reactor  
**NT3** ostr reactor  
**NT3** prpr reactor  
**NT3** psbr reactor  
**NT3** rtp reactor  
**NT3** trico ii reactor  
**NT3** trico reactor  
**NT3** triga-1-arizona reactor  
**NT3** triga-1-california reactor  
**NT3** triga-1-hanford reactor  
**NT3** triga-1-hanover reactor  
**NT3** triga-1-heidelberg reactor  
**NT3** triga-1-michigan reactor  
**NT3** triga-2-bandung reactor  
**NT3** triga-2-bangladesh reactor  
**NT3** triga-2-dalat reactor  
**NT3** triga-2-illinois reactor  
**NT3** triga-2-kansas reactor  
**NT3** triga-2-ljubljana reactor  
**NT3** triga-2-mainz reactor  
**NT3** triga-2-musashi reactor  
**NT3** triga-2-pavia reactor  
**NT3** triga-2-pitesti reactor  
**NT3** triga-2-rome reactor  
**NT3** triga-2-seoul reactor  
**NT3** triga-2-vienna reactor  
**NT3** triga-3-la jolla reactor  
**NT3** triga-3-munich reactor  
**NT3** triga-3-salazar reactor  
**NT3** triga-3-seoul reactor  
**NT3** triga-brazil reactor  
**NT3** triga-texas reactor  
**NT3** triga-veterans reactor  
**NT3** ucbr reactor  
**NT3** uwnr reactor  
**NT3** wsur reactor  
**NT2** xma-1 reactor  
**NT1** irradiation reactors  
**NT2** chemonuclear reactors  
**NT2** isotope production reactors  
**NT3** ill high flux reactor  
**NT3** afri reactor  
**NT3** ai-1-77 reactor  
**NT3** alrr reactor  
**NT3** apsar reactor  
**NT3** astrar reactor  
**NT3** atrp reactor  
**NT3** bepo reactor  
**NT3** ber-2 reactor  
**NT3** bgrr reactor  
**NT3** brrr reactor  
**NT3** byu 1-77 reactor  
**NT3** celestin reactor  
**NT3** cesnef reactor  
**NT3** cirus reactor  
**NT3** consort-2 reactor  
**NT3** cp-5 reactor  
**NT3** dhruva reactor  
**NT3** dido reactor  
**NT3** dmt reactor  
**NT3** dow triga-mk-1 reactor  
**NT3** dr-2 reactor  
**NT3** dr-3 reactor  
**NT3** el-1 reactor  
**NT3** el-2 reactor  
**NT3** el-3 reactor  
**NT3** etr reactor  
**NT3** ewa reactor  
**NT3** fir-1 reactor  
**NT3** fnr reactor  
**NT3** fr-2 reactor  
**NT3** frf reactor  
**NT3** frg-2 reactor  
**NT3** frj-2 reactor  
**NT3** getr reactor  
**NT3** gtrr reactor  
**NT3** gulf triga-mk-3 reactor  
**NT3** hanaro reactor  
**NT3** hfir reactor  
**NT3** hifar reactor  
**NT3** htr reactor  
**NT3** hwrr reactor  
**NT3** ian-r1 reactor  
**NT3** irt-c reactor  
**NT3** irt-f reactor  
**NT3** irt reactor  
**NT3** irt-sofia reactor  
**NT3** ispra-1 reactor  
**NT3** jeep-2 reactor  
**NT3** jrr-1 reactor  
**NT3** jrr-3 reactor  
**NT3** jrr-3m reactor  
**NT3** kuhfr reactor  
**NT3** lptr reactor  
**NT3** maria reactor  
**NT3** melusine-1 reactor  
**NT3** mnr reactor  
**NT3** mrr reactor  
**NT3** nru reactor  
**NT3** nrx reactor  
**NT3** opal reactor  
**NT3** ostr reactor  
**NT3** pulstar-buffalo reactor

- NT3** r-1 reactor  
**NT3** r-a reactor  
**NT3** r2-0 reactor  
**NT3** rmb reactor  
**NT3** rtp reactor  
**NT3** rts-1 reactor  
**NT3** siloe reactor  
**NT3** slowpoke type reactors  
**NT4** slowpoke-alberta reactor  
**NT4** slowpoke-dalhousie reactor  
**NT4** slowpoke-mona reactor  
**NT4** slowpoke-montreal reactor  
**NT4** slowpoke-ottawa reactor  
**NT4** slowpoke rmc reactor  
**NT4** slowpoke src reactor  
**NT4** slowpoke-toronto reactor  
**NT4** slowpoke-wnre reactor  
**NT3** taiwan research reactor  
**NT3** thetis reactor  
**NT3** thor reactor  
**NT3** tr-1 reactor  
**NT3** trico ii reactor  
**NT3** trico reactor  
**NT3** triga-1-california reactor  
**NT3** triga-1-hanover reactor  
**NT3** triga-1-michigan reactor  
**NT3** triga-2-bandung reactor  
**NT3** triga-2-bangladesh reactor  
**NT3** triga-2-dalat reactor  
**NT3** triga-2-illinois reactor  
**NT3** triga-2-kansas reactor  
**NT3** triga-2-ljubljana reactor  
**NT3** triga-2-mainz reactor  
**NT3** triga-2-musashi reactor  
**NT3** triga-2-pavia reactor  
**NT3** triga-2-pitesti reactor  
**NT3** triga-2 reactor  
**NT3** triga-2-rikkyo reactor  
**NT3** triga-2-rome reactor  
**NT3** triga-2-seoul reactor  
**NT3** triga-2-vienna reactor  
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**NT3** triga-3-salazar reactor  
**NT3** triga-3-seoul reactor  
**NT3** triga-brazil reactor  
**NT3** triga-texas reactor  
**NT3** triga-veterans reactor  
**NT3** tz1 reactor  
**NT3** ucbr reactor  
**NT3** ufr reactor  
**NT3** uknr reactor  
**NT3** uvar reactor  
**NT3** uwnr reactor  
**NT3** wtr reactor  
**NT3** wwr-2 reactor  
**NT3** wwr-m-kiev reactor  
**NT3** wwr-m-leningrad reactor  
**NT3** wwr-s-budapest reactor  
**NT3** wwr-s-moscow reactor  
**NT3** wwr-sm rossendorf reactor  
**NT3** x-10 reactor  
**NT2** materials processing reactors  
**NT2** materials testing reactors  
**NT3** atr reactor  
**NT3** br-2 reactor  
**NT3** cp-2 reactor  
**NT3** dido reactor  
**NT3** dmtr reactor  
**NT3** dr-3 reactor  
**NT3** el-3 reactor  
**NT3** ewg-1 reactor  
**NT3** frg-2 reactor  
**NT3** frj-2 reactor  
**NT3** ga siwabessy reactor  
**NT3** gleep reactor  
**NT3** hanaro reactor  
**NT3** hector reactor  
**NT3** hfetr reactor  
**NT3** hfr reactor  
**NT3** hifar reactor  
**NT3** hwctr reactor  
**NT3** hwrr reactor  
**NT3** igr reactor  
**NT3** ivv-2m reactor  
**NT3** jmtr reactor  
**NT3** jrr-3 reactor  
**NT3** jrr-3m reactor  
**NT3** jules horowitz reactor  
**NT3** kstr reactor  
**NT3** lpr reactor  
**NT3** merlin reactor  
**NT3** mtr reactor  
**NT3** nbsr reactor  
**NT3** nrx reactor  
**NT3** osiris reactor  
**NT3** pbr reactor  
**NT3** pluto reactor  
**NT3** r-2 reactor  
**NT3** rv-1 reactor  
**NT3** sm-2 reactor  
**NT3** taiwan research reactor  
**NT3** triga-1-hanford reactor  
**NT3** wr-1 reactor  
**NT3** wwr-m-kiev reactor  
**NT3** wwr-m-leningrad reactor  
**NT3** zephyr reactor  
**NT2** tritium production reactors  
**NT3** celestin reactor  
**NT1** liquid metal cooled reactors  
**NT2** lead cooled reactors  
**NT3** brest-od-300 reactor  
**NT3** lead-bismuth cooled reactors  
**NT4** myrrha facility  
**NT2** lithium cooled reactors  
**NT2** lmfbr type reactors  
**NT3** beloyarsk-3 reactor  
**NT3** beloyarsk-4 reactor  
**NT3** bn-1200 reactor  
**NT3** bn-1600 reactor  
**NT3** bn-350 reactor  
**NT3** bor-60 reactor  
**NT3** cdf reactor  
**NT3** clinch river breeder reactor  
**NT3** dfr reactor  
**NT3** ebr-1 reactor  
**NT3** ebr-2 reactor  
**NT3** enrico fermi-1 reactor  
**NT3** joyo reactor  
**NT3** kalpakkam lmfbr reactor  
**NT3** monju reactor  
**NT3** pfr reactor  
**NT3** phenix reactor  
**NT3** plbr reactor  
**NT3** rapsodie reactor  
**NT3** sbr-1 reactor  
**NT3** sbr-2 reactor  
**NT3** sbr-5 reactor  
**NT3** snr-2 reactor  
**NT3** snr reactor  
**NT3** superphenix reactor  
**NT3** venus reactor  
**NT2** mercury cooled reactors  
**NT3** clementine reactor  
**NT3** sbr-2 reactor  
**NT2** nak cooled reactors  
**NT3** ebr-1 reactor  
**NT3** s10fs-1 reactor  
**NT3** s10fs-3 reactor  
**NT3** s10fs-4 reactor  
**NT3** s2ds reactor  
**NT3** s8dr reactor  
**NT3** s8er reactor  
**NT3** ser reactor  
**NT3** snaptran reactors  
**NT2** potassium cooled reactors  
**NT3** ebr-1 reactor  
**NT3** ser reactor  
**NT3** snap 10 reactor  
**NT4** s10fs-1 reactor  
**NT4** s10fs-3 reactor  
**NT4** s10fs-4 reactor  
**NT3** snap-tsf reactor  
**NT3** snaptran reactors  
**NT3** snr-2 reactor  
**NT3** snr reactor  
**NT3** superphenix reactor  
**NT3** zrr reactor  
**NT2** s2r type reactors  
**NT3** knk-2 reactor  
**NT3** knk reactor  
**NT1** metal moderated reactors  
**NT2** beryllium moderated reactors  
**NT3** agata reactor  
**NT3** br-02 reactor  
**NT3** ebor reactor  
**NT3** ewg-1 reactor  
**NT3** maria reactor  
**NT3** nuclear furnace reactor  
**NT1** mixed spectrum reactors  
**NT2** acpr reactor  
**NT2** browns ferry-1 reactor  
**NT2** browns ferry-2 reactor  
**NT2** browns ferry-3 reactor  
**NT2** diorit reactor  
**NT2** nsrr reactor  
**NT2** omre reactor  
**NT2** rpt reactor  
**NT1** mobile reactors  
**NT2** mh-1a reactor  
**NT2** ml-1 reactor  
**NT2** slc prototype reactor  
**NT2** space power reactors  
**NT3** snap reactors  
**NT4** snap 10 reactor  
**NT5** s10fs-1 reactor  
**NT5** s10fs-3 reactor  
**NT5** s10fs-4 reactor  
**NT4** snap 2 reactor  
**NT5** s2ds reactor  
**NT4** snap 50 reactor  
**NT4** snap 8 reactor  
**NT5** s8dr reactor  
**NT5** s8er reactor  
**NT3** space propulsion reactors  
**NT4** kiwi reactors  
**NT4** s10fs-1 reactor  
**NT4** s10fs-3 reactor  
**NT4** s10fs-4 reactor  
**NT3** snap-tsf reactor  
**NT3** snaptran reactors  
**NT2** sodium cooled reactors  
**NT3** beloyarsk-3 reactor  
**NT3** beloyarsk-4 reactor  
**NT3** bn-1200 reactor  
**NT3** bn-1600 reactor  
**NT3** bn-350 reactor  
**NT3** bor-60 reactor  
**NT3** cdf reactor  
**NT3** clinch river breeder reactor  
**NT3** ebr-1 reactor  
**NT3** ebr-2 reactor  
**NT3** enrico fermi-1 reactor  
**NT3** ftf reactor  
**NT3** hnpf reactor  
**NT3** knk-2 reactor  
**NT3** knk reactor  
**NT3** lampre-1 reactor  
**NT3** monju reactor  
**NT3** pfr reactor  
**NT3** phenix reactor  
**NT3** rapsodie reactor  
**NT3** sbr-5 reactor  
**NT3** sefor reactor  
**NT3** ser reactor  
**NT3** sgr type reactors  
**NT4** sre reactor  
**NT3** snap 10 reactor  
**NT4** s10fs-1 reactor  
**NT4** s10fs-3 reactor  
**NT4** s10fs-4 reactor  
**NT3** snap-tsf reactor  
**NT3** snaptran reactors  
**NT3** snr-2 reactor  
**NT3** snr reactor  
**NT3** superphenix reactor  
**NT3** zrr reactor  
**NT2** s2r type reactors  
**NT3** knk-2 reactor  
**NT3** knk reactor  
**NT1** metal moderated reactors  
**NT2** beryllium moderated reactors  
**NT3** agata reactor  
**NT3** br-02 reactor  
**NT3** ebor reactor  
**NT3** ewg-1 reactor  
**NT3** maria reactor  
**NT3** nuclear furnace reactor  
**NT1** mixed spectrum reactors  
**NT2** acpr reactor  
**NT2** browns ferry-1 reactor  
**NT2** browns ferry-2 reactor  
**NT2** browns ferry-3 reactor  
**NT2** diorit reactor  
**NT2** nsrr reactor  
**NT2** omre reactor  
**NT2** rpt reactor  
**NT1** mobile reactors  
**NT2** mh-1a reactor  
**NT2** ml-1 reactor  
**NT2** slc prototype reactor  
**NT2** space power reactors  
**NT3** snap reactors  
**NT4** snap 10 reactor  
**NT5** s10fs-1 reactor  
**NT5** s10fs-3 reactor  
**NT5** s10fs-4 reactor  
**NT4** snap 2 reactor  
**NT5** s2ds reactor  
**NT4** snap 50 reactor  
**NT4** snap 8 reactor  
**NT5** s8dr reactor  
**NT5** s8er reactor  
**NT3** space propulsion reactors  
**NT4** kiwi reactors

- NT5** kiwi-tnt reactor  
**NT4** nerva reactor  
**NT4** nrx-a1 reactor  
**NT4** nrx-a2 reactor  
**NT4** nrx-a3 reactor  
**NT4** nrx-a4-est reactor  
**NT4** nrx-a5 reactor  
**NT4** nrx-a6 reactor  
**NT4** nrx-a7 reactor  
**NT4** pewee-1 reactor  
**NT4** pewee-2 reactor  
**NT4** pewee-3 reactor  
**NT4** pewee-4 reactor  
**NT4** phoebus-1a reactor  
**NT4** phoebus-1b reactor  
**NT4** phoebus-2a reactor  
**NT4** rover reactors  
**NT4** twmr reactor  
**NT4** xe-2 reactor  
**NT1** molten salt reactors  
**NT2** molten salt cooled reactors  
**NT3** msre reactor  
**NT2** molten salt fueled reactors  
**NT1** natural uranium reactors  
**NT2** agesta reactor  
**NT2** aquilon reactor  
**NT2** atucha-1 reactor  
**NT2** atucha-2 reactor  
**NT2** bepo reactor  
**NT2** bohunice a-1 reactor  
**NT2** bohunice a-2 reactor  
**NT2** br-1 reactor  
**NT2** bruce-1 reactor  
**NT2** bruce-2 reactor  
**NT2** bruce-3 reactor  
**NT2** bruce-4 reactor  
**NT2** bruce-5 reactor  
**NT2** bruce-6 reactor  
**NT2** bruce-7 reactor  
**NT2** bruce-8 reactor  
**NT2** cernavoda-1 reactor  
**NT2** cernavoda-2 reactor  
**NT2** cesar reactor  
**NT2** cirus reactor  
**NT2** cordoba reactor  
**NT2** cp-2 reactor  
**NT2** cp-3 reactor  
**NT2** darlington-1 reactor  
**NT2** darlington-2 reactor  
**NT2** darlington-3 reactor  
**NT2** darlington-4 reactor  
**NT2** dhruva reactor  
**NT2** diorit reactor  
**NT2** douglas point ontario reactor  
**NT2** eco reactor  
**NT2** el-1 reactor  
**NT2** el-2 reactor  
**NT2** essor reactor  
**NT2** f-1 reactor  
**NT2** fr-2 reactor  
**NT2** gentilly-1 reactor  
**NT2** gentilly-2 reactor  
**NT2** gleep reactor  
**NT2** hew-305 reactor  
**NT2** hwzpr reactor  
**NT2** jatr reactor  
**NT2** jrr-3 reactor  
**NT2** kaiga-1 reactor  
**NT2** kaiga-2 reactor  
**NT2** kakrapar-1 reactor  
**NT2** kakrapar-2 reactor  
**NT2** kalpakkam-1 reactor  
**NT2** kalpakkam-2 reactor  
**NT2** kanupp reactor  
**NT2** magnox type reactors  
**NT3** berkeley reactor  
**NT3** bradwell reactor  
**NT3** calder hall a-1 reactor  
**NT3** calder hall a-2 reactor  
**NT3** calder hall b-3 reactor  
**NT3** calder hall b-4 reactor  
**NT3** chapelcross-1 reactor  
**NT3** chapelcross-2 reactor  
**NT3** chapelcross-3 reactor  
**NT3** chapelcross-4 reactor  
**NT3** dungeness-a reactor  
**NT3** hinkley point-a reactor  
**NT3** hunterston-a reactor  
**NT3** latina reactor  
**NT3** oldbury-a reactor  
**NT3** sizewell-a reactor  
**NT3** tokai-mura reactor  
**NT3** trawsfynydd reactor  
**NT3** wylfa reactor  
**NT2** marius reactor  
**NT2** mzfr reactor  
**NT2** narora-1 reactor  
**NT2** narora-2 reactor  
**NT2** npd reactor  
**NT2** nru reactor  
**NT2** nrx reactor  
**NT2** pickering-1 reactor  
**NT2** pickering-2 reactor  
**NT2** pickering-3 reactor  
**NT2** pickering-4 reactor  
**NT2** pickering-5 reactor  
**NT2** pickering-6 reactor  
**NT2** pickering-7 reactor  
**NT2** pickering-8 reactor  
**NT2** point lepreau-1 reactor  
**NT2** point lepreau-2 reactor  
**NT2** pse reactor  
**NT2** r-1 reactor  
**NT2** r-b reactor  
**NT2** rajasthan-1 reactor  
**NT2** rajasthan-2 reactor  
**NT2** rajasthan-3 reactor  
**NT2** rajasthan-4 reactor  
**NT2** taiwan research reactor  
**NT2** windscale production reactors  
**NT2** wolsung-1 reactor  
**NT2** wolsung-2 reactor  
**NT2** wolsung-3 reactor  
**NT2** wolsung-4 reactor  
**NT2** x-10 reactor  
**NT2** zed-2 reactor  
**NT2** zeep reactor  
**NT2** zephyr reactor  
**NT1** organic cooled reactors  
**NT2** eco reactor  
**NT2** eocr reactor  
**NT2** essor reactor  
**NT2** lwor type reactors  
**NT2** omr type reactors  
**NT3** arbus reactor  
**NT3** omre reactor  
**NT3** pnpf reactor  
**NT2** wr-1 reactor  
**NT2** zed-2 reactor  
**NT1** organic moderated reactors  
**NT2** akr-1 reactor  
**NT2** eocr reactor  
**NT2** omr type reactors  
**NT3** arbus reactor  
**NT3** omre reactor  
**NT3** pnpf reactor  
**NT2** rospo reactor  
**NT2** sur-100 series reactor  
**NT2** viper reactor  
**NT2** zerlina reactor  
**NT1** plutonium reactors  
**NT2** clementine reactor  
**NT2** ebr-1 reactor  
**NT2** hclwr type reactors  
**NT2** jatr reactor  
**NT2** lampre-1 reactor  
**NT2** masurca reactor  
**NT2** phenix reactor  
**NT2** prf reactor  
**NT2** rapsodie reactor  
**NT2** sbr-1 reactor  
**NT2** sbr-2 reactor  
**NT2** sbr-5 reactor  
**NT2** sefor reactor  
**NT2** stacy reactor  
**NT2** superphenix reactor  
**NT2** tracy reactor  
**NT2** zeep reactor  
**NT2** zephyr reactor  
**NT1** power reactors  
**NT2** agesta reactor  
**NT2** aipfr reactor  
**NT2** ao-phai-1 reactor  
**NT2** aps reactor  
**NT2** arbus reactor  
**NT2** avr reactor  
**NT2** beloyarsk-1 reactor  
**NT2** beloyarsk-2 reactor  
**NT2** beloyarsk-3 reactor  
**NT2** beloyarsk-4 reactor  
**NT2** bilibin reactor  
**NT2** bn-1200 reactor  
**NT2** bn-1600 reactor  
**NT2** bn-350 reactor  
**NT2** bohunice a-1 reactor  
**NT2** bohunice a-2 reactor  
**NT2** bor-60 reactor  
**NT2** borax-3 reactor  
**NT2** borax-4 reactor  
**NT2** borax-5 reactor  
**NT2** brest-od-300 reactor  
**NT2** bugey-1 reactor  
**NT2** bwr type reactors  
**NT3** allens creek-1 reactor  
**NT3** allens creek-2 reactor  
**NT3** bailly-1 reactor  
**NT3** barsebaeck-1 reactor  
**NT3** barsebaeck-2 reactor  
**NT3** barton-1 reactor  
**NT3** barton-2 reactor  
**NT3** barton-3 reactor  
**NT3** barton-4 reactor  
**NT3** bell reactor  
**NT3** big rock point reactor  
**NT3** black fox-1 reactor  
**NT3** black fox-2 reactor  
**NT3** bolsa chica-1 reactor  
**NT3** bolsa chica-2 reactor  
**NT3** bonus reactor  
**NT3** browns ferry-1 reactor  
**NT3** browns ferry-2 reactor  
**NT3** browns ferry-3 reactor  
**NT3** brunsbuettel reactor  
**NT3** brunswick-1 reactor  
**NT3** brunswick-2 reactor  
**NT3** chinshan-1 reactor  
**NT3** chinshan-2 reactor  
**NT3** clinton-1 reactor  
**NT3** clinton-2 reactor  
**NT3** cofrentes reactor  
**NT3** cooper reactor  
**NT3** dodewaard reactor  
**NT3** douglas point-1 reactor  
**NT3** douglas point-2 reactor  
**NT3** dresden-1 reactor  
**NT3** dresden-2 reactor  
**NT3** dresden-3 reactor  
**NT3** duane arnold-1 reactor  
**NT3** ebwr reactor  
**NT3** enel-4 reactor  
**NT3** enrico fermi-2 reactor  
**NT3** err reactor  
**NT3** fitzpatrick reactor  
**NT3** forsmark-1 reactor  
**NT3** forsmark-2 reactor  
**NT3** forsmark-3 reactor  
**NT3** fukushima-1 reactor

NT3	fukushima-2 reactor	NT3	pathfinder reactor	NT2	joyo reactor
NT3	fukushima-3 reactor	NT3	peach bottom-2 reactor	NT2	kaiga-3 reactor
NT3	fukushima-4 reactor	NT3	peach bottom-3 reactor	NT2	kaiga-4 reactor
NT3	fukushima-5 reactor	NT3	perry-1 reactor	NT2	knk-2 reactor
NT3	fukushima-6 reactor	NT3	perry-2 reactor	NT2	knk reactor
NT3	fukushima-ii-1 reactor	NT3	philippsburg-1 reactor	NT2	kursk-1 reactor
NT3	fukushima-ii-2 reactor	NT3	phipps bend-1 reactor	NT2	kursk-2 reactor
NT3	fukushima-ii-3 reactor	NT3	phipps bend-2 reactor	NT2	kursk-3 reactor
NT3	fukushima-ii-4 reactor	NT3	pilgrim-1 reactor	NT2	kursk-4 reactor
NT3	garigliano reactor	NT3	quad cities-1 reactor	NT2	lampre-1 reactor
NT3	garona reactor	NT3	quad cities-2 reactor	NT2	leningrad-1 reactor
NT3	ge standard reactor	NT3	ringhals-1 reactor	NT2	leningrad-2 reactor
NT3	graben-1 reactor	NT3	river bend-1 reactor	NT2	leningrad-3 reactor
NT3	graben-2 reactor	NT3	river bend-2 reactor	NT2	leningrad-4 reactor
NT3	grand gulf-1 reactor	NT3	rwe-bayernwerk reactor	NT2	magnox type reactors
NT3	grand gulf-2 reactor	NT3	shika-1 reactor	NT3	berkeley reactor
NT3	gundremmingen-2 reactor	NT3	shika-2 reactor	NT3	bradwell reactor
NT3	gundremmingen-3 reactor	NT3	shimane-1 reactor	NT3	calder hall a-1 reactor
NT3	hamaoka-1 reactor	NT3	shimane-2 reactor	NT3	calder hall a-2 reactor
NT3	hamaoka-2 reactor	NT3	shimane-3 reactor	NT3	calder hall b-3 reactor
NT3	hamaoka-3 reactor	NT3	shoreham reactor	NT3	calder hall b-4 reactor
NT3	hamaoka-4 reactor	NT3	skagit-1 reactor	NT3	chapelcross-1 reactor
NT3	hamaoka-5 reactor	NT3	skagit-2 reactor	NT3	chapelcross-2 reactor
NT3	hartsville-1 reactor	NT3	sl-1 reactor	NT3	chapelcross-3 reactor
NT3	hartsville-2 reactor	NT3	susquehanna-1 reactor	NT3	chapelcross-4 reactor
NT3	hartsville-3 reactor	NT3	susquehanna-2 reactor	NT3	dungeness-a reactor
NT3	hartsville-4 reactor	NT3	tarapur-1 reactor	NT3	hinkley point-a reactor
NT3	hatch-1 reactor	NT3	tarapur-2 reactor	NT3	hunterston-a reactor
NT3	hatch-2 reactor	NT3	tokai-2 reactor	NT3	latina reactor
NT3	hdr reactor	NT3	tsuruga reactor	NT3	oldbury-a reactor
NT3	higashidori-1 reactor	NT3	tullnerfeld reactor	NT3	sizewell-a reactor
NT3	hope creek-1 reactor	NT3	vak reactor	NT3	tokai-mura reactor
NT3	hope creek-2 reactor	NT3	vbwr reactor	NT3	trawsfynydd reactor
NT3	humboldt bay reactor	NT3	vermont yankee reactor	NT3	wylfa reactor
NT3	isar reactor	NT3	verplanck-1 reactor	NT2	marviken reactor
NT3	jpdr-2 reactor	NT3	verplanck-2 reactor	NT2	ml-1 reactor
NT3	jpdr reactor	NT3	vk-50 reactor	NT2	monju reactor
NT3	kaiseraugst reactor	NT3	wnp-2 reactor	NT2	msre reactor
NT3	kashiwazaki-kariwa-1 reactor	NT3	wuergassen reactor	NT2	mzfr reactor
NT3	kashiwazaki-kariwa-2 reactor	NT3	zimmer-1 reactor	NT2	n-reactor
NT3	kashiwazaki-kariwa-3 reactor	NT3	zimmer-2 reactor	NT2	narora-1 reactor
NT3	kashiwazaki-kariwa-4 reactor	NT2	cdfr reactor	NT2	narora-2 reactor
NT3	kashiwazaki-kariwa-5 reactor	NT2	chernobylsk-1 reactor	NT2	okg-4 reactor
NT3	kashiwazaki-kariwa-6 reactor	NT2	chernobylsk-2 reactor	NT2	oldbury-b reactor
NT3	kashiwazaki-kariwa-7 reactor	NT2	chernobylsk-3 reactor	NT2	package reactors
NT3	kruemmel reactor	NT2	chernobylsk-4 reactor	NT2	peach bottom-1 reactor
NT3	kuosheng-1 reactor	NT2	chinon-a1 reactor	NT2	pec brasimone reactor
NT3	kuosheng-2 reactor	NT2	chinon-a2 reactor	NT2	perryman-1 reactor
NT3	la salle county-1 reactor	NT2	chinon-a3 reactor	NT2	perryman-2 reactor
NT3	la salle county-2 reactor	NT2	clinch river breeder reactor	NT2	pfr reactor
NT3	lacbwr reactor	NT2	connah quay-b reactor	NT2	phenix reactor
NT3	laguna verde-1 reactor	NT2	dfr reactor	NT2	plbr reactor
NT3	laguna verde-2 reactor	NT2	dragon reactor	NT2	pnpf reactor
NT3	leibstadt reactor	NT2	dungeness-b reactor	NT2	pressure tube reactors
NT3	limerick-1 reactor	NT2	ebor reactor	NT3	atucha-1 reactor
NT3	limerick-2 reactor	NT2	ebr-1 reactor	NT3	atucha-2 reactor
NT3	lingen reactor	NT2	ebr-2 reactor	NT3	candu type reactors
NT3	lungmen-1 reactor	NT2	eger reactor	NT4	bruce-1 reactor
NT3	lungmen-2 reactor	NT2	enrico fermi-1 reactor	NT4	bruce-2 reactor
NT3	mendocino-1 reactor	NT2	epec reactor	NT4	bruce-3 reactor
NT3	mendocino-2 reactor	NT2	escom reactor	NT4	bruce-4 reactor
NT3	millstone-1 reactor	NT2	evsr reactor	NT4	bruce-5 reactor
NT3	montague-1 reactor	NT2	fulton-1 reactor	NT4	bruce-6 reactor
NT3	montague-2 reactor	NT2	fulton-2 reactor	NT4	bruce-7 reactor
NT3	montalto di castro-1 reactor	NT2	ga standard reactor	NT4	bruce-8 reactor
NT3	montalto di castro-2 reactor	NT2	gcre reactor	NT4	cernavoda-1 reactor
NT3	monticello reactor	NT2	ginna-2 reactor	NT4	cernavoda-2 reactor
NT3	muehleberg reactor	NT2	hartlepool reactor	NT4	cordoba reactor
NT3	nine mile point-1 reactor	NT2	hbwr reactor	NT4	darlington-1 reactor
NT3	nine mile point-2 reactor	NT2	heysham-a reactor	NT4	darlington-2 reactor
NT3	okg-1 reactor	NT2	heysham-b reactor	NT4	darlington-3 reactor
NT3	okg-2 reactor	NT2	hinkley point-b reactor	NT4	darlington-4 reactor
NT3	okg-3 reactor	NT2	hnpf reactor	NT4	douglas point ontario reactor
NT3	olkiluoto-1 reactor	NT2	hokuriku-1 reactor	NT4	embalse reactor
NT3	olkiluoto-2 reactor	NT2	hre-2 reactor	NT4	gentilly-1 reactor
NT3	onagawa-1 reactor	NT2	hunterston-b reactor	NT4	gentilly-2 reactor
NT3	onagawa-2 reactor	NT2	ignalina-1 reactor	NT4	kaiga-1 reactor
NT3	onagawa-3 reactor	NT2	ignalina-2 reactor	NT4	kaiga-2 reactor
NT3	oyster creek-1 reactor	NT2	jervis bay reactor	NT4	kakrapar-1 reactor

NT4	kakrapar-2 reactor	NT3	atlantic-1 reactor	NT3	dampierre-4 reactor
NT4	kanupp reactor	NT3	atlantic-2 reactor	NT3	davis besse-1 reactor
NT4	npd reactor	NT3	basf-1 reactor	NT3	davis besse-2 reactor
NT4	pickering-1 reactor	NT3	basf-2 reactor	NT3	davis besse-3 reactor
NT4	pickering-2 reactor	NT3	beaver valley-1 reactor	NT3	daya bay-1 reactor
NT4	pickering-3 reactor	NT3	beaver valley-2 reactor	NT3	daya bay-2 reactor
NT4	pickering-4 reactor	NT3	bellefonte-1 reactor	NT3	diablo canyon-1 reactor
NT4	pickering-5 reactor	NT3	bellefonte-2 reactor	NT3	diablo canyon-2 reactor
NT4	pickering-6 reactor	NT3	belleville-1 reactor	NT3	doel-1 reactor
NT4	pickering-7 reactor	NT3	belleville-2 reactor	NT3	doel-2 reactor
NT4	pickering-8 reactor	NT3	beznau-1 reactor	NT3	doel-3 reactor
NT4	point lepreau-1 reactor	NT3	beznau-2 reactor	NT3	doel-4 reactor
NT4	point lepreau-2 reactor	NT3	biblis-1 reactor	NT3	efdr-50 reactor
NT4	qinshan-3-1 reactor	NT3	biblis-2 reactor	NT3	emsland reactor
NT4	qinshan-3-2 reactor	NT3	biblis-3 reactor	NT3	erie-1 reactor
NT4	rajasthan-1 reactor	NT3	biblis-4 reactor	NT3	erie-2 reactor
NT4	rajasthan-2 reactor	NT3	blayais-1 reactor	NT3	fangchenggang-1 reactor
NT4	rajasthan-3 reactor	NT3	blayais-2 reactor	NT3	fangchenggang-2 reactor
NT4	rajasthan-4 reactor	NT3	blayais-3 reactor	NT3	fangjiashan-1 reactor
NT4	wolsung-1 reactor	NT3	blayais-4 reactor	NT3	fangjiashan-2 reactor
NT4	wolsung-2 reactor	NT3	blue hills-1 reactor	NT3	farley-1 reactor
NT4	wolsung-3 reactor	NT3	blue hills-2 reactor	NT3	farley-2 reactor
NT4	wolsung-4 reactor	NT3	borssele reactor	NT3	fessenheim-1 reactor
NT3	cirene reactor	NT3	br-3 reactor	NT3	fessenheim-2 reactor
NT3	cvtr reactor	NT3	braidwood-1 reactor	NT3	flamanville-1 reactor
NT3	el-4 reactor	NT3	braidwood-2 reactor	NT3	flamanville-2 reactor
NT3	jatr reactor	NT3	brokdorf reactor	NT3	flamanville-3 reactor
NT3	kalpakkam-1 reactor	NT3	bugey-2 reactor	NT3	forked river-1 reactor
NT3	kalpakkam-2 reactor	NT3	bugey-3 reactor	NT3	fuqing-1 reactor
NT3	lucens reactor	NT3	bugey-4 reactor	NT3	fuqing-2 reactor
NT3	niederaichbach reactor	NT3	bugey-5 reactor	NT3	fuqing-3 reactor
NT3	prtr reactor	NT3	bw standard reactor	NT3	fuqing-4 reactor
NT3	sghwr reactor	NT3	byron-1 reactor	NT3	fuqing-5 reactor
NT2	propulsion reactors	NT3	byron-2 reactor	NT3	fuqing-6 reactor
NT3	aircraft propulsion reactors	NT3	calhoun-1 reactor	NT3	genkai-1 reactor
NT4	xma-1 reactor	NT3	calhoun-2 reactor	NT3	genkai-2 reactor
NT3	ship propulsion reactors	NT3	callaway-1 reactor	NT3	genkai-3 reactor
NT4	efdr-50 reactor	NT3	callaway-2 reactor	NT3	genkai-4 reactor
NT4	lenin reactor	NT3	calvert cliffs-1 reactor	NT3	ginna-1 reactor
NT4	leonid brezhnev reactor	NT3	calvert cliffs-2 reactor	NT3	goesgen reactor
NT4	mutsu reactor	NT3	carem 25 reactor	NT3	golfech-1 reactor
NT4	otto hahn reactor	NT3	catawba-1 reactor	NT3	golfech-2 reactor
NT4	savannah reactor	NT3	catawba-2 reactor	NT3	grafenrheinfeld reactor
NT4	sibir reactor	NT3	cattenom-1 reactor	NT3	gravelines-1 reactor
NT3	space propulsion reactors	NT3	cattenom-2 reactor	NT3	gravelines-2 reactor
NT4	kiwi reactors	NT3	cattenom-3 reactor	NT3	gravelines-3 reactor
NT5	kiwi-tnt reactor	NT3	cattenom-4 reactor	NT3	gravelines-4 reactor
NT4	nerva reactor	NT3	ce standard reactor	NT3	gravelines-5 reactor
NT4	nrx-a1 reactor	NT3	changjiang-1 reactor	NT3	gravelines-6 reactor
NT4	nrx-a2 reactor	NT3	changjiang-2 reactor	NT3	greene county reactor
NT4	nrx-a3 reactor	NT3	chasnupp-1 reactor	NT3	greenwood-2 reactor
NT4	nrx-a4-est reactor	NT3	chasnupp-2 reactor	NT3	greenwood-3 reactor
NT4	nrx-a5 reactor	NT3	chasnupp-3 reactor	NT3	grohnde reactor
NT4	nrx-a6 reactor	NT3	cherokee-1 reactor	NT3	hamm-uentrop reactor
NT4	nrx-a7 reactor	NT3	cherokee-2 reactor	NT3	hanbit-1 reactor
NT4	pewee-1 reactor	NT3	cherokee-3 reactor	NT3	hanbit-2 reactor
NT4	pewee-2 reactor	NT3	chinon-b1 reactor	NT3	hanbit-3 reactor
NT4	pewee-3 reactor	NT3	chinon-b2 reactor	NT3	hanbit-4 reactor
NT4	pewee-4 reactor	NT3	chinon-b3 reactor	NT3	hanbit-5 reactor
NT4	phoebus-1a reactor	NT3	chinon-b4 reactor	NT3	hanbit-6 reactor
NT4	phoebus-1b reactor	NT3	chooz-a reactor	NT3	harris-1 reactor
NT4	phoebus-2a reactor	NT3	chooz-b1 reactor	NT3	harris-2 reactor
NT4	rover reactors	NT3	chooz-b2 reactor	NT3	harris-3 reactor
NT4	twmr reactor	NT3	civaux-1 reactor	NT3	harris-4 reactor
NT4	xe-2 reactor	NT3	civaux-2 reactor	NT3	haven-1 reactor
NT3	tory-2a reactor	NT3	comanche peak-1 reactor	NT4	koshkonong-1 reactor
NT3	tory-2c reactor	NT3	comanche peak-2 reactor	NT3	haven-2 reactor
NT3	xe-prime reactor	NT3	connecticut yankee reactor	NT4	koshkonong-2 reactor
NT2	pwr type reactors	NT3	cook-1 reactor	NT3	hongyanhe-1 reactor
NT3	aguirre reactor	NT3	cook-2 reactor	NT3	hongyanhe-2 reactor
NT3	almaz-1 reactor	NT3	cruas-1 reactor	NT3	hongyanhe-3 reactor
NT3	almaz-2 reactor	NT3	cruas-2 reactor	NT3	hongyanhe-4 reactor
NT3	angra-1 reactor	NT3	cruas-3 reactor	NT3	ikata-2 reactor
NT3	angra-2 reactor	NT3	cruas-4 reactor	NT3	ikata-3 reactor
NT3	angra-3 reactor	NT3	crystal river-3 reactor	NT3	ikata reactor
NT3	arkansas-1 reactor	NT3	crystal river-4 reactor	NT3	indian point-1 reactor
NT3	arkansas-2 reactor	NT3	dampierre-1 reactor	NT3	indian point-2 reactor
NT3	asco-1 reactor	NT3	dampierre-2 reactor	NT3	indian point-3 reactor
NT3	asco-2 reactor	NT3	dampierre-3 reactor	NT3	iran-1 reactor

NT3	iran-2 reactor	NT3	pat reactor	NT3	three mile island-2 reactor
NT3	isar-2 reactor	NT3	pebble springs-1 reactor	NT3	tihange-2 reactor
NT3	jamesport-1 reactor	NT3	pebble springs-2 reactor	NT3	tihange-3 reactor
NT3	jamesport-2 reactor	NT3	penly-1 reactor	NT3	tihange reactor
NT3	kewaunee reactor	NT3	penly-2 reactor	NT3	tomari-1 reactor
NT3	koeborg-1 reactor	NT3	penly-3 reactor	NT3	tomari-2 reactor
NT3	koeborg-2 reactor	NT3	perkins-1 reactor	NT3	tomari-3 reactor
NT3	kori-1 reactor	NT3	perkins-2 reactor	NT3	tricastin-1 reactor
NT3	kori-2 reactor	NT3	perkins-3 reactor	NT3	tricastin-2 reactor
NT3	kori-3 reactor	NT3	philippsburg-2 reactor	NT3	tricastin-3 reactor
NT3	kori-4 reactor	NT3	pilgrim-2 reactor	NT3	tricastin-4 reactor
NT3	krsko reactor	NT3	pilgrim-3 reactor	NT3	trillo-1 reactor
NT3	lemoniz-1 reactor	NT3	pm-2a reactor	NT3	trojan reactor
NT3	lemoniz-2 reactor	NT3	pm-3a reactor	NT3	tsuruga-2 reactor
NT3	lenin reactor	NT3	pnp-1 reactor	NT3	turkey point-3 reactor
NT3	leonid brezhnev reactor	NT3	point beach-1 reactor	NT3	turkey point-4 reactor
NT3	lingao-1 reactor	NT3	point beach-2 reactor	NT3	tva-1 reactor
NT3	lingao-2 reactor	NT3	prairie island-1 reactor	NT3	tva-2 reactor
NT3	lingao-3 reactor	NT3	prairie island-2 reactor	NT3	tyrone-1 reactor
NT3	lingao-4 reactor	NT3	qinshan-1 reactor	NT3	tyrone-2 reactor
NT3	loft reactor	NT3	qinshan-2-1 reactor	NT3	ulchin-1 reactor
NT3	lucie-1 reactor	NT3	qinshan-2-2 reactor	NT3	ulchin-2 reactor
NT3	lucie-2 reactor	NT3	qinshan-2-3 reactor	NT3	ulchin-3 reactor
NT3	maanshan-1 reactor	NT3	qinshan-2-4 reactor	NT3	ulchin-4 reactor
NT3	maanshan-2 reactor	NT3	quanicassee-1 reactor	NT3	ulchin-5 reactor
NT3	maine yankee reactor	NT3	quanicassee-2 reactor	NT3	ulchin-6 reactor
NT3	malibu-1 reactor	NT3	rancho seco-1 reactor	NT3	unterweser reactor
NT3	marble hill-1 reactor	NT3	remerschen reactor	NT3	vahnum-1 reactor
NT3	marble hill-2 reactor	NT3	rheinsberg akw1 reactor	NT3	vahnum-2 reactor
NT3	mc guire-1 reactor	NT3	ringhals-2 reactor	NT3	vandellos-2 reactor
NT3	mc guire-2 reactor	NT3	ringhals-3 reactor	NT3	vogtle-1 reactor
NT3	mh-1a reactor	NT3	ringhals-4 reactor	NT3	vogtle-2 reactor
NT3	midland-1 reactor	NT3	robinson-2 reactor	NT3	vogtle-3 reactor
NT3	midland-2 reactor	NT3	rooppur reactor	NT3	vogtle-4 reactor
NT3	mihama-1 reactor	NT3	rowe yankee reactor	NT3	waterford-3 reactor
NT3	mihama-2 reactor	NT3	s1c prototype reactor	NT3	waterford-4 reactor
NT3	mihama-3 reactor	NT3	saint alban-1 reactor	NT3	watts bar-1 reactor
NT3	millstone-2 reactor	NT3	saint alban-2 reactor	NT3	watts bar-2 reactor
NT3	millstone-3 reactor	NT3	saint laurent-b1 reactor	NT3	westinghouse standard reactor
NT3	muelheim-kaerlich reactor	NT3	saint laurent-b2 reactor	NT3	wnp-1 reactor
NT3	mutsu reactor	NT3	salem-1 reactor	NT3	wnp-3 reactor
NT3	neckar-1 reactor	NT3	salem-2 reactor	NT3	wnp-4 reactor
NT3	neckar-2 reactor	NT3	san onofre-1 reactor	NT3	wnp-5 reactor
NT3	nep-1 reactor	NT3	san onofre-2 reactor	NT3	wolf creek-1 reactor
NT3	nep-2 reactor	NT3	san onofre-3 reactor	NT3	wup-3 reactor
NT3	neupotz-1 reactor	NT3	savannah reactor	NT3	wup-4 reactor
NT3	neupotz-2 reactor	NT3	saxton reactor	NT3	wup-5 reactor
NT3	ningde-1 reactor	NT3	seabrook-1 reactor	NT3	wup-6 reactor
NT3	ningde-2 reactor	NT3	seabrook-2 reactor	NT3	wwer type reactors
NT3	ningde-3 reactor	NT3	selni reactor	NT4	armenian-1 reactor
NT3	ningde-4 reactor	NT3	sendai-1 reactor	NT4	armenian-2 reactor
NT3	nogent-1 reactor	NT3	sendai-2 reactor	NT4	balakovo-1 reactor
NT3	nogent-2 reactor	NT3	sequoyah-1 reactor	NT4	balakovo-2 reactor
NT3	north anna-1 reactor	NT3	sequoyah-2 reactor	NT4	balakovo-3 reactor
NT3	north anna-2 reactor	NT3	shin-kori-1 reactor	NT4	balakovo-4 reactor
NT3	north anna-3 reactor	NT3	shin-kori-2 reactor	NT4	blahutovice-1 reactor
NT3	north anna-4 reactor	NT3	shin-kori-3 reactor	NT4	bohunice v-1 reactor
NT3	north coast-1 reactor	NT3	shin-wolsong-1 reactor	NT4	bohunice v-2 reactor
NT3	obrigheim reactor	NT3	shippingport reactor	NT4	dukovany-1 reactor
NT3	oconee-1 reactor	NT3	sizewell-b reactor	NT4	dukovany-2 reactor
NT3	oconee-2 reactor	NT3	sm-1 reactor	NT4	dukovany-3 reactor
NT3	oconee-3 reactor	NT3	sm-1a reactor	NT4	dukovany-4 reactor
NT3	oi-1 reactor	NT3	south texas project-1 reactor	NT4	greifswald-1 reactor
NT3	oi-2 reactor	NT3	south texas project-2 reactor	NT4	greifswald-2 reactor
NT3	oi-3 reactor	NT3	stade reactor	NT4	greifswald-3 reactor
NT3	oi-4 reactor	NT3	sterling-1 reactor	NT4	greifswald-4 reactor
NT3	oktembryan-2 reactor	NT3	sterling-2 reactor	NT4	greifswald-5 reactor
NT3	olkiluoto-3 reactor	NT3	summer-1 reactor	NT4	greifswald-6 reactor
NT3	otto hahn reactor	NT3	sundesert-1 reactor	NT4	juragua-1 reactor
NT3	palisades-1 reactor	NT3	sundesert-2 reactor	NT4	kalinin-1 reactor
NT3	palo verde-1 reactor	NT3	surry-1 reactor	NT4	kalinin-2 reactor
NT3	palo verde-2 reactor	NT3	surry-2 reactor	NT4	kalinin-3 reactor
NT3	palo verde-3 reactor	NT3	surry-3 reactor	NT4	kalinin-4 reactor
NT3	palo verde-4 reactor	NT3	surry-4 reactor	NT4	kecerovce-1 reactor
NT3	palo verde-5 reactor	NT3	takahama-1 reactor	NT4	khmelnitskij-1 reactor
NT3	paluel-1 reactor	NT3	takahama-2 reactor	NT4	khmelnitskij-2 reactor
NT3	paluel-2 reactor	NT3	takahama-3 reactor	NT4	kola-1 reactor
NT3	paluel-3 reactor	NT3	takahama-4 reactor	NT4	kola-2 reactor
NT3	paluel-4 reactor	NT3	three mile island-1 reactor	NT4	kola-3 reactor

- NT4** kola-4 reactor  
**NT4** kozloduy-1 reactor  
**NT4** kozloduy-2 reactor  
**NT4** kozloduy-3 reactor  
**NT4** kozloduy-4 reactor  
**NT4** kozloduy-5 reactor  
**NT4** kozloduy-6 reactor  
**NT4** kudankulam-1 reactor  
**NT4** kudankulam-2 reactor  
**NT4** loviisa-1 reactor  
**NT4** loviisa-2 reactor  
**NT4** mochovce-1 reactor  
**NT4** mochovce-2 reactor  
**NT4** novovoronezh-1 reactor  
**NT4** novovoronezh-2 reactor  
**NT4** novovoronezh-3 reactor  
**NT4** novovoronezh-4 reactor  
**NT4** novovoronezh-5 reactor  
**NT4** paks-1 reactor  
**NT4** paks-2 reactor  
**NT4** paks-3 reactor  
**NT4** paks-4 reactor  
**NT4** rostov-1 reactor  
**NT4** rostov-2 reactor  
**NT4** rostov-3 reactor  
**NT4** rovno-1 reactor  
**NT4** rovno-2 reactor  
**NT4** rovno-3 reactor  
**NT4** rovno-4 reactor  
**NT4** rovno-5 reactor  
**NT4** south ukrainian-1 reactor  
**NT4** south ukrainian-2 reactor  
**NT4** south ukrainian-3 reactor  
**NT4** stendal-1 reactor  
**NT4** tatarian reactor  
**NT4** temelin-1 reactor  
**NT4** temelin-2 reactor  
**NT4** tianwan-1 reactor  
**NT4** tianwan-2 reactor  
**NT4** zaporozhe-1 reactor  
**NT4** zaporozhe-2 reactor  
**NT4** zaporozhe-3 reactor  
**NT4** zaporozhe-4 reactor  
**NT4** zaporozhe-5 reactor  
**NT4** zaporozhe-6 reactor  
**NT3** wyhl-1 reactor  
**NT3** wyhl-2 reactor  
**NT3** yangjiang-1 reactor  
**NT3** yangjiang-2 reactor  
**NT3** yangjiang-3 reactor  
**NT3** yangjiang-4 reactor  
**NT3** yellow creek-1 reactor  
**NT3** yellow creek-2 reactor  
**NT3** zion-1 reactor  
**NT3** zion-2 reactor  
**NT3** zorita-1 reactor  
**NT2** rajasthan-5 reactor  
**NT2** rajasthan-6 reactor  
**NT2** rancho seco-2 reactor  
**NT2** saint laurent-a1 reactor  
**NT2** saint laurent-a2 reactor  
**NT2** schmehausen-2 reactor  
**NT2** sefor reactor  
**NT2** smolensk-1 reactor  
**NT2** smolensk-2 reactor  
**NT2** smolensk-3 reactor  
**NT2** snr-2 reactor  
**NT2** snr reactor  
**NT2** space power reactors  
**NT3** snap reactors  
**NT4** snap 10 reactor  
**NT5** s10fs-1 reactor  
**NT5** s10fs-3 reactor  
**NT5** s10fs-4 reactor  
**NT4** snap 2 reactor  
**NT5** s2ds reactor  
**NT4** snap 50 reactor  
**NT4** snap 8 reactor  
**NT5** s8dr reactor  
**NT5** s8er reactor  
**NT3** space propulsion reactors  
**NT4** kiwi reactors  
**NT5** kiwi-tnt reactor  
**NT4** nerva reactor  
**NT4** nrx-a1 reactor  
**NT4** nrx-a2 reactor  
**NT4** nrx-a3 reactor  
**NT4** nrx-a4-est reactor  
**NT4** nrx-a5 reactor  
**NT4** nrx-a6 reactor  
**NT4** nrx-a7 reactor  
**NT4** pewee-1 reactor  
**NT4** pewee-2 reactor  
**NT4** pewee-3 reactor  
**NT4** pewee-4 reactor  
**NT4** phoebus-1a reactor  
**NT4** phoebus-1b reactor  
**NT4** phoebus-2a reactor  
**NT4** rover reactors  
**NT4** twmr reactor  
**NT4** xe-2 reactor  
**NT2** sre reactor  
**NT2** summit-1 reactor  
**NT2** summit-2 reactor  
**NT2** tarapur-3 reactor  
**NT2** tarapur-4 reactor  
**NT2** thermionic reactors  
**NT2** thermoelectric reactors  
**NT2** thtr-300 reactor  
**NT2** topaz reactor  
**NT2** torness reactor  
**NT2** vandellos reactor  
**NT2** vg-400 reactor  
**NT2** vgr-50 reactor  
**NT2** vht reactor  
**NT2** vidal-1 reactor  
**NT2** vidal-2 reactor  
**NT2** vrain reactor  
**NT2** wagr reactor  
**NT1** process heat reactors  
**NT2** agesta reactor  
**NT2** midland-1 reactor  
**NT2** midland-2 reactor  
**NT2** nhr-5 reactor  
**NT2** pm-2a reactor  
**NT2** ser reactor  
**NT2** sl-1 reactor  
**NT2** slowpoke-wmre reactor  
**NT2** sm-1a reactor  
**NT2** snap 10 reactor  
**NT3** s10fs-1 reactor  
**NT3** s10fs-3 reactor  
**NT3** s10fs-4 reactor  
**NT2** snap-tsf reactor  
**NT2** thermos reactor  
**NT1** production reactors  
**NT2** plutonium production reactors  
**NT3** calder hall a-1 reactor  
**NT3** calder hall a-2 reactor  
**NT3** calder hall b-3 reactor  
**NT3** calder hall b-4 reactor  
**NT3** chapelcross-1 reactor  
**NT3** chapelcross-2 reactor  
**NT3** chapelcross-3 reactor  
**NT3** chapelcross-4 reactor  
**NT3** g-1 reactor  
**NT3** g-2 reactor  
**NT3** g-3 reactor  
**NT3** hanford production reactors  
**NT3** n-reactor  
**NT3** windscale production reactors  
**NT2** rtr reactor  
**NT2** special production reactors  
**NT3** c reactor  
**NT3** k reactor  
**NT3** l reactor  
**NT3** p reactor  
**NT3** r reactor  
**NT2** sr-305 reactor  
**NT1** pulsed reactors  
**NT2** acpr reactor  
**NT2** aprf reactor  
**NT2** atrp reactor  
**NT2** bigr reactor  
**NT2** bir reactor  
**NT2** fbrf reactor  
**NT2** fir-1 reactor  
**NT2** gidra reactor  
**NT2** hector reactor  
**NT2** hprr reactor  
**NT2** ibr-2 reactor  
**NT2** ibr-30 reactor  
**NT2** igr reactor  
**NT2** kalpakkam pfr reactor  
**NT2** nsrr reactor  
**NT2** ostr reactor  
**NT2** pbf reactor  
**NT2** sora reactor  
**NT2** spr-2 reactor  
**NT2** spr-3 reactor  
**NT2** spr-4 reactor  
**NT2** super kukla reactor  
**NT2** tibr reactor  
**NT2** triga-1-california reactor  
**NT2** triga-1-michigan reactor  
**NT2** triga-2-bangladesh reactor  
**NT2** triga-2-illinois reactor  
**NT2** triga-2-kansas reactor  
**NT2** triga-2-mainz reactor  
**NT2** triga-2-pavia reactor  
**NT2** triga-2-pitesti reactor  
**NT2** triga-3-munich reactor  
**NT2** triga-texas reactor  
**NT2** ucbr reactor  
**NT2** viper reactor  
**NT2** wsur reactor  
**NT2** xapr reactor  
**NT1** research and test reactors  
**NT2** argonaut type reactors  
**NT3** aeg-pr-10 reactor  
**NT3** arbi reactor  
**NT3** argonaut reactor  
**NT3** argos reactor  
**NT3** athene reactor  
**NT3** jason reactor  
**NT3** lfr reactor  
**NT3** moata reactor  
**NT3** nestor reactor  
**NT3** queen mary college utr-b reactor  
**NT3** ra-1 reactor  
**NT3** rb-2 reactor  
**NT3** rien-1 reactor  
**NT3** src-utr-100 reactor  
**NT3** stark reactor  
**NT3** strasbourg-cronenbourg reactor  
**NT3** ufr reactor  
**NT3** ulyse reactor  
**NT3** urr reactor  
**NT3** utr-10-kinki reactor  
**NT3** vpi-utr-10 reactor  
**NT2** experimental reactors  
**NT3** aps reactor  
**NT3** arbus reactor  
**NT3** atrc reactor  
**NT3** bilibin reactor  
**NT3** bor-60 reactor  
**NT3** borax-1 reactor  
**NT3** borax-2 reactor  
**NT3** borax-3 reactor  
**NT3** borax-4 reactor  
**NT3** brest-od-300 reactor  
**NT3** cefr reactor  
**NT3** cesar reactor  
**NT3** dfr reactor  
**NT3** dragon reactor  
**NT3** ebr-1 reactor  
**NT3** ebr-2 reactor

- NT3** ebwr reactor  
**NT3** egcr reactor  
**NT3** el-1 reactor  
**NT3** eocr reactor  
**NT3** esada-vesr reactor  
**NT3** ewg-1 reactor  
**NT3** gcre reactor  
**NT3** hbwr reactor  
**NT3** hdr reactor  
**NT3** hre-2 reactor  
**NT3** htr-10 reactor  
**NT3** htrr reactor  
**NT3** igr reactor  
**NT3** ir-100 reactor  
**NT3** joyo reactor  
**NT3** jpdr reactor  
**NT3** jules horowitz reactor  
**NT3** kiwi-tnt reactor  
**NT3** knk-2 reactor  
**NT3** knk reactor  
**NT3** lampre-1 reactor  
**NT3** mh-1a reactor  
**NT3** mir reactor  
**NT3** msre reactor  
**NT3** nrx-a1 reactor  
**NT3** nrx-a2 reactor  
**NT3** nrx-a3 reactor  
**NT3** nrx-a4-est reactor  
**NT3** nrx-a5 reactor  
**NT3** nrx-a6 reactor  
**NT3** nrx-a7 reactor  
**NT3** omre reactor  
**NT3** opal reactor  
**NT3** rover reactors  
**NT3** sefor reactor  
**NT3** spert-1 reactor  
**NT3** spert-2 reactor  
**NT3** spert-3 reactor  
**NT3** spert-4 reactor  
**NT3** sre reactor  
**NT3** subcritical assemblies  
**NT4** accelerator-driven subcritical systems  
**NT5** accelerator-driven transmutation facilities  
**NT5** brahma facility  
**NT5** myrrha facility  
**NT5** venus reactor  
**NT5** yalina facility  
**NT4** entc lwsr reactor  
**NT4** pse reactor  
**NT4** sm-1 subcritical assembly  
**NT4** stsf assembly  
**NT4** venus-1 reactor  
**NT3** topaz reactor  
**NT3** tory-2a reactor  
**NT3** tory-2c reactor  
**NT3** treat reactor  
**NT3** tz1 reactor  
**NT3** tz2 reactor  
**NT3** uhtrex reactor  
**NT3** venus reactor  
**NT3** vhtr reactor  
**NT3** xe-2 reactor  
**NT3** xe-prime reactor  
**NT3** xma-1 reactor  
**NT3** zero power reactors  
**NT4** agata reactor  
**NT4** akr-1 reactor  
**NT4** anex reactor  
**NT4** anna reactor  
**NT4** apfa-3 reactor  
**NT4** aquilon reactor  
**NT4** bfs reactor  
**NT4** big ten reactor  
**NT4** cfrmf reactor  
**NT4** cml reactor  
**NT4** coral-1 reactor  
**NT4** crocus reactor  
**NT4** dca reactor  
**NT4** dimple reactor  
**NT4** ecel reactor  
**NT4** entc lwsr reactor  
**NT4** ermine reactor  
**NT4** etrc reactor  
**NT4** fca reactor  
**NT4** flattop reactor  
**NT4** fr-0 reactor  
**NT4** giacint reactor  
**NT4** godiva reactor  
**NT4** hero reactor  
**NT4** hitrex-1 reactor  
**NT4** horace reactor  
**NT4** hwzpr reactor  
**NT4** iea-zpr reactor  
**NT4** ifr reactor  
**NT4** ipen-mb-1 reactor  
**NT4** jezebel reactor  
**NT4** juno reactor  
**NT4** kahter reactor  
**NT4** kbr-1 reactor  
**NT4** kritz reactor  
**NT4** kuca reactor  
**NT4** lptf reactor  
**NT4** lr-0 reactor  
**NT4** lvr-15 reactor  
**NT4** marius reactor  
**NT4** maryla reactor  
**NT4** masurca reactor  
**NT4** minerve reactor  
**NT4** neptune reactor  
**NT4** nsf-rfp reactor  
**NT4** or-cef reactor  
**NT4** ornl-pca reactor  
**NT4** parka reactor  
**NT4** pdp reactor  
**NT4** peggy reactor  
**NT4** pelinduna reactor  
**NT4** plasma core assembly  
**NT4** prcf reactor  
**NT4** ptf-unc reactor  
**NT4** pumima-2 reactor  
**NT4** purnima reactor  
**NT4** r-b reactor  
**NT4** ra-0 reactor  
**NT4** ra-2 reactor  
**NT4** ra-8 reactor  
**NT4** rake-2 reactor  
**NT4** rb-1 reactor  
**NT4** rb-3 reactor  
**NT4** renselaer critical facility  
**NT4** ritmo reactor  
**NT4** rosopo reactor  
**NT4** saref reactor  
**NT4** shca reactor  
**NT4** silene reactor  
**NT4** silhouette reactor  
**NT4** sm-1 subcritical assembly  
**NT4** sneak reactor  
**NT4** split table reactor  
**NT4** sr-0a reactor  
**NT4** stacy reactor  
**NT4** tca reactor  
**NT4** tr-0 reactor  
**NT4** tracy reactor  
**NT4** vera reactor  
**NT4** zebra reactor  
**NT4** zeep reactor  
**NT4** zenith reactor  
**NT4** zephyr reactor  
**NT4** zerlina reactor  
**NT4** zlfr reactor  
**NT4** zppr reactor  
**NT4** zpr-3 reactor  
**NT4** zpr-6 reactor  
**NT4** zpr-9 reactor  
**NT4** zpr reactor  
**NT4** zr-6 reactor  
**NT3** zrr reactor  
**NT2** kalpakkam pfr reactor  
**NT2** kamini reactor  
**NT2** maple reactor  
**NT2** maple type reactors  
**NT2** maria reactor  
**NT2** nuclear furnace reactor  
**NT2** purnima-3 reactor  
**NT2** research reactors  
**NT3** ill high flux reactor  
**NT3** aarr reactor  
**NT3** acpr reactor  
**NT3** aeg-pr-10 reactor  
**NT3** aerojet-general nucleonics reactors  
**NT4** agn 201 costanza  
**NT3** aftri reactor  
**NT3** afsr reactor  
**NT3** agata reactor  
**NT3** ai-1-77 reactor  
**NT3** alrr reactor  
**NT3** anna reactor  
**NT3** aprf reactor  
**NT3** apsara reactor  
**NT3** arbi reactor  
**NT3** argonaut reactor  
**NT3** argos reactor  
**NT3** argus reactor  
**NT3** armf-1 reactor  
**NT3** astra reactor  
**NT3** athene reactor  
**NT3** atrp reactor  
**NT3** atrs reactor  
**NT3** avogadro rs-1 reactor  
**NT3** barn reactor  
**NT3** bepo reactor  
**NT3** ber-2 reactor  
**NT3** bgrr reactor  
**NT3** bigr reactor  
**NT3** bir reactor  
**NT3** br-02 reactor  
**NT3** br-1 reactor  
**NT3** brr reactor  
**NT3** bsr-1 reactor  
**NT3** bsr-2 reactor  
**NT3** byu 1-77 reactor  
**NT3** cabri reactor  
**NT3** carem 25 reactor  
**NT3** carr reactor  
**NT3** cesar reactor  
**NT3** cesnef reactor  
**NT3** cirus reactor  
**NT3** clementine reactor  
**NT3** cmrr reactor  
**NT3** consort-2 reactor  
**NT3** coral-1 reactor  
**NT3** cp-2 reactor  
**NT3** cp-3 reactor  
**NT3** cp-3m reactor  
**NT3** cp-5 reactor  
**NT3** cp-6 reactor  
**NT3** crocus reactor  
**NT3** democritus reactor  
**NT3** dhruva reactor  
**NT3** dido reactor  
**NT3** diorit reactor  
**NT3** dmtr reactor  
**NT3** dow triga-mk-1 reactor  
**NT3** dr-1 reactor  
**NT3** dr-2 reactor  
**NT3** dr-3 reactor  
**NT3** ebor reactor  
**NT3** ebr-1 reactor  
**NT3** eco reactor  
**NT3** el-1 reactor  
**NT3** el-2 reactor  
**NT3** el-3 reactor  
**NT3** eocr reactor  
**NT3** eole reactor



NT3	es-salam reactor	NT3	jrr-3m reactor	NT3	rb-1 reactor
NT3	etr reactor	NT3	jrr-4 reactor	NT3	rg-1m reactor
NT3	etrc reactor	NT3	juno reactor	NT3	rien-1 reactor
NT3	etrr-1 reactor	NT3	kartini-ppny reactor	NT3	risc reactor
NT3	etrr-2 reactor	NT3	king reactor	NT3	ritmo reactor
NT3	ewa reactor	NT3	kstr reactor	NT3	rmb reactor
NT3	f-1 reactor	NT3	kuhfr reactor	NT3	romashka reactor
NT3	fbrf reactor	NT3	kur reactor	NT3	rp-10 reactor
NT3	fftf reactor	NT3	la reina rech-1 reactor	NT3	rpt reactor
NT3	fir-1 reactor	NT3	lfr reactor	NT3	rts-1 reactor
NT3	fmr reactor	NT3	lido reactor	NT3	rv-1 reactor
NT3	fmr reactor	NT3	lo aguirre rech-2 reactor	NT3	safari-1 reactor
NT3	fmr reactor	NT3	lpr reactor	NT3	sbr-1 reactor
NT3	fr-0 reactor	NT3	lptr reactor	NT3	sbr-2 reactor
NT3	fr-2 reactor	NT3	ltir reactor	NT3	sbr-5 reactor
NT3	frf reactor	NT3	lvr-15 reactor	NT3	scarabee reactor
NT3	frg-1 reactor	NT3	marius reactor	NT3	silene reactor
NT3	frg-2 reactor	NT3	maryla reactor	NT3	slowpoke type reactors
NT3	frj-1 reactor	NT3	melusine-1 reactor	NT4	slowpoke-alberta reactor
NT3	frj-2 reactor	NT3	merlin reactor	NT4	slowpoke-dalhousie reactor
NT3	frm-ii reactor	NT3	minerve reactor	NT4	slowpoke-mona reactor
NT3	frm reactor	NT3	mitr reactor	NT4	slowpoke-montreal reactor
NT3	frn reactor	NT3	mnr reactor	NT4	slowpoke-ottawa reactor
NT3	ga siwabessy reactor	NT3	mnr reactor	NT4	slowpoke rmc reactor
NT3	giacint reactor	NT3	mnsr type reactors	NT4	slowpoke src reactor
NT3	gidra reactor	NT4	entc mnsr reactor	NT4	slowpoke-toronto reactor
NT3	gleep reactor	NT4	gharr-1 reactor	NT4	slowpoke-wnre reactor
NT3	grenoble reactor	NT4	mnsr-ciae reactor	NT3	sm-1 subcritical assembly
NT3	gtrr reactor	NT4	mnsr-sd reactor	NT3	sneak reactor
NT3	gulf triga-mk-3 reactor	NT4	mnsr-sh reactor	NT3	sora reactor
NT3	hanaro reactor	NT4	mnsr-sz reactor	NT3	spert-1 reactor
NT3	harmonie reactor	NT4	nirr-1 reactor	NT3	spr-2 reactor
NT3	hector reactor	NT4	parr-2 reactor	NT3	spr-3 reactor
NT3	herald reactor	NT4	srr-1 reactor	NT3	spr-4 reactor
NT3	hero reactor	NT3	moata reactor	NT3	spr-iae reactor
NT3	hew-305 reactor	NT3	mr reactor	NT3	spr-300 reactor
NT3	hfbr reactor	NT3	mrr reactor	NT3	sr-1 reactor
NT3	hfir reactor	NT3	murr reactor	NT3	sr-0a reactor
NT3	hfr reactor	NT3	myrrha facility	NT3	srrc-utr-100 reactor
NT3	hifar reactor	NT3	nbsr reactor	NT3	stf reactor
NT3	hor reactor	NT3	ncscr-1 reactor	NT3	supo reactor
NT3	horace reactor	NT3	nestor reactor	NT3	swierk r-2 reactor
NT3	hpr reactor	NT3	nhr-5 reactor	NT3	taiwan research reactor
NT3	hre-2 reactor	NT3	nora reactor	NT3	tapiro reactor
NT3	htlr reactor	NT3	nru reactor	NT3	tea reactor
NT3	htr reactor	NT3	nrx reactor	NT3	thetis reactor
NT3	hwrr reactor	NT3	nsrr reactor	NT3	thor reactor
NT3	ian-r1 reactor	NT3	ntr reactor	NT3	tibr reactor
NT3	ibr-2 reactor	NT3	nur reactor	NT3	tory-2a reactor
NT3	ibr-30 reactor	NT3	orphee reactor	NT3	toshiba reactor
NT3	iea-zpr reactor	NT3	osiris reactor	NT3	tr-1 reactor
NT3	iear-1 reactor	NT3	owr reactor	NT3	tr-2 reactor
NT3	ihni-1 reactor	NT3	parr-1 reactor	NT3	triga-1-michigan reactor
NT3	irl reactor	NT3	pat reactor	NT3	triton reactor
NT3	irr-1 reactor	NT3	pbr reactor	NT3	trr-1 reactor
NT3	irr-2 reactor	NT3	pctr reactor	NT3	tsr-2 reactor
NT3	irt-1 libya reactor	NT3	phebus reactor	NT3	ufr reactor
NT3	irt-2000 djakarta reactor	NT3	pik physical model reactor	NT3	uknr reactor
NT3	irt-2000 moscow reactor	NT3	pik reactor	NT3	umne-1 reactor
NT3	irt-baghdad reactor	NT3	prnc-l-77 reactor	NT3	umrr reactor
NT3	irt-c reactor	NT3	proteus reactor	NT3	utr-10-kinki reactor
NT3	irt-dprk reactor	NT3	ptr reactor	NT3	utr reactor
NT3	irt-f reactor	NT3	psbr reactor	NT3	uvar reactor
NT3	irt-m reactor	NT3	ptr reactor	NT3	vera reactor
NT3	irt reactor	NT3	pulstar-buffalo reactor	NT3	viper reactor
NT3	irt-sofia reactor	NT3	pulstar-raleigh reactor	NT3	vpi-utr-10 reactor
NT3	isis reactor	NT3	r-1 reactor	NT3	wrrr reactor
NT3	ispra-1 reactor	NT3	r-2 reactor	NT3	wsur reactor
NT3	ivv-2m reactor	NT3	r-a reactor	NT3	wtr reactor
NT3	ivv-7 reactor	NT3	r2-0 reactor	NT3	wwr-2 reactor
NT3	janus reactor	NT3	ra-0 reactor	NT3	wwr-k-almaty reactor
NT3	jason reactor	NT3	ra-10 reactor	NT3	wwr-m-kiev reactor
NT3	jeep-2 reactor	NT3	ra-2 reactor	NT3	wwr-m-leningrad reactor
NT3	jen-1 reactor	NT3	ra-3 reactor	NT3	wwr-s-bucharest reactor
NT3	jen-2 reactor	NT3	ra-4 reactor	NT3	wwr-s-cairo reactor
NT3	jen reactor	NT3	ra-5 reactor	NT3	wwr-s-moscow reactor
NT3	jmtr reactor	NT3	ra-6 reactor	NT3	wwr-s-prague reactor
NT3	jrr-1 reactor	NT3	ra-8 reactor	NT3	wwr-s-tashkent reactor
NT3	jrr-2 reactor	NT3	rake-2 reactor	NT3	wwr-sm rossendorf reactor
NT3	jrr-3 reactor	NT3	rana reactor		

<b>NT3</b>	wwr-z reactor	<b>NT3</b>	ra-5 reactor	<b>NT3</b>	queen mary college utr-b reactor
<b>NT3</b>	x-10 reactor	<b>NT3</b>	ra-6 reactor	<b>NT3</b>	r-b reactor
<b>NT3</b>	xapr reactor	<b>NT3</b>	ra-8 reactor	<b>NT3</b>	ra-1 reactor
<b>NT3</b>	zebra reactor	<b>NT3</b>	hapsodie reactor	<b>NT3</b>	rien-1 reactor
<b>NT3</b>	zeep reactor	<b>NT3</b>	rts-1 reactor	<b>NT3</b>	rts-1 reactor
<b>NT3</b>	zenith reactor	<b>NT3</b>	s1c prototype reactor	<b>NT3</b>	rv-1 reactor
<b>NT3</b>	zerlina reactor	<b>NT3</b>	safari-1 reactor	<b>NT3</b>	sr-3p reactor
<b>NT3</b>	zlfr reactor	<b>NT3</b>	sbr-5 reactor	<b>NT3</b>	srcc-utr-100 reactor
<b>NT3</b>	zppr reactor	<b>NT3</b>	snaptran reactors	<b>NT3</b>	stark reactor
<b>NT2</b>	super kukla reactor	<b>NT3</b>	stf reactor	<b>NT3</b>	strasbourg-cronenbourg reactor
<b>NT2</b>	test reactors	<b>NT3</b>	tapiro reactor	<b>NT3</b>	sur-100 series reactor
<b>NT3</b>	aipfr reactor	<b>NT3</b>	tory-2a reactor	<b>NT3</b>	thetis reactor
<b>NT3</b>	arbus reactor	<b>NT3</b>	tory-2c reactor	<b>NT3</b>	thor reactor
<b>NT3</b>	astr reactor	<b>NT3</b>	treat reactor	<b>NT3</b>	toshiba reactor
<b>NT3</b>	astra reactor	<b>NT3</b>	triga-1-michigan reactor	<b>NT3</b>	tr-1 reactor
<b>NT3</b>	atpr reactor	<b>NT3</b>	triga-2-pavia reactor	<b>NT3</b>	trico ii reactor
<b>NT3</b>	atr reactor	<b>NT3</b>	tsr-1 reactor	<b>NT3</b>	trico reactor
<b>NT3</b>	bam reactor	<b>NT3</b>	tsr-2 reactor	<b>NT3</b>	triga-1-michigan reactor
<b>NT3</b>	bawtr reactor	<b>NT3</b>	urr reactor	<b>NT3</b>	triga-2-pavia reactor
<b>NT3</b>	bgrr reactor	<b>NT3</b>	uvar reactor	<b>NT3</b>	trr-1 reactor
<b>NT3</b>	borax-5 reactor	<b>NT3</b>	viper reactor	<b>NT3</b>	ucbrr reactor
<b>NT3</b>	br-02 reactor	<b>NT3</b>	wr-1 reactor	<b>NT3</b>	uftr reactor
<b>NT3</b>	brr reactor	<b>NT3</b>	wtr reactor	<b>NT3</b>	ulyse reactor
<b>NT3</b>	cesnef reactor	<b>NT2</b>	training reactors	<b>NT3</b>	umne-1 reactor
<b>NT3</b>	cirus reactor	<b>NT3</b>	ill high flux reactor	<b>NT3</b>	umrr reactor
<b>NT3</b>	cp-5 reactor	<b>NT3</b>	aerojet-general nucleonics reactors	<b>NT3</b>	urr reactor
<b>NT3</b>	dhruva reactor	<b>NT4</b>	agn 201 costanza	<b>NT3</b>	utr-10-kinki reactor
<b>NT3</b>	dimple reactor	<b>NT3</b>	afri reactor	<b>NT3</b>	uvar reactor
<b>NT3</b>	diorit reactor	<b>NT3</b>	ai-l-77 reactor	<b>NT3</b>	uwnr reactor
<b>NT3</b>	ebor reactor	<b>NT3</b>	akr-1 reactor	<b>NT3</b>	uwtr reactor
<b>NT3</b>	ebr-1 reactor	<b>NT3</b>	apsara reactor	<b>NT3</b>	vpi-utr-10 reactor
<b>NT3</b>	eco reactor	<b>NT3</b>	arbi reactor	<b>NT3</b>	vr-1 reactor
<b>NT3</b>	eocr reactor	<b>NT3</b>	argonaut reactor	<b>NT3</b>	wntr reactor
<b>NT3</b>	esada-vesr reactor	<b>NT3</b>	argos reactor	<b>NT3</b>	wpir reactor
<b>NT3</b>	essor reactor	<b>NT3</b>	athene reactor	<b>NT3</b>	wwr-s-budapest reactor
<b>NT3</b>	etr reactor	<b>NT3</b>	atpr reactor	<b>NT3</b>	x-10 reactor
<b>NT3</b>	etrc reactor	<b>NT3</b>	bgrr reactor	<b>NT3</b>	zlfr reactor
<b>NT3</b>	ffif reactor	<b>NT3</b>	budapest training reactor	<b>NT3</b>	zpr reactor
<b>NT3</b>	fir-1 reactor	<b>NT3</b>	byu l-77 reactor	<b>NT2</b>	triga type reactors
<b>NT3</b>	fmr reactor	<b>NT3</b>	cesnef reactor	<b>NT3</b>	afri reactor
<b>NT3</b>	fnr reactor	<b>NT3</b>	cirus reactor	<b>NT3</b>	atpr reactor
<b>NT3</b>	fr-2 reactor	<b>NT3</b>	colorado triga-mk-3 reactor	<b>NT3</b>	colorado triga-mk-3 reactor
<b>NT3</b>	frctf reactor	<b>NT3</b>	consort-2 reactor	<b>NT3</b>	cornell triga-mk-2 reactor
<b>NT3</b>	frg-1 reactor	<b>NT3</b>	cornell triga-mk-2 reactor	<b>NT3</b>	dow triga-mk-1 reactor
<b>NT3</b>	fm reactor	<b>NT3</b>	dow triga-mk-1 reactor	<b>NT3</b>	fir-1 reactor
<b>NT3</b>	getr reactor	<b>NT3</b>	dr-1 reactor	<b>NT3</b>	frf-2 reactor
<b>NT3</b>	grenoble reactor	<b>NT3</b>	entc lwsr reactor	<b>NT3</b>	fn reactor
<b>NT3</b>	gtr reactor	<b>NT3</b>	es-salam reactor	<b>NT3</b>	gulf triga-mk-3 reactor
<b>NT3</b>	gtrr reactor	<b>NT3</b>	fir-1 reactor	<b>NT3</b>	kartini-ppny reactor
<b>NT3</b>	hanaro reactor	<b>NT3</b>	fnr reactor	<b>NT3</b>	lopra reactor
<b>NT3</b>	harmonie reactor	<b>NT3</b>	fr-0 reactor	<b>NT3</b>	nscr reactor
<b>NT3</b>	herald reactor	<b>NT3</b>	frf reactor	<b>NT3</b>	ostr reactor
<b>NT3</b>	hero reactor	<b>NT3</b>	frg-1 reactor	<b>NT3</b>	prpr reactor
<b>NT3</b>	hew-305 reactor	<b>NT3</b>	gleep reactor	<b>NT3</b>	psbr reactor
<b>NT3</b>	hfir reactor	<b>NT3</b>	gtr reactor	<b>NT3</b>	rtp reactor
<b>NT3</b>	hifar reactor	<b>NT3</b>	gulf triga-mk-3 reactor	<b>NT3</b>	trico ii reactor
<b>NT3</b>	hre-2 reactor	<b>NT3</b>	hor reactor	<b>NT3</b>	trico reactor
<b>NT3</b>	htlrr reactor	<b>NT3</b>	htr reactor	<b>NT3</b>	triga-1-arizona reactor
<b>NT3</b>	htr-10 reactor	<b>NT3</b>	ian-r1 reactor	<b>NT3</b>	triga-1-california reactor
<b>NT3</b>	irl reactor	<b>NT3</b>	iowa utr-10 reactor	<b>NT3</b>	triga-1-hanford reactor
<b>NT3</b>	irr-1 reactor	<b>NT3</b>	ir-100 reactor	<b>NT3</b>	triga-1-hanover reactor
<b>NT3</b>	irt-2000 djakarta reactor	<b>NT3</b>	jason reactor	<b>NT3</b>	triga-1-heidelberg reactor
<b>NT3</b>	irt-2000 moscow reactor	<b>NT3</b>	jrr-1 reactor	<b>NT3</b>	triga-1-michigan reactor
<b>NT3</b>	irt-baghdad reactor	<b>NT3</b>	kur reactor	<b>NT3</b>	triga-2-bandung reactor
<b>NT3</b>	ispra-1 reactor	<b>NT3</b>	lfr reactor	<b>NT3</b>	triga-2-bangladesh reactor
<b>NT3</b>	jmtr reactor	<b>NT3</b>	melusine-1 reactor	<b>NT3</b>	triga-2-dalat reactor
<b>NT3</b>	kalpakkam lmfr reactor	<b>NT3</b>	merlin reactor	<b>NT3</b>	triga-2-illinois reactor
<b>NT3</b>	loft reactor	<b>NT3</b>	mitr reactor	<b>NT3</b>	triga-2-kansas reactor
<b>NT3</b>	mzfr reactor	<b>NT3</b>	moata reactor	<b>NT3</b>	triga-2-ljubljana reactor
<b>NT3</b>	netr reactor	<b>NT3</b>	murr reactor	<b>NT3</b>	triga-2-mainz reactor
<b>NT3</b>	nru reactor	<b>NT3</b>	nscr-1 reactor	<b>NT3</b>	triga-2-musashi reactor
<b>NT3</b>	ntr reactor	<b>NT3</b>	nevada university reactor	<b>NT3</b>	triga-2-pavia reactor
<b>NT3</b>	orphee reactor	<b>NT3</b>	nscr reactor	<b>NT3</b>	triga-2-pitesti reactor
<b>NT3</b>	owr reactor	<b>NT3</b>	ostr reactor	<b>NT3</b>	triga-2-reactor
<b>NT3</b>	pat reactor	<b>NT3</b>	osur reactor	<b>NT3</b>	triga-2-rikkyo reactor
<b>NT3</b>	pegase reactor	<b>NT3</b>	prnc-l-77 reactor	<b>NT3</b>	triga-2-rome reactor
<b>NT3</b>	proteus reactor	<b>NT3</b>	psbr reactor	<b>NT3</b>	triga-2-seoul reactor
<b>NT3</b>	ra-3 reactor	<b>NT3</b>	pur-1 reactor	<b>NT3</b>	triga-2-vienna reactor
<b>NT3</b>	ra-4 reactor			<b>NT3</b>	triga-3-la jolla reactor

NT3	triga-3-munich reactor	NT3	mnsr-sd reactor	NT2	aeg-pr-10 reactor
NT3	triga-3-salazar reactor	NT3	mnsr-sh reactor	NT2	aerojet-general nucleonics reactors
NT3	triga-3-seoul reactor	NT3	mnsr-sz reactor	NT3	agn 201 costanza
NT3	triga-brazil reactor	NT3	nirr-1 reactor	NT2	afri reactor
NT3	triga-texas reactor	NT3	parr-2 reactor	NT2	agesta reactor
NT3	triga-veterans reactor	NT3	srr-1 reactor	NT2	ai-l-77 reactor
NT3	ucbrr reactor	NT2	mrr reactor	NT2	akr-1 reactor
NT3	uwnr reactor	NT2	mtr reactor	NT2	alrr reactor
NT3	wsur reactor	NT2	murr reactor	NT2	anex reactor
NT2	yayoi reactor	NT2	nbsr reactor	NT2	anna reactor
NT1	small modular reactors	NT2	netr reactor	NT2	aps reactor
NT2	carem 25 reactor	NT2	nora reactor	NT2	apsara reactor
NT1	steam cooled reactors	NT2	nru reactor	NT2	aquilon reactor
NT1	tank type reactors	NT2	nrx reactor	NT2	arbi reactor
NT2	aarr reactor	NT2	ntr reactor	NT2	arbus reactor
NT2	alrr reactor	NT2	nuclear furnace reactor	NT2	argonaut reactor
NT2	aquilon reactor	NT2	orphee reactor	NT2	argos reactor
NT2	atr reactor	NT2	orr reactor	NT2	argus reactor
NT2	atsr reactor	NT2	osiris reactor	NT2	armf-1 reactor
NT2	borax-1 reactor	NT2	owr reactor	NT2	astra reactor
NT2	borax-2 reactor	NT2	pbf reactor	NT2	athene reactor
NT2	borax-3 reactor	NT2	pbr reactor	NT2	atpr reactor
NT2	borax-4 reactor	NT2	pegase reactor	NT2	atr reactor
NT2	borax-5 reactor	NT2	pelinduna reactor	NT2	atrc reactor
NT2	br-02 reactor	NT2	pik reactor	NT2	atsr reactor
NT2	br-1 reactor	NT2	pluto reactor	NT2	atucha-1 reactor
NT2	br-2 reactor	NT2	prcf reactor	NT2	atucha-2 reactor
NT2	cirus reactor	NT2	prr reactor	NT2	avogadro rs-1 reactor
NT2	cp-3 reactor	NT2	pse reactor	NT2	avr reactor
NT2	cp-3m reactor	NT2	pumima-3 reactor	NT2	bawtr reactor
NT2	cp-5 reactor	NT2	r-1 reactor	NT2	beloyarsk-1 reactor
NT2	dca reactor	NT2	r-2 reactor	NT2	beloyarsk-2 reactor
NT2	dido reactor	NT2	r-a reactor	NT2	bepo reactor
NT2	diorit reactor	NT2	ra-0 reactor	NT2	ber-2 reactor
NT2	dmtr reactor	NT2	ra-2 reactor	NT2	berkeley reactor
NT2	dr-3 reactor	NT2	ra-3 reactor	NT2	bgrr reactor
NT2	eco reactor	NT2	ra-4 reactor	NT2	bilibin reactor
NT2	el-1 reactor	NT2	ra-5 reactor	NT2	bohunice a-1 reactor
NT2	el-2 reactor	NT2	rake-2 reactor	NT2	bohunice a-2 reactor
NT2	el-3 reactor	NT2	rb-3 reactor	NT2	borax-1 reactor
NT2	eocr reactor	NT2	rospo reactor	NT2	borax-2 reactor
NT2	eole reactor	NT2	rpt reactor	NT2	borax-3 reactor
NT2	esada-vesr reactor	NT2	safari-1 reactor	NT2	borax-4 reactor
NT2	essor reactor	NT2	sm-2 reactor	NT2	borax-5 reactor
NT2	etr reactor	NT2	spert-1 reactor	NT2	br-02 reactor
NT2	etr-1 reactor	NT2	spert-2 reactor	NT2	br-1 reactor
NT2	ewa reactor	NT2	spert-3 reactor	NT2	br-2 reactor
NT2	ewg-1 reactor	NT2	sr-1 reactor	NT2	bradwell reactor
NT2	fir-1 reactor	NT2	sr-0a reactor	NT2	brr reactor
NT2	fr-2 reactor	NT2	taiwan research reactor	NT2	bsr-1 reactor
NT2	frj-2 reactor	NT2	tca reactor	NT2	bsr-2 reactor
NT2	getr reactor	NT2	thermos reactor	NT2	budapest training reactor
NT2	grenoble reactor	NT2	triga-1-michigan reactor	NT2	bugey-1 reactor
NT2	gtrr reactor	NT2	tsr-1 reactor	NT2	bwr type reactors
NT2	hbwr reactor	NT2	wnt reactor	NT3	allens creek-1 reactor
NT2	hfbr reactor	NT2	wr-1 reactor	NT3	allens creek-2 reactor
NT2	hfir reactor	NT2	wtr reactor	NT3	bailly-1 reactor
NT2	hfr reactor	NT2	wwr type reactors	NT3	barsebaeck-1 reactor
NT2	hifar reactor	NT3	budapest training reactor	NT3	barsebaeck-2 reactor
NT2	hwctr reactor	NT3	irt-1 libya reactor	NT3	barton-1 reactor
NT2	igr reactor	NT3	irt-baghdad reactor	NT3	barton-2 reactor
NT2	irr-2 reactor	NT3	lvr-15 reactor	NT3	barton-3 reactor
NT2	ispra-1 reactor	NT3	wwr-2 reactor	NT3	barton-4 reactor
NT2	janus reactor	NT3	wwr-k-almaty reactor	NT3	bell reactor
NT2	jeep-2 reactor	NT3	wwr-m-kiev reactor	NT3	big rock point reactor
NT2	jmtr reactor	NT3	wwr-m-leningrad reactor	NT3	black fox-1 reactor
NT2	jrr-2 reactor	NT3	wwr-s-bucharest reactor	NT3	black fox-2 reactor
NT2	jrr-3 reactor	NT3	wwr-s-budapest reactor	NT3	bolsa chica-1 reactor
NT2	juno reactor	NT3	wwr-s-cairo reactor	NT3	bolsa chica-2 reactor
NT2	kamini reactor	NT3	wwr-s-moscow reactor	NT3	bonus reactor
NT2	litr reactor	NT3	wwr-s-prague reactor	NT3	browns ferry-1 reactor
NT2	loft reactor	NT3	wwr-s-tashkent reactor	NT3	browns ferry-2 reactor
NT2	lprr reactor	NT3	wwr-sm rossendorf reactor	NT3	browns ferry-3 reactor
NT2	mir reactor	NT3	wwr-z reactor	NT3	brunsbuettel reactor
NT2	mitr reactor	NT2	zed-2 reactor	NT3	brunswick-1 reactor
NT2	mnsr type reactors	NT2	zeep reactor	NT3	brunswick-2 reactor
NT3	entic mnsr reactor	NT2	zlfrr reactor	NT3	chinshan-1 reactor
NT3	gharr-1 reactor	NT2	zpr reactor	NT3	chinshan-2 reactor
NT3	mnsr-ciae reactor	NT1	thermal reactors	NT3	clinton-1 reactor

NT3	clinton-2 reactor	NT3	mendocino-2 reactor	NT3	darlington-2 reactor
NT3	cofrentes reactor	NT3	millstone-1 reactor	NT3	darlington-3 reactor
NT3	cooper reactor	NT3	montague-1 reactor	NT3	darlington-4 reactor
NT3	dodewaard reactor	NT3	montague-2 reactor	NT3	douglas point ontario reactor
NT3	douglas point-1 reactor	NT3	montalto di castro-1 reactor	NT3	embalse reactor
NT3	douglas point-2 reactor	NT3	montalto di castro-2 reactor	NT3	gentilly-1 reactor
NT3	dresden-1 reactor	NT3	monticello reactor	NT3	gentilly-2 reactor
NT3	dresden-2 reactor	NT3	muehleberg reactor	NT3	kaiga-1 reactor
NT3	dresden-3 reactor	NT3	nine mile point-1 reactor	NT3	kaiga-2 reactor
NT3	duane arnold-1 reactor	NT3	nine mile point-2 reactor	NT3	kakrapar-1 reactor
NT3	ebwr reactor	NT3	okg-1 reactor	NT3	kakrapar-2 reactor
NT3	enel-4 reactor	NT3	okg-2 reactor	NT3	kanupp reactor
NT3	enrico fermi-2 reactor	NT3	okg-3 reactor	NT3	npd reactor
NT3	err reactor	NT3	olkiluoto-1 reactor	NT3	pickering-1 reactor
NT3	fitzpatrick reactor	NT3	olkiluoto-2 reactor	NT3	pickering-2 reactor
NT3	forsmark-1 reactor	NT3	onagawa-1 reactor	NT3	pickering-3 reactor
NT3	forsmark-2 reactor	NT3	onagawa-2 reactor	NT3	pickering-4 reactor
NT3	forsmark-3 reactor	NT3	onagawa-3 reactor	NT3	pickering-5 reactor
NT3	fukushima-1 reactor	NT3	oyster creek-1 reactor	NT3	pickering-6 reactor
NT3	fukushima-2 reactor	NT3	pathfinder reactor	NT3	pickering-7 reactor
NT3	fukushima-3 reactor	NT3	peach bottom-2 reactor	NT3	pickering-8 reactor
NT3	fukushima-4 reactor	NT3	peach bottom-3 reactor	NT3	point lepreau-1 reactor
NT3	fukushima-5 reactor	NT3	perry-1 reactor	NT3	point lepreau-2 reactor
NT3	fukushima-6 reactor	NT3	perry-2 reactor	NT3	qinshan-3-1 reactor
NT3	fukushima-ii-1 reactor	NT3	philippsburg-1 reactor	NT3	qinshan-3-2 reactor
NT3	fukushima-ii-2 reactor	NT3	phipps bend-1 reactor	NT3	rajasthan-1 reactor
NT3	fukushima-ii-3 reactor	NT3	phipps bend-2 reactor	NT3	rajasthan-2 reactor
NT3	fukushima-ii-4 reactor	NT3	pilgrim-1 reactor	NT3	rajasthan-3 reactor
NT3	garigliano reactor	NT3	quad cities-1 reactor	NT3	rajasthan-4 reactor
NT3	garona reactor	NT3	quad cities-2 reactor	NT3	wolsung-1 reactor
NT3	ge standard reactor	NT3	ringhals-1 reactor	NT3	wolsung-2 reactor
NT3	graben-1 reactor	NT3	river bend-1 reactor	NT3	wolsung-3 reactor
NT3	graben-2 reactor	NT3	river bend-2 reactor	NT3	wolsung-4 reactor
NT3	grand gulf-1 reactor	NT3	rwe-bayernwerk reactor	NT2	carem 25 reactor
NT3	grand gulf-2 reactor	NT3	shika-1 reactor	NT2	cesar reactor
NT3	gundremmingen-2 reactor	NT3	shika-2 reactor	NT2	cesnef reactor
NT3	gundremmingen-3 reactor	NT3	shimane-1 reactor	NT2	chapelcross-1 reactor
NT3	hamaoka-1 reactor	NT3	shimane-2 reactor	NT2	chapelcross-2 reactor
NT3	hamaoka-2 reactor	NT3	shimane-3 reactor	NT2	chapelcross-3 reactor
NT3	hamaoka-3 reactor	NT3	shoreham reactor	NT2	chapelcross-4 reactor
NT3	hamaoka-4 reactor	NT3	skagit-1 reactor	NT2	chernobylsk-1 reactor
NT3	hamaoka-5 reactor	NT3	skagit-2 reactor	NT2	chernobylsk-2 reactor
NT3	hartsville-1 reactor	NT3	sl-1 reactor	NT2	chernobylsk-3 reactor
NT3	hartsville-2 reactor	NT3	susquehanna-1 reactor	NT2	chernobylsk-4 reactor
NT3	hartsville-3 reactor	NT3	susquehanna-2 reactor	NT2	chinon-a1 reactor
NT3	hartsville-4 reactor	NT3	tarapur-1 reactor	NT2	chinon-a2 reactor
NT3	hatch-1 reactor	NT3	tarapur-2 reactor	NT2	chinon-a3 reactor
NT3	hatch-2 reactor	NT3	tokai-2 reactor	NT2	cirene reactor
NT3	hdr reactor	NT3	tsuruga reactor	NT2	cirus reactor
NT3	higashidori-1 reactor	NT3	tullnerfeld reactor	NT2	consort-2 reactor
NT3	hope creek-1 reactor	NT3	vak reactor	NT2	cp-2 reactor
NT3	hope creek-2 reactor	NT3	vbwr reactor	NT2	cp-3 reactor
NT3	humboldt bay reactor	NT3	vermont yankee reactor	NT2	cp-3m reactor
NT3	isar reactor	NT3	verplanck-1 reactor	NT2	cp-5 reactor
NT3	jpdr-2 reactor	NT3	verplanck-2 reactor	NT2	cvtr reactor
NT3	jpdr reactor	NT3	vk-50 reactor	NT2	democritus reactor
NT3	kaiseraugst reactor	NT3	wnp-2 reactor	NT2	dhruva reactor
NT3	kashiwazaki-kariwa-1 reactor	NT3	wuergassen reactor	NT2	dido reactor
NT3	kashiwazaki-kariwa-2 reactor	NT3	zimmer-1 reactor	NT2	dimple reactor
NT3	kashiwazaki-kariwa-3 reactor	NT3	zimmer-2 reactor	NT2	dmtr reactor
NT3	kashiwazaki-kariwa-4 reactor	NT2	byu 1-77 reactor	NT2	dow triga-mk-1 reactor
NT3	kashiwazaki-kariwa-5 reactor	NT2	cabri reactor	NT2	dr-1 reactor
NT3	kashiwazaki-kariwa-6 reactor	NT2	calder hall a-1 reactor	NT2	dr-2 reactor
NT3	kashiwazaki-kariwa-7 reactor	NT2	calder hall a-2 reactor	NT2	dr-3 reactor
NT3	kruemmel reactor	NT2	calder hall b-3 reactor	NT2	dragon reactor
NT3	kuosheng-1 reactor	NT2	calder hall b-4 reactor	NT2	dungeness-a reactor
NT3	kuosheng-2 reactor	NT2	candu type reactors	NT2	dungeness-b reactor
NT3	la salle county-1 reactor	NT3	bruce-1 reactor	NT2	ebor reactor
NT3	la salle county-2 reactor	NT3	bruce-2 reactor	NT2	eger reactor
NT3	lacbwr reactor	NT3	bruce-3 reactor	NT2	el-1 reactor
NT3	laguna verde-1 reactor	NT3	bruce-4 reactor	NT2	el-2 reactor
NT3	laguna verde-2 reactor	NT3	bruce-5 reactor	NT2	el-4 reactor
NT3	leibstadt reactor	NT3	bruce-6 reactor	NT2	eocr reactor
NT3	limerick-1 reactor	NT3	bruce-7 reactor	NT2	es-salam reactor
NT3	limerick-2 reactor	NT3	bruce-8 reactor	NT2	esada-vesr reactor
NT3	lingen reactor	NT3	cernavoda-1 reactor	NT2	essor reactor
NT3	lungmen-1 reactor	NT3	cernavoda-2 reactor	NT2	etr reactor
NT3	lungmen-2 reactor	NT3	cordoba reactor	NT2	etrc reactor
NT3	mendocino-1 reactor	NT3	darlington-1 reactor	NT2	etrr-2 reactor

NT2	ewg-1 reactor	NT2	lptr reactor	NT3	beznau-2 reactor
NT2	fir-1 reactor	NT2	lucens reactor	NT3	biblis-1 reactor
NT2	fnr reactor	NT2	lvr-15 reactor	NT3	biblis-2 reactor
NT2	fr-2 reactor	NT2	lwbr type reactors	NT3	biblis-3 reactor
NT2	frg-1 reactor	NT2	maria reactor	NT3	biblis-4 reactor
NT2	frm-ii reactor	NT2	marius reactor	NT3	blayais-1 reactor
NT2	fulton-1 reactor	NT2	melusine-1 reactor	NT3	blayais-2 reactor
NT2	fulton-2 reactor	NT2	merlin reactor	NT3	blayais-3 reactor
NT2	g-1 reactor	NT2	minerve reactor	NT3	blayais-4 reactor
NT2	g-2 reactor	NT2	mir reactor	NT3	blue hills-1 reactor
NT2	g-3 reactor	NT2	mitr reactor	NT3	blue hills-2 reactor
NT2	ga siwabessy reactor	NT2	mnsr type reactors	NT3	borssele reactor
NT2	ga standard reactor	NT3	entic mnsr reactor	NT3	br-3 reactor
NT2	getr reactor	NT3	gharr-1 reactor	NT3	braidwood-1 reactor
NT2	gidra reactor	NT3	mnsr-ciae reactor	NT3	braidwood-2 reactor
NT2	gleep reactor	NT3	mnsr-sd reactor	NT3	brokdorf reactor
NT2	hartlepool reactor	NT3	mnsr-sh reactor	NT3	bugey-2 reactor
NT2	hbwr reactor	NT3	mnsr-sz reactor	NT3	bugey-3 reactor
NT2	hector reactor	NT3	nirr-1 reactor	NT3	bugey-4 reactor
NT2	herald reactor	NT3	parr-2 reactor	NT3	bugey-5 reactor
NT2	hew-305 reactor	NT3	srr-1 reactor	NT3	bw standard reactor
NT2	heysham-a reactor	NT2	mrr reactor	NT3	byron-1 reactor
NT2	heysham-b reactor	NT2	msre reactor	NT3	byron-2 reactor
NT2	hfbr reactor	NT2	mtr reactor	NT3	calhoun-1 reactor
NT2	hfetr reactor	NT2	mzfr reactor	NT3	calhoun-2 reactor
NT2	hfir reactor	NT2	nbsr reactor	NT3	callaway-1 reactor
NT2	hfr reactor	NT2	nescr-1 reactor	NT3	callaway-2 reactor
NT2	hifar reactor	NT2	nestor reactor	NT3	calvert cliffs-1 reactor
NT2	hinkley point-a reactor	NT2	netr reactor	NT3	calvert cliffs-2 reactor
NT2	hinkley point-b reactor	NT2	nevada university reactor	NT3	carem 25 reactor
NT2	hitrex-1 reactor	NT2	nhr-5 reactor	NT3	catawba-1 reactor
NT2	hnpf reactor	NT2	niederaichbach reactor	NT3	catawba-2 reactor
NT2	hor reactor	NT2	nora reactor	NT3	cattenom-1 reactor
NT2	htr reactor	NT2	nrx reactor	NT3	cattenom-2 reactor
NT2	hunterston-a reactor	NT2	ntr reactor	NT3	cattenom-3 reactor
NT2	hunterston-b reactor	NT2	nur reactor	NT3	cattenom-4 reactor
NT2	hwctr reactor	NT2	oldbury-a reactor	NT3	ce standard reactor
NT2	hwzpr reactor	NT2	oldbury-b reactor	NT3	changjiang-1 reactor
NT2	ian-r1 reactor	NT2	opal reactor	NT3	changjiang-2 reactor
NT2	iear-1 reactor	NT2	osiris reactor	NT3	chasnupp-1 reactor
NT2	ignalina-1 reactor	NT2	owr reactor	NT3	chasnupp-2 reactor
NT2	ignalina-2 reactor	NT2	ptr reactor	NT3	chasnupp-3 reactor
NT2	igr reactor	NT2	peach bottom-1 reactor	NT3	cherokee-1 reactor
NT2	irl reactor	NT2	pegase reactor	NT3	cherokee-2 reactor
NT2	irr-1 reactor	NT2	pelinduna reactor	NT3	cherokee-3 reactor
NT2	irt-1 libya reactor	NT2	perryman-1 reactor	NT3	chinon-b1 reactor
NT2	irt-2000 djakarta reactor	NT2	perryman-2 reactor	NT3	chinon-b2 reactor
NT2	irt-2000 moscow reactor	NT2	phebus reactor	NT3	chinon-b3 reactor
NT2	irt-baghdad reactor	NT2	pik physical model reactor	NT3	chinon-b4 reactor
NT2	irt-c reactor	NT2	pik reactor	NT3	chooz-a reactor
NT2	irt-f reactor	NT2	pluto reactor	NT3	chooz-b1 reactor
NT2	irt reactor	NT2	pnpf reactor	NT3	chooz-b2 reactor
NT2	irt-sofia reactor	NT2	prr reactor	NT3	civaux-1 reactor
NT2	isis reactor	NT2	psbr reactor	NT3	civaux-2 reactor
NT2	ivv-2m reactor	NT2	pse reactor	NT3	comanche peak-1 reactor
NT2	janus reactor	NT2	pur-1 reactor	NT3	comanche peak-2 reactor
NT2	jatr reactor	NT2	pumima-3 reactor	NT3	connecticut yankee reactor
NT2	jen-1 reactor	NT2	pwr type reactors	NT3	cook-1 reactor
NT2	jen reactor	NT3	aguirre reactor	NT3	cook-2 reactor
NT2	jules horowitz reactor	NT3	almaraz-1 reactor	NT3	cruas-1 reactor
NT2	juno reactor	NT3	almaraz-2 reactor	NT3	cruas-2 reactor
NT2	kaiga-3 reactor	NT3	angra-1 reactor	NT3	cruas-3 reactor
NT2	kaiga-4 reactor	NT3	angra-2 reactor	NT3	cruas-4 reactor
NT2	kamini reactor	NT3	angra-3 reactor	NT3	crystal river-3 reactor
NT2	knk reactor	NT3	arkansas-1 reactor	NT3	crystal river-4 reactor
NT2	kuhfr reactor	NT3	arkansas-2 reactor	NT3	dampierre-1 reactor
NT2	kursk-1 reactor	NT3	asco-1 reactor	NT3	dampierre-2 reactor
NT2	kursk-2 reactor	NT3	asco-2 reactor	NT3	dampierre-3 reactor
NT2	kursk-3 reactor	NT3	atlantic-1 reactor	NT3	dampierre-4 reactor
NT2	kursk-4 reactor	NT3	atlantic-2 reactor	NT3	davis besse-1 reactor
NT2	latina reactor	NT3	basf-1 reactor	NT3	davis besse-2 reactor
NT2	leningrad-1 reactor	NT3	basf-2 reactor	NT3	davis besse-3 reactor
NT2	leningrad-2 reactor	NT3	beaver valley-1 reactor	NT3	daya bay-1 reactor
NT2	leningrad-3 reactor	NT3	beaver valley-2 reactor	NT3	daya bay-2 reactor
NT2	leningrad-4 reactor	NT3	bellefonte-1 reactor	NT3	diablo canyon-1 reactor
NT2	lfr reactor	NT3	bellefonte-2 reactor	NT3	diablo canyon-2 reactor
NT2	lido reactor	NT3	belleville-1 reactor	NT3	doel-1 reactor
NT2	litr reactor	NT3	belleville-2 reactor	NT3	doel-2 reactor
NT2	lpr reactor	NT3	beznau-1 reactor	NT3	doel-3 reactor

NT3	doel-4 reactor	NT3	krsko reactor	NT3	pilgrim-3 reactor
NT3	efdr-50 reactor	NT3	lemoniz-1 reactor	NT3	pm-2a reactor
NT3	emsland reactor	NT3	lemoniz-2 reactor	NT3	pm-3a reactor
NT3	erie-1 reactor	NT3	lenin reactor	NT3	pnp-1 reactor
NT3	erie-2 reactor	NT3	leonid brezhnev reactor	NT3	point beach-1 reactor
NT3	fangchenggang-1 reactor	NT3	lingao-1 reactor	NT3	point beach-2 reactor
NT3	fangchenggang-2 reactor	NT3	lingao-2 reactor	NT3	prairie island-1 reactor
NT3	fangjiashan-1 reactor	NT3	lingao-3 reactor	NT3	prairie island-2 reactor
NT3	fangjiashan-2 reactor	NT3	lingao-4 reactor	NT3	qinshan-1 reactor
NT3	farley-1 reactor	NT3	loft reactor	NT3	qinshan-2-1 reactor
NT3	farley-2 reactor	NT3	lucie-1 reactor	NT3	qinshan-2-2 reactor
NT3	fessenheim-1 reactor	NT3	lucie-2 reactor	NT3	qinshan-2-3 reactor
NT3	fessenheim-2 reactor	NT3	maanshan-1 reactor	NT3	qinshan-2-4 reactor
NT3	flamanville-1 reactor	NT3	maanshan-2 reactor	NT3	quanicassee-1 reactor
NT3	flamanville-2 reactor	NT3	maine yankee reactor	NT3	quanicassee-2 reactor
NT3	flamanville-3 reactor	NT3	malibu-1 reactor	NT3	rancho seco-1 reactor
NT3	forked river-1 reactor	NT3	marble hill-1 reactor	NT3	remerschen reactor
NT3	fuqing-1 reactor	NT3	marble hill-2 reactor	NT3	rheinsberg akw1 reactor
NT3	fuqing-2 reactor	NT3	mc guire-1 reactor	NT3	ringhals-2 reactor
NT3	fuqing-3 reactor	NT3	mc guire-2 reactor	NT3	ringhals-3 reactor
NT3	fuqing-4 reactor	NT3	mh-1a reactor	NT3	ringhals-4 reactor
NT3	fuqing-5 reactor	NT3	midland-1 reactor	NT3	robinson-2 reactor
NT3	fuqing-6 reactor	NT3	midland-2 reactor	NT3	rooppur reactor
NT3	genkai-1 reactor	NT3	mihama-1 reactor	NT3	rowe yankee reactor
NT3	genkai-2 reactor	NT3	mihama-2 reactor	NT3	s1c prototype reactor
NT3	genkai-3 reactor	NT3	mihama-3 reactor	NT3	saint alban-1 reactor
NT3	genkai-4 reactor	NT3	millstone-2 reactor	NT3	saint alban-2 reactor
NT3	ginna-1 reactor	NT3	millstone-3 reactor	NT3	saint laurent-b1 reactor
NT3	goesgen reactor	NT3	millstone-3 reactor	NT3	saint laurent-b2 reactor
NT3	golfech-1 reactor	NT3	muelheim-kaerlich reactor	NT3	salem-1 reactor
NT3	golfech-2 reactor	NT3	mutsu reactor	NT3	salem-2 reactor
NT3	grafenrheinfeld reactor	NT3	neckar-1 reactor	NT3	san onofre-1 reactor
NT3	gravelines-1 reactor	NT3	neckar-2 reactor	NT3	san onofre-2 reactor
NT3	gravelines-2 reactor	NT3	nep-1 reactor	NT3	san onofre-3 reactor
NT3	gravelines-3 reactor	NT3	nep-2 reactor	NT3	savannah reactor
NT3	gravelines-4 reactor	NT3	neupotz-1 reactor	NT3	saxton reactor
NT3	gravelines-5 reactor	NT3	neupotz-2 reactor	NT3	seabrook-1 reactor
NT3	gravelines-6 reactor	NT3	ningde-1 reactor	NT3	seabrook-2 reactor
NT3	greene county reactor	NT3	ningde-2 reactor	NT3	selni reactor
NT3	greenwood-2 reactor	NT3	ningde-3 reactor	NT3	sendai-1 reactor
NT3	greenwood-3 reactor	NT3	ningde-4 reactor	NT3	sendai-2 reactor
NT3	grohnde reactor	NT3	nogent-1 reactor	NT3	sequoyah-1 reactor
NT3	hamm-uentrop reactor	NT3	nogent-2 reactor	NT3	sequoyah-2 reactor
NT3	hanbit-1 reactor	NT3	north anna-1 reactor	NT3	shin-kori-1 reactor
NT3	hanbit-2 reactor	NT3	north anna-2 reactor	NT3	shin-kori-2 reactor
NT3	hanbit-3 reactor	NT3	north anna-3 reactor	NT3	shin-kori-3 reactor
NT3	hanbit-4 reactor	NT3	north anna-4 reactor	NT3	shin-wolsong-1 reactor
NT3	hanbit-5 reactor	NT3	north coast-1 reactor	NT3	shippingport reactor
NT3	hanbit-6 reactor	NT3	obrigheim reactor	NT3	sizewell-b reactor
NT3	harris-1 reactor	NT3	oconee-1 reactor	NT3	sm-1 reactor
NT3	harris-2 reactor	NT3	oconee-2 reactor	NT3	sm-1a reactor
NT3	harris-3 reactor	NT3	oconee-3 reactor	NT3	south texas project-1 reactor
NT3	harris-4 reactor	NT3	oi-1 reactor	NT3	south texas project-2 reactor
NT3	haven-1 reactor	NT3	oi-2 reactor	NT3	stade reactor
NT4	koshkonong-1 reactor	NT3	oi-3 reactor	NT3	sterling-1 reactor
NT3	haven-2 reactor	NT3	oi-4 reactor	NT3	sterling-2 reactor
NT4	koshkonong-2 reactor	NT3	oktembryan-2 reactor	NT3	summer-1 reactor
NT3	hongyanhe-1 reactor	NT3	olkiluoto-3 reactor	NT3	sundesert-1 reactor
NT3	hongyanhe-2 reactor	NT3	otto hahn reactor	NT3	sundesert-2 reactor
NT3	hongyanhe-3 reactor	NT3	palisades-1 reactor	NT3	surry-1 reactor
NT3	hongyanhe-4 reactor	NT3	palo verde-1 reactor	NT3	surry-2 reactor
NT3	ikata-2 reactor	NT3	palo verde-2 reactor	NT3	surry-3 reactor
NT3	ikata-3 reactor	NT3	palo verde-3 reactor	NT3	surry-4 reactor
NT3	ikata reactor	NT3	palo verde-4 reactor	NT3	takahama-1 reactor
NT3	indian point-1 reactor	NT3	palo verde-5 reactor	NT3	takahama-2 reactor
NT3	indian point-2 reactor	NT3	paluel-1 reactor	NT3	takahama-3 reactor
NT3	indian point-3 reactor	NT3	paluel-2 reactor	NT3	takahama-4 reactor
NT3	iran-1 reactor	NT3	paluel-3 reactor	NT3	three mile island-1 reactor
NT3	iran-2 reactor	NT3	paluel-4 reactor	NT3	three mile island-2 reactor
NT3	isar-2 reactor	NT3	pat reactor	NT3	tihange-2 reactor
NT3	jamesport-1 reactor	NT3	pebble springs-1 reactor	NT3	tihange-3 reactor
NT3	jamesport-2 reactor	NT3	pebble springs-2 reactor	NT3	tihange reactor
NT3	kewaunee reactor	NT3	penly-1 reactor	NT3	tomari-1 reactor
NT3	koeborg-1 reactor	NT3	penly-2 reactor	NT3	tomari-2 reactor
NT3	koeborg-2 reactor	NT3	penly-3 reactor	NT3	tomari-3 reactor
NT3	kori-1 reactor	NT3	perkins-1 reactor	NT3	tricastin-1 reactor
NT3	kori-2 reactor	NT3	perkins-2 reactor	NT3	tricastin-2 reactor
NT3	kori-3 reactor	NT3	perkins-3 reactor	NT3	tricastin-3 reactor
NT3	kori-4 reactor	NT3	philippsburg-2 reactor	NT3	tricastin-4 reactor
		NT3	pilgrim-2 reactor		

<b>NT3</b>	trillo-1 reactor	<b>NT4</b>	mochovce-1 reactor	<b>NT2</b>	sr-3p reactor
<b>NT3</b>	trojan reactor	<b>NT4</b>	mochovce-2 reactor	<b>NT2</b>	sre reactor
<b>NT3</b>	tsuruga-2 reactor	<b>NT4</b>	novovoronezh-1 reactor	<b>NT2</b>	srcc-utr-100 reactor
<b>NT3</b>	turkey point-3 reactor	<b>NT4</b>	novovoronezh-2 reactor	<b>NT2</b>	stark reactor
<b>NT3</b>	turkey point-4 reactor	<b>NT4</b>	novovoronezh-3 reactor	<b>NT2</b>	stek reactor
<b>NT3</b>	tva-1 reactor	<b>NT4</b>	novovoronezh-4 reactor	<b>NT2</b>	stir reactor
<b>NT3</b>	tva-2 reactor	<b>NT4</b>	novovoronezh-5 reactor	<b>NT2</b>	supo reactor
<b>NT3</b>	tyrone-1 reactor	<b>NT4</b>	paks-1 reactor	<b>NT2</b>	sur-100 series reactor
<b>NT3</b>	tyrone-2 reactor	<b>NT4</b>	paks-2 reactor	<b>NT2</b>	taiwan research reactor
<b>NT3</b>	ulchin-1 reactor	<b>NT4</b>	paks-3 reactor	<b>NT2</b>	tarapur-3 reactor
<b>NT3</b>	ulchin-2 reactor	<b>NT4</b>	paks-4 reactor	<b>NT2</b>	tarapur-4 reactor
<b>NT3</b>	ulchin-3 reactor	<b>NT4</b>	rostov-1 reactor	<b>NT2</b>	thermos reactor
<b>NT3</b>	ulchin-4 reactor	<b>NT4</b>	rostov-2 reactor	<b>NT2</b>	thetis reactor
<b>NT3</b>	ulchin-5 reactor	<b>NT4</b>	rostov-3 reactor	<b>NT2</b>	thtr-300 reactor
<b>NT3</b>	ulchin-6 reactor	<b>NT4</b>	rovno-1 reactor	<b>NT2</b>	tokai-mura reactor
<b>NT3</b>	unterweser reactor	<b>NT4</b>	rovno-2 reactor	<b>NT2</b>	torness reactor
<b>NT3</b>	vahnum-1 reactor	<b>NT4</b>	rovno-3 reactor	<b>NT2</b>	toshiba reactor
<b>NT3</b>	vahnum-2 reactor	<b>NT4</b>	rovno-4 reactor	<b>NT2</b>	tr-1 reactor
<b>NT3</b>	vandellos-2 reactor	<b>NT4</b>	rovno-5 reactor	<b>NT2</b>	tr-2 reactor
<b>NT3</b>	vogle-1 reactor	<b>NT4</b>	south ukrainian-1 reactor	<b>NT2</b>	trawsfynydd reactor
<b>NT3</b>	vogle-2 reactor	<b>NT4</b>	south ukrainian-2 reactor	<b>NT2</b>	treat reactor
<b>NT3</b>	vogle-3 reactor	<b>NT4</b>	south ukrainian-3 reactor	<b>NT2</b>	trico ii reactor
<b>NT3</b>	vogle-4 reactor	<b>NT4</b>	stendal-1 reactor	<b>NT2</b>	trico reactor
<b>NT3</b>	waterford-3 reactor	<b>NT4</b>	tatarian reactor	<b>NT2</b>	triga-1-california reactor
<b>NT3</b>	waterford-4 reactor	<b>NT4</b>	temelin-1 reactor	<b>NT2</b>	triga-1-hanover reactor
<b>NT3</b>	watts bar-1 reactor	<b>NT4</b>	temelin-2 reactor	<b>NT2</b>	triga-1-heidelberg reactor
<b>NT3</b>	watts bar-2 reactor	<b>NT4</b>	tianwan-1 reactor	<b>NT2</b>	triga-1-michigan reactor
<b>NT3</b>	westinghouse standard reactor	<b>NT4</b>	tianwan-2 reactor	<b>NT2</b>	triga-2-bandung reactor
<b>NT3</b>	wnp-1 reactor	<b>NT4</b>	zaporozhe-1 reactor	<b>NT2</b>	triga-2-bangladesh reactor
<b>NT3</b>	wnp-3 reactor	<b>NT4</b>	zaporozhe-2 reactor	<b>NT2</b>	triga-2-dalat reactor
<b>NT3</b>	wnp-4 reactor	<b>NT4</b>	zaporozhe-3 reactor	<b>NT2</b>	triga-2-illinois reactor
<b>NT3</b>	wnp-5 reactor	<b>NT4</b>	zaporozhe-4 reactor	<b>NT2</b>	triga-2-kansas reactor
<b>NT3</b>	wolf creek-1 reactor	<b>NT4</b>	zaporozhe-5 reactor	<b>NT2</b>	triga-2-ljubljana reactor
<b>NT3</b>	wup-3 reactor	<b>NT4</b>	zaporozhe-6 reactor	<b>NT2</b>	triga-2-mainz reactor
<b>NT3</b>	wup-4 reactor	<b>NT3</b>	wyhl-1 reactor	<b>NT2</b>	triga-2-musashi reactor
<b>NT3</b>	wup-5 reactor	<b>NT3</b>	wyhl-2 reactor	<b>NT2</b>	triga-2-pavia reactor
<b>NT3</b>	wup-6 reactor	<b>NT3</b>	yangjiang-1 reactor	<b>NT2</b>	triga-2-pitesti reactor
<b>NT3</b>	wwer type reactors	<b>NT3</b>	yangjiang-2 reactor	<b>NT2</b>	triga-2 reactor
<b>NT4</b>	armenian-1 reactor	<b>NT3</b>	yangjiang-3 reactor	<b>NT2</b>	triga-2-rikkyo reactor
<b>NT4</b>	armenian-2 reactor	<b>NT3</b>	yangjiang-4 reactor	<b>NT2</b>	triga-2-rome reactor
<b>NT4</b>	balakovo-1 reactor	<b>NT3</b>	yellow creek-1 reactor	<b>NT2</b>	triga-2-seoul reactor
<b>NT4</b>	balakovo-2 reactor	<b>NT3</b>	yellow creek-2 reactor	<b>NT2</b>	triga-2-vienna reactor
<b>NT4</b>	balakovo-3 reactor	<b>NT3</b>	zion-1 reactor	<b>NT2</b>	triga-3-munich reactor
<b>NT4</b>	balakovo-4 reactor	<b>NT3</b>	zion-2 reactor	<b>NT2</b>	triga-3-salazar reactor
<b>NT4</b>	blahutovice-1 reactor	<b>NT3</b>	zorita-1 reactor	<b>NT2</b>	triga-3-seoul reactor
<b>NT4</b>	bohunice v-1 reactor	<b>NT2</b>	r-1 reactor	<b>NT2</b>	triga-brazil reactor
<b>NT4</b>	bohunice v-2 reactor	<b>NT2</b>	r-a reactor	<b>NT2</b>	triga-texas reactor
<b>NT4</b>	dukovany-1 reactor	<b>NT2</b>	ra-10 reactor	<b>NT2</b>	triga-veterans reactor
<b>NT4</b>	dukovany-2 reactor	<b>NT2</b>	ra-5 reactor	<b>NT2</b>	triton reactor
<b>NT4</b>	dukovany-3 reactor	<b>NT2</b>	ra-6 reactor	<b>NT2</b>	trr-1 reactor
<b>NT4</b>	dukovany-4 reactor	<b>NT2</b>	ra-8 reactor	<b>NT2</b>	tz1 reactor
<b>NT4</b>	greifswald-1 reactor	<b>NT2</b>	rajasthan-5 reactor	<b>NT2</b>	tz2 reactor
<b>NT4</b>	greifswald-2 reactor	<b>NT2</b>	rajasthan-6 reactor	<b>NT2</b>	ucbrr reactor
<b>NT4</b>	greifswald-3 reactor	<b>NT2</b>	rb-1 reactor	<b>NT2</b>	ufrt reactor
<b>NT4</b>	greifswald-4 reactor	<b>NT2</b>	rb-2 reactor	<b>NT2</b>	uhtrex reactor
<b>NT4</b>	greifswald-5 reactor	<b>NT2</b>	rg-1m reactor	<b>NT2</b>	uknr reactor
<b>NT4</b>	greifswald-6 reactor	<b>NT2</b>	ritmo reactor	<b>NT2</b>	ulyse reactor
<b>NT4</b>	juragua-1 reactor	<b>NT2</b>	rts-1 reactor	<b>NT2</b>	umne-1 reactor
<b>NT4</b>	kalinin-1 reactor	<b>NT2</b>	safari-1 reactor	<b>NT2</b>	umrr reactor
<b>NT4</b>	kalinin-2 reactor	<b>NT2</b>	saint laurent-a1 reactor	<b>NT2</b>	urr reactor
<b>NT4</b>	kalinin-3 reactor	<b>NT2</b>	saint laurent-a2 reactor	<b>NT2</b>	utr-10-kinki reactor
<b>NT4</b>	kalinin-4 reactor	<b>NT2</b>	saphir reactor	<b>NT2</b>	utr reactor
<b>NT4</b>	kecerovce-1 reactor	<b>NT2</b>	scarabee reactor	<b>NT2</b>	uvar reactor
<b>NT4</b>	khmelnitskij-1 reactor	<b>NT2</b>	sghwr reactor	<b>NT2</b>	uwnr reactor
<b>NT4</b>	khmelnitskij-2 reactor	<b>NT2</b>	shca reactor	<b>NT2</b>	uwtr reactor
<b>NT4</b>	kola-1 reactor	<b>NT2</b>	siloe reactor	<b>NT2</b>	vandellos reactor
<b>NT4</b>	kola-2 reactor	<b>NT2</b>	silhouette reactor	<b>NT2</b>	venus reactor
<b>NT4</b>	kola-3 reactor	<b>NT2</b>	sizewell-a reactor	<b>NT2</b>	vg-400 reactor
<b>NT4</b>	kola-4 reactor	<b>NT2</b>	sm-2 reactor	<b>NT2</b>	vgr-50 reactor
<b>NT4</b>	kozloduy-1 reactor	<b>NT2</b>	smolensk-1 reactor	<b>NT2</b>	vhtr reactor
<b>NT4</b>	kozloduy-2 reactor	<b>NT2</b>	smolensk-2 reactor	<b>NT2</b>	vidal-1 reactor
<b>NT4</b>	kozloduy-3 reactor	<b>NT2</b>	smolensk-3 reactor	<b>NT2</b>	vidal-2 reactor
<b>NT4</b>	kozloduy-4 reactor	<b>NT2</b>	spert-1 reactor	<b>NT2</b>	voronezh ast-500 reactor
<b>NT4</b>	kozloduy-5 reactor	<b>NT2</b>	spert-2 reactor	<b>NT2</b>	vpi-utr-10 reactor
<b>NT4</b>	kozloduy-6 reactor	<b>NT2</b>	spert-3 reactor	<b>NT2</b>	vr-1 reactor
<b>NT4</b>	kudankulam-1 reactor	<b>NT2</b>	spert-4 reactor	<b>NT2</b>	wagr reactor
<b>NT4</b>	kudankulam-2 reactor	<b>NT2</b>	spr-2 reactor	<b>NT2</b>	windscale production reactors
<b>NT4</b>	loviisa-1 reactor	<b>NT2</b>	sr-1 reactor	<b>NT2</b>	wpir reactor
<b>NT4</b>	loviisa-2 reactor	<b>NT2</b>	sr-305 reactor	<b>NT2</b>	wr-1 reactor

NT2	wrrr reactor	NT2	borax-1 reactor	NT3	hatch-1 reactor
NT2	wsur reactor	NT2	borax-2 reactor	NT3	hatch-2 reactor
NT2	wtr reactor	NT2	borax-3 reactor	NT3	hdr reactor
NT2	wwr-2 reactor	NT2	borax-4 reactor	NT3	higashidori-1 reactor
NT2	wwr-k-almaty reactor	NT2	borax-5 reactor	NT3	hope creek-1 reactor
NT2	wwr-m-kiev reactor	NT2	br-02 reactor	NT3	hope creek-2 reactor
NT2	wwr-m-leningrad reactor	NT2	br-2 reactor	NT3	humboldt bay reactor
NT2	wwr-s-bucharest reactor	NT2	bwr type reactors	NT3	isar reactor
NT2	wwr-s-budapest reactor	NT3	allens creek-1 reactor	NT3	jpd-2 reactor
NT2	wwr-s-cairo reactor	NT3	allens creek-2 reactor	NT3	jpd reactor
NT2	wwr-s-moscow reactor	NT3	bailly-1 reactor	NT3	kaiseraugst reactor
NT2	wwr-s-prague reactor	NT3	barsebaeck-1 reactor	NT3	kashiwazaki-kariwa-1 reactor
NT2	wwr-s-tashkent reactor	NT3	barsebaeck-2 reactor	NT3	kashiwazaki-kariwa-2 reactor
NT2	wwr-sm rossendorf reactor	NT3	barton-1 reactor	NT3	kashiwazaki-kariwa-3 reactor
NT2	wwr-z reactor	NT3	barton-2 reactor	NT3	kashiwazaki-kariwa-4 reactor
NT2	wylfa reactor	NT3	barton-3 reactor	NT3	kashiwazaki-kariwa-5 reactor
NT2	x-10 reactor	NT3	barton-4 reactor	NT3	kashiwazaki-kariwa-6 reactor
NT2	zed-2 reactor	NT3	bell reactor	NT3	kashiwazaki-kariwa-7 reactor
NT2	zenith reactor	NT3	big rock point reactor	NT3	kruemmel reactor
NT2	zarlina reactor	NT3	black fox-1 reactor	NT3	kuosheng-1 reactor
NT2	zlf reactor	NT3	black fox-2 reactor	NT3	kuosheng-2 reactor
NT2	zpr reactor	NT3	bolsa chica-1 reactor	NT3	la salle county-1 reactor
NT1	thorium reactors	NT3	bolsa chica-2 reactor	NT3	la salle county-2 reactor
NT2	avr reactor	NT3	bonus reactor	NT3	lacbwr reactor
NT2	borax-4 reactor	NT3	browns ferry-1 reactor	NT3	laguna verde-1 reactor
NT2	dragon reactor	NT3	browns ferry-2 reactor	NT3	laguna verde-2 reactor
NT2	err reactor	NT3	browns ferry-3 reactor	NT3	leibstadt reactor
NT2	sre reactor	NT3	brunsbuettel reactor	NT3	limerick-1 reactor
NT2	thtr-300 reactor	NT3	brunswick-1 reactor	NT3	limerick-2 reactor
NT1	transportable reactors	NT3	brunswick-2 reactor	NT3	lingen reactor
NT2	package reactors	NT3	chinshan-1 reactor	NT3	lungmen-1 reactor
NT2	tibr reactor	NT3	chinshan-2 reactor	NT3	lungmen-2 reactor
NT1	water cooled reactors	NT3	clinton-1 reactor	NT3	mendocino-1 reactor
NT2	aarr reactor	NT3	clinton-2 reactor	NT3	mendocino-2 reactor
NT2	acpr reactor	NT3	cofrentes reactor	NT3	millstone-1 reactor
NT2	anna reactor	NT3	cooper reactor	NT3	montague-1 reactor
NT2	aqueous homogeneous reactors	NT3	dodewaard reactor	NT3	montague-2 reactor
NT3	ai-1-77 reactor	NT3	douglas point-1 reactor	NT3	montalto di castro-1 reactor
NT3	argus reactor	NT3	douglas point-2 reactor	NT3	montalto di castro-2 reactor
NT3	ber-2 reactor	NT3	dresden-1 reactor	NT3	monticello reactor
NT3	byu 1-77 reactor	NT3	dresden-2 reactor	NT3	muehleberg reactor
NT3	cesnef reactor	NT3	dresden-3 reactor	NT3	nine mile point-1 reactor
NT3	dr-1 reactor	NT3	duane arnold-1 reactor	NT3	nine mile point-2 reactor
NT3	frf reactor	NT3	ebwr reactor	NT3	okg-1 reactor
NT3	gidra reactor	NT3	enel-4 reactor	NT3	okg-2 reactor
NT3	hre-2 reactor	NT3	enrico fermi-2 reactor	NT3	okg-3 reactor
NT3	jir-1 reactor	NT3	err reactor	NT3	olkiluoto-1 reactor
NT3	kewb reactor	NT3	fitzpatrick reactor	NT3	olkiluoto-2 reactor
NT3	kstr reactor	NT3	forsmark-1 reactor	NT3	onagawa-1 reactor
NT3	ncscr-1 reactor	NT3	forsmark-2 reactor	NT3	onagawa-2 reactor
NT3	nevada university reactor	NT3	forsmark-3 reactor	NT3	onagawa-3 reactor
NT3	prnc-1-77 reactor	NT3	fukushima-1 reactor	NT3	oyster creek-1 reactor
NT3	supo reactor	NT3	fukushima-2 reactor	NT3	pathfinder reactor
NT3	wrrr reactor	NT3	fukushima-3 reactor	NT3	peach bottom-2 reactor
NT2	argonaut type reactors	NT3	fukushima-4 reactor	NT3	peach bottom-3 reactor
NT3	aeg-pr-10 reactor	NT3	fukushima-5 reactor	NT3	perry-1 reactor
NT3	arbi reactor	NT3	fukushima-6 reactor	NT3	perry-2 reactor
NT3	argonaut reactor	NT3	fukushima-ii-1 reactor	NT3	philippsburg-1 reactor
NT3	argos reactor	NT3	fukushima-ii-2 reactor	NT3	phipps bend-1 reactor
NT3	athene reactor	NT3	fukushima-ii-3 reactor	NT3	phipps bend-2 reactor
NT3	jason reactor	NT3	fukushima-ii-4 reactor	NT3	pilgrim-1 reactor
NT3	lfr reactor	NT3	garigliano reactor	NT3	quad cities-1 reactor
NT3	moata reactor	NT3	garona reactor	NT3	quad cities-2 reactor
NT3	nestor reactor	NT3	ge standard reactor	NT3	ringhals-1 reactor
NT3	queen mary college utr-b reactor	NT3	graben-1 reactor	NT3	river bend-1 reactor
NT3	ra-1 reactor	NT3	graben-2 reactor	NT3	river bend-2 reactor
NT3	rb-2 reactor	NT3	grand gulf-1 reactor	NT3	rwe-bayernwerk reactor
NT3	rien-1 reactor	NT3	grand gulf-2 reactor	NT3	shika-1 reactor
NT3	srcc-utr-100 reactor	NT3	gundremmingen-2 reactor	NT3	shika-2 reactor
NT3	stark reactor	NT3	gundremmingen-3 reactor	NT3	shimane-1 reactor
NT3	strasbourg-cronenbourg reactor	NT3	hamaoka-1 reactor	NT3	shimane-2 reactor
NT3	ufr reactor	NT3	hamaoka-2 reactor	NT3	shimane-3 reactor
NT3	ulyse reactor	NT3	hamaoka-3 reactor	NT3	shoreham reactor
NT3	urr reactor	NT3	hamaoka-4 reactor	NT3	skagit-1 reactor
NT3	utr-10-kinki reactor	NT3	hamaoka-5 reactor	NT3	skagit-2 reactor
NT3	vpi-utr-10 reactor	NT3	hartsville-1 reactor	NT3	sl-1 reactor
NT2	astr reactor	NT3	hartsville-2 reactor	NT3	susquehanna-1 reactor
NT2	atr reactor	NT3	hartsville-3 reactor	NT3	susquehanna-2 reactor
NT2	atsr reactor	NT3	hartsville-4 reactor	NT3	tarapur-1 reactor



NT3	tarapur-2 reactor	NT2	netr reactor	NT3	lptr reactor
NT3	tokai-2 reactor	NT2	nhr-5 reactor	NT3	lr-0 reactor
NT3	tsuruga reactor	NT2	nsrr reactor	NT3	ltir reactor
NT3	tullnerfeld reactor	NT2	ntf reactor	NT3	maria reactor
NT3	vak reactor	NT2	orphee reactor	NT3	maryla reactor
NT3	vbwr reactor	NT2	orr reactor	NT3	melusine-1 reactor
NT3	vermont yankee reactor	NT2	osiris reactor	NT3	merlin reactor
NT3	verplanck-1 reactor	NT2	owr reactor	NT3	minerve reactor
NT3	verplanck-2 reactor	NT2	pbr reactor	NT3	mnr reactor
NT3	vk-50 reactor	NT2	pegase reactor	NT3	nscr reactor
NT3	wnp-2 reactor	NT2	peggy reactor	NT3	nur reactor
NT3	wuergassen reactor	NT2	perryman-1 reactor	NT3	opal reactor
NT3	zimmer-1 reactor	NT2	perryman-2 reactor	NT3	osur reactor
NT3	zimmer-2 reactor	NT2	pool type reactors	NT3	parr-1 reactor
NT2	cirus reactor	NT3	agata reactor	NT3	phebus reactor
NT2	entc lwsr reactor	NT3	apsara reactor	NT3	pik physical model reactor
NT2	esada-vesr reactor	NT3	armf-1 reactor	NT3	prpr reactor
NT2	etr reactor	NT3	astra reactor	NT3	prr-1 reactor
NT2	evsr reactor	NT3	atrc reactor	NT3	psbr reactor
NT2	ewa reactor	NT3	avogadro rs-1 reactor	NT3	ptr reactor
NT2	ewg-1 reactor	NT3	bam reactor	NT3	pulstar-buffalo reactor
NT2	getr reactor	NT3	bawtr reactor	NT3	pulstar-raleigh reactor
NT2	hclwr type reactors	NT3	ber-2 reactor	NT3	pur-1 reactor
NT2	hfetr reactor	NT3	brr reactor	NT3	r2-0 reactor
NT2	hfir reactor	NT3	bsr-1 reactor	NT3	ra-10 reactor
NT2	hfr reactor	NT3	bsr-2 reactor	NT3	ra-6 reactor
NT2	hwlwr type reactors	NT3	cabri reactor	NT3	ra-8 reactor
NT3	cirene reactor	NT3	carr reactor	NT3	rana reactor
NT3	gentilly-1 reactor	NT3	cmrr reactor	NT3	rinsc reactor
NT3	jatr reactor	NT3	consort-2 reactor	NT3	ritmo reactor
NT2	igr reactor	NT3	cp-6 reactor	NT3	rmb reactor
NT2	iowa utr-10 reactor	NT3	crocus reactor	NT3	rp-10 reactor
NT2	janus reactor	NT3	democritus reactor	NT3	rts-1 reactor
NT2	jmr reactor	NT3	dr-2 reactor	NT3	rv-1 reactor
NT2	kamini reactor	NT3	etrc reactor	NT3	saphir reactor
NT2	kuhfr reactor	NT3	etr-2 reactor	NT3	scarabee reactor
NT2	litr reactor	NT3	fmr reactor	NT3	siloe reactor
NT2	lwbr type reactors	NT3	fnr reactor	NT3	siloe reactor
NT2	lwgr type reactors	NT3	frg-1 reactor	NT3	slowpoke type reactors
NT3	aps reactor	NT3	frg-2 reactor	NT4	slowpoke-alberta reactor
NT3	beloyarsk-1 reactor	NT3	frj-1 reactor	NT4	slowpoke-dalhousie reactor
NT3	beloyarsk-2 reactor	NT3	frm-ii reactor	NT4	slowpoke-mona reactor
NT3	bilibin reactor	NT3	frm reactor	NT4	slowpoke-montreal reactor
NT3	chernobylsk-1 reactor	NT3	frm reactor	NT4	slowpoke-ottawa reactor
NT3	chernobylsk-2 reactor	NT3	ga siwabessy reactor	NT4	slowpoke rmc reactor
NT3	chernobylsk-3 reactor	NT3	gtr reactor	NT4	slowpoke src reactor
NT3	chernobylsk-4 reactor	NT3	gulf triga-mk-3 reactor	NT4	slowpoke-toronto reactor
NT3	ignalina-1 reactor	NT3	hanaro reactor	NT4	slowpoke-wnre reactor
NT3	ignalina-2 reactor	NT3	herald reactor	NT3	spert-4 reactor
NT3	kursk-1 reactor	NT3	hor reactor	NT3	spr iae reactor
NT3	kursk-2 reactor	NT3	horace reactor	NT3	spr-300 reactor
NT3	kursk-3 reactor	NT3	htr reactor	NT3	stek reactor
NT3	kursk-4 reactor	NT3	ian-r1 reactor	NT3	stir reactor
NT3	leningrad-1 reactor	NT3	iear-1 reactor	NT3	swierk r-2 reactor
NT3	leningrad-2 reactor	NT3	ihni-1 reactor	NT3	thetis reactor
NT3	leningrad-3 reactor	NT3	ir-100 reactor	NT3	thor reactor
NT3	leningrad-4 reactor	NT3	irl reactor	NT3	toshiba reactor
NT3	n-reactor	NT3	irr-1 reactor	NT3	tr-1 reactor
NT3	rpt reactor	NT3	irt-2000 djakarta reactor	NT3	tr-2 reactor
NT3	smolensk-1 reactor	NT3	irt-2000 moscow reactor	NT3	triton reactor
NT3	smolensk-2 reactor	NT3	irt-c reactor	NT3	trr-1 reactor
NT3	smolensk-3 reactor	NT3	irt-dprk reactor	NT3	tz1 reactor
NT3	uwtr reactor	NT3	irt-f reactor	NT3	tz2 reactor
NT2	maple reactor	NT3	irt reactor	NT3	uknr reactor
NT2	maple type reactors	NT3	irt-sofia reactor	NT3	umne-1 reactor
NT2	mir reactor	NT3	isis reactor	NT3	umrr reactor
NT2	mnsr type reactors	NT3	ivv-2m reactor	NT3	utrr reactor
NT3	entc mnsr reactor	NT3	ivv-7 reactor	NT3	uvar reactor
NT3	gharr-1 reactor	NT3	jen-1 reactor	NT3	uwnr reactor
NT3	mnsr-ciae reactor	NT3	jen-2 reactor	NT3	vr-1 reactor
NT3	mnsr-sd reactor	NT3	jen reactor	NT3	wpir reactor
NT3	mnsr-sh reactor	NT3	jrr-3m reactor	NT3	wsur reactor
NT3	mnsr-sz reactor	NT3	jrr-4 reactor	NT3	xapr reactor
NT3	nirr-1 reactor	NT3	jules horowitz reactor	NT2	pumima-3 reactor
NT3	parr-2 reactor	NT3	kur reactor	NT2	pwr type reactors
NT3	srr-1 reactor	NT3	la reina rech-1 reactor	NT3	aguirre reactor
NT2	mrr reactor	NT3	lido reactor	NT3	almaraz-1 reactor
NT2	mtr reactor	NT3	lo aguirre rech-2 reactor	NT3	almaraz-2 reactor
NT2	murr reactor	NT3	lpr reactor	NT3	angra-1 reactor

<b>NT3</b>	angra-2 reactor	<b>NT3</b>	cruas-4 reactor	<b>NT3</b>	ikata-3 reactor
<b>NT3</b>	angra-3 reactor	<b>NT3</b>	crystal river-3 reactor	<b>NT3</b>	ikata reactor
<b>NT3</b>	arkansas-1 reactor	<b>NT3</b>	crystal river-4 reactor	<b>NT3</b>	indian point-1 reactor
<b>NT3</b>	arkansas-2 reactor	<b>NT3</b>	dampierre-1 reactor	<b>NT3</b>	indian point-2 reactor
<b>NT3</b>	asco-1 reactor	<b>NT3</b>	dampierre-2 reactor	<b>NT3</b>	indian point-3 reactor
<b>NT3</b>	asco-2 reactor	<b>NT3</b>	dampierre-3 reactor	<b>NT3</b>	iran-1 reactor
<b>NT3</b>	atlantic-1 reactor	<b>NT3</b>	dampierre-4 reactor	<b>NT3</b>	iran-2 reactor
<b>NT3</b>	atlantic-2 reactor	<b>NT3</b>	davis besse-1 reactor	<b>NT3</b>	isar-2 reactor
<b>NT3</b>	basf-1 reactor	<b>NT3</b>	davis besse-2 reactor	<b>NT3</b>	jamesport-1 reactor
<b>NT3</b>	basf-2 reactor	<b>NT3</b>	davis besse-3 reactor	<b>NT3</b>	jamesport-2 reactor
<b>NT3</b>	beaver valley-1 reactor	<b>NT3</b>	daya bay-1 reactor	<b>NT3</b>	kewaunee reactor
<b>NT3</b>	beaver valley-2 reactor	<b>NT3</b>	daya bay-2 reactor	<b>NT3</b>	koeberg-1 reactor
<b>NT3</b>	bellefonte-1 reactor	<b>NT3</b>	diablo canyon-1 reactor	<b>NT3</b>	koeberg-2 reactor
<b>NT3</b>	bellefonte-2 reactor	<b>NT3</b>	diablo canyon-2 reactor	<b>NT3</b>	kori-1 reactor
<b>NT3</b>	belleville-1 reactor	<b>NT3</b>	doel-1 reactor	<b>NT3</b>	kori-2 reactor
<b>NT3</b>	belleville-2 reactor	<b>NT3</b>	doel-2 reactor	<b>NT3</b>	kori-3 reactor
<b>NT3</b>	beznau-1 reactor	<b>NT3</b>	doel-3 reactor	<b>NT3</b>	kori-4 reactor
<b>NT3</b>	beznau-2 reactor	<b>NT3</b>	doel-4 reactor	<b>NT3</b>	krsko reactor
<b>NT3</b>	biblis-1 reactor	<b>NT3</b>	efdr-50 reactor	<b>NT3</b>	lemoniz-1 reactor
<b>NT3</b>	biblis-2 reactor	<b>NT3</b>	emsland reactor	<b>NT3</b>	lemoniz-2 reactor
<b>NT3</b>	biblis-3 reactor	<b>NT3</b>	erie-1 reactor	<b>NT3</b>	lenin reactor
<b>NT3</b>	biblis-4 reactor	<b>NT3</b>	erie-2 reactor	<b>NT3</b>	leonid brezhnev reactor
<b>NT3</b>	blayais-1 reactor	<b>NT3</b>	fangchenggang-1 reactor	<b>NT3</b>	lingao-1 reactor
<b>NT3</b>	blayais-2 reactor	<b>NT3</b>	fangchenggang-2 reactor	<b>NT3</b>	lingao-2 reactor
<b>NT3</b>	blayais-3 reactor	<b>NT3</b>	fangjiashan-1 reactor	<b>NT3</b>	lingao-3 reactor
<b>NT3</b>	blayais-4 reactor	<b>NT3</b>	fangjiashan-2 reactor	<b>NT3</b>	lingao-4 reactor
<b>NT3</b>	blue hills-1 reactor	<b>NT3</b>	farley-1 reactor	<b>NT3</b>	loft reactor
<b>NT3</b>	blue hills-2 reactor	<b>NT3</b>	farley-2 reactor	<b>NT3</b>	lucie-1 reactor
<b>NT3</b>	borssele reactor	<b>NT3</b>	fessenheim-1 reactor	<b>NT3</b>	lucie-2 reactor
<b>NT3</b>	br-3 reactor	<b>NT3</b>	fessenheim-2 reactor	<b>NT3</b>	maanshan-1 reactor
<b>NT3</b>	braidwood-1 reactor	<b>NT3</b>	flamanville-1 reactor	<b>NT3</b>	maanshan-2 reactor
<b>NT3</b>	braidwood-2 reactor	<b>NT3</b>	flamanville-2 reactor	<b>NT3</b>	maine yankee reactor
<b>NT3</b>	brokdorf reactor	<b>NT3</b>	flamanville-3 reactor	<b>NT3</b>	malibu-1 reactor
<b>NT3</b>	bugey-2 reactor	<b>NT3</b>	forked river-1 reactor	<b>NT3</b>	marble hill-1 reactor
<b>NT3</b>	bugey-3 reactor	<b>NT3</b>	fuqing-1 reactor	<b>NT3</b>	marble hill-2 reactor
<b>NT3</b>	bugey-4 reactor	<b>NT3</b>	fuqing-2 reactor	<b>NT3</b>	mc guire-1 reactor
<b>NT3</b>	bugey-5 reactor	<b>NT3</b>	fuqing-3 reactor	<b>NT3</b>	mc guire-2 reactor
<b>NT3</b>	bw standard reactor	<b>NT3</b>	fuqing-4 reactor	<b>NT3</b>	mh-1a reactor
<b>NT3</b>	byron-1 reactor	<b>NT3</b>	fuqing-5 reactor	<b>NT3</b>	midland-1 reactor
<b>NT3</b>	byron-2 reactor	<b>NT3</b>	fuqing-6 reactor	<b>NT3</b>	midland-2 reactor
<b>NT3</b>	calhoun-1 reactor	<b>NT3</b>	genkai-1 reactor	<b>NT3</b>	mihama-1 reactor
<b>NT3</b>	calhoun-2 reactor	<b>NT3</b>	genkai-2 reactor	<b>NT3</b>	mihama-2 reactor
<b>NT3</b>	callaway-1 reactor	<b>NT3</b>	genkai-3 reactor	<b>NT3</b>	mihama-3 reactor
<b>NT3</b>	callaway-2 reactor	<b>NT3</b>	genkai-4 reactor	<b>NT3</b>	millstone-2 reactor
<b>NT3</b>	calvert cliffs-1 reactor	<b>NT3</b>	ginna-1 reactor	<b>NT3</b>	millstone-3 reactor
<b>NT3</b>	calvert cliffs-2 reactor	<b>NT3</b>	goesgen reactor	<b>NT3</b>	muelheim-kaerlich reactor
<b>NT3</b>	carem 25 reactor	<b>NT3</b>	golfech-1 reactor	<b>NT3</b>	mutsu reactor
<b>NT3</b>	catawba-1 reactor	<b>NT3</b>	golfech-2 reactor	<b>NT3</b>	neckar-1 reactor
<b>NT3</b>	catawba-2 reactor	<b>NT3</b>	grafenhainfeld reactor	<b>NT3</b>	neckar-2 reactor
<b>NT3</b>	cattenom-1 reactor	<b>NT3</b>	gravelines-1 reactor	<b>NT3</b>	nep-1 reactor
<b>NT3</b>	cattenom-2 reactor	<b>NT3</b>	gravelines-2 reactor	<b>NT3</b>	nep-2 reactor
<b>NT3</b>	cattenom-3 reactor	<b>NT3</b>	gravelines-3 reactor	<b>NT3</b>	neupotz-1 reactor
<b>NT3</b>	cattenom-4 reactor	<b>NT3</b>	gravelines-4 reactor	<b>NT3</b>	neupotz-2 reactor
<b>NT3</b>	ce standard reactor	<b>NT3</b>	gravelines-5 reactor	<b>NT3</b>	ningde-1 reactor
<b>NT3</b>	changjiang-1 reactor	<b>NT3</b>	gravelines-6 reactor	<b>NT3</b>	ningde-2 reactor
<b>NT3</b>	changjiang-2 reactor	<b>NT3</b>	greene county reactor	<b>NT3</b>	ningde-3 reactor
<b>NT3</b>	chasnupp-1 reactor	<b>NT3</b>	greenwood-2 reactor	<b>NT3</b>	ningde-4 reactor
<b>NT3</b>	chasnupp-2 reactor	<b>NT3</b>	greenwood-3 reactor	<b>NT3</b>	nogent-1 reactor
<b>NT3</b>	chasnupp-3 reactor	<b>NT3</b>	grohnde reactor	<b>NT3</b>	nogent-2 reactor
<b>NT3</b>	cherokee-1 reactor	<b>NT3</b>	hamm-uentrop reactor	<b>NT3</b>	north anna-1 reactor
<b>NT3</b>	cherokee-2 reactor	<b>NT3</b>	hanbit-1 reactor	<b>NT3</b>	north anna-2 reactor
<b>NT3</b>	cherokee-3 reactor	<b>NT3</b>	hanbit-2 reactor	<b>NT3</b>	north anna-3 reactor
<b>NT3</b>	chinon-b1 reactor	<b>NT3</b>	hanbit-3 reactor	<b>NT3</b>	north anna-4 reactor
<b>NT3</b>	chinon-b2 reactor	<b>NT3</b>	hanbit-4 reactor	<b>NT3</b>	north coast-1 reactor
<b>NT3</b>	chinon-b3 reactor	<b>NT3</b>	hanbit-5 reactor	<b>NT3</b>	obrigheim reactor
<b>NT3</b>	chinon-b4 reactor	<b>NT3</b>	hanbit-6 reactor	<b>NT3</b>	oconee-1 reactor
<b>NT3</b>	chooz-a reactor	<b>NT3</b>	harris-1 reactor	<b>NT3</b>	oconee-2 reactor
<b>NT3</b>	chooz-b1 reactor	<b>NT3</b>	harris-2 reactor	<b>NT3</b>	oconee-3 reactor
<b>NT3</b>	chooz-b2 reactor	<b>NT3</b>	harris-3 reactor	<b>NT3</b>	oi-1 reactor
<b>NT3</b>	civaux-1 reactor	<b>NT3</b>	harris-4 reactor	<b>NT3</b>	oi-2 reactor
<b>NT3</b>	civaux-2 reactor	<b>NT3</b>	haven-1 reactor	<b>NT3</b>	oi-3 reactor
<b>NT3</b>	comanche peak-1 reactor	<b>NT4</b>	koshkonong-1 reactor	<b>NT3</b>	oi-4 reactor
<b>NT3</b>	comanche peak-2 reactor	<b>NT3</b>	haven-2 reactor	<b>NT3</b>	oktemberyan-2 reactor
<b>NT3</b>	connecticut yankee reactor	<b>NT4</b>	koshkonong-2 reactor	<b>NT3</b>	olkiluoto-3 reactor
<b>NT3</b>	cook-1 reactor	<b>NT3</b>	hongyanhe-1 reactor	<b>NT3</b>	otto hahn reactor
<b>NT3</b>	cook-2 reactor	<b>NT3</b>	hongyanhe-2 reactor	<b>NT3</b>	palisades-1 reactor
<b>NT3</b>	cruas-1 reactor	<b>NT3</b>	hongyanhe-3 reactor	<b>NT3</b>	palo verde-1 reactor
<b>NT3</b>	cruas-2 reactor	<b>NT3</b>	hongyanhe-4 reactor	<b>NT3</b>	palo verde-2 reactor
<b>NT3</b>	cruas-3 reactor	<b>NT3</b>	ikata-2 reactor	<b>NT3</b>	palo verde-3 reactor

NT3	palo verde-4 reactor	NT3	surry-4 reactor	NT4	kecerovce-1 reactor
NT3	palo verde-5 reactor	NT3	takahama-1 reactor	NT4	khmelnitskij-1 reactor
NT3	paluel-1 reactor	NT3	takahama-2 reactor	NT4	khmelnitskij-2 reactor
NT3	paluel-2 reactor	NT3	takahama-3 reactor	NT4	kola-1 reactor
NT3	paluel-3 reactor	NT3	takahama-4 reactor	NT4	kola-2 reactor
NT3	paluel-4 reactor	NT3	three mile island-1 reactor	NT4	kola-3 reactor
NT3	pat reactor	NT3	three mile island-2 reactor	NT4	kola-4 reactor
NT3	pebble springs-1 reactor	NT3	tihange-2 reactor	NT4	kozloduy-1 reactor
NT3	pebble springs-2 reactor	NT3	tihange-3 reactor	NT4	kozloduy-2 reactor
NT3	penly-1 reactor	NT3	tihange reactor	NT4	kozloduy-3 reactor
NT3	penly-2 reactor	NT3	tomari-1 reactor	NT4	kozloduy-4 reactor
NT3	penly-3 reactor	NT3	tomari-2 reactor	NT4	kozloduy-5 reactor
NT3	perkins-1 reactor	NT3	tomari-3 reactor	NT4	kozloduy-6 reactor
NT3	perkins-2 reactor	NT3	tricastin-1 reactor	NT4	kudankulam-1 reactor
NT3	perkins-3 reactor	NT3	tricastin-2 reactor	NT4	kudankulam-2 reactor
NT3	philippsburg-2 reactor	NT3	tricastin-3 reactor	NT4	loviisa-1 reactor
NT3	pilgrim-2 reactor	NT3	tricastin-4 reactor	NT4	loviisa-2 reactor
NT3	pilgrim-3 reactor	NT3	trillo-1 reactor	NT4	mochovce-1 reactor
NT3	pm-2a reactor	NT3	trojan reactor	NT4	mochovce-2 reactor
NT3	pm-3a reactor	NT3	tsuruga-2 reactor	NT4	novovoronezh-1 reactor
NT3	pnp-1 reactor	NT3	turkey point-3 reactor	NT4	novovoronezh-2 reactor
NT3	point beach-1 reactor	NT3	turkey point-4 reactor	NT4	novovoronezh-3 reactor
NT3	point beach-2 reactor	NT3	tva-1 reactor	NT4	novovoronezh-4 reactor
NT3	prairie island-1 reactor	NT3	tva-2 reactor	NT4	novovoronezh-5 reactor
NT3	prairie island-2 reactor	NT3	tyrone-1 reactor	NT4	paks-1 reactor
NT3	qinshan-1 reactor	NT3	tyrone-2 reactor	NT4	paks-2 reactor
NT3	qinshan-2-1 reactor	NT3	ulchin-1 reactor	NT4	paks-3 reactor
NT3	qinshan-2-2 reactor	NT3	ulchin-2 reactor	NT4	paks-4 reactor
NT3	qinshan-2-3 reactor	NT3	ulchin-3 reactor	NT4	rostov-1 reactor
NT3	qinshan-2-4 reactor	NT3	ulchin-4 reactor	NT4	rostov-2 reactor
NT3	quanicasse-1 reactor	NT3	ulchin-5 reactor	NT4	rostov-3 reactor
NT3	quanicasse-2 reactor	NT3	ulchin-6 reactor	NT4	rovno-1 reactor
NT3	rancho seco-1 reactor	NT3	unterweser reactor	NT4	rovno-2 reactor
NT3	remerschen reactor	NT3	vahnum-1 reactor	NT4	rovno-3 reactor
NT3	rheinsberg akw1 reactor	NT3	vahnum-2 reactor	NT4	rovno-4 reactor
NT3	ringhals-2 reactor	NT3	vandellos-2 reactor	NT4	rovno-5 reactor
NT3	ringhals-3 reactor	NT3	vogtle-1 reactor	NT4	south ukrainian-1 reactor
NT3	ringhals-4 reactor	NT3	vogtle-2 reactor	NT4	south ukrainian-2 reactor
NT3	robinson-2 reactor	NT3	vogtle-3 reactor	NT4	south ukrainian-3 reactor
NT3	rooppur reactor	NT3	vogtle-4 reactor	NT4	stendal-1 reactor
NT3	rowe yankee reactor	NT3	waterford-3 reactor	NT4	tatarian reactor
NT3	s1c prototype reactor	NT3	waterford-4 reactor	NT4	temelin-1 reactor
NT3	saint alban-1 reactor	NT3	watts bar-1 reactor	NT4	temelin-2 reactor
NT3	saint alban-2 reactor	NT3	watts bar-2 reactor	NT4	tianwan-1 reactor
NT3	saint laurent-b1 reactor	NT3	westinghouse standard reactor	NT4	tianwan-2 reactor
NT3	saint laurent-b2 reactor	NT3	wnp-1 reactor	NT4	zaporozhe-1 reactor
NT3	salem-1 reactor	NT3	wnp-3 reactor	NT4	zaporozhe-2 reactor
NT3	salem-2 reactor	NT3	wnp-4 reactor	NT4	zaporozhe-3 reactor
NT3	san onofre-1 reactor	NT3	wnp-5 reactor	NT4	zaporozhe-4 reactor
NT3	san onofre-2 reactor	NT3	wolf creek-1 reactor	NT4	zaporozhe-5 reactor
NT3	san onofre-3 reactor	NT3	wup-3 reactor	NT4	zaporozhe-6 reactor
NT3	savannah reactor	NT3	wup-4 reactor	NT3	wyhl-1 reactor
NT3	saxton reactor	NT3	wup-5 reactor	NT3	wyhl-2 reactor
NT3	seabrook-1 reactor	NT3	wup-6 reactor	NT3	yangjiang-1 reactor
NT3	seabrook-2 reactor	NT3	wwer type reactors	NT3	yangjiang-2 reactor
NT3	selni reactor	NT4	armenian-1 reactor	NT3	yangjiang-3 reactor
NT3	sendai-1 reactor	NT4	armenian-2 reactor	NT3	yangjiang-4 reactor
NT3	sendai-2 reactor	NT4	balakovo-1 reactor	NT3	yellow creek-1 reactor
NT3	sequoyah-1 reactor	NT4	balakovo-2 reactor	NT3	yellow creek-2 reactor
NT3	sequoyah-2 reactor	NT4	balakovo-3 reactor	NT3	zion-1 reactor
NT3	shin-kori-1 reactor	NT4	balakovo-4 reactor	NT3	zion-2 reactor
NT3	shin-kori-2 reactor	NT4	blahutovice-1 reactor	NT3	zorita-1 reactor
NT3	shin-kori-3 reactor	NT4	bohunice v-1 reactor	NT2	r-2 reactor
NT3	shin-wolsong-1 reactor	NT4	bohunice v-2 reactor	NT2	ra-5 reactor
NT3	shippingport reactor	NT4	dukovany-1 reactor	NT2	rg-1m reactor
NT3	sizewell-b reactor	NT4	dukovany-2 reactor	NT2	safari-1 reactor
NT3	sm-1 reactor	NT4	dukovany-3 reactor	NT2	sghwr reactor
NT3	sm-1a reactor	NT4	dukovany-4 reactor	NT2	sm-2 reactor
NT3	south texas project-1 reactor	NT4	greifswald-1 reactor	NT2	spert-2 reactor
NT3	south texas project-2 reactor	NT4	greifswald-2 reactor	NT2	spert-3 reactor
NT3	stade reactor	NT4	greifswald-3 reactor	NT2	sr-1 reactor
NT3	sterling-1 reactor	NT4	greifswald-4 reactor	NT2	sr-3p reactor
NT3	sterling-2 reactor	NT4	greifswald-5 reactor	NT2	sr-0a reactor
NT3	summer-1 reactor	NT4	greifswald-6 reactor	NT2	tca reactor
NT3	sundesert-1 reactor	NT4	juragua-1 reactor	NT2	triga type reactors
NT3	sundesert-2 reactor	NT4	kalinin-1 reactor	NT3	afri reactor
NT3	surry-1 reactor	NT4	kalinin-2 reactor	NT3	atpr reactor
NT3	surry-2 reactor	NT4	kalinin-3 reactor	NT3	colorado triga-mk-3 reactor
NT3	surry-3 reactor	NT4	kalinin-4 reactor	NT3	cornell triga-mk-2 reactor

<b>NT3</b>	dow triga-mk-1 reactor	<b>NT3</b>	frf reactor	<b>NT3</b>	ebwr reactor
<b>NT3</b>	fir-1 reactor	<b>NT3</b>	gidra reactor	<b>NT3</b>	enel-4 reactor
<b>NT3</b>	frf-2 reactor	<b>NT3</b>	hre-2 reactor	<b>NT3</b>	enrico fermi-2 reactor
<b>NT3</b>	fm reactor	<b>NT3</b>	jrr-1 reactor	<b>NT3</b>	err reactor
<b>NT3</b>	gulf triga-mk-3 reactor	<b>NT3</b>	kewb reactor	<b>NT3</b>	fitzpatrick reactor
<b>NT3</b>	kartini-ppny reactor	<b>NT3</b>	kstr reactor	<b>NT3</b>	forsmark-1 reactor
<b>NT3</b>	lopra reactor	<b>NT3</b>	ncscr-1 reactor	<b>NT3</b>	forsmark-2 reactor
<b>NT3</b>	nscr reactor	<b>NT3</b>	nevada university reactor	<b>NT3</b>	forsmark-3 reactor
<b>NT3</b>	ostr reactor	<b>NT3</b>	prnc-1-77 reactor	<b>NT3</b>	fukushima-1 reactor
<b>NT3</b>	prpr reactor	<b>NT3</b>	supo reactor	<b>NT3</b>	fukushima-2 reactor
<b>NT3</b>	psbr reactor	<b>NT3</b>	wrrr reactor	<b>NT3</b>	fukushima-3 reactor
<b>NT3</b>	rtp reactor	<b>NT2</b>	argonaut type reactors	<b>NT3</b>	fukushima-4 reactor
<b>NT3</b>	trico ii reactor	<b>NT3</b>	aeg-pr-10 reactor	<b>NT3</b>	fukushima-5 reactor
<b>NT3</b>	trico reactor	<b>NT3</b>	arbi reactor	<b>NT3</b>	fukushima-6 reactor
<b>NT3</b>	triga-1-arizona reactor	<b>NT3</b>	argonaut reactor	<b>NT3</b>	fukushima-ii-1 reactor
<b>NT3</b>	triga-1-california reactor	<b>NT3</b>	argos reactor	<b>NT3</b>	fukushima-ii-2 reactor
<b>NT3</b>	triga-1-hanford reactor	<b>NT3</b>	athene reactor	<b>NT3</b>	fukushima-ii-3 reactor
<b>NT3</b>	triga-1-hanover reactor	<b>NT3</b>	jason reactor	<b>NT3</b>	fukushima-ii-4 reactor
<b>NT3</b>	triga-1-heidelberg reactor	<b>NT3</b>	lfr reactor	<b>NT3</b>	garigliano reactor
<b>NT3</b>	triga-1-michigan reactor	<b>NT3</b>	moata reactor	<b>NT3</b>	garona reactor
<b>NT3</b>	triga-2-bandung reactor	<b>NT3</b>	nestor reactor	<b>NT3</b>	ge standard reactor
<b>NT3</b>	triga-2-bangladesh reactor	<b>NT3</b>	queen mary college utr-b reactor	<b>NT3</b>	graben-1 reactor
<b>NT3</b>	triga-2-dalat reactor	<b>NT3</b>	ra-1 reactor	<b>NT3</b>	graben-2 reactor
<b>NT3</b>	triga-2-illinois reactor	<b>NT3</b>	rb-2 reactor	<b>NT3</b>	grand gulf-1 reactor
<b>NT3</b>	triga-2-kansas reactor	<b>NT3</b>	rien-1 reactor	<b>NT3</b>	grand gulf-2 reactor
<b>NT3</b>	triga-2-ljubljana reactor	<b>NT3</b>	srrc-utr-100 reactor	<b>NT3</b>	gundremmingen-2 reactor
<b>NT3</b>	triga-2-mainz reactor	<b>NT3</b>	stark reactor	<b>NT3</b>	gundremmingen-3 reactor
<b>NT3</b>	triga-2-musashi reactor	<b>NT3</b>	strasbourg-cronenbourg reactor	<b>NT3</b>	hamaoka-1 reactor
<b>NT3</b>	triga-2-pavia reactor	<b>NT3</b>	ufr reactor	<b>NT3</b>	hamaoka-2 reactor
<b>NT3</b>	triga-2-pitești reactor	<b>NT3</b>	ulyse reactor	<b>NT3</b>	hamaoka-3 reactor
<b>NT3</b>	triga-2 reactor	<b>NT3</b>	urr reactor	<b>NT3</b>	hamaoka-4 reactor
<b>NT3</b>	triga-2-rikyo reactor	<b>NT3</b>	utr-10-kinki reactor	<b>NT3</b>	hamaoka-5 reactor
<b>NT3</b>	triga-2-rome reactor	<b>NT3</b>	vpi-utr-10 reactor	<b>NT3</b>	hartsville-1 reactor
<b>NT3</b>	triga-2-seoul reactor	<b>NT2</b>	astr reactor	<b>NT3</b>	hartsville-2 reactor
<b>NT3</b>	triga-2-vienna reactor	<b>NT2</b>	atr reactor	<b>NT3</b>	hartsville-3 reactor
<b>NT3</b>	triga-3-la jolla reactor	<b>NT2</b>	atsr reactor	<b>NT3</b>	hartsville-4 reactor
<b>NT3</b>	triga-3-munich reactor	<b>NT2</b>	borax-1 reactor	<b>NT3</b>	hatch-1 reactor
<b>NT3</b>	triga-3-salazar reactor	<b>NT2</b>	borax-2 reactor	<b>NT3</b>	hatch-2 reactor
<b>NT3</b>	triga-3-seoul reactor	<b>NT2</b>	borax-3 reactor	<b>NT3</b>	hdr reactor
<b>NT3</b>	triga-brazil reactor	<b>NT2</b>	borax-4 reactor	<b>NT3</b>	higashidori-1 reactor
<b>NT3</b>	triga-texas reactor	<b>NT2</b>	borax-5 reactor	<b>NT3</b>	hope creek-1 reactor
<b>NT3</b>	triga-veterans reactor	<b>NT2</b>	br-02 reactor	<b>NT3</b>	hope creek-2 reactor
<b>NT3</b>	ucbrr reactor	<b>NT2</b>	br-2 reactor	<b>NT3</b>	humboldt bay reactor
<b>NT3</b>	uwnr reactor	<b>NT2</b>	bwr type reactors	<b>NT3</b>	isar reactor
<b>NT3</b>	wsur reactor	<b>NT3</b>	allens creek-1 reactor	<b>NT3</b>	jpdr-2 reactor
<b>NT2</b>	tsr-2 reactor	<b>NT3</b>	allens creek-2 reactor	<b>NT3</b>	jpdr reactor
<b>NT2</b>	voronezh ast-500 reactor	<b>NT3</b>	bailly-1 reactor	<b>NT3</b>	kaiseraugst reactor
<b>NT2</b>	wnt reactor	<b>NT3</b>	barsebaeck-1 reactor	<b>NT3</b>	kashiwazaki-kariwa-1 reactor
<b>NT2</b>	wtr reactor	<b>NT3</b>	barsebaeck-2 reactor	<b>NT3</b>	kashiwazaki-kariwa-2 reactor
<b>NT2</b>	wwr type reactors	<b>NT3</b>	barton-1 reactor	<b>NT3</b>	kashiwazaki-kariwa-3 reactor
<b>NT3</b>	budapest training reactor	<b>NT3</b>	barton-2 reactor	<b>NT3</b>	kashiwazaki-kariwa-4 reactor
<b>NT3</b>	irt-1 libya reactor	<b>NT3</b>	barton-3 reactor	<b>NT3</b>	kashiwazaki-kariwa-5 reactor
<b>NT3</b>	irt-baghdad reactor	<b>NT3</b>	barton-4 reactor	<b>NT3</b>	kashiwazaki-kariwa-6 reactor
<b>NT3</b>	lvr-15 reactor	<b>NT3</b>	bell reactor	<b>NT3</b>	kashiwazaki-kariwa-7 reactor
<b>NT3</b>	wwr-2 reactor	<b>NT3</b>	big rock point reactor	<b>NT3</b>	krummel reactor
<b>NT3</b>	wwr-k-almaty reactor	<b>NT3</b>	black fox-1 reactor	<b>NT3</b>	kuosheng-1 reactor
<b>NT3</b>	wwr-m-kiiev reactor	<b>NT3</b>	black fox-2 reactor	<b>NT3</b>	kuosheng-2 reactor
<b>NT3</b>	wwr-m-leningrad reactor	<b>NT3</b>	bolsa chica-1 reactor	<b>NT3</b>	la salle county-1 reactor
<b>NT3</b>	wwr-s-bucharest reactor	<b>NT3</b>	bolsa chica-2 reactor	<b>NT3</b>	la salle county-2 reactor
<b>NT3</b>	wwr-s-budapest reactor	<b>NT3</b>	bonus reactor	<b>NT3</b>	lacbwr reactor
<b>NT3</b>	wwr-s-cairo reactor	<b>NT3</b>	browns ferry-1 reactor	<b>NT3</b>	laguna verde-1 reactor
<b>NT3</b>	wwr-s-moscow reactor	<b>NT3</b>	browns ferry-2 reactor	<b>NT3</b>	laguna verde-2 reactor
<b>NT3</b>	wwr-s-prague reactor	<b>NT3</b>	browns ferry-3 reactor	<b>NT3</b>	leibstadt reactor
<b>NT3</b>	wwr-s-tashkent reactor	<b>NT3</b>	brunsbuettel reactor	<b>NT3</b>	limerick-1 reactor
<b>NT3</b>	wwr-sm rossendorf reactor	<b>NT3</b>	brunswick-1 reactor	<b>NT3</b>	limerick-2 reactor
<b>NT3</b>	wwr-z reactor	<b>NT3</b>	brunswick-2 reactor	<b>NT3</b>	lingen reactor
<b>NT2</b>	zlf reactor	<b>NT3</b>	chinshan-1 reactor	<b>NT3</b>	lungmen-1 reactor
<b>NT2</b>	zr-6 reactor	<b>NT3</b>	chinshan-2 reactor	<b>NT3</b>	lungmen-2 reactor
<b>NT1</b>	water moderated reactors	<b>NT3</b>	clinton-1 reactor	<b>NT3</b>	mendocino-1 reactor
<b>NT2</b>	aarr reactor	<b>NT3</b>	clinton-2 reactor	<b>NT3</b>	mendocino-2 reactor
<b>NT2</b>	acpr reactor	<b>NT3</b>	cofrentes reactor	<b>NT3</b>	millstone-1 reactor
<b>NT2</b>	anna reactor	<b>NT3</b>	cooper reactor	<b>NT3</b>	montague-1 reactor
<b>NT2</b>	aqueous homogeneous reactors	<b>NT3</b>	dodewaard reactor	<b>NT3</b>	montague-2 reactor
<b>NT3</b>	ai-1-77 reactor	<b>NT3</b>	douglas point-1 reactor	<b>NT3</b>	montalto di castro-1 reactor
<b>NT3</b>	argus reactor	<b>NT3</b>	douglas point-2 reactor	<b>NT3</b>	montalto di castro-2 reactor
<b>NT3</b>	ber-2 reactor	<b>NT3</b>	dresden-1 reactor	<b>NT3</b>	monticello reactor
<b>NT3</b>	byu 1-77 reactor	<b>NT3</b>	dresden-2 reactor	<b>NT3</b>	muehleberg reactor
<b>NT3</b>	cesnef reactor	<b>NT3</b>	dresden-3 reactor	<b>NT3</b>	nine mile point-1 reactor
<b>NT3</b>	dr-1 reactor	<b>NT3</b>	duane arnold-1 reactor	<b>NT3</b>	nine mile point-2 reactor

NT3	okg-1 reactor	NT3	mnsr-ciae reactor	NT3	jen-2 reactor
NT3	okg-2 reactor	NT3	mnsr-sd reactor	NT3	jen reactor
NT3	okg-3 reactor	NT3	mnsr-sh reactor	NT3	jrr-3m reactor
NT3	olkiluoto-1 reactor	NT3	mnsr-sz reactor	NT3	jrr-4 reactor
NT3	olkiluoto-2 reactor	NT3	nirr-1 reactor	NT3	jules horowitz reactor
NT3	onagawa-1 reactor	NT3	parr-2 reactor	NT3	kur reactor
NT3	onagawa-2 reactor	NT3	srr-1 reactor	NT3	la reina rech-1 reactor
NT3	onagawa-3 reactor	NT2	mrr reactor	NT3	lido reactor
NT3	oyster creek-1 reactor	NT2	mtr reactor	NT3	lo aguirre rech-2 reactor
NT3	pathfinder reactor	NT2	murr reactor	NT3	lpr reactor
NT3	peach bottom-2 reactor	NT2	netr reactor	NT3	lprr reactor
NT3	peach bottom-3 reactor	NT2	nhr-5 reactor	NT3	lr-0 reactor
NT3	perry-1 reactor	NT2	nsrr reactor	NT3	ltir reactor
NT3	perry-2 reactor	NT2	ntr reactor	NT3	maria reactor
NT3	philippsburg-1 reactor	NT2	nuclear furnace reactor	NT3	maryla reactor
NT3	phipps bend-1 reactor	NT2	orr reactor	NT3	melusine-1 reactor
NT3	phipps bend-2 reactor	NT2	osiris reactor	NT3	merlin reactor
NT3	pilgrim-1 reactor	NT2	owr reactor	NT3	minerve reactor
NT3	quad cities-1 reactor	NT2	pbr reactor	NT3	mnr reactor
NT3	quad cities-2 reactor	NT2	pegase reactor	NT3	nscr reactor
NT3	ringhals-1 reactor	NT2	peggy reactor	NT3	nur reactor
NT3	river bend-1 reactor	NT2	perryman-1 reactor	NT3	opal reactor
NT3	river bend-2 reactor	NT2	perryman-2 reactor	NT3	osur reactor
NT3	rwe-bayernwerk reactor	NT2	pool type reactors	NT3	parr-1 reactor
NT3	shika-1 reactor	NT3	agata reactor	NT3	phebus reactor
NT3	shika-2 reactor	NT3	apsara reactor	NT3	pik physical model reactor
NT3	shimane-1 reactor	NT3	armf-1 reactor	NT3	prpr reactor
NT3	shimane-2 reactor	NT3	astra reactor	NT3	prr-1 reactor
NT3	shimane-3 reactor	NT3	atrc reactor	NT3	psbr reactor
NT3	shoreham reactor	NT3	avogadro rs-1 reactor	NT3	ptr reactor
NT3	skagit-1 reactor	NT3	bam reactor	NT3	pulstar-buffalo reactor
NT3	skagit-2 reactor	NT3	bawtr reactor	NT3	pulstar-raleigh reactor
NT3	sl-1 reactor	NT3	ber-2 reactor	NT3	pur-1 reactor
NT3	susquehanna-1 reactor	NT3	bir reactor	NT3	r2-0 reactor
NT3	susquehanna-2 reactor	NT3	bsr-1 reactor	NT3	ra-10 reactor
NT3	tarapur-1 reactor	NT3	bsr-2 reactor	NT3	ra-6 reactor
NT3	tarapur-2 reactor	NT3	cabri reactor	NT3	ra-8 reactor
NT3	tokai-2 reactor	NT3	carr reactor	NT3	rana reactor
NT3	tsuruga reactor	NT3	cmrr reactor	NT3	rinsc reactor
NT3	tullnerfeld reactor	NT3	consort-2 reactor	NT3	ritmo reactor
NT3	vak reactor	NT3	cp-6 reactor	NT3	rmb reactor
NT3	vbwr reactor	NT3	crocus reactor	NT3	rp-10 reactor
NT3	vermont yankee reactor	NT3	democritus reactor	NT3	rts-1 reactor
NT3	verplanck-1 reactor	NT3	dr-2 reactor	NT3	rv-1 reactor
NT3	verplanck-2 reactor	NT3	etrc reactor	NT3	saphir reactor
NT3	vk-50 reactor	NT3	etrr-2 reactor	NT3	scarabee reactor
NT3	wnp-2 reactor	NT3	fmr reactor	NT3	siloe reactor
NT3	wuergassen reactor	NT3	fnr reactor	NT3	siloette reactor
NT3	zimmer-1 reactor	NT3	frg-1 reactor	NT3	slowpoke type reactors
NT3	zimmer-2 reactor	NT3	frg-2 reactor	NT4	slowpoke-alberta reactor
NT2	entc lwsr reactor	NT3	frj-1 reactor	NT4	slowpoke-dalhousie reactor
NT2	esada-vesr reactor	NT3	frm-ii reactor	NT4	slowpoke-mona reactor
NT2	etr reactor	NT3	frm reactor	NT4	slowpoke-montreal reactor
NT2	evsr reactor	NT3	frn reactor	NT4	slowpoke-ottawa reactor
NT2	ewa reactor	NT3	ga siwabessy reactor	NT4	slowpoke rmc reactor
NT2	ewg-1 reactor	NT3	gtr reactor	NT4	slowpoke src reactor
NT2	gcre reactor	NT3	gulf triga-mk-3 reactor	NT4	slowpoke-toronto reactor
NT2	getr reactor	NT3	hanaro reactor	NT4	slowpoke-wnre reactor
NT2	hclwr type reactors	NT3	herald reactor	NT3	spert-4 reactor
NT2	hfetr reactor	NT3	hor reactor	NT3	spr iae reactor
NT2	hfir reactor	NT3	horace reactor	NT3	sprr-300 reactor
NT2	hfr reactor	NT3	htr reactor	NT3	stek reactor
NT2	igr reactor	NT3	ian-r1 reactor	NT3	stir reactor
NT2	janus reactor	NT3	iear-1 reactor	NT3	swierk r-2 reactor
NT2	jmtr reactor	NT3	ihni-1 reactor	NT3	thetis reactor
NT2	juno reactor	NT3	ir-100 reactor	NT3	thor reactor
NT2	kamini reactor	NT3	irl reactor	NT3	toshiba reactor
NT2	kuca reactor	NT3	irr-1 reactor	NT3	tr-1 reactor
NT2	kuhfr reactor	NT3	irt-2000 djakarta reactor	NT3	tr-2 reactor
NT2	litr reactor	NT3	irt-2000 moscow reactor	NT3	triton reactor
NT2	lwbr type reactors	NT3	irt-c reactor	NT3	trr-1 reactor
NT2	lwor type reactors	NT3	irt-dprk reactor	NT3	tz1 reactor
NT2	maple reactor	NT3	irt-f reactor	NT3	tz2 reactor
NT2	maple type reactors	NT3	irt reactor	NT3	uknr reactor
NT2	mir reactor	NT3	irt-sofia reactor	NT3	umne-1 reactor
NT2	ml-1 reactor	NT3	isis reactor	NT3	umrr reactor
NT2	mnsr type reactors	NT3	ivv-2m reactor	NT3	utr reactor
NT3	entc mnsr reactor	NT3	ivv-7 reactor	NT3	uvar reactor
NT3	gharr-1 reactor	NT3	jen-1 reactor	NT3	uwnr reactor

<b>NT3</b>	vr-1 reactor	<b>NT3</b>	civaux-1 reactor	<b>NT3</b>	harris-4 reactor
<b>NT3</b>	wpir reactor	<b>NT3</b>	civaux-2 reactor	<b>NT3</b>	haven-1 reactor
<b>NT3</b>	wsur reactor	<b>NT3</b>	comanche peak-1 reactor	<b>NT4</b>	koshkonong-1 reactor
<b>NT3</b>	xapr reactor	<b>NT3</b>	comanche peak-2 reactor	<b>NT3</b>	haven-2 reactor
<b>NT2</b>	purnima-3 reactor	<b>NT3</b>	connecticut yankee reactor	<b>NT4</b>	koshkonong-2 reactor
<b>NT2</b>	pwr type reactors	<b>NT3</b>	cook-1 reactor	<b>NT3</b>	hongyanhe-1 reactor
<b>NT3</b>	aguirre reactor	<b>NT3</b>	cook-2 reactor	<b>NT3</b>	hongyanhe-2 reactor
<b>NT3</b>	almaraz-1 reactor	<b>NT3</b>	cruas-1 reactor	<b>NT3</b>	hongyanhe-3 reactor
<b>NT3</b>	almaraz-2 reactor	<b>NT3</b>	cruas-2 reactor	<b>NT3</b>	hongyanhe-4 reactor
<b>NT3</b>	angra-1 reactor	<b>NT3</b>	cruas-3 reactor	<b>NT3</b>	ikata-2 reactor
<b>NT3</b>	angra-2 reactor	<b>NT3</b>	cruas-4 reactor	<b>NT3</b>	ikata-3 reactor
<b>NT3</b>	angra-3 reactor	<b>NT3</b>	crystal river-3 reactor	<b>NT3</b>	ikata reactor
<b>NT3</b>	arkansas-1 reactor	<b>NT3</b>	crystal river-4 reactor	<b>NT3</b>	indian point-1 reactor
<b>NT3</b>	arkansas-2 reactor	<b>NT3</b>	dampierre-1 reactor	<b>NT3</b>	indian point-2 reactor
<b>NT3</b>	asco-1 reactor	<b>NT3</b>	dampierre-2 reactor	<b>NT3</b>	indian point-3 reactor
<b>NT3</b>	asco-2 reactor	<b>NT3</b>	dampierre-3 reactor	<b>NT3</b>	iran-1 reactor
<b>NT3</b>	atlantic-1 reactor	<b>NT3</b>	dampierre-4 reactor	<b>NT3</b>	iran-2 reactor
<b>NT3</b>	atlantic-2 reactor	<b>NT3</b>	davis besse-1 reactor	<b>NT3</b>	isar-2 reactor
<b>NT3</b>	basf-1 reactor	<b>NT3</b>	davis besse-2 reactor	<b>NT3</b>	jamesport-1 reactor
<b>NT3</b>	basf-2 reactor	<b>NT3</b>	davis besse-3 reactor	<b>NT3</b>	jamesport-2 reactor
<b>NT3</b>	beaver valley-1 reactor	<b>NT3</b>	daya bay-1 reactor	<b>NT3</b>	kewaunee reactor
<b>NT3</b>	beaver valley-2 reactor	<b>NT3</b>	daya bay-2 reactor	<b>NT3</b>	koeberg-1 reactor
<b>NT3</b>	bellefonte-1 reactor	<b>NT3</b>	diablo canyon-1 reactor	<b>NT3</b>	koeberg-2 reactor
<b>NT3</b>	bellefonte-2 reactor	<b>NT3</b>	diablo canyon-2 reactor	<b>NT3</b>	kori-1 reactor
<b>NT3</b>	belleville-1 reactor	<b>NT3</b>	doel-1 reactor	<b>NT3</b>	kori-2 reactor
<b>NT3</b>	belleville-2 reactor	<b>NT3</b>	doel-2 reactor	<b>NT3</b>	kori-3 reactor
<b>NT3</b>	beznau-1 reactor	<b>NT3</b>	doel-3 reactor	<b>NT3</b>	kori-4 reactor
<b>NT3</b>	beznau-2 reactor	<b>NT3</b>	doel-4 reactor	<b>NT3</b>	krsko reactor
<b>NT3</b>	biblis-1 reactor	<b>NT3</b>	efdr-50 reactor	<b>NT3</b>	lemoniz-1 reactor
<b>NT3</b>	biblis-2 reactor	<b>NT3</b>	emsland reactor	<b>NT3</b>	lemoniz-2 reactor
<b>NT3</b>	biblis-3 reactor	<b>NT3</b>	erie-1 reactor	<b>NT3</b>	lenin reactor
<b>NT3</b>	biblis-4 reactor	<b>NT3</b>	erie-2 reactor	<b>NT3</b>	leonid brezhnev reactor
<b>NT3</b>	blayais-1 reactor	<b>NT3</b>	fangchenggang-1 reactor	<b>NT3</b>	lingao-1 reactor
<b>NT3</b>	blayais-2 reactor	<b>NT3</b>	fangchenggang-2 reactor	<b>NT3</b>	lingao-2 reactor
<b>NT3</b>	blayais-3 reactor	<b>NT3</b>	fangjiashan-1 reactor	<b>NT3</b>	lingao-3 reactor
<b>NT3</b>	blayais-4 reactor	<b>NT3</b>	fangjiashan-2 reactor	<b>NT3</b>	lingao-4 reactor
<b>NT3</b>	blue hills-1 reactor	<b>NT3</b>	farley-1 reactor	<b>NT3</b>	loft reactor
<b>NT3</b>	blue hills-2 reactor	<b>NT3</b>	farley-2 reactor	<b>NT3</b>	lucie-1 reactor
<b>NT3</b>	borssele reactor	<b>NT3</b>	fessenheim-1 reactor	<b>NT3</b>	lucie-2 reactor
<b>NT3</b>	br-3 reactor	<b>NT3</b>	fessenheim-2 reactor	<b>NT3</b>	maanshan-1 reactor
<b>NT3</b>	braidwood-1 reactor	<b>NT3</b>	flamanville-1 reactor	<b>NT3</b>	maanshan-2 reactor
<b>NT3</b>	braidwood-2 reactor	<b>NT3</b>	flamanville-2 reactor	<b>NT3</b>	maine yankee reactor
<b>NT3</b>	brokdorf reactor	<b>NT3</b>	flamanville-3 reactor	<b>NT3</b>	malibu-1 reactor
<b>NT3</b>	bugey-2 reactor	<b>NT3</b>	forked river-1 reactor	<b>NT3</b>	marble hill-1 reactor
<b>NT3</b>	bugey-3 reactor	<b>NT3</b>	fuqing-1 reactor	<b>NT3</b>	marble hill-2 reactor
<b>NT3</b>	bugey-4 reactor	<b>NT3</b>	fuqing-2 reactor	<b>NT3</b>	mc guire-1 reactor
<b>NT3</b>	bugey-5 reactor	<b>NT3</b>	fuqing-3 reactor	<b>NT3</b>	mc guire-2 reactor
<b>NT3</b>	bw standard reactor	<b>NT3</b>	fuqing-4 reactor	<b>NT3</b>	mh-1a reactor
<b>NT3</b>	byron-1 reactor	<b>NT3</b>	fuqing-5 reactor	<b>NT3</b>	midland-1 reactor
<b>NT3</b>	byron-2 reactor	<b>NT3</b>	fuqing-6 reactor	<b>NT3</b>	midland-2 reactor
<b>NT3</b>	calhoun-1 reactor	<b>NT3</b>	genkai-1 reactor	<b>NT3</b>	mihama-1 reactor
<b>NT3</b>	calhoun-2 reactor	<b>NT3</b>	genkai-2 reactor	<b>NT3</b>	mihama-2 reactor
<b>NT3</b>	callaway-1 reactor	<b>NT3</b>	genkai-3 reactor	<b>NT3</b>	mihama-3 reactor
<b>NT3</b>	callaway-2 reactor	<b>NT3</b>	genkai-4 reactor	<b>NT3</b>	millstone-2 reactor
<b>NT3</b>	calvert cliffs-1 reactor	<b>NT3</b>	ginna-1 reactor	<b>NT3</b>	millstone-3 reactor
<b>NT3</b>	calvert cliffs-2 reactor	<b>NT3</b>	goesgen reactor	<b>NT3</b>	muelheim-kaerlich reactor
<b>NT3</b>	carem 25 reactor	<b>NT3</b>	golfech-1 reactor	<b>NT3</b>	mutsu reactor
<b>NT3</b>	catawba-1 reactor	<b>NT3</b>	golfech-2 reactor	<b>NT3</b>	neckar-1 reactor
<b>NT3</b>	catawba-2 reactor	<b>NT3</b>	grafenrheinfeld reactor	<b>NT3</b>	neckar-2 reactor
<b>NT3</b>	cattenom-1 reactor	<b>NT3</b>	gravelines-1 reactor	<b>NT3</b>	nep-1 reactor
<b>NT3</b>	cattenom-2 reactor	<b>NT3</b>	gravelines-2 reactor	<b>NT3</b>	nep-2 reactor
<b>NT3</b>	cattenom-3 reactor	<b>NT3</b>	gravelines-3 reactor	<b>NT3</b>	neupotz-1 reactor
<b>NT3</b>	cattenom-4 reactor	<b>NT3</b>	gravelines-4 reactor	<b>NT3</b>	neupotz-2 reactor
<b>NT3</b>	ce standard reactor	<b>NT3</b>	gravelines-5 reactor	<b>NT3</b>	ningde-1 reactor
<b>NT3</b>	changjiang-1 reactor	<b>NT3</b>	gravelines-6 reactor	<b>NT3</b>	ningde-2 reactor
<b>NT3</b>	changjiang-2 reactor	<b>NT3</b>	greene county reactor	<b>NT3</b>	ningde-3 reactor
<b>NT3</b>	chasnupp-1 reactor	<b>NT3</b>	greenwood-2 reactor	<b>NT3</b>	ningde-4 reactor
<b>NT3</b>	chasnupp-2 reactor	<b>NT3</b>	greenwood-3 reactor	<b>NT3</b>	nogent-1 reactor
<b>NT3</b>	chasnupp-3 reactor	<b>NT3</b>	grohnde reactor	<b>NT3</b>	nogent-2 reactor
<b>NT3</b>	cherokee-1 reactor	<b>NT3</b>	hamm-uentrop reactor	<b>NT3</b>	north anna-1 reactor
<b>NT3</b>	cherokee-2 reactor	<b>NT3</b>	hanbit-1 reactor	<b>NT3</b>	north anna-2 reactor
<b>NT3</b>	cherokee-3 reactor	<b>NT3</b>	hanbit-2 reactor	<b>NT3</b>	north anna-3 reactor
<b>NT3</b>	chinon-b1 reactor	<b>NT3</b>	hanbit-3 reactor	<b>NT3</b>	north anna-4 reactor
<b>NT3</b>	chinon-b2 reactor	<b>NT3</b>	hanbit-4 reactor	<b>NT3</b>	north coast-1 reactor
<b>NT3</b>	chinon-b3 reactor	<b>NT3</b>	hanbit-5 reactor	<b>NT3</b>	obrigheim reactor
<b>NT3</b>	chinon-b4 reactor	<b>NT3</b>	hanbit-6 reactor	<b>NT3</b>	oconee-1 reactor
<b>NT3</b>	chooz-a reactor	<b>NT3</b>	harris-1 reactor	<b>NT3</b>	oconee-2 reactor
<b>NT3</b>	chooz-b1 reactor	<b>NT3</b>	harris-2 reactor	<b>NT3</b>	oconee-3 reactor
<b>NT3</b>	chooz-b2 reactor	<b>NT3</b>	harris-3 reactor	<b>NT3</b>	oi-1 reactor

NT3	oi-2 reactor	NT3	south texas project-2 reactor	NT4	greifswald-2 reactor
NT3	oi-3 reactor	NT3	stade reactor	NT4	greifswald-3 reactor
NT3	oi-4 reactor	NT3	sterling-1 reactor	NT4	greifswald-4 reactor
NT3	oktembryan-2 reactor	NT3	sterling-2 reactor	NT4	greifswald-5 reactor
NT3	olkiluoto-3 reactor	NT3	summer-1 reactor	NT4	greifswald-6 reactor
NT3	otto hahn reactor	NT3	sundesert-1 reactor	NT4	juragua-1 reactor
NT3	palisades-1 reactor	NT3	sundesert-2 reactor	NT4	kalinin-1 reactor
NT3	palo verde-1 reactor	NT3	surry-1 reactor	NT4	kalinin-2 reactor
NT3	palo verde-2 reactor	NT3	surry-2 reactor	NT4	kalinin-3 reactor
NT3	palo verde-3 reactor	NT3	surry-3 reactor	NT4	kalinin-4 reactor
NT3	palo verde-4 reactor	NT3	surry-4 reactor	NT4	kecerovce-1 reactor
NT3	palo verde-5 reactor	NT3	takahama-1 reactor	NT4	khmelnitskij-1 reactor
NT3	paluel-1 reactor	NT3	takahama-2 reactor	NT4	khmelnitskij-2 reactor
NT3	paluel-2 reactor	NT3	takahama-3 reactor	NT4	kola-1 reactor
NT3	paluel-3 reactor	NT3	takahama-4 reactor	NT4	kola-2 reactor
NT3	paluel-4 reactor	NT3	three mile island-1 reactor	NT4	kola-3 reactor
NT3	pat reactor	NT3	three mile island-2 reactor	NT4	kola-4 reactor
NT3	pebble springs-1 reactor	NT3	tihange-2 reactor	NT4	kozloduy-1 reactor
NT3	pebble springs-2 reactor	NT3	tihange-3 reactor	NT4	kozloduy-2 reactor
NT3	penly-1 reactor	NT3	tihange reactor	NT4	kozloduy-3 reactor
NT3	penly-2 reactor	NT3	tomari-1 reactor	NT4	kozloduy-4 reactor
NT3	penly-3 reactor	NT3	tomari-2 reactor	NT4	kozloduy-5 reactor
NT3	perkins-1 reactor	NT3	tomari-3 reactor	NT4	kozloduy-6 reactor
NT3	perkins-2 reactor	NT3	tricastin-1 reactor	NT4	kudankulam-1 reactor
NT3	perkins-3 reactor	NT3	tricastin-2 reactor	NT4	kudankulam-2 reactor
NT3	philippsburg-2 reactor	NT3	tricastin-3 reactor	NT4	loviisa-1 reactor
NT3	pilgrim-2 reactor	NT3	tricastin-4 reactor	NT4	loviisa-2 reactor
NT3	pilgrim-3 reactor	NT3	trillo-1 reactor	NT4	mochovce-1 reactor
NT3	pm-2a reactor	NT3	trojan reactor	NT4	mochovce-2 reactor
NT3	pm-3a reactor	NT3	tsuruga-2 reactor	NT4	novovoronezh-1 reactor
NT3	pnp-1 reactor	NT3	turkey point-3 reactor	NT4	novovoronezh-2 reactor
NT3	point beach-1 reactor	NT3	turkey point-4 reactor	NT4	novovoronezh-3 reactor
NT3	point beach-2 reactor	NT3	tva-1 reactor	NT4	novovoronezh-4 reactor
NT3	prairie island-1 reactor	NT3	tva-2 reactor	NT4	novovoronezh-5 reactor
NT3	prairie island-2 reactor	NT3	tyrone-1 reactor	NT4	paks-1 reactor
NT3	qinshan-1 reactor	NT3	tyrone-2 reactor	NT4	paks-2 reactor
NT3	qinshan-2-1 reactor	NT3	ulchin-1 reactor	NT4	paks-3 reactor
NT3	qinshan-2-2 reactor	NT3	ulchin-2 reactor	NT4	paks-4 reactor
NT3	qinshan-2-3 reactor	NT3	ulchin-3 reactor	NT4	rostov-1 reactor
NT3	qinshan-2-4 reactor	NT3	ulchin-4 reactor	NT4	rostov-2 reactor
NT3	quanicasse-1 reactor	NT3	ulchin-5 reactor	NT4	rostov-3 reactor
NT3	quanicasse-2 reactor	NT3	ulchin-6 reactor	NT4	rovno-1 reactor
NT3	rancho seco-1 reactor	NT3	unterweser reactor	NT4	rovno-2 reactor
NT3	remerschen reactor	NT3	vahnum-1 reactor	NT4	rovno-3 reactor
NT3	rheinsberg akw1 reactor	NT3	vahnum-2 reactor	NT4	rovno-4 reactor
NT3	ringhals-2 reactor	NT3	vandellos-2 reactor	NT4	rovno-5 reactor
NT3	ringhals-3 reactor	NT3	vogtle-1 reactor	NT4	south ukrainian-1 reactor
NT3	ringhals-4 reactor	NT3	vogtle-2 reactor	NT4	south ukrainian-2 reactor
NT3	robinson-2 reactor	NT3	vogtle-3 reactor	NT4	south ukrainian-3 reactor
NT3	rooppur reactor	NT3	vogtle-4 reactor	NT4	stendal-1 reactor
NT3	rowe yankee reactor	NT3	waterford-3 reactor	NT4	tatarian reactor
NT3	s1c prototype reactor	NT3	waterford-4 reactor	NT4	temelin-1 reactor
NT3	saint alban-1 reactor	NT3	watts bar-1 reactor	NT4	temelin-2 reactor
NT3	saint alban-2 reactor	NT3	watts bar-2 reactor	NT4	tianwan-1 reactor
NT3	saint laurent-b1 reactor	NT3	westinghouse standard reactor	NT4	tianwan-2 reactor
NT3	saint laurent-b2 reactor	NT3	wnp-1 reactor	NT4	zaporozhe-1 reactor
NT3	salem-1 reactor	NT3	wnp-3 reactor	NT4	zaporozhe-2 reactor
NT3	salem-2 reactor	NT3	wnp-4 reactor	NT4	zaporozhe-3 reactor
NT3	san onofre-1 reactor	NT3	wnp-5 reactor	NT4	zaporozhe-4 reactor
NT3	san onofre-2 reactor	NT3	wolf creek-1 reactor	NT4	zaporozhe-5 reactor
NT3	san onofre-3 reactor	NT3	wup-3 reactor	NT4	zaporozhe-6 reactor
NT3	savannah reactor	NT3	wup-4 reactor	NT3	wyhl-1 reactor
NT3	saxton reactor	NT3	wup-5 reactor	NT3	wyhl-2 reactor
NT3	seabrook-1 reactor	NT3	wup-6 reactor	NT3	yangjiang-1 reactor
NT3	seabrook-2 reactor	NT3	wwer type reactors	NT3	yangjiang-2 reactor
NT3	selni reactor	NT4	armenian-1 reactor	NT3	yangjiang-3 reactor
NT3	sendai-1 reactor	NT4	armenian-2 reactor	NT3	yangjiang-4 reactor
NT3	sendai-2 reactor	NT4	balakovo-1 reactor	NT3	yellow creek-1 reactor
NT3	sequoyah-1 reactor	NT4	balakovo-2 reactor	NT3	yellow creek-2 reactor
NT3	sequoyah-2 reactor	NT4	balakovo-3 reactor	NT3	zion-1 reactor
NT3	shin-kori-1 reactor	NT4	balakovo-4 reactor	NT3	zion-2 reactor
NT3	shin-kori-2 reactor	NT4	blahutovice-1 reactor	NT3	zorita-1 reactor
NT3	shin-kori-3 reactor	NT4	bohunice v-1 reactor	NT2	r-2 reactor
NT3	shin-wolsong-1 reactor	NT4	bohunice v-2 reactor	NT2	ra-5 reactor
NT3	shippingport reactor	NT4	dukovany-1 reactor	NT2	rake-2 reactor
NT3	sizewell-b reactor	NT4	dukovany-2 reactor	NT2	rg-1m reactor
NT3	sm-1 reactor	NT4	dukovany-3 reactor	NT2	safari-1 reactor
NT3	sm-1a reactor	NT4	dukovany-4 reactor	NT2	sm-1 subcritical assembly
NT3	south texas project-1 reactor	NT4	greifswald-1 reactor	NT2	sm-2 reactor

**NT2** spert-1 reactor  
**NT2** spert-2 reactor  
**NT2** spert-3 reactor  
**NT2** sr-1 reactor  
**NT2** sr-0a reactor  
**NT2** tca reactor  
**NT2** triga type reactors  
**NT3** afri reactor  
**NT3** atpr reactor  
**NT3** colorado triga-mk-3 reactor  
**NT3** cornell triga-mk-2 reactor  
**NT3** dow triga-mk-1 reactor  
**NT3** fir-1 reactor  
**NT3** frf-2 reactor  
**NT3** frm reactor  
**NT3** gulf triga-mk-3 reactor  
**NT3** kartini-ppny reactor  
**NT3** lopra reactor  
**NT3** nscr reactor  
**NT3** ostr reactor  
**NT3** prpr reactor  
**NT3** psbr reactor  
**NT3** rtp reactor  
**NT3** trico ii reactor  
**NT3** trico reactor  
**NT3** triga-1-arizona reactor  
**NT3** triga-1-california reactor  
**NT3** triga-1-hanford reactor  
**NT3** triga-1-hanover reactor  
**NT3** triga-1-heidelberg reactor  
**NT3** triga-1-michigan reactor  
**NT3** triga-2-bandung reactor  
**NT3** triga-2-bangladesh reactor  
**NT3** triga-2-dalat reactor  
**NT3** triga-2-illinois reactor  
**NT3** triga-2-kansas reactor  
**NT3** triga-2-ljubljana reactor  
**NT3** triga-2-mainz reactor  
**NT3** triga-2-musashi reactor  
**NT3** triga-2-pavia reactor  
**NT3** triga-2-pitesti reactor  
**NT3** triga-2 reactor  
**NT3** triga-2-rikkyo reactor  
**NT3** triga-2-rome reactor  
**NT3** triga-2-seoul reactor  
**NT3** triga-2-vienna reactor  
**NT3** triga-3-la jolla reactor  
**NT3** triga-3-munich reactor  
**NT3** triga-3-salazar reactor  
**NT3** triga-3-seoul reactor  
**NT3** triga-brazil reactor  
**NT3** triga-texas reactor  
**NT3** triga-veterans reactor  
**NT3** ucbr reactor  
**NT3** uwnr reactor  
**NT3** wsur reactor  
**NT2** tsr-2 reactor  
**NT2** twmr reactor  
**NT2** voronezh ast-500 reactor  
**NT2** wnt reactor  
**NT2** wtr reactor  
**NT2** wwr type reactors  
**NT3** budapest training reactor  
**NT3** irt-1 libya reactor  
**NT3** irt-baghdad reactor  
**NT3** lvr-15 reactor  
**NT3** wwr-2 reactor  
**NT3** wwr-k-almaty reactor  
**NT3** wwr-m-kiev reactor  
**NT3** wwr-m-leningrad reactor  
**NT3** wwr-s-bucharest reactor  
**NT3** wwr-s-budapest reactor  
**NT3** wwr-s-cairo reactor  
**NT3** wwr-s-moscow reactor  
**NT3** wwr-s-prague reactor  
**NT3** wwr-s-tashkent reactor  
**NT3** wwr-sm rossendorf reactor  
**NT3** wwr-z reactor  
**NT2** zlfr reactor

**RT** criticality  
**RT** excursions  
**RT** fission  
**RT** fission products  
**RT** fuel elements  
**RT** hybrid reactors  
**RT** natural nuclear reactors  
**RT** nuclear engineering  
**RT** nuclear fuels  
**RT** reactor neutrinos  
**RT** reactor safety  
**RT** reactor technology  
**RT** spent fuels

## READOUT SYSTEMS

**RT** data acquisition systems  
**RT** recording systems

## REAGENTS

1996-10-23

**NT1** 1-nitroso-2-naphthol  
**NT1** acetylacetone  
**NT1** alizarin  
**NT1** arsenazo  
**NT1** bromosulfophthalein  
**NT1** cupferron  
**NT1** dimethylglyoxime  
**NT1** dithiols  
**NT2** dimercaprol  
**NT2** unithiol  
**NT1** dithizone  
**NT1** evans blue  
**NT1** ferroin  
**NT1** ferrous  
**NT1** morin  
**NT1** phenanthroline-ortho  
**NT1** pyridylazoresorcinol  
**NT1** rhodamines  
**NT1** rhodizonic acid  
**NT1** rose bengal  
**NT1** sensitizers  
**NT1** starch  
**NT1** thionalide  
**NT1** thorin  
**NT1** tiron  
**RT** reducing agents

## REAKTORSICHERHEITSKOMMISSION

INIS: 1978-01-13; ETDE: 1978-03-03

\*BT1 german fr organizations

## REAL TIME SYSTEMS

**NT1** mwd systems  
**RT** analog systems  
**RT** computer architecture  
**RT** computer networks  
**RT** computers  
**RT** control systems  
**RT** on-line control systems  
**RT** on-line systems  
**RT** process computers  
**RT** transfer functions

## REARING

**NT1** mass rearing  
**RT** animal growth  
**RT** diet  
**RT** domestic animals  
**RT** insects  
**RT** nutrition

## reattore bologna-1

USE rb-1 reactor

## reattore bologna-2

USE rb-2 reactor

## reattore bologna-3

USE rb-3 reactor

## reattore casaccia-1

USE triga-2-rome reactor

## reattore casaccia-4

USE ritmo reactor

## reattore organico sperimentale

### potenza zero

2000-04-12

USE rospo reactor

## RECEIPTS

INIS: 2000-04-12; ETDE: 1980-08-12

**RT** fuel supplies

**RT** trade

## receivers (solar)

INIS: 1992-05-29; ETDE: 1979-09-26

USE solar receivers

## RECEPTORS

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 membrane proteins

**RT** biochemistry

**RT** bioelectricity

**RT** calmodulin

**RT** central nervous system

**RT** endocrine glands

**RT** enzymes

**RT** hippocampus

**RT** hormones

**RT** immunity

**RT** nerve cells

**RT** radioreceptor assay

**RT** sense organs

**RT** tamoxifen

## RECESSIVE MUTATIONS

BT1 mutations

## rech-1 reactor

2018-05-30

USE la reina rech-1 reactor

## rech-2 reactor

2018-05-30

USE lo aguirre rech-2 reactor

## recharge

INIS: 2000-04-12; ETDE: 1995-05-09

SEE groundwater recharge

## reciprocal translocations

USE chromosomal aberrations

## RECIPROCAL V LAW

INIS: 1975-09-26; ETDE: 1975-10-28

UF 1/v law

**RT** cross sections

## reclamation

INIS: 2000-04-12; ETDE: 1979-12-10

SEE land reclamation

## recoil chemistry

USE hot atom chemistry

## recoil distance method

INIS: 1984-01-18; ETDE: 1984-02-10

Method for the determination of lifetimes of nuclear levels.

USE charge plunger method

## RECOILLESS FRACTION

2000-04-12

**RT** moessbauer effect

## RECOILS

1995-05-09

**RT** chemical state

**RT** delta rays

**RT** fission



RT hot atom chemistry  
 RT knock-on  
 RT knock-out reactions  
 RT moessbauer effect  
 RT proton detection  
 RT proton recoil detectors  
 RT radiation effects

**RECOMBINANT DNA**

INIS: 1984-07-20; ETDE: 1981-04-17

\*BT1 dna  
 RT biotechnology  
 RT crossing-over  
 RT dna hybridization  
 RT gene amplification  
 RT gene mutations  
 RT gene recombination  
 RT oligonucleotides

**RECOMBINATION**

*Of electrons, holes, ions, radicals or atoms.*

UF neutralization (physical)  
 RT electron capture  
 RT radiation chemistry

**recombination (genetic)**

USE gene recombination

**RECOMBINERS**

RT reactor cooling systems  
 RT water

**RECOMMENDATIONS**

UF guidelines  
 UF radiation protection guides  
 RT agreements  
 RT cen  
 RT compliance  
 RT iaea  
 RT icrp  
 RT icru  
 RT implementation  
 RT inspection  
 RT international electrotechnical commission  
 RT iso  
 RT legal aspects  
 RT licensing  
 RT manuals  
 RT radiation protection  
 RT reference man  
 RT regulations  
 RT regulatory guides  
 RT research programs  
 RT safety standards  
 RT solas convention

**recorded information**

2000-03-28  
 SEE data

**RECORDING SYSTEMS**

RT counting techniques  
 RT data acquisition  
 RT data acquisition systems  
 RT data processing  
 RT electrocardiograms  
 RT electronic equipment  
 RT measuring instruments  
 RT readout systems

**RECORDS MANAGEMENT**

INIS: 1992-04-02; ETDE: 1983-11-09

BT1 management  
 RT information

**records retrieval**

USE information retrieval

**recovery**

2000-04-12

(Prior to June 1992 this was a valid ETDE descriptor.)

SEE biological recovery  
 SEE energy recovery  
 SEE enhanced recovery  
 SEE materials recovery  
 SEE primary recovery  
 SEE seed recovery  
 SEE tritium recovery

**recovery (biological)**

USE biological recovery

**recovery (tritium)**

ETDE: 1975-09-11

USE tritium recovery

**RECREATIONAL AREAS**

INIS: 1985-09-09; ETDE: 1977-06-21

SF parks  
 RT aesthetics  
 RT environment  
 RT land use  
 RT public lands  
 RT recreational vehicles  
 RT sport facilities  
 RT tourism

**RECREATIONAL VEHICLES**

INIS: 2000-04-12; ETDE: 1979-07-18

BT1 vehicles  
 RT motorboats  
 RT occupants  
 RT recreational areas

**RECRYSTALLIZATION**

RT annealing  
 RT crystallization  
 RT grain growth  
 RT heat treatments

**RECTAL ADMINISTRATION**

INIS: 1975-10-29; ETDE: 1976-08-24

BT1 intake  
 RT intestinal absorption  
 RT uptake

**RECTANGULAR CONFIGURATION**

BT1 configuration  
 NT1 square configuration  
 RT plates

**RECTENNAS**

2000-04-12

*A device that converts microwave energy into direct current.*

\*BT1 antennas  
 RT microwave power transmission

**RECTIFIER TUBES**

1996-06-26

(Prior to June 1996 CAPACITRONS was a valid ETDE descriptor.)

UF capacitors  
 BT1 electron tubes  
 \*BT1 rectifiers  
 NT1 ignitrons  
 RT thyatrons

**RECTIFIERS**

UF ac to dc converters  
 \*BT1 electrical equipment  
 NT1 rectifier tubes  
 NT2 ignitrons  
 NT1 semiconductor rectifiers  
 RT dc to dc converters  
 RT thyristors

**RECTISOL PROCESS**

2000-04-12

*Process using methanol as solvent for removal of carbon dioxide, hydrogen sulfide, ammonia, HCN, gum formers, higher hydrocarbons, and other impurities from crude gas produced by coal gasification for syngas or sng manufacture; removal of hydrogen sulfide, COS and carbon dioxide from reformed gas, in particular from gas produced by partial oxidation of hydrocarbons, to yield synthesis gas; and integration of gas purification with low-temperature plants (liquefaction and fractionation) for removal of moderate contents of acidic components.*

\*BT1 desulfurization  
 RT sasol-ii process

**RECTUM**

\*BT1 large intestine  
 RT feces  
 RT pelvis  
 RT proctitis

**recurrence relations**

INIS: 1984-04-04; ETDE: 2002-05-03

USE recursion relations

**RECURSION RELATIONS**

UF recurrence relations  
 RT differential equations  
 RT functions

**recycle (nuclear fuel)**

USE fuel cycle

**RECYCLING**

INIS: 1981-05-11; ETDE: 1975-11-11

RT energy conservation  
 RT materials handling  
 RT materials recovery  
 RT resource conservation  
 RT scrap  
 RT thermonuclear fuels  
 RT waste oil refineries  
 RT waste oils  
 RT waste processing  
 RT wastes

**recycling (nuclear fuel)**

2000-04-12

USE reprocessing

**RED DWARF STARS**

\*BT1 dwarf stars

**RED GIANT STARS**

\*BT1 giant stars  
 RT helium burning

**red level-3 reactor**

ETDE: 2002-05-03

USE crystal river-3 reactor

**red level-4 reactor**

ETDE: 2002-05-03

USE crystal river-4 reactor

**red peppers**

INIS: 1984-04-04; ETDE: 2001-01-23

USE peppers

**RED SEA**

\*BT1 seas  
 NT1 gulf of suex  
 RT egyptian arab republic  
 RT sudan

**RED SHIFT**

INIS: 1975-10-31; ETDE: 1975-12-17

RT astrophysics  
 RT cosmology

RT doppler effect  
 RT einstein effect  
 RT hubble effect

**red wing prairie island-1 reactor**

INIS: 1993-11-09; ETDE: 2002-05-03  
 USE prairie island-1 reactor

**red wing prairie island-2 reactor**

INIS: 1993-11-09; ETDE: 2002-05-03  
 USE prairie island-2 reactor

**REDD**

2013-04-29  
*A set of steps designed to use market and financial incentives in order to reduce the emissions of greenhouse gases from deforestation and forest degradation.*  
 UF *reducing emissions from deforestation and forest degradation*  
 RT air pollution abatement  
 RT deforestation  
 RT emissions trading  
 RT forests  
 RT greenhouse gases  
 RT unfccc

**redmud event**

INIS: 2000-04-12; ETDE: 1979-12-10  
*A test made during OPERATION FULCRUM. (Prior to September 1994, this was a valid ETDE descriptor.)*  
 USE nuclear explosions  
 USE underground explosions

**REDOX FLOW BATTERIES**

2007-05-16  
 \*BT1 electric batteries  
 RT redox fuel cells

**REDOX FUEL CELLS**

INIS: 1992-05-20; ETDE: 1975-08-19  
 \*BT1 regenerative fuel cells  
 RT off-peak energy storage  
 RT redox flow batteries

**REDOX POTENTIAL**

UF *eh (redox potential)*  
 RT oxidation  
 RT potentiometry  
 RT reduction  
 RT valence

**REDOX PROCESS**

\*BT1 reprocessing  
 RT ascorbic acid  
 RT coenzymes  
 RT cytochromes  
 RT oxidoreductases  
 RT solvent extraction

**REDOX REACTIONS**

1992-01-21  
 UF *oxidation-reduction*  
 UF *oxygen reduction reactions*  
 BT1 chemical reactions  
 RT hydroaromatics  
 RT oxidation  
 RT reduction

**reduced nicotinamide-adenine dinucleotide**

INIS: 2000-04-12; ETDE: 1980-06-22  
 USE nadh2

**REDUCING AGENTS**

INIS: 1980-11-07; ETDE: 1976-09-14  
 RT reagents  
 RT reduction

**reducing emissions from deforestation and forest degradation**

2013-04-29  
 USE redd

**reductases**

USE oxidoreductases

**REDUCTION**

*For chemical reactions only; for size or volume change, see COMPRESSION, SHRINKAGE, or CONTRACTION.*

UF *deoxidation*  
 UF *disproportionation*  
 BT1 chemical reactions  
 NT1 bomb reduction  
 NT1 selective catalytic reduction  
 NT1 thermite process  
 RT jones reductor  
 RT kroll process  
 RT methanation  
 RT oxidation  
 RT oxidoreductases  
 RT pyrometallurgy  
 RT redox potential  
 RT redox reactions  
 RT reducing agents

**REDUCTIVE EXTRACTION**

1999-07-14  
 \*BT1 extraction  
 RT molten salt reactors

**reductive perturbation method**

USE perturbation theory

**REDUNDANCY**

2004-02-18  
*The existence of more than one means in a system to accomplish a certain purpose, in order to increase reliability; e.g. parallel devices in an engineered system, multiple organs in a biological system, several copies of data in an information system. Coordinate with specific descriptor for the system/organ/data that is redundant.*  
 RT biological evolution  
 RT communications  
 RT computerized control systems  
 RT data  
 RT failure mode analysis  
 RT information theory  
 RT reliability

**REDWING PROJECT**

UF *project redwing*  
 RT atmospheric explosions  
 RT bikini  
 RT nuclear explosions  
 RT nuclear weapons  
 RT surface explosions

**REEDS**

INIS: 2000-04-06; ETDE: 1986-01-14  
 \*BT1 gramineae  
 NT1 sugar cane

**REEFS**

INIS: 1992-06-04; ETDE: 1980-04-14  
*Chains of rocks or sand near the surface of water.*  
 BT1 geologic structures  
 NT1 coral reefs  
 RT rocks  
 RT sand  
 RT seas

**REENTRY**

UF *re-entry*  
 RT ablation  
 RT aerodynamics

RT missiles  
 RT parachutes  
 RT plasma sheath  
 RT rockets  
 RT space flight  
 RT space vehicles

**REENTRY VEHICLES**

INIS: 1993-03-23; ETDE: 1975-12-16

\*BT1 space vehicles  
 RT flight testing  
 RT missiles

**REFERENCE MAN**

UF *standard man*  
 RT adults  
 RT icrp  
 RT man  
 RT radiation protection  
 RT recommendations

**reference materials (bio mark)**

INIS: 1984-10-23; ETDE: 1984-11-08  
 USE biological markers

**reference materials (standard)**

INIS: 1984-10-23; ETDE: 1984-11-08  
 USE calibration standards

**REFERENCE THETA PINCH REACTOR**

\*BT1 pulsed d-t reactors  
 RT theta pinch  
 RT toroidal theta pinch devices

**refinement (grain)**

USE grain refinement

**refiner-marketers**

INIS: 1992-04-03; ETDE: 1979-10-03  
 USE marketers

**REFINERY GASES**

INIS: 2000-04-12; ETDE: 1976-01-23  
*Boiling point range -160 to 0 degrees C.*  
 UF *still gas*  
 \*BT1 gases  
 \*BT1 petroleum fractions  
 BT1 petroleum products  
 RT fuel gas  
 RT natural gas  
 RT petroleum refineries

**REFINING**

2000-02-01  
 UF *aurabon process*  
 BT1 processing  
 NT1 electrorefining  
 NT1 gulf hds process  
 NT1 zone refining  
 RT catalytic reforming  
 RT chloride volatility process  
 RT dewaxing  
 RT enrichment  
 RT extractive metallurgy  
 RT fluoride volatility process  
 RT ore processing  
 RT petroleum products  
 RT purification  
 RT separation processes  
 RT sublimation

**reflectance (spectral)**

INIS: 1984-04-04; ETDE: 2002-05-03  
 USE spectral reflectance

**REFLECTION**

NT1 bragg reflection  
 NT1 optical reflection  
 RT albedo  
 RT backscattering  
 RT electrostatic mirrors

RT greenhouse effect  
 RT incidence angle  
 RT mirrors  
 RT parabolic reflectors

**REFLECTIVE COATINGS**

INIS: 1985-01-17; ETDE: 1979-02-23

BT1 coatings  
 RT antireflection coatings  
 RT heat mirrors  
 RT optical properties  
 RT solar control films

**REFLECTIVITY**

1992-02-23

\*BT1 optical properties  
 BT1 surface properties  
 RT scanning light microscopy  
 RT spectral reflectance  
 RT visible radiation

**REFLECTOR SAVINGS**

A measure of the decrease in the critical size of a reactor as a consequence of the reflector.

RT configuration control  
 RT critical mass  
 RT critical size  
 RT criticality  
 RT neutron reflectors

**reflectors (neutron)**

USE neutron reflectors

**reflex switches**

INIS: 1986-01-21; ETDE: 2002-05-03

Switches employing a current-conducting plasma for operation.

USE plasma switches

**REFLEXES**

NT1 conditioned reflexes  
 RT behavior  
 RT nerves  
 RT nervous system  
 RT sense organs  
 RT spinal cord

**REFORMER PROCESSES**

INIS: 2000-04-12; ETDE: 1975-08-19

BT1 chemical reactions  
 NT1 autothermal reformer processes  
 NT1 catalytic reforming  
 NT1 steam reformer processes  
 RT hydrogen production

**refractaloy**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE chromium alloys  
 USE iron alloys  
 USE molybdenum alloys  
 USE nickel alloys

**REFRACTION**

NT1 birefringence  
 RT fresnel coefficient  
 RT incidence angle  
 RT optical dispersion  
 RT optical properties  
 RT refractive index  
 RT schlieren method  
 RT wave propagation

**REFRACTIVE INDEX**

INIS: 1976-05-05; ETDE: 1991-08-14

UF index of refraction  
 UF refractivity  
 \*BT1 optical properties  
 RT fresnel coefficient  
 RT optical dispersion  
 RT refraction

RT wave propagation

**refractivity**

INIS: 1976-03-25; ETDE: 1975-09-11

(Prior to January 1983 this concept was indexed by REFRACTION.)

USE refractive index

**REFRACTORIES**

RT ablation  
 RT asbestos  
 RT ceramics  
 RT cermets  
 RT graphite  
 RT heat resistant materials  
 RT heat resisting alloys  
 RT refractory metals

**refractory alloys**

INIS: 2003-01-06; ETDE: 2002-05-03

USE heat resisting alloys

**REFRACTORY METAL COMPOUNDS**

INIS: 2000-04-12; ETDE: 1984-11-09

NT1 hafnium compounds  
 NT2 hafnates  
 NT2 hafnium arsenides  
 NT2 hafnium borides  
 NT2 hafnium carbides  
 NT2 hafnium halides  
 NT3 hafnium bromides  
 NT3 hafnium chlorides  
 NT3 hafnium fluorides  
 NT3 hafnium iodides  
 NT2 hafnium hydrides  
 NT2 hafnium hydroxides  
 NT2 hafnium nitrates  
 NT2 hafnium nitrides  
 NT2 hafnium oxides  
 NT2 hafnium perchlorates  
 NT2 hafnium phosphates  
 NT2 hafnium phosphides  
 NT2 hafnium selenides  
 NT2 hafnium silicates  
 NT2 hafnium silicides  
 NT2 hafnium sulfates  
 NT2 hafnium sulfides  
 NT2 hafnium tellurides  
 NT2 hafnium tungstates

NT1 iridium compounds  
 NT2 iridium borides  
 NT2 iridium carbides  
 NT2 iridium halides  
 NT3 iridium chlorides  
 NT3 iridium fluorides  
 NT2 iridium hydrides  
 NT2 iridium nitrides  
 NT2 iridium oxides  
 NT2 iridium silicides  
 NT2 iridium sulfates  
 NT2 iridium tellurides

NT1 molybdenum compounds  
 NT2 molybdates  
 NT2 molybdenum arsenides  
 NT2 molybdenum borides  
 NT2 molybdenum carbides  
 NT2 molybdenum carbonates  
 NT2 molybdenum halides  
 NT3 molybdenum bromides  
 NT3 molybdenum chlorides  
 NT3 molybdenum fluorides  
 NT3 molybdenum iodides  
 NT2 molybdenum hydrides  
 NT2 molybdenum hydroxides  
 NT2 molybdenum nitrates  
 NT2 molybdenum nitrides  
 NT2 molybdenum oxides  
 NT3 molybdenum blue  
 NT2 molybdenum phosphates

NT2 molybdenum phosphides  
 NT2 molybdenum selenides  
 NT2 molybdenum silicates  
 NT2 molybdenum silicides  
 NT2 molybdenum sulfates  
 NT2 molybdenum sulfides  
 NT2 molybdenum tellurides  
 NT2 molybdic acid  
 NT2 molybdophosphates  
 NT2 molybdophosphoric acid

NT1 niobium compounds

NT2 niobates  
 NT2 niobium arsenides  
 NT2 niobium borides  
 NT2 niobium bromides  
 NT2 niobium carbides  
 NT2 niobium chlorides  
 NT2 niobium fluorides  
 NT2 niobium halides  
 NT3 niobium bromides  
 NT3 niobium chlorides  
 NT3 niobium fluorides  
 NT3 niobium iodides

NT2 niobium hydrides  
 NT2 niobium hydroxides  
 NT2 niobium iodides  
 NT2 niobium nitrates  
 NT2 niobium nitrides  
 NT2 niobium oxides  
 NT2 niobium phosphates  
 NT2 niobium phosphides  
 NT2 niobium selenides  
 NT2 niobium silicates  
 NT2 niobium silicides  
 NT2 niobium sulfates  
 NT2 niobium sulfides  
 NT2 niobium tellurides

NT1 osmium compounds

NT2 osmium borides  
 NT2 osmium carbides  
 NT2 osmium halides  
 NT3 osmium chlorides  
 NT3 osmium fluorides  
 NT2 osmium nitrides  
 NT2 osmium oxides  
 NT2 osmium phosphides  
 NT2 osmium sulfates  
 NT2 osmium sulfides

NT1 rhenium compounds

NT2 perrhenates  
 NT2 rhenates  
 NT2 rhenium borides  
 NT2 rhenium carbides  
 NT2 rhenium carbonates  
 NT2 rhenium halides  
 NT3 rhenium bromides  
 NT3 rhenium chlorides  
 NT3 rhenium fluorides  
 NT3 rhenium iodides  
 NT2 rhenium hydrides  
 NT2 rhenium hydroxides  
 NT2 rhenium nitrides  
 NT2 rhenium oxides  
 NT2 rhenium selenides  
 NT2 rhenium silicides  
 NT2 rhenium sulfates  
 NT2 rhenium sulfides  
 NT2 rhenium tellurides

NT1 rhodium compounds

NT2 rhodium arsenides  
 NT2 rhodium borides  
 NT2 rhodium carbides  
 NT2 rhodium halides  
 NT3 rhodium bromides  
 NT3 rhodium chlorides  
 NT3 rhodium fluorides  
 NT2 rhodium hydrides  
 NT2 rhodium hydroxides  
 NT2 rhodium nitrates

NT2 rhodium nitrides  
 NT2 rhodium oxides  
 NT2 rhodium phosphides  
 NT2 rhodium selenides  
 NT2 rhodium silicides  
 NT2 rhodium sulfides  
 NT2 rhodium tellurides  
 NT1 ruthenium compounds  
 NT2 ruthenium arsenides  
 NT2 ruthenium borides  
 NT2 ruthenium carbides  
 NT2 ruthenium halides  
   NT3 ruthenium bromides  
   NT3 ruthenium chlorides  
   NT3 ruthenium fluorides  
 NT2 ruthenium hydrides  
 NT2 ruthenium hydroxides  
 NT2 ruthenium nitrates  
 NT2 ruthenium nitrides  
 NT2 ruthenium nitrosyls  
 NT2 ruthenium oxides  
 NT2 ruthenium phosphides  
 NT2 ruthenium selenides  
 NT2 ruthenium silicides  
 NT2 ruthenium sulfates  
 NT2 ruthenium sulfides  
 NT2 ruthenium tellurides  
 NT1 tantalum compounds  
 NT2 tantalates  
 NT2 tantalum arsenides  
 NT2 tantalum borides  
 NT2 tantalum carbides  
 NT2 tantalum halides  
   NT3 tantalum bromides  
   NT3 tantalum chlorides  
   NT3 tantalum fluorides  
   NT3 tantalum iodides  
 NT2 tantalum hydrides  
 NT2 tantalum hydroxides  
 NT2 tantalum nitrides  
 NT2 tantalum oxides  
 NT2 tantalum phosphates  
 NT2 tantalum phosphides  
 NT2 tantalum selenides  
 NT2 tantalum silicates  
 NT2 tantalum silicides  
 NT2 tantalum sulfates  
 NT2 tantalum sulfides  
 NT2 tantalum tellurides  
 NT2 tantalum tungstates  
 NT1 technetium compounds  
 NT2 pertechnetates  
 NT2 technetates  
 NT2 technetium carbides  
 NT2 technetium halides  
   NT3 technetium bromides  
   NT3 technetium chlorides  
   NT3 technetium fluorides  
   NT3 technetium iodides  
 NT2 technetium hydrides  
 NT2 technetium oxides  
 NT2 technetium phosphates  
 NT2 technetium selenides  
 NT2 technetium sulfides  
 NT2 technetium tellurides  
 NT1 tungsten compounds  
   NT2 tungstates  
     NT3 aluminium tungstates  
     NT3 ammonium tungstates  
     NT3 barium tungstates  
     NT3 bismuth tungstates  
     NT3 cadmium tungstates  
     NT3 calcium tungstates  
     NT3 cerium tungstates  
     NT3 cesium tungstates  
     NT3 cobalt tungstates  
     NT3 copper tungstates  
     NT3 dysprosium tungstates  
     NT3 erbium tungstates  
     NT3 gadolinium tungstates  
     NT3 hafnium tungstates  
     NT3 indium tungstates  
     NT3 iron tungstates  
     NT3 lanthanum tungstates  
     NT3 lead tungstates  
     NT3 lithium tungstates  
     NT3 lutetium tungstates  
     NT3 manganese tungstates  
     NT3 neodymium tungstates  
     NT3 nickel tungstates  
     NT3 potassium tungstates  
     NT3 praseodymium tungstates  
     NT3 rubidium tungstates  
     NT3 samarium tungstates  
     NT3 scandium tungstates  
     NT3 silver tungstates  
     NT3 sodium tungstates  
     NT3 strontium tungstates  
     NT3 tantalum tungstates  
     NT3 thallium tungstates  
     NT3 thorium tungstates  
     NT3 tin tungstates  
     NT3 titanium tungstates  
     NT3 uranium tungstates  
     NT3 uranyl tungstates  
     NT3 vanadium tungstates  
     NT3 ytterbium tungstates  
     NT3 yttrium tungstates  
     NT3 zinc tungstates  
     NT3 zirconium tungstates  
   NT2 tungsten borides  
   NT2 tungsten carbides  
   NT2 tungsten halides  
     NT3 tungsten bromides  
     NT3 tungsten chlorides  
     NT3 tungsten fluorides  
     NT3 tungsten iodides  
   NT2 tungsten hydrides  
   NT2 tungsten hydroxides  
   NT2 tungsten nitrides  
   NT2 tungsten oxides  
     NT3 sodium tungsten bronze  
   NT2 tungsten phosphides  
   NT2 tungsten selenides  
   NT2 tungsten silicides  
   NT2 tungsten sulfides  
   NT2 tungsten tellurides  
   NT2 tungstophosphates  
   NT2 tungstophosphoric acid

**REFRACTORY METALS**

*INIS: 2000-03-27; ETDE: 1977-06-02*

\*BT1 metals  
 NT1 hafnium  
   NT2 hafnium-alpha  
   NT2 hafnium-beta  
 NT1 iridium  
 NT1 molybdenum  
 NT1 niobium  
   NT2 niobium-alpha  
   NT2 niobium-beta  
 NT1 osmium  
 NT1 rhenium  
 NT1 rhodium  
 NT1 ruthenium  
 NT1 tantalum  
 NT1 technetium  
 NT1 tungsten  
   NT2 tungsten-alpha  
 RT heat resisting alloys  
 RT refractories

**REFRIGERANTS**

*INIS: 1978-04-21; ETDE: 1977-11-09*

\*BT1 working fluids  
 RT ammonia  
 RT chlorofluorocarbons  
 RT coolants  
 RT cryogenic fluids

RT freons  
 RT halogenated aliphatic hydrocarbons  
 RT hydrocarbons  
 RT iron coolants  
 RT organic halogen compounds  
 RT refrigeration

**REFRIGERATING MACHINERY**

*INIS: 1992-03-10; ETDE: 1975-11-11*

*Machinery for cooling a volume to a temperature below that of the surrounding environment.*

\*BT1 machinery  
 RT absorption refrigeration cycle  
 RT air conditioners  
 RT air conditioning  
 RT coefficient of performance  
 RT cooling systems  
 RT refrigeration  
 RT refrigerators  
 RT vapor compression refrigeration cycle

**REFRIGERATION**

(From May 1981 to February 1997 COLD RECOVERY was a valid ETDE descriptor.)

SF cold recovery  
 BT1 cooling  
 NT1 geothermal refrigeration  
 NT1 helium dilution refrigeration  
 NT1 solar refrigeration  
 RT absorption refrigeration cycle  
 RT heat pumps  
 RT magnetic refrigerators  
 RT refrigerants  
 RT refrigerating machinery  
 RT refrigerators  
 RT vapor compression refrigeration cycle

**REFRIGERATORS**

*INIS: 1980-04-02; ETDE: 1975-10-01*

*Insulated containments cooled by refrigerating machinery.*

NT1 helium dilution refrigerators  
 NT1 magnetic refrigerators  
 NT1 solar refrigerators  
 NT1 thermoelectric refrigerators  
 RT absorption refrigeration cycle  
 RT coefficient of performance  
 RT cooling systems  
 RT cryostats  
 RT electric appliances  
 RT freezers  
 RT gas appliances  
 RT helium dilution refrigeration  
 RT refrigerating machinery  
 RT refrigeration  
 RT vapor compression refrigeration cycle  
 RT water coolers

**refueling water systems**

*2000-04-12*

USE auxiliary water systems

**refuse**

USE solid wastes

**REFUSE DERIVED FUELS**

*INIS: 1992-04-09; ETDE: 1976-11-01*

*Fuels prepared from solid municipal or industrial wastes by removing all non-combustible materials, and put into burnable form.*

UF rdf  
 \*BT1 alternative fuels  
 RT industrial wastes  
 RT municipal wastes  
 RT refuse-fueled power plants  
 RT resource recovery facilities  
 RT solid wastes  
 RT synthetic fuels

**REFUSE-FUELED BOILERS**

INIS: 1992-05-18; ETDE: 1979-05-09

- UF waste-fueled boilers
- BT1 boilers
- RT refuse-fueled power plants

**REFUSE-FUELED POWER PLANTS**

INIS: 1992-04-09; ETDE: 1979-03-27

- UF waste-fueled power plants
- \*BT1 thermal power plants
- RT cogeneration
- RT dual-purpose power plants
- RT power generation
- RT refuse derived fuels
- RT refuse-fueled boilers
- RT steam generation

**regenerating liver**

- USE biological regeneration

**REGENERATION**

1981-11-26

- SF reactivation
- RT heat storage
- RT particle production
- RT solar heat engines
- RT stirling engines
- RT waste processing

**regeneration (biological)**

- USE biological regeneration

**REGENERATIVE BRAKING**

INIS: 2000-04-12; ETDE: 1976-03-11

- RT brakes
- RT electric-powered vehicles

**REGENERATIVE FUEL CELLS**

1992-05-20

- \*BT1 fuel cells
- NT1 redox fuel cells
- RT proton exchange membrane fuel cells

**REGENERATORS**

1986-04-04

- NT1 solar regenerators
- RT energy storage systems
- RT heat exchangers
- RT heat storage
- RT solar heat engines
- RT stirling engines

**REGGE CALCULUS**

- RT mathematics
- RT regge poles
- RT relativity theory

**REGGE CUTS**

- RT regge poles

**REGGE POLES**

- RT abfst equation
- RT conspiracy relations
- RT exchange degeneracy
- RT linear absorption models
- RT lorentz poles
- RT pomeranchuk particles
- RT pomeranchuk poles
- RT quantum field theory
- RT regge calculus
- RT regge cuts
- RT regge trajectories
- RT scattering amplitudes
- RT van hove model

**REGGE TRAJECTORIES**

- RT regge poles

**region i**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region ii**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region iii**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region iv**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region ix**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region v**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region vi**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region vii**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region viii**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region x**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**REGIONAL ANALYSIS**

*Evaluation of the characteristics of a region and their economic, ecological, or social implications.*

- RT ecology
- RT economic analysis
- RT economics
- RT environment
- RT fallout
- RT geology
- RT geomorphology
- RT human populations
- RT input-output analysis
- RT land use
- RT regional cooperation
- RT sociology
- RT water use

**REGIONAL COOPERATION**

INIS: 1996-05-06; ETDE: 1978-04-06

- BT1 cooperation
- RT decision making
- RT energy policy
- RT government policies
- RT land use
- RT local government
- RT management
- RT planning
- RT regional analysis
- RT state government

**regional electric reliability councils**

INIS: 2000-04-12; ETDE: 1979-09-27

- USE electric reliability councils

**regolith**

INIS: 2000-03-28; ETDE: 1976-02-20

(Prior to December 1990, this was a valid descriptor.)

- SEE overburden

**REGRESSION ANALYSIS**

INIS: 1981-07-08; ETDE: 1979-05-09

- \*BT1 statistics
- RT correlations
- RT economic analysis

- RT forecasting

**REGULATING RODS**

- UF fine control rods
- \*BT1 control elements
- RT neutron absorbers

**REGULATIONS**

(From August 1979 till March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)

- SF legal incentives
- BT1 laws
- NT1 building codes
- NT1 contamination regulations
- NT2 maximum acceptable contamination
- NT1 international regulations
- NT2 oecd mcmsdrw
- NT1 licensing regulations
- NT1 packaging rules
- NT1 pollution regulations
- NT1 pricing regulations
- NT1 safeguard regulations
- NT1 transport regulations
- RT administrative procedures
- RT afudc
- RT agreements
- RT amendments
- RT compliance
- RT consumer protection
- RT deregulation
- RT enforcement
- RT executive orders
- RT government policies
- RT horizontal divestiture
- RT implementation
- RT iso
- RT land leasing
- RT legal aspects
- RT legislation
- RT legislative text
- RT licensing
- RT local government
- RT national government
- RT public policy
- RT radiation protection
- RT recommendations
- RT regulatory guides
- RT reporting requirements
- RT resource recovery acts
- RT safety standards
- RT solas convention
- RT state government
- RT us ferc
- RT us public utility regulatory policies
- act
- RT vertical divestiture
- RT violations

**regulators (voltage)**

- USE voltage regulators

**REGULATORY GUIDES**

*Should be used to index all pieces of literature which are regulatory guides.*

- BT1 document types
- RT legal aspects
- RT recommendations
- RT regulations
- RT us aec

**REICH-MOORE FORMULA**

- RT nuclear reactions
- RT resonance

**REID POTENTIAL**

- \*BT1 nucleon-nucleon potential
- RT nucleon-nucleon interactions

**reimbursement**

INIS: 2000-04-12; ETDE: 1983-03-23

- USE cost recovery

**reindeer**

USE deer

**REINFORCED CONCRETE**

\*BT1 composite materials  
 \*BT1 concretes  
 \*BT1 reinforced materials  
 RT concrete stringers

**REINFORCED MATERIALS**

UF materials (reinforced)  
 BT1 materials  
 NT1 reinforced concrete  
 NT1 reinforced plastics  
 RT building materials  
 RT composite materials

**REINFORCED PLASTICS**

\*BT1 plastics  
 \*BT1 reinforced materials

**REINJECTION**

INIS: 2000-04-12; ETDE: 1977-03-08  
 RT injection wells  
 RT liquid wastes  
 RT underground disposal  
 RT waste disposal  
 RT waste water

**reinluft process**

2000-04-12  
*Reduction of emission of oxides of sulfur from coal by adsorption of sulfur dioxide on activated char at 300 degrees F, followed by cooling of flue gas to 220 degrees F where sulfur dioxide is oxidized to sulfur trioxide which is then adsorbed on char; sulfur trioxide combines with adsorbed water forming sulfuric acid.*  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**relative biological effectiveness**

USE rbe

**RELATIVISTIC BEAM INJECTION**

BT1 beam injection

**relativistic heavy ion collider (bnl)**

INIS: 1993-11-09; ETDE: 2002-05-03  
 USE brookhaven rhic

**RELATIVISTIC PLASMA**

BT1 plasma

**RELATIVISTIC RANGE**

BT1 energy range  
 RT relativity theory

**RELATIVITY THEORY**

NT1 general relativity theory  
 NT1 special relativity theory  
 RT light cone  
 RT metrics  
 RT minkowski space  
 RT regge calculus  
 RT relativistic range  
 RT space-time

**RELAXATION**

NT1 muon spin relaxation  
 NT1 spin-lattice relaxation  
 NT1 spin-spin relaxation  
 NT1 stress relaxation  
 RT de-excitation  
 RT relaxation losses  
 RT relaxation time

**relaxation (stress)**

USE stress relaxation

**RELAXATION LOSSES**

\*BT1 energy losses  
 RT dielectric properties  
 RT dipoles  
 RT relaxation

**RELAXATION TIME**

INIS: 1981-08-18; ETDE: 1980-03-29  
 RT relaxation  
 RT time dependence

**RELAYS**

\*BT1 electrical equipment  
 RT equipment protection devices  
 RT switches  
 RT switching circuits

**release (fission product)**

1980-11-07  
 USE fission product release

**RELEASE LIMITS**

RT radiation hazards  
 RT radioactive wastes  
 RT stack disposal

**releasing factors**

INIS: 1983-02-03; ETDE: 1983-03-07  
 USE liberins

**releasing hormones**

INIS: 1983-02-03; ETDE: 1983-03-07  
 USE liberins

**RELIABILITY**

RT accuracy  
 RT amoeba effect  
 RT errors  
 RT failure mode analysis  
 RT failures  
 RT fault tolerant computers  
 RT hazards  
 RT outages  
 RT performance  
 RT quality assurance  
 RT quality control  
 RT radiation protection  
 RT reactor safety  
 RT redundancy  
 RT risk assessment  
 RT safety margins  
 RT specifications  
 RT systems analysis  
 RT var control systems

**relic radiation**

INIS: 1984-04-25; ETDE: 1984-05-23  
 USE relict radiation

**RELICT RADIATION**

INIS: 1984-04-25; ETDE: 1984-05-23  
*Thermal microwave background radiation of the universe believed to date from the early universe.*  
 UF cmb radiation  
 UF cosmic microwave background  
 UF relic radiation  
 \*BT1 microwave radiation  
 RT background radiation  
 RT cosmic radiation  
 RT universe

**RELIEF VALVES**

1986-04-04  
 UF rupture disks  
 UF safety valves  
 \*BT1 valves

**relieving (stress)**

USE stress relaxation

**RELOADABLE FUEL ASSEMBLIES**

2003-10-21  
*Ring-shaped elements, which can carry different replaceable inner parts; after replacement of the replaceable parts, they can be reloaded into the core for further operation.*  
 BT1 fuel assemblies

**rem**

For studies concerning units, concepts, or definitions. See also dose equivalents.  
 USE radiation dose units

**REMEDIAL ACTION**

INIS: 1985-04-23; ETDE: 1984-06-29  
*Activities conducted to reduce potential exposure of people to hazardous materials or ionizing radiation, and potential harm to the environment from hazardous materials contamination.*

UF site rehabilitation  
 SF mine site rehabilitation  
 NT1 bioremediation  
 RT abandoned sites  
 RT brownfield sites  
 RT contamination  
 RT decommissioning  
 RT decontamination  
 RT environmental engineering  
 RT land reclamation  
 RT natural attenuation  
 RT radiation doses  
 RT radiation protection  
 RT tailings  
 RT us superfund

**REMERSCHEN REACTOR**

INIS: 1976-07-19; ETDE: 1976-09-15  
 \*BT1 pwr type reactors

**REMOTE AREAS**

INIS: 1994-10-13; ETDE: 1978-06-14  
 UF isolated locations  
 RT rural areas

**REMOTE CONTROL**

BT1 control  
 RT hydraulic control devices  
 RT remote handling  
 RT servomechanisms

**REMOTE HANDLING**

RT automation  
 RT clean rooms  
 RT contact handling  
 RT distance  
 RT gloveboxes  
 RT hot cells  
 RT hot labs  
 RT man-machine systems  
 RT manipulators  
 RT materials handling  
 RT materials handling equipment  
 RT periscopes  
 RT radiation protection  
 RT reactor charging machines  
 RT reactor fueling  
 RT remote control  
 RT remote handling equipment  
 RT sample changers  
 RT sample holders  
 RT work

**REMOTE HANDLING EQUIPMENT**

(From August 1979 till March 1997 RETRIEVAL SYSTEMS was a valid ETDE descriptor.)  
 SF retrieval systems  
 \*BT1 materials handling equipment  
 NT1 cranes

**NT1** manipulators  
**RT** auxiliary systems  
**RT** hot cells  
**RT** laboratory equipment  
**RT** remote handling  
**RT** remote viewing equipment  
**RT** robots

## REMOTE MULTIPLEXING SYSTEMS

*INIS: 2000-04-12; ETDE: 1978-01-23*

*Systems for the remote transmission of data and control signals in power plants or process equipment.*

**RT** multiplexers  
**RT** on-line control systems

## REMOTE SENSING

*1978-09-28*

*Techniques for conducting measurements from aeroplanes or satellites such as for geologic exploration.*

**RT** acoustic radar  
**RT** aerial monitoring  
**RT** aerial prospecting  
**RT** aerial surveying  
**RT** exploration  
**RT** geophysical surveys  
**RT** geos satellites  
**RT** goes satellites  
**RT** ground truth measurements  
**RT** landsat satellites  
**RT** multispectral photography  
**RT** optical radar  
**RT** satellites  
**RT** seasat satellites  
**RT** sensors  
**RT** thermography

## REMOTE VIEWING EQUIPMENT

**BT1** equipment  
**RT** hot cells  
**RT** laboratory equipment  
**RT** lighting systems  
**RT** optical systems  
**RT** remote handling equipment  
**RT** television  
**RT** video tapes

## REMOVAL

*1991-08-14*

**UF** tioga nitrogen removal process  
**NT1** after-heat removal  
**NT1** cuttings removal  
**NT1** reactor poison removal  
**NT1** water removal  
**RT** deashing  
**RT** fission product release

### removal (after-heat)

**USE** after-heat removal

### removal (reactor poison)

**USE** reactor poison removal

## RENAL CLEARANCE

**UF** clearance (renal)  
**\*BT1** excretion  
**RT** glomeruli  
**RT** kidneys  
**RT** metabolism  
**RT** renography  
**RT** tubules

## RENE-100

*INIS: 2000-04-12; ETDE: 1978-12-20*

**\*BT1** aluminium alloys  
**\*BT1** chromium alloys  
**\*BT1** cobalt alloys  
**\*BT1** molybdenum alloys  
**\*BT1** nickel base alloys

**\*BT1** titanium alloys

## RENE 41

*1993-10-03*

**\*BT1** alloy-ni55cr19co11mo10ti3  
**\*BT1** carbon additions  
**\*BT1** iron alloys

## RENE 80

*INIS: 1993-10-03; ETDE: 1978-12-20*

**\*BT1** aluminium alloys  
**\*BT1** boron additions  
**\*BT1** chromium alloys  
**\*BT1** cobalt alloys  
**\*BT1** corrosion resistant alloys  
**\*BT1** heat resisting alloys  
**\*BT1** molybdenum alloys  
**\*BT1** nickel base alloys  
**\*BT1** titanium alloys  
**\*BT1** tungsten alloys  
**\*BT1** zirconium additions

## RENE 95

*INIS: 1993-10-03; ETDE: 1976-02-19*

**\*BT1** aluminium alloys  
**\*BT1** carbon additions  
**\*BT1** chromium alloys  
**\*BT1** cobalt alloys  
**\*BT1** corrosion resistant alloys  
**\*BT1** heat resisting alloys  
**\*BT1** iron additions  
**\*BT1** molybdenum alloys  
**\*BT1** nickel base alloys  
**\*BT1** niobium alloys  
**\*BT1** titanium alloys  
**\*BT1** tungsten alloys  
**\*BT1** zirconium additions

## RENEWABLE ENERGY SOURCES

*INIS: 1981-02-27; ETDE: 1977-09-19*

(From December 1978 till May 1996

RENEWABLE RESOURCES was a valid ETDE descriptor.)

**SF** green energy  
**SF** renewable resources  
**BT1** energy sources  
**NT1** biomass  
**NT2** energy crops  
**NT1** energy crops  
**NT1** geothermal energy  
**NT1** hydroelectric power  
**NT1** hydrokinetic power  
**NT1** solar energy  
**NT1** tidal power  
**NT1** wave power  
**NT1** wind power  
**RT** appropriate technology  
**RT** plants  
**RT** synthetic fuels corporation

### renewable resources

*INIS: 2000-04-12; ETDE: 1978-12-11*

*Organic compounds currently produced by photosynthesis or derived from products of photosynthesis that are utilized by man in the form of plant or animal products.*

(Prior to May 1996 this was a valid ETDE descriptor.)

**SEE** biomass  
**SEE** materials  
**SEE** organic compounds  
**SEE** renewable energy sources  
**SEE** resources

## RENIN

*Code numbers 3.4.99.1, 3.4.99.2, and 3.4.99.3.*

**\*BT1** nonspecific peptidases  
**RT** blood pressure  
**RT** kidneys

## RENOGRAPHY

*1980-05-14*

**\*BT1** biomedical radiography  
**RT** kidneys  
**RT** renal clearance  
**RT** tracer techniques

## RENORMALIZATION

**NT1** charge renormalization  
**NT1** mass renormalization  
**RT** quantum field theory

## RENSSELAER CRITICAL FACILITY

*Rensselaer Polytechnic Inst., Troy, New York, USA.*

**\*BT1** zero power reactors

## REPAIR

**NT1** biological repair  
**NT2** dna repair  
**NT3** excision repair  
**NT2** host-cell reactivation  
**NT2** photoreactivation  
**RT** maintenance  
**RT** reactor maintenance  
**RT** reactor operation

### repair (biological)

**USE** biological repair

### repair pathways

*INIS: 1978-11-24; ETDE: 1978-12-20*

**USE** biological pathways

## REPEALS

*INIS: 2000-04-12; ETDE: 1981-05-18*

**RT** laws  
**RT** legal aspects

## REPLACEABLE FUEL ASSEMBLIES

*2003-10-21*

*Inner parts of annular fuel elements, which can be replaced while the outer parts continue to be operated.*

**BT1** fuel assemblies

## REPLICA TECHNIQUES

**RT** ceramography  
**RT** replicas

## REPLICAS

**RT** crystal models  
**RT** electron microscopy  
**RT** replica techniques

## REPLICONS

*INIS: 2000-04-12; ETDE: 1987-04-24*

*Those portions of chromosomes (specific DNA or RNA sequences) where chromosome replication initiates during cell division,*

**BT1** genes  
**RT** cell cycle  
**RT** cell proliferation

## REPORTING REQUIREMENTS

*INIS: 1986-04-03; ETDE: 1980-03-29*

*Also includes the reports generated as a result of the requirements.*

**UF** reports required  
**UF** required reports  
**RT** administrative procedures  
**RT** data acquisition  
**RT** documentation  
**RT** information needs  
**RT** regulations

### reports required

*INIS: 1986-04-04; ETDE: 2002-05-03*

**USE** reporting requirements

## repowering

*INIS: 2000-04-12; ETDE: 1980-10-07*

**SEE** solar repowering

**representations (irreducible)**

USE irreducible representations

**representations (nonunitary)**

USE nonunitary representations

**repressuring**

INIS: 1984-12-04; ETDE: 1976-07-07

USE pressurization

**REPROCESSING**

1996-07-18

(CARBOX PROCESS, DAREX PROCESS, FLUOROX PROCESS, FLUREX PROCESS, HERMEX PROCESS, NEPTEX PROCESS, PROMEX PROCESS, RAHYD PROCESS, SULFEX PROCESS, and THERMOX PROCESS have been valid descriptors.)

UF carbox process

UF darex process

UF fluorox process

UF flurex process

UF fuel reprocessing

UF hermex process

UF neptex process

UF proliferation resistant molten

salt/metal extraction

UF promex process

UF rahyd process

UF recycling (nuclear fuel)

UF sulfex process

UF thermox process

SF arco process

BT1 separation processes

NT1 airox process

NT1 amex process

NT1 chloride volatility process

NT1 civex process

NT1 csrex process

NT1 dapex process

NT1 diamex process

NT1 eurex process

NT1 fluoride volatility process

NT1 iodox process

NT1 purex process

NT1 pyrochemical reprocessing

NT1 redox process

NT1 sesame process

NT1 talspeak process

NT1 thorex process

NT1 tramex process

NT1 truex process

NT1 zirflex process

RT closed fuel cycle

RT consolidated fuel reprocessing program

RT decladding

RT denitration

RT eurochemic

RT fuel cycle

RT fuel reprocessing plants

RT head end processes

RT nuclear materials management

RT process control

RT sol-gel process

RT solvent extraction

RT spent fuel elements

RT wackersdorf reprocessing plant

RT wak

RT zone refining

**REPRODUCTION**

UF parthenogenesis

RT adults

RT animal breeding

RT embryos

RT female genitals

RT fertility

RT fertilization

RT flowers

RT gonads

RT life cycle

RT male genitals

RT mating

RT mutations

RT nests

RT oogenesis

RT ovulation

RT physiology

RT plant breeding

RT pollen

RT population dynamics

RT pregnancy

RT progeny

RT reproductive disorders

RT sex

RT spermatogenesis

RT spores

RT vegetative propagation

RT viability

RT zygotes

**REPRODUCTIVE DISORDERS**

\*BT1 urogenital system diseases

RT abortion

RT castration

RT endocrine diseases

RT fertility

RT menstruation disorders

RT pregnancy

RT reproduction

RT sterility

**REPTILES**

1997-06-17

\*BT1 vertebrates

NT1 alligators

NT1 lizards

NT1 snakes

NT1 turtles

**REPUBLIC OF GEORGIA**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

UF georgia (republic of)

SF soviet union

SF union of soviet socialist republics

SF ussr

BT1 asia

RT black sea

RT caucasus

**REPUBLIC OF KOREA**

UF korea (south)

UF south korea

BT1 asia

BT1 developing countries

RT oecd

**REPUBLIC OF SEYCHELLES**

2003-05-20

UF seychelles (republic of)

BT1 africa

BT1 developing countries

**republic of zaire**

(Prior to September 1997 ZAIRE REPUBLIC was used for this concept in ETDE.)

USE democratic republic of the congo

**republikove uloziste radioaktivnych odpadov v mochovciach**

2002-12-17

USE mochovce radioactive waste repository

**required reports**

INIS: 1986-04-03; ETDE: 2002-05-03

USE reporting requirements

**RESCATTERING**

BT1 scattering

RT nuclear reaction kinetics

RT nuclear reactions

RT strong interactions

**RESCUE OPERATIONS**

INIS: 2000-04-12; ETDE: 1978-09-11

NT1 mine rescue

**RESEARCH AND TEST REACTORS**

BT1 reactors

NT1 argonaut type reactors

NT2 aeg-pr-10 reactor

NT2 arbi reactor

NT2 argonaut reactor

NT2 argos reactor

NT2 athene reactor

NT2 jason reactor

NT2 lfr reactor

NT2 moata reactor

NT2 nestor reactor

NT2 queen mary college utr-b reactor

NT2 ra-1 reactor

NT2 rb-2 reactor

NT2 rien-1 reactor

NT2 srrc-utr-100 reactor

NT2 stark reactor

NT2 strasbourg-cronenbourg reactor

NT2 uftr reactor

NT2 ulysse reactor

NT2 urr reactor

NT2 utr-10-kinki reactor

NT2 vpi-utr-10 reactor

NT1 experimental reactors

NT2 aps reactor

NT2 arbus reactor

NT2 atrc reactor

NT2 bilibin reactor

NT2 bor-60 reactor

NT2 borax-1 reactor

NT2 borax-2 reactor

NT2 borax-3 reactor

NT2 borax-4 reactor

NT2 brest-od-300 reactor

NT2 cefir reactor

NT2 cesar reactor

NT2 dfr reactor

NT2 dragon reactor

NT2 ebr-1 reactor

NT2 ebr-2 reactor

NT2 ebwr reactor

NT2 egr reactor

NT2 el-1 reactor

NT2 eocr reactor

NT2 esada-vesr reactor

NT2 ewg-1 reactor

NT2 gcre reactor

NT2 hbwr reactor

NT2 hdr reactor

NT2 hre-2 reactor

NT2 htr-10 reactor

NT2 httr reactor

NT2 igr reactor

NT2 ir-100 reactor

NT2 joyo reactor

NT2 jpdr reactor

NT2 jules horowitz reactor

NT2 kiwi-tnt reactor

NT2 knk-2 reactor

NT2 knk reactor

NT2 lampre-1 reactor

NT2 mh-1a reactor

NT2 mir reactor

NT2 msre reactor

NT2 nrx-a1 reactor

NT2 nrx-a2 reactor

NT2 nrx-a3 reactor

NT2 nrx-a4-est reactor



NT2	nrx-a5 reactor	NT3	maryla reactor	NT2	astra reactor
NT2	nrx-a6 reactor	NT3	masurca reactor	NT2	athene reactor
NT2	nrx-a7 reactor	NT3	minerve reactor	NT2	atpr reactor
NT2	omre reactor	NT3	neptune reactor	NT2	atsr reactor
NT2	opal reactor	NT3	nsf-rfp reactor	NT2	avogadro rs-1 reactor
NT2	rover reactors	NT3	or-cef reactor	NT2	barn reactor
NT2	sefor reactor	NT3	ornl-pca reactor	NT2	bepo reactor
NT2	spert-1 reactor	NT3	parka reactor	NT2	ber-2 reactor
NT2	spert-2 reactor	NT3	pdp reactor	NT2	bgrr reactor
NT2	spert-3 reactor	NT3	peggy reactor	NT2	bigr reactor
NT2	spert-4 reactor	NT3	pelinduna reactor	NT2	bir reactor
NT2	sre reactor	NT3	plasma core assembly	NT2	br-02 reactor
NT2	subcritical assemblies	NT3	prcf reactor	NT2	br-1 reactor
NT3	accelerator-driven subcritical systems	NT3	ptf-unc reactor	NT2	brr reactor
NT4	accelerator-driven transmutation facilities	NT3	purnima-2 reactor	NT2	bsr-1 reactor
NT4	brahmha facility	NT3	purnima reactor	NT2	bsr-2 reactor
NT4	myrrha facility	NT3	r-b reactor	NT2	byu 1-77 reactor
NT4	venus reactor	NT3	ra-0 reactor	NT2	cabri reactor
NT4	yalina facility	NT3	ra-2 reactor	NT2	carem 25 reactor
NT3	entc lwsr reactor	NT3	ra-8 reactor	NT2	carr reactor
NT3	pse reactor	NT3	ake-2 reactor	NT2	cesar reactor
NT3	sm-1 subcritical assembly	NT3	rb-1 reactor	NT2	cesnef reactor
NT3	stsf assembly	NT3	rb-3 reactor	NT2	cirus reactor
NT3	venus-1 reactor	NT3	rensselaer critical facility	NT2	clementine reactor
NT2	topaz reactor	NT3	ritmo reactor	NT2	cmrr reactor
NT2	tory-2a reactor	NT3	rospo reactor	NT2	consort-2 reactor
NT2	tory-2c reactor	NT3	saref reactor	NT2	coral-1 reactor
NT2	treat reactor	NT3	shca reactor	NT2	cp-2 reactor
NT2	tz1 reactor	NT3	silene reactor	NT2	cp-3 reactor
NT2	tz2 reactor	NT3	siloette reactor	NT2	cp-3m reactor
NT2	uhtrex reactor	NT3	sm-1 subcritical assembly	NT2	cp-5 reactor
NT2	venus reactor	NT3	sneak reactor	NT2	cp-6 reactor
NT2	vhtr reactor	NT3	split table reactor	NT2	crocus reactor
NT2	xe-2 reactor	NT3	sr-0a reactor	NT2	democritus reactor
NT2	xe-prime reactor	NT3	stacy reactor	NT2	dhruva reactor
NT2	xma-1 reactor	NT3	tca reactor	NT2	dido reactor
NT2	zero power reactors	NT3	tr-0 reactor	NT2	diorit reactor
NT3	agata reactor	NT3	tracy reactor	NT2	dmttr reactor
NT3	akr-1 reactor	NT3	vera reactor	NT2	dow triga-mk-1 reactor
NT3	anex reactor	NT3	zebra reactor	NT2	dr-1 reactor
NT3	anna reactor	NT3	zeep reactor	NT2	dr-2 reactor
NT3	apfa-3 reactor	NT3	zenith reactor	NT2	dr-3 reactor
NT3	aquilon reactor	NT3	zephyr reactor	NT2	ebor reactor
NT3	bfs reactor	NT3	zerlina reactor	NT2	ebr-1 reactor
NT3	big ten reactor	NT3	zlfr reactor	NT2	eco reactor
NT3	cfmrf reactor	NT3	zppr reactor	NT2	el-1 reactor
NT3	cml reactor	NT3	zpr-3 reactor	NT2	el-2 reactor
NT3	coral-1 reactor	NT3	zpr-6 reactor	NT2	el-3 reactor
NT3	crocus reactor	NT3	zpr-9 reactor	NT2	eocr reactor
NT3	dca reactor	NT3	zpr reactor	NT2	eole reactor
NT3	dimple reactor	NT3	zr-6 reactor	NT2	es-salam reactor
NT3	ecel reactor	NT2	zrr reactor	NT2	etr reactor
NT3	entc lwsr reactor	NT1	kalpakkam pfr reactor	NT2	etrc reactor
NT3	ermine reactor	NT1	kamini reactor	NT2	etrr-1 reactor
NT3	etrc reactor	NT1	maple reactor	NT2	etrr-2 reactor
NT3	fca reactor	NT1	maple type reactors	NT2	ewa reactor
NT3	flattop reactor	NT1	maria reactor	NT2	f-1 reactor
NT3	fr-0 reactor	NT1	nuclear furnace reactor	NT2	fbrf reactor
NT3	giacint reactor	NT1	purnima-3 reactor	NT2	ffif reactor
NT3	godiva reactor	NT1	research reactors	NT2	fir-1 reactor
NT3	hero reactor	NT2	ill high flux reactor	NT2	fmrbr reactor
NT3	hitrex-1 reactor	NT2	aarr reactor	NT2	fmr reactor
NT3	horace reactor	NT2	acpr reactor	NT2	fr-0 reactor
NT3	hwzpr reactor	NT2	aeg-pr-10 reactor	NT2	fr-2 reactor
NT3	iea-zpr reactor	NT2	aerojet-general nucleonics reactors	NT2	frf reactor
NT3	ifr reactor	NT3	agn 201 costanza	NT2	frg-1 reactor
NT3	ipen-mb-1 reactor	NT2	afri reactor	NT2	frg-2 reactor
NT3	jezebel reactor	NT2	afsr reactor	NT2	frj-1 reactor
NT3	juno reactor	NT2	agata reactor	NT2	frj-2 reactor
NT3	kahter reactor	NT2	ai-1-77 reactor	NT2	frm-ii reactor
NT3	kbr-1 reactor	NT2	alrr reactor	NT2	frm reactor
NT3	kritz reactor	NT2	anna reactor	NT2	frm reactor
NT3	kuca reactor	NT2	aprf reactor	NT2	ga siwabessy reactor
NT3	lptf reactor	NT2	apsara reactor	NT2	giacint reactor
NT3	lr-0 reactor	NT2	arbi reactor	NT2	gidra reactor
NT3	lvr-15 reactor	NT2	argonaut reactor	NT2	gleep reactor
NT3	marius reactor	NT2	argos reactor	NT2	grenoble reactor
		NT2	argus reactor	NT2	gtrr reactor
		NT2	armf-1 reactor	NT2	gulf triga-mk-3 reactor

NT2	hanaro reactor	NT3	mnsr-sz reactor	NT2	sora reactor
NT2	harmonie reactor	NT3	nirr-1 reactor	NT2	spert-1 reactor
NT2	hector reactor	NT3	parr-2 reactor	NT2	spr-2 reactor
NT2	herald reactor	NT3	srr-1 reactor	NT2	spr-3 reactor
NT2	hero reactor	NT2	moata reactor	NT2	spr-4 reactor
NT2	hew-305 reactor	NT2	mr reactor	NT2	spr iae reactor
NT2	hfbr reactor	NT2	mrr reactor	NT2	spr-300 reactor
NT2	hfir reactor	NT2	murr reactor	NT2	sr-1 reactor
NT2	hfr reactor	NT2	myrrha facility	NT2	sr-0a reactor
NT2	hifar reactor	NT2	nbsr reactor	NT2	srrc-utr-100 reactor
NT2	hor reactor	NT2	ncscr-1 reactor	NT2	stf reactor
NT2	horace reactor	NT2	nestor reactor	NT2	supo reactor
NT2	hpr reactor	NT2	nhr-5 reactor	NT2	swierk r-2 reactor
NT2	hre-2 reactor	NT2	nora reactor	NT2	taiwan research reactor
NT2	htlr reactor	NT2	nru reactor	NT2	tapiro reactor
NT2	htr reactor	NT2	nrx reactor	NT2	tca reactor
NT2	hwrr reactor	NT2	nsrr reactor	NT2	thetis reactor
NT2	ian-r1 reactor	NT2	ntr reactor	NT2	thor reactor
NT2	ibr-2 reactor	NT2	nur reactor	NT2	tibr reactor
NT2	ibr-30 reactor	NT2	orphee reactor	NT2	tory-2a reactor
NT2	iea-zpr reactor	NT2	osiris reactor	NT2	toshiba reactor
NT2	iear-1 reactor	NT2	owr reactor	NT2	tr-1 reactor
NT2	ihni-1 reactor	NT2	parr-1 reactor	NT2	tr-2 reactor
NT2	irl reactor	NT2	pat reactor	NT2	triga-1-michigan reactor
NT2	irr-1 reactor	NT2	pbr reactor	NT2	triton reactor
NT2	irr-2 reactor	NT2	pctr reactor	NT2	trr-1 reactor
NT2	irt-1 libya reactor	NT2	phebus reactor	NT2	tsr-2 reactor
NT2	irt-2000 djakarta reactor	NT2	pik physical model reactor	NT2	ufr reactor
NT2	irt-2000 moscow reactor	NT2	pik reactor	NT2	uknr reactor
NT2	irt-baghdad reactor	NT2	prnc-1-77 reactor	NT2	umne-1 reactor
NT2	irt-c reactor	NT2	proteus reactor	NT2	umrr reactor
NT2	irt-dprk reactor	NT2	prtr reactor	NT2	utr-10-kinki reactor
NT2	irt-f reactor	NT2	psbr reactor	NT2	utr reactor
NT2	irt-m reactor	NT2	ptr reactor	NT2	uvar reactor
NT2	irt reactor	NT2	pulstar-buffalo reactor	NT2	vera reactor
NT2	irt-sofia reactor	NT2	pulstar-raleigh reactor	NT2	viper reactor
NT2	isis reactor	NT2	r-1 reactor	NT2	vpi-utr-10 reactor
NT2	ispra-1 reactor	NT2	r-2 reactor	NT2	wrr reactor
NT2	ivv-2m reactor	NT2	r-a reactor	NT2	wsur reactor
NT2	ivv-7 reactor	NT2	r2-0 reactor	NT2	wtr reactor
NT2	janus reactor	NT2	ra-0 reactor	NT2	wwr-2 reactor
NT2	jason reactor	NT2	ra-10 reactor	NT2	wwr-k-almaty reactor
NT2	jeep-2 reactor	NT2	ra-2 reactor	NT2	wwr-m-kiev reactor
NT2	jen-1 reactor	NT2	ra-3 reactor	NT2	wwr-m-leningrad reactor
NT2	jen-2 reactor	NT2	ra-4 reactor	NT2	wwr-s-bucharest reactor
NT2	jen reactor	NT2	ra-5 reactor	NT2	wwr-s-cairo reactor
NT2	jmt reactor	NT2	ra-6 reactor	NT2	wwr-s-moscow reactor
NT2	jrr-1 reactor	NT2	ra-8 reactor	NT2	wwr-s-prague reactor
NT2	jrr-2 reactor	NT2	rake-2 reactor	NT2	wwr-s-tashkent reactor
NT2	jrr-3 reactor	NT2	rana reactor	NT2	wwr-sm rossendorf reactor
NT2	jrr-3m reactor	NT2	rb-1 reactor	NT2	wwr-z reactor
NT2	jrr-4 reactor	NT2	rg-1m reactor	NT2	x-10 reactor
NT2	juno reactor	NT2	rien-1 reactor	NT2	xapr reactor
NT2	kartini-ppny reactor	NT2	rinsc reactor	NT2	zebra reactor
NT2	king reactor	NT2	ritmo reactor	NT2	zeep reactor
NT2	kstr reactor	NT2	rmb reactor	NT2	zenith reactor
NT2	kuhfr reactor	NT2	romashka reactor	NT2	zerlina reactor
NT2	kur reactor	NT2	rp-10 reactor	NT2	zlfr reactor
NT2	la reina rech-1 reactor	NT2	rpt reactor	NT2	zppr reactor
NT2	lfr reactor	NT2	rts-1 reactor	NT1	super kukla reactor
NT2	lido reactor	NT2	rv-1 reactor	NT1	test reactors
NT2	lo aguirre rech-2 reactor	NT2	safari-1 reactor	NT2	aipfr reactor
NT2	lpr reactor	NT2	sbr-1 reactor	NT2	arbus reactor
NT2	lptr reactor	NT2	sbr-2 reactor	NT2	astr reactor
NT2	ltir reactor	NT2	sbr-5 reactor	NT2	astra reactor
NT2	lvr-15 reactor	NT2	scarabee reactor	NT2	atpr reactor
NT2	marius reactor	NT2	silene reactor	NT2	atr reactor
NT2	maryla reactor	NT2	slowpoke type reactors	NT2	bam reactor
NT2	melusine-1 reactor	NT3	slowpoke-alberta reactor	NT2	bawtr reactor
NT2	merlin reactor	NT3	slowpoke-dalhousie reactor	NT2	bgr reactor
NT2	minerve reactor	NT3	slowpoke-mona reactor	NT2	borax-5 reactor
NT2	mitr reactor	NT3	slowpoke-montreal reactor	NT2	br-02 reactor
NT2	mnr reactor	NT3	slowpoke-ottawa reactor	NT2	brr reactor
NT2	mnsr type reactors	NT3	slowpoke rmc reactor	NT2	cesnef reactor
NT3	entc mnsr reactor	NT3	slowpoke src reactor	NT2	cirus reactor
NT3	gharr-1 reactor	NT3	slowpoke-toronto reactor	NT2	cp-5 reactor
NT3	mnsr-ciae reactor	NT3	slowpoke-wnre reactor	NT2	dhruva reactor
NT3	mnsr-sd reactor	NT2	sm-1 subcritical assembly	NT2	dimple reactor
NT3	mnsr-sh reactor	NT2	sneak reactor	NT2	diorit reactor

NT2	ebor reactor	NT2	akr-1 reactor	NT2	vpi-utr-10 reactor
NT2	ebr-1 reactor	NT2	apsara reactor	NT2	vr-1 reactor
NT2	eco reactor	NT2	arbi reactor	NT2	wntr reactor
NT2	eoer reactor	NT2	argonaut reactor	NT2	wpir reactor
NT2	esada-vesr reactor	NT2	argos reactor	NT2	wwr-s-budapest reactor
NT2	essor reactor	NT2	athene reactor	NT2	x-10 reactor
NT2	etr reactor	NT2	atpr reactor	NT2	zifr reactor
NT2	etrc reactor	NT2	bgr reactor	NT2	zpr reactor
NT2	fftf reactor	NT2	budapest training reactor	NT1	triga type reactors
NT2	fir-1 reactor	NT2	byu 1-77 reactor	NT2	afri reactor
NT2	fmr reactor	NT2	cesnef reactor	NT2	atpr reactor
NT2	fmr reactor	NT2	ciurus reactor	NT2	colorado triga-mk-3 reactor
NT2	fr-2 reactor	NT2	colorado triga-mk-3 reactor	NT2	cornell triga-mk-2 reactor
NT2	frctf reactor	NT2	consort-2 reactor	NT2	dow triga-mk-1 reactor
NT2	frg-1 reactor	NT2	cornell triga-mk-2 reactor	NT2	fir-1 reactor
NT2	frn reactor	NT2	dow triga-mk-1 reactor	NT2	frf-2 reactor
NT2	getr reactor	NT2	dr-1 reactor	NT2	frn reactor
NT2	grenoble reactor	NT2	entc lwsr reactor	NT2	gulf triga-mk-3 reactor
NT2	gtr reactor	NT2	es-salam reactor	NT2	kartini-ppny reactor
NT2	gtr reactor	NT2	fir-1 reactor	NT2	lopra reactor
NT2	hanaro reactor	NT2	fnr reactor	NT2	nscr reactor
NT2	harmonie reactor	NT2	fr-0 reactor	NT2	ostr reactor
NT2	herald reactor	NT2	frf reactor	NT2	prpr reactor
NT2	hero reactor	NT2	frg-1 reactor	NT2	psbr reactor
NT2	hew-305 reactor	NT2	gleep reactor	NT2	rtp reactor
NT2	hfir reactor	NT2	gtr reactor	NT2	trico ii reactor
NT2	hifar reactor	NT2	gulf triga-mk-3 reactor	NT2	trico reactor
NT2	hre-2 reactor	NT2	hor reactor	NT2	triga-1-arizona reactor
NT2	hlttr reactor	NT2	htr reactor	NT2	triga-1-california reactor
NT2	htr-10 reactor	NT2	ian-r1 reactor	NT2	triga-1-hanford reactor
NT2	irl reactor	NT2	iowa utr-10 reactor	NT2	triga-1-hanover reactor
NT2	irr-1 reactor	NT2	ir-100 reactor	NT2	triga-1-heidelberg reactor
NT2	irt-2000 jakarta reactor	NT2	jason reactor	NT2	triga-1-michigan reactor
NT2	irt-2000 moscow reactor	NT2	jrr-1 reactor	NT2	triga-2-bandung reactor
NT2	irt-baghdad reactor	NT2	kur reactor	NT2	triga-2-bangladesh reactor
NT2	ispra-1 reactor	NT2	lfr reactor	NT2	triga-2-dalat reactor
NT2	jmtr reactor	NT2	melusine-1 reactor	NT2	triga-2-illinois reactor
NT2	kalpakkam lmfr reactor	NT2	merlin reactor	NT2	triga-2-kansas reactor
NT2	loft reactor	NT2	mitr reactor	NT2	triga-2-ljubljana reactor
NT2	mzfr reactor	NT2	moata reactor	NT2	triga-2-mainz reactor
NT2	netr reactor	NT2	murr reactor	NT2	triga-2-musashi reactor
NT2	nru reactor	NT2	nscr-1 reactor	NT2	triga-2-pavia reactor
NT2	ntr reactor	NT2	nevada university reactor	NT2	triga-2-pitesti reactor
NT2	orphee reactor	NT2	nscr reactor	NT2	triga-2 reactor
NT2	owr reactor	NT2	ostr reactor	NT2	triga-2-rikkyo reactor
NT2	pat reactor	NT2	osur reactor	NT2	triga-2-rome reactor
NT2	pegase reactor	NT2	pnc-1-77 reactor	NT2	triga-2-seoul reactor
NT2	proteus reactor	NT2	psbr reactor	NT2	triga-2-vienna reactor
NT2	ra-3 reactor	NT2	pur-1 reactor	NT2	triga-3-la jolla reactor
NT2	ra-4 reactor	NT2	queen mary college utr-b reactor	NT2	triga-3-munich reactor
NT2	ra-5 reactor	NT2	r-b reactor	NT2	triga-3-salazar reactor
NT2	ra-6 reactor	NT2	ra-1 reactor	NT2	triga-3-seoul reactor
NT2	ra-8 reactor	NT2	rien-1 reactor	NT2	triga-brazil reactor
NT2	rapsodie reactor	NT2	rts-1 reactor	NT2	triga-texas reactor
NT2	rts-1 reactor	NT2	rv-1 reactor	NT2	triga-veterans reactor
NT2	s1c prototype reactor	NT2	sr-3p reactor	NT2	ucbr reactor
NT2	safari-1 reactor	NT2	srcc-utr-100 reactor	NT2	uwnr reactor
NT2	sbr-5 reactor	NT2	stark reactor	NT2	wsur reactor
NT2	snaptan reactors	NT2	strasbourg-cronenbourg reactor	NT1	yayoi reactor
NT2	stf reactor	NT2	sur-100 series reactor		
NT2	tapiro reactor	NT2	thetis reactor		
NT2	tory-2a reactor	NT2	thor reactor		
NT2	tory-2c reactor	NT2	toshiba reactor		
NT2	treat reactor	NT2	tr-1 reactor		
NT2	triga-1-michigan reactor	NT2	trico ii reactor		
NT2	triga-2-pavia reactor	NT2	trico reactor		
NT2	tsr-1 reactor	NT2	triga-1-michigan reactor		
NT2	tsr-2 reactor	NT2	triga-2-pavia reactor		
NT2	urr reactor	NT2	trr-1 reactor		
NT2	uvar reactor	NT2	ucbr reactor		
NT2	viper reactor	NT2	ufr reactor		
NT2	wr-1 reactor	NT2	ulyse reactor		
NT2	wtr reactor	NT2	umne-1 reactor		
NT1	training reactors	NT2	umrr reactor		
NT2	ill high flux reactor	NT2	urr reactor		
NT2	aerojet-general nucleonics reactors	NT2	utr-10-kinki reactor		
NT3	agn 201 costanza	NT2	uvar reactor		
NT2	afri reactor	NT2	uwnr reactor		
NT2	ai-1-77 reactor	NT2	uwtr reactor		

### research center nuclear physics cyclotron

INIS: 1993-11-09; ETDE: 2002-05-03  
 Research Center for Nuclear Physics, Osaka University.  
 USE rcnp cyclotron

### research establishment risoe

INIS: 1977-03-14; ETDE: 2002-05-03  
 USE risoe research establishment

### research licenses

INIS: 1990-12-15; ETDE: 1996-02-09  
 (Prior to December 1990, this was a valid descriptor.)  
 USE licenses

**RESEARCH PROGRAMS**

To be used jointly with descriptor(s) for subject field and/or organization concerned.

- UF energy research advisory board  
 NT1 coordinated research programs  
 NT2 consolidated fuel reprocessing program  
 NT2 ifip  
 RT demonstration programs  
 RT experiment planning  
 RT historical aspects  
 RT information needs  
 RT laboratories  
 RT planning  
 RT program management  
 RT recommendations  
 RT reviews  
 RT us napap  
 RT us national program plans

**RESEARCH REACTORS**

1996-01-24

- UF la reina reactor  
 SF berkeley nuclear laboratory reactor  
 SF bnl reactor  
 \*BT1 research and test reactors  
 NT1 ill high flux reactor  
 NT1 aarr reactor  
 NT1 acpr reactor  
 NT1 aeg-pr-10 reactor  
 NT1 aerojet-general nucleonics reactors  
 NT2 agn 201 costanza  
 NT1 afri reactor  
 NT1 afsr reactor  
 NT1 agata reactor  
 NT1 ai-1-77 reactor  
 NT1 alrr reactor  
 NT1 anna reactor  
 NT1 aprf reactor  
 NT1 apsara reactor  
 NT1 arbi reactor  
 NT1 argonaut reactor  
 NT1 argos reactor  
 NT1 argus reactor  
 NT1 armf-1 reactor  
 NT1 astra reactor  
 NT1 athene reactor  
 NT1 atrp reactor  
 NT1 atsr reactor  
 NT1 avogadro rs-1 reactor  
 NT1 bam reactor  
 NT1 bepo reactor  
 NT1 ber-2 reactor  
 NT1 bgrr reactor  
 NT1 bigr reactor  
 NT1 bir reactor  
 NT1 br-02 reactor  
 NT1 br-1 reactor  
 NT1 brr reactor  
 NT1 bsr-1 reactor  
 NT1 bsr-2 reactor  
 NT1 byu 1-77 reactor  
 NT1 cabri reactor  
 NT1 carem 25 reactor  
 NT1 carr reactor  
 NT1 cesar reactor  
 NT1 cesnef reactor  
 NT1 cirus reactor  
 NT1 clementine reactor  
 NT1 cmrr reactor  
 NT1 consort-2 reactor  
 NT1 coral-1 reactor  
 NT1 cp-2 reactor  
 NT1 cp-3 reactor  
 NT1 cp-3m reactor  
 NT1 cp-5 reactor  
 NT1 cp-6 reactor  
 NT1 crocus reactor  
 NT1 democritus reactor

- NT1 dhruva reactor  
 NT1 dido reactor  
 NT1 diorit reactor  
 NT1 dmtr reactor  
 NT1 dow triga-mk-1 reactor  
 NT1 dr-1 reactor  
 NT1 dr-2 reactor  
 NT1 dr-3 reactor  
 NT1 ebor reactor  
 NT1 ebr-1 reactor  
 NT1 eco reactor  
 NT1 el-1 reactor  
 NT1 el-2 reactor  
 NT1 el-3 reactor  
 NT1 eocr reactor  
 NT1 eole reactor  
 NT1 es-salam reactor  
 NT1 etr reactor  
 NT1 etrc reactor  
 NT1 etrr-1 reactor  
 NT1 etrr-2 reactor  
 NT1 ewa reactor  
 NT1 f-1 reactor  
 NT1 fbrf reactor  
 NT1 ffff reactor  
 NT1 fir-1 reactor  
 NT1 fmrbr reactor  
 NT1 fnr reactor  
 NT1 fr-0 reactor  
 NT1 fr-2 reactor  
 NT1 frf reactor  
 NT1 frg-1 reactor  
 NT1 frg-2 reactor  
 NT1 frj-1 reactor  
 NT1 frj-2 reactor  
 NT1 frm-ii reactor  
 NT1 frm reactor  
 NT1 frn reactor  
 NT1 ga siwabessy reactor  
 NT1 giacint reactor  
 NT1 gidra reactor  
 NT1 gleep reactor  
 NT1 grenoble reactor  
 NT1 gtr reactor  
 NT1 gulf triga-mk-3 reactor  
 NT1 hanaro reactor  
 NT1 harmonie reactor  
 NT1 hector reactor  
 NT1 herald reactor  
 NT1 hero reactor  
 NT1 hew-305 reactor  
 NT1 hfbr reactor  
 NT1 hfir reactor  
 NT1 hfr reactor  
 NT1 hifar reactor  
 NT1 hor reactor  
 NT1 horace reactor  
 NT1 hprp reactor  
 NT1 hre-2 reactor  
 NT1 htlt reactor  
 NT1 htr reactor  
 NT1 hwrr reactor  
 NT1 ian-r1 reactor  
 NT1 ibr-2 reactor  
 NT1 ibr-30 reactor  
 NT1 iea-zpr reactor  
 NT1 iear-1 reactor  
 NT1 ihni-1 reactor  
 NT1 irl reactor  
 NT1 irr-1 reactor  
 NT1 irr-2 reactor  
 NT1 irt-1 libya reactor  
 NT1 irt-2000 djakarta reactor  
 NT1 irt-2000 moscow reactor  
 NT1 irt-baghdad reactor  
 NT1 irt-c reactor  
 NT1 irt-dprk reactor  
 NT1 irt-f reactor  
 NT1 irt-m reactor

- NT1 irt reactor  
 NT1 irt-sofia reactor  
 NT1 isis reactor  
 NT1 ispra-1 reactor  
 NT1 ivv-2m reactor  
 NT1 ivv-7 reactor  
 NT1 janus reactor  
 NT1 jason reactor  
 NT1 jeep-2 reactor  
 NT1 jen-1 reactor  
 NT1 jen-2 reactor  
 NT1 jen reactor  
 NT1 jmtr reactor  
 NT1 jrr-1 reactor  
 NT1 jrr-2 reactor  
 NT1 jrr-3 reactor  
 NT1 jrr-3m reactor  
 NT1 jrr-4 reactor  
 NT1 juno reactor  
 NT1 kartini-ppny reactor  
 NT1 king reactor  
 NT1 kstr reactor  
 NT1 kuhfr reactor  
 NT1 kur reactor  
 NT1 la reina rech-1 reactor  
 NT1 lfr reactor  
 NT1 lido reactor  
 NT1 lo aguirre rech-2 reactor  
 NT1 lpr reactor  
 NT1 lprr reactor  
 NT1 ltir reactor  
 NT1 lvr-15 reactor  
 NT1 marius reactor  
 NT1 maryla reactor  
 NT1 melusine-1 reactor  
 NT1 merlin reactor  
 NT1 minerve reactor  
 NT1 mitr reactor  
 NT1 mnr reactor  
 NT1 mnsr type reactors  
 NT2 entc mnsr reactor  
 NT2 gharr-1 reactor  
 NT2 mnsr-ciae reactor  
 NT2 mnsr-sd reactor  
 NT2 mnsr-sh reactor  
 NT2 mnsr-sz reactor  
 NT2 nirr-1 reactor  
 NT2 parr-2 reactor  
 NT2 srr-1 reactor  
 NT1 moata reactor  
 NT1 mr reactor  
 NT1 mrr reactor  
 NT1 murr reactor  
 NT1 myrrha facility  
 NT1 nbsr reactor  
 NT1 ncsr-1 reactor  
 NT1 nestor reactor  
 NT1 nhr-5 reactor  
 NT1 nora reactor  
 NT1 nru reactor  
 NT1 nrx reactor  
 NT1 nsrr reactor  
 NT1 ntr reactor  
 NT1 nur reactor  
 NT1 orphee reactor  
 NT1 osiris reactor  
 NT1 owr reactor  
 NT1 parr-1 reactor  
 NT1 pat reactor  
 NT1 pbr reactor  
 NT1 pctr reactor  
 NT1 phebus reactor  
 NT1 pik physical model reactor  
 NT1 pik reactor  
 NT1 prnc-l-77 reactor  
 NT1 proteus reactor  
 NT1 prtr reactor  
 NT1 psbr reactor  
 NT1 ptr reactor

**NT1** pulstar-buffalo reactor  
**NT1** pulstar-raleigh reactor  
**NT1** r-1 reactor  
**NT1** r-2 reactor  
**NT1** r-a reactor  
**NT1** r2-0 reactor  
**NT1** ra-0 reactor  
**NT1** ra-10 reactor  
**NT1** ra-2 reactor  
**NT1** ra-3 reactor  
**NT1** ra-4 reactor  
**NT1** ra-5 reactor  
**NT1** ra-6 reactor  
**NT1** ra-8 reactor  
**NT1** rake-2 reactor  
**NT1** rana reactor  
**NT1** rb-1 reactor  
**NT1** rg-1m reactor  
**NT1** rien-1 reactor  
**NT1** rinsc reactor  
**NT1** ritmo reactor  
**NT1** rmb reactor  
**NT1** romashka reactor  
**NT1** rp-10 reactor  
**NT1** rpt reactor  
**NT1** rts-1 reactor  
**NT1** rv-1 reactor  
**NT1** safari-1 reactor  
**NT1** sbr-1 reactor  
**NT1** sbr-2 reactor  
**NT1** sbr-5 reactor  
**NT1** scarabee reactor  
**NT1** silene reactor  
**NT1** slowpoke type reactors  
**NT2** slowpoke-alberta reactor  
**NT2** slowpoke-dalhousie reactor  
**NT2** slowpoke-mona reactor  
**NT2** slowpoke-montreal reactor  
**NT2** slowpoke-ottawa reactor  
**NT2** slowpoke rmc reactor  
**NT2** slowpoke src reactor  
**NT2** slowpoke-toronto reactor  
**NT2** slowpoke-wnre reactor  
**NT1** sm-1 subcritical assembly  
**NT1** sneak reactor  
**NT1** sora reactor  
**NT1** spert-1 reactor  
**NT1** spr-2 reactor  
**NT1** spr-3 reactor  
**NT1** spr-4 reactor  
**NT1** spr iae reactor  
**NT1** sprr-300 reactor  
**NT1** sr-1 reactor  
**NT1** sr-0a reactor  
**NT1** srcc-utr-100 reactor  
**NT1** stf reactor  
**NT1** supo reactor  
**NT1** swierk r-2 reactor  
**NT1** taiwan research reactor  
**NT1** tapiro reactor  
**NT1** tca reactor  
**NT1** thetis reactor  
**NT1** thor reactor  
**NT1** tibr reactor  
**NT1** tory-2a reactor  
**NT1** toshiba reactor  
**NT1** tr-1 reactor  
**NT1** tr-2 reactor  
**NT1** triga-1-michigan reactor  
**NT1** triton reactor  
**NT1** trr-1 reactor  
**NT1** tsr-2 reactor  
**NT1** ufr reactor  
**NT1** uknr reactor  
**NT1** umne-1 reactor  
**NT1** umrr reactor  
**NT1** utr-10-kinki reactor  
**NT1** utrr reactor  
**NT1** uvar reactor

**NT1** vera reactor  
**NT1** viper reactor  
**NT1** vpi-utr-10 reactor  
**NT1** wrrr reactor  
**NT1** wsur reactor  
**NT1** wtr reactor  
**NT1** wwr-2 reactor  
**NT1** wwr-k-almaty reactor  
**NT1** wwr-m-kiiev reactor  
**NT1** wwr-m-leningrad reactor  
**NT1** wwr-s-bucharest reactor  
**NT1** wwr-s-cairo reactor  
**NT1** wwr-s-moscow reactor  
**NT1** wwr-s-prague reactor  
**NT1** wwr-s-tashkent reactor  
**NT1** wwr-sm rossendorf reactor  
**NT1** wwr-z reactor  
**NT1** x-10 reactor  
**NT1** xapr reactor  
**NT1** zebra reactor  
**NT1** zeep reactor  
**NT1** zenith reactor  
**NT1** zerlina reactor  
**NT1** zlfr reactor  
**NT1** zppr reactor

## RESELLERS

*INIS: 1992-04-03; ETDE: 1979-09-28*

*UF* wholesale buyers  
*UF* wholesale sellers  
*UF* wholesalers  
**BT1** marketers  
*RT* commercial sector  
*RT* competition  
*RT* economics  
*RT* industry  
*RT* market

## RESERPINE

**\*BT1** alkaloids  
**\*BT1** antihypertensive agents  
**\*BT1** hypnotics and sedatives  
**\*BT1** indoles  
**\*BT1** sympatholytics  
**\*BT1** tranquilizers

## reserve capacity

*INIS: 1982-12-03; ETDE: 1977-06-02*

*USE* capacity

## RESERVES

*1995-04-06*

*Available and economically recoverable natural resources.*

*UF* fossil fuel reserves  
*UF* ore reserves  
**BT1** resources  
**NT1** coal reserves  
**NT1** strategic petroleum reserve  
**NT1** thorium reserves  
**NT1** uranium reserves  
**NT1** us naval oil shale reserves  
**NT1** us naval petroleum reserves  
*RT* natural gas deposits  
*RT* oil sand deposits  
*RT* oil shale deposits  
*RT* petroleum deposits  
*RT* resource assessment  
*RT* resource exploitation  
*RT* stockpiles

## RESERVOIR ENGINEERING

*INIS: 1992-05-21; ETDE: 1977-03-04*

**BT1** engineering  
*RT* reservoir rock  
*RT* water reservoirs

## RESERVOIR FLUIDS

*INIS: 1992-04-08; ETDE: 1979-03-27*

**BT1** fluids  
*RT* drawdown

*RT* interstitial water  
*RT* natural gas fields  
*RT* oil fields

## reservoir gas saturation

*INIS: 2000-01-05; ETDE: 1977-06-02*

*USE* gas saturation

## RESERVOIR PRESSURE

*INIS: 2000-01-24; ETDE: 1978-09-11*

*UF* datum pressure  
*UF* formation pressure  
*UF* initial reservoir pressure  
*UF* sand pressure  
*UF* shutin pressure  
*UF* static reservoir pressure  
**NT1** well pressure  
*RT* aquifers  
*RT* geologic formations  
*RT* geopressured systems  
*RT* ground water

## RESERVOIR ROCK

*INIS: 1992-01-20; ETDE: 1976-03-11*

*Porous and permeable rock containing producible oil, gas, or geothermal fluid in its pore spaces.*

*RT* carbonate rocks  
*RT* formation damage  
*RT* fractured reservoirs  
*RT* gas saturation  
*RT* heterogeneous effects  
*RT* interstitial water  
*RT* natural gas fields  
*RT* oil fields  
*RT* oil saturation  
*RT* plugging  
*RT* plugging agents  
*RT* reservoir engineering  
*RT* rocks  
*RT* sand  
*RT* source rocks  
*RT* water influx  
*RT* water saturation

## RESERVOIR TEMPERATURE

*INIS: 1992-07-21; ETDE: 1978-12-11*

**NT1** well temperature  
*RT* temperature measurement

## reservoirs (water)

*USE* water reservoirs

## resid

*INIS: 1992-04-02; ETDE: 1976-01-23*

*USE* petroleum residues

## RESIDENCE HALF-TIME

*1982-12-08*

*UF* residence time distribution  
*RT* earth atmosphere  
*RT* fallout  
*RT* half-life  
*RT* radioactivity

## residence time distribution

*2005-05-20*

*USE* distribution functions  
*USE* residence half-time

## residences

*2000-04-12*

*USE* houses

## RESIDENTIAL BUILDINGS

*INIS: 1992-03-04; ETDE: 1978-04-06*

*UF* dormitories  
**BT1** buildings  
**NT1** apartment buildings  
**NT1** houses  
**NT1** mobile homes  
*RT* hotels

RT households  
RT toilets

**RESIDENTIAL SECTOR**

INIS: 1993-03-24; ETDE: 1976-04-19

SF end use sector  
RT commercial sector  
RT communities  
RT households  
RT human populations  
RT mobile homes  
RT rural areas  
RT sectoral analysis  
RT service sector  
RT urban areas

**residual fuel oil**

INIS: 1992-05-21; ETDE: 1976-01-23

USE residual fuels

**RESIDUAL FUELS**

INIS: 1992-05-21; ETDE: 1976-01-23

UF bunker oils  
UF heavy fuels  
UF nos. 4, 5, and 6 fuel oils  
UF nos. 5 and 6 burner oils  
UF residual fuel oil  
UF residuums  
\*BT1 fuel oils  
RT petroleum residues  
RT rose process

**residual heat removal**

2000-04-12

USE rhr systems

**residual-heat removal**

INIS: 1975-12-19; ETDE: 2002-05-03

USE after-heat removal

**RESIDUAL INTERACTIONS**

BT1 interactions

**residual oils**

INIS: 1992-04-02; ETDE: 1977-10-20

USE petroleum residues

**RESIDUAL PETROLEUM**

INIS: 1992-10-01; ETDE: 1976-07-07

Liquid petroleum remaining in the formation at the end of a specified production process.

\*BT1 petroleum

**RESIDUAL POWER**

ETDE: 1975-09-11

Radiation power released by decaying fission products in irradiated nuclear fuel after irradiation has ceased, e.g., after reactor shutdown.

\*BT1 nuclear power  
RT after-heat  
RT reactor shutdown

**RESIDUAL STRESSES**

BT1 stresses

**RESIDUES**

NT1 ashes  
NT2 fly ash  
NT1 gangue  
NT1 smokes  
NT2 tobacco smokes  
RT wastes

**residues (mathematical)**

USE integral calculus  
USE singularity

**residues (radioactive)**

USE radioactive wastes

**residuums**

INIS: 1992-05-21; ETDE: 1976-01-23

USE residual fuels

**RESINITE**

INIS: 1997-06-19; ETDE: 1996-03-29

BT1 macerals

**RESINS**

\*BT1 organic polymers  
\*BT1 petrochemicals  
RT araldite  
RT bakelite  
RT desiccants  
RT epoxides  
RT ion exchange chromatography  
RT ion exchange materials  
RT matrix materials

**resist**

INIS: 2000-04-12; ETDE: 1980-03-29

SEE masking

**resistal**

2000-04-12

USE copper base alloys

**resistance heating**

INIS: 2000-04-12; ETDE: 1977-04-14

(Prior to March 1997 this was a valid ETDE descriptor.)

USE electric heating

**RESISTANCE WELDING**

1996-07-23

(Prior to March 1997 PROJECTION WELDING was a valid ETDE descriptor.)

UF projection welding  
\*BT1 welding  
NT1 flash welding

**resistivity (electric)**

USE electric conductivity

**RESISTIVITY LOGGING**

INIS: 2000-06-27; ETDE: 1976-06-07

UF focussed logging  
UF guard logging  
UF laterologging  
\*BT1 electric logging  
RT electrical surveys  
RT induction logging

**RESISTIVITY SURVEYS**

INIS: 1999-03-03; ETDE: 1980-03-04

Surveys of ground resistivity.

(Until March 1999 this concept was indexed by ELECTRICAL SURVEYS.)

\*BT1 electrical surveys

**RESISTORS**

1996-07-08

(Prior to August 1996 RHEOSTATS was a valid ETDE descriptor.)

UF potentiometers (variable resistors)  
UF rheostats  
\*BT1 electrical equipment  
NT1 photoresistors  
NT1 semiconductor resistors  
RT conductor devices  
RT potentiometers  
RT thermistors  
RT voltage drop

**RESOLUTION**

NT1 energy resolution  
NT1 linear momentum resolution  
NT1 mass resolution  
NT1 spatial resolution  
NT1 time resolution  
RT accuracy  
RT comparative evaluations

RT electron microscopy  
RT errors  
RT particle discrimination  
RT performance  
RT sensitivity  
RT signal-to-noise ratio

**RESONANCE**

UF analog resonances (isobaric)  
NT1 cyclotron resonance  
NT2 azbel-kaner resonance  
NT2 electron cyclotron-resonance  
NT2 ion cyclotron-resonance  
NT1 electric resonance  
NT2 paraelectric resonance  
NT1 fermi resonance  
NT1 giant resonance  
NT1 helicon resonance  
NT1 hybrid resonance  
NT1 intermediate resonance  
NT1 level mixing resonance  
NT1 magnetic resonance  
NT2 eldor  
NT2 electron spin resonance  
NT3 acoustic esr  
NT2 endor  
NT2 ferrimagnetic resonance  
NT2 ferromagnetic resonance  
NT2 nuclear magnetic resonance  
NT3 acoustic nmr  
NT3 td-nmr

NT1 nuclear quadrupole resonance  
RT bump-in-tail instability  
RT giant resonance model  
RT harmonics  
RT mode conversion  
RT multilevel analysis  
RT reich-moore formula  
RT resonance fluorescence  
RT resonance integrals  
RT resonance particles  
RT resonance scattering  
RT resonators  
RT synchronization  
RT tuning

**RESONANCE ABSORPTION**

\*BT1 absorption

**resonance cavities**

USE cavity resonators

**RESONANCE ESCAPE****PROBABILITY**

RT dancoff correction  
RT multiplication factors

**RESONANCE FLUORESCENCE**

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 fluorescence  
RT moessbauer effect  
RT resonance  
RT resonance scattering

**RESONANCE INTEGRALS**

BT1 integrals  
RT resonance

**RESONANCE IONIZATION MASS SPECTROSCOPY**

INIS: 1986-03-04; ETDE: 1985-04-24

SF rims  
\*BT1 mass spectroscopy  
RT icp mass spectroscopy

**RESONANCE NEUTRONS**

1996-01-24

\*BT1 neutrons  
RT fission ratio  
RT intermediate neutrons  
RT intermediate reactors

**RESONANCE PARTICLES**

- \*BT1 hadrons
- NT1 exotic resonances
- RT dalitz plot
- RT deck effect
- RT prism plot
- RT resonance

**RESONANCE SCATTERING**

- \*BT1 inelastic scattering
- RT acoustic esr
- RT acoustic nmr
- RT deep inelastic scattering
- RT resonance
- RT resonance fluorescence

**resonance states**

- USE energy levels

**resonance test reactor savannah**

- USE rtr reactor

**RESONANT-IONIZATION LASER ION SOURCES**

2018-02-26

- UF *rilis*
- \*BT1 laser ion sources

**RESONATING-GROUP METHOD**

- \*BT1 variational methods
- RT nuclear reaction kinetics
- RT nucleon-nucleon potential
- RT scattering
- RT two-body problem

**RESONATORS**

INIS: 1999-07-05; ETDE: 1979-02-27

- \*BT1 electronic equipment
- NT1 cavity resonators
- NT2 superconducting cavity resonators
- NT1 split-ring resonators
- RT microwave equipment
- RT oscillators
- RT pulse techniques
- RT resonance
- RT rf systems

**resorcin**

- USE resorcinol

**RESORCINOL**

- UF *1,3-dihydroxybenzene*
- UF *dihydroxybenzene-meta*
- UF *resorcin*
- BT1 developers
- \*BT1 polyphenols

**RESOURCE ASSESSMENT**

INIS: 1993-02-18; ETDE: 1977-11-09

*Techniques to determine resource potential.*

- RT energy source development
- RT probabilistic estimation
- RT rangelands
- RT reserves

**RESOURCE CONSERVATION**

INIS: 1982-12-03; ETDE: 1975-09-11

- UF *conservation (resource)*
- UF *conservation (resources)*
- NT1 soil conservation
- RT energy conservation
- RT environmental protection
- RT interchangeability
- RT life cycle assessment
- RT recycling
- RT resource depletion
- RT resource recovery acts
- RT resources

**RESOURCE DEPLETION**

INIS: 1995-04-06; ETDE: 1977-07-23

- RT resource conservation

- RT resource exploitation
- RT resources
- RT severance tax
- RT sustainable development
- RT us depletion allowances

**RESOURCE DEVELOPMENT**

INIS: 1992-03-12; ETDE: 1978-12-11

- NT1 sustainable development
- RT economic development
- RT energy source development
- RT resources

**RESOURCE EXPLOITATION**

INIS: 1995-04-07; ETDE: 1995-05-09

- SF *exploitation*
- RT leasing
- RT mining
- RT petroleum industry
- RT reserves
- RT resource depletion
- RT sustainable development

**RESOURCE MANAGEMENT**

INIS: 1992-04-13; ETDE: 1985-06-21

- BT1 management
- RT energy management
- RT energy source development
- RT mineral resources
- RT property management
- RT resources
- RT sustainable development

**RESOURCE POTENTIAL**

INIS: 1993-04-07; ETDE: 1978-06-14

*Capability of resources for development.*

- RT energy source development
- RT exploration
- RT mineral resources
- RT resources

**RESOURCE RECOVERY ACTS**

1992-06-04

(Prior to February 1992 this was a valid ETDE descriptor.)

- UF *us resource recovery acts*
- BT1 laws
- RT energy conservation
- RT regulations
- RT resource conservation
- RT waste disposal acts

**RESOURCE RECOVERY FACILITIES**

INIS: 1992-07-09; ETDE: 1979-03-27

- UF *facilities (resource recovery)*
- BT1 energy facilities
- \*BT1 waste processing plants
- RT energy recovery
- RT materials recovery
- RT refuse derived fuels

**RESOURCES**

1978-04-21

*The totality of the discovered and undiscovered quantities of a particular mineral or similar commodity.*

- SF *renewable resources*
- NT1 cultural resources
- NT1 geothermal resources
- NT1 land resources
- NT1 mineral resources
- NT2 coal deposits
- NT3 coal seams
- NT2 natural gas deposits
- NT3 natural gas fields
- NT4 gas condensate fields
- NT2 oil shale deposits
- NT3 us naval oil shale reserves
- NT2 petroleum deposits
- NT3 gas condensate fields

- NT3 oil fields
- NT4 weyburn field
- NT3 us naval petroleum reserves
- NT2 uranium deposits
- NT3 blizzard deposit
- NT3 erzgebirge deposit
- NT3 jabiluka deposit
- NT3 koongarra deposit
- NT3 nabarlek deposit
- NT3 ranger deposit
- NT3 ranstad deposit
- NT3 roxby downs deposit
- NT3 south alligator deposit
- NT3 yeelirrie deposit

- NT1 nature reserves
- NT1 reserves
- NT2 coal reserves
- NT2 strategic petroleum reserve
- NT2 thorium reserves
- NT2 uranium reserves
- NT2 us naval oil shale reserves
- NT2 us naval petroleum reserves
- NT1 water resources
- RT raw materials
- RT resource conservation
- RT resource depletion
- RT resource development
- RT resource management
- RT resource potential

**RESOX PROCESS**

INIS: 2000-04-12; ETDE: 1977-04-12

*Proprietary process developed by Foster Wheeler using anthracite coal as catalyst and reducing agent to convert 90% of inlet sulfur dioxide to elemental sulfur.*

- \*BT1 desulfurization
- RT materials recovery
- RT sulfur
- RT waste processing

**respirable dusts**

INIS: 2000-04-12; ETDE: 1977-06-24

- USE dusts

**RESPIRATION**

- UF *breathing*
- RT air
- RT anoxia
- RT blood
- RT breath
- RT capillaries
- RT carboxyhemoglobin
- RT diaphragm
- RT hemoglobin
- RT inhalation
- RT krebs cycle
- RT lungs
- RT metabolism
- RT methemoglobin
- RT oxidoreductases
- RT physiology
- RT respirators
- RT respiratory system
- RT respiratory system diseases

**RESPIRATORS**

- UF *masks*
- UF *respiratory equipment*
- RT aerosols
- RT air
- RT breath
- RT dusts
- RT face
- RT filters
- RT inhalation
- RT life support systems
- RT protective clothing
- RT radiation protection
- RT respiration

*RT* respiratory system

### **respiratory equipment**

USE respirators

### **RESPIRATORY SYSTEM**

**NT1** bronchi  
**NT1** gills  
**NT1** larynx  
**NT1** lungs  
**NT1** nose  
**NT1** pharynx  
**NT1** trachea  
*RT* air  
*RT* breath  
*RT* chest  
*RT* inhalation  
*RT* lavage  
*RT* lung clearance  
*RT* organs  
*RT* respiration  
*RT* respirators  
*RT* respiratory system diseases

### **RESPIRATORY SYSTEM DISEASES**

UF bronchogenic carcinoma  
**BT1** diseases  
**NT1** asthma  
**NT1** bronchitis  
**NT1** emphysema  
**NT1** pneumoconioses  
**NT2** berylliosis  
**NT1** pneumonia  
**NT2** bronchopneumonia  
*RT* breath  
*RT* respiration  
*RT* respiratory system

### **RESPIRATORY TRACT CELLS**

INIS: 1978-11-24; ETDE: 1977-11-28  
 UF lung cells  
 \***BT1** somatic cells  
*RT* bronchi  
*RT* lungs

### **RESPONSE FUNCTIONS**

Describing the response of a system to external action.

**BT1** functions  
*RT* electronic circuits  
*RT* mathematical models  
*RT* measuring instruments  
*RT* mechanical structures  
*RT* parametric analysis  
*RT* sensitivity analysis  
*RT* structural models

### **RESPONSE MATRIX METHOD**

**BT1** calculation methods  
 \***BT1** reactor kinetics equations  
*RT* criticality

### **RESPONSE MODIFYING FACTORS**

For biological effects.

UF oxygen effect (radiobiology)  
 UF protective chemicals  
 SF tumor necrosis factor  
**NT1** radioprotective substances  
**NT2** beta-aminoethyl isothiourrea  
**NT2** cystamine  
**NT2** cystaphos  
**NT2** cysteamine  
**NT2** dimercaprol  
**NT2** dtpa  
**NT2** gammaphos  
**NT2** glutathione  
**NT2** hydroxytryptophan  
**NT2** kallikrein  
**NT2** mercaptoethylguanidine  
**NT2** mercaptopropylamine  
**NT2** mexamine

**NT2** mpg  
**NT2** penicillamine  
**NT2** serotonin  
**NT3** bufotenine  
**NT1** radiosensitizers  
**NT2** fudr  
**NT2** metronidazole  
**NT2** misonidazole  
**NT2** nem  
**NT2** triacetoneamine-n-oxyl  
*RT* adrenalectomy  
*RT* biological effects  
*RT* biological recovery  
*RT* mitogens  
*RT* oxygen enhancement ratio  
*RT* radiation effects  
*RT* radiosensitivity

### **REST MASS**

**BT1** mass  
*RT* special relativity theory

### **RESTAURANTS**

INIS: 2000-04-12; ETDE: 1978-07-05  
 UF cafeterias  
 UF dining halls  
*RT* commercial buildings  
*RT* commercial sector  
*RT* food  
*RT* food industry  
*RT* small businesses

### **restoration**

USE biological recovery

### **RESTRAINTS**

INIS: 1981-02-27; ETDE: 1975-07-29  
 UF pipe restraints  
**NT1** reactor core restraints  
*RT* damping  
*RT* fasteners  
*RT* pipe fittings  
*RT* pipes  
*RT* reactor cooling systems  
*RT* shock absorbers  
*RT* supports

### **resuspension**

INIS: 2000-04-12; ETDE: 1977-05-07  
 USE particle resuspension

### **resuspension (particles)**

INIS: 1981-02-27; ETDE: 2002-05-03  
 USE particle resuspension

### **retail buyers**

INIS: 2000-04-12; ETDE: 1979-05-09  
 USE retailers

### **RETAIL PRICES**

INIS: 1993-02-19; ETDE: 1979-06-06  
 (From September 1979 until March 1996 CONSUMER PRICE INDEX was a valid ETDE descriptor.)

UF consumer price index  
 UF consumer prices  
**BT1** prices  
*RT* retailers  
*RT* wholesale prices

### **retail sellers**

INIS: 2000-04-12; ETDE: 1979-05-09  
 USE retailers

### **RETAILERS**

INIS: 1992-04-03; ETDE: 1979-05-09  
 Persons or organizations engaged in the sale of commodities or goods in small quantities to ultimate consumers.  
 UF retail buyers  
 UF retail sellers  
**BT1** marketers

**NT1** gasoline service stations  
*RT* commercial sector  
*RT* competition  
*RT* economics  
*RT* industry  
*RT* market  
*RT* marketing  
*RT* prices  
*RT* retail prices  
*RT* small businesses

### **RETENTION**

In living organisms.

*RT* animal tissues  
*RT* biological availability  
*RT* biological hot spots  
*RT* biological localization  
*RT* body  
*RT* compartments  
*RT* critical organs  
*RT* deposition  
*RT* edema  
*RT* excretion  
*RT* hot atom chemistry  
*RT* maximum permissible body burden  
*RT* organs  
*RT* radionuclide kinetics  
*RT* retention functions  
*RT* uptake  
*RT* whole-body counting

### **RETENTION FUNCTIONS**

UF excretion functions  
**BT1** functions  
*RT* compartments  
*RT* radionuclide kinetics  
*RT* retention  
*RT* time dependence

### **reticular cells**

USE reticuloendothelial system

### **RETICULOCYTES**

\***BT1** erythrocytes

### **RETICULOENDOTHELIAL SYSTEM**

UF kupffer cells  
 UF reticular cells  
 \***BT1** animal tissues  
*RT* bone marrow  
*RT* connective tissue  
*RT* immune system diseases  
*RT* liver  
*RT* lymph nodes  
*RT* lymphatic system  
*RT* macrophages  
*RT* phagocytosis  
*RT* spleen

### **RETINA**

\***BT1** eyes  
*RT* nervous system  
*RT* rhodopsin

### **retinal pigment**

INIS: 1986-03-04; ETDE: 2002-05-03  
 USE rhodopsin

### **RETINOIC ACID**

INIS: 2000-04-12; ETDE: 1982-05-24  
 \***BT1** carboxylic acid esters  
*RT* vitamin a

### **retinol**

INIS: 2000-04-12; ETDE: 1982-05-24  
 USE vitamin a

### **retorted shales**

INIS: 1992-04-13; ETDE: 1979-07-18  
 USE spent shales



**RETORTING**

1980-07-24

The process of extracting a desirable substance from a naturally occurring deposit.

SF fushun process

\*BT1 decomposition

\*BT1 ore processing

NT1 in-situ retorting

RT coking

RT destructive distillation

RT heating

RT hydrotorting process

RT hytort process

RT in-situ processing

RT lurgi-ruhrgas process

RT modified in-situ processes

RT ntu process

RT oil shales

RT process heat

RT pyrolysis

RT retorts

RT rope process

RT shell pellet heat exchanger retorting

RT t3 process

**RETORTS**

2000-07-11

UF pumpherton retort

BT1 chemical reactors

\*BT1 distillation equipment

RT retorting

**RETREAT MINING**

INIS: 2000-04-12; ETDE: 1979-09-27

\*BT1 underground mining

RT coal mining

**retrieval systems**

INIS: 2000-04-12; ETDE: 1979-08-07

For retrieval of information, see

INFORMATION RETRIEVAL.

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE materials handling

SEE remote handling equipment

SEE waste retrieval

**RETROFITTING**

INIS: 1979-04-27; ETDE: 1975-11-11

UF backfitting

RT buildings

RT construction

RT licensing regulations

RT modifications

RT safety standards

RT solar repowering

**REUNION ISLAND**

2004-05-28

\*BT1 france

BT1 islands

RT indian ocean

**REVEGETATION**

1976-07-16

Process of providing a new vegetative cover for land previously stripped of vegetation.

RT deforestation

RT erosion control

RT ground cover

RT land reclamation

RT plants

RT preferred species

RT soil conservation

**REVERSE COMBUSTION**

INIS: 2000-04-12; ETDE: 1976-05-13

\*BT1 combustion

RT in-situ combustion

**REVERSE-FIELD PINCH**

INIS: 1975-12-19; ETDE: 1976-01-26

UF trx-1

BT1 pinch effect

RT artemis device

RT hbtx devices

RT magnetic field reversal

RT magnetic reconnection

RT mst device

RT reversed-field mirrors

RT rfx device

RT stx devices

RT tpe-1rm15 device

RT zt-40 devices

RT zt-p devices

**reverse osmosis**

USE osmosis

**REVERSED-FIELD MIRRORS**

INIS: 1982-11-30; ETDE: 1991-10-29

UF field-reversed mirror reactors

UF field-reversed mirrors

\*BT1 magnetic mirrors

RT magnetic field reversal

RT reverse-field pinch

**REVERSED-FIELD PINCH DEVICES**

1994-03-15

\*BT1 toroidal pinch devices

NT1 artemis device

NT1 extrap-t2 device

NT1 hbtx devices

NT1 mst device

NT1 rfx device

NT1 tpe-1rm15 device

NT1 tpe-rx device

NT1 zt-40 devices

NT1 zt-p devices

RT beta ratio

RT electric currents

RT magnetic field configurations

RT rotational transform

RT toroidal configuration

**REVERSED SHEAR**

INIS: 1999-07-26; ETDE: 1999-09-03

RT rotational transform

RT shear

**reversible turbines**

INIS: 2000-04-12; ETDE: 1980-01-24

USE pump turbines

**REVERTANTS**

INIS: 1978-11-24; ETDE: 1978-12-20

BT1 mutants

RT mutations

**REVIEWS**

Critical assessment of work and data usually accompanied by an extensive bibliography.

BT1 document types

RT research programs

**REWETTING**

INIS: 1975-08-22; ETDE: 1976-08-24

RT dryout

RT heat transfer

RT hot spots

RT surfaces

**rexco process**

2000-04-12

Process for manufacturing smokeless fuel.

SEE coal

**REYNOLDS NUMBER**

BT1 dimensionless numbers

NT1 magnetic reynolds number

RT boundary layers

RT friction factor

RT turbulent flow

RT viscous flow

**rez Ir-0 reactor**

INIS: 1998-07-07; ETDE: 1995-01-03

USE Ir-0 reactor

**rez tr-0 reactor**

USE tr-0 reactor

**rezistal**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE chromium alloys

USE iron base alloys

USE nickel alloys

**RF ION SOURCES**

2018-02-26

\*BT1 plasma ion sources

**RF SYSTEMS**

UF radiofrequency systems

RT cavity resonators

RT cyclic accelerators

RT gyrocons

RT klystrons

RT lasertrons

RT magnetrons

RT microwave power transmission

RT power supplies

RT radio equipment

RT radiowave radiation

RT resonators

RT squid devices

RT superconducting cavity resonators

RT travelling wave tubes

RT tuning

**RFLPS**

INIS: 2000-01-11; ETDE: 1987-10-22

Restriction Fragment Length Polymorphisms.

RT chromosomes

RT endonucleases

RT genes

RT genetic mapping

RT genetic variability

RT human chromosomes

**rfq (accelerators)**

INIS: 1991-10-09; ETDE: 2002-05-03

USE quadrupole linacs

**RFX DEVICE**

1994-03-15

Reversed-Field Experiment at the University of Padua, Italy.

\*BT1 reversed-field pinch devices

RT reverse-field pinch

**RG-1M REACTOR**

UF norilsk research reactor rg-1m

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**RHABDOMYOSARCOMAS**

\*BT1 myosarcomas

**rhauletis cerasi**

INIS: 1996-07-23; ETDE: 1976-01-26

(Until July 1996 this was a valid descriptor.)

USE fruit flies

**RHEINSBERG AKW1 REACTOR**

Gransee, Rheinsberg, Federal Republic of Germany. Permanent shutdown since 1990.

UF akw1 rheinsberg reactor

*UF atomkraftwerk rehsberg akw1 reaktor*

\*BT1 pwr type reactors

## RHENATES

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 oxygen compounds

\*BT1 rhenium compounds

*RT rhenium oxides*

## RHENIUM

\*BT1 refractory metals

\*BT1 transition elements

## RHENIUM 159

*2007-07-10*

\*BT1 intermediate mass nuclei

\*BT1 microseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 rhenium isotopes

## RHENIUM 160

*2007-07-10*

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 microseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

\*BT1 rhenium isotopes

## RHENIUM 161

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rhenium isotopes

## RHENIUM 162

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rhenium isotopes

## RHENIUM 163

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rhenium isotopes

## RHENIUM 164

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rhenium isotopes

## RHENIUM 165

*INIS: 1983-09-01; ETDE: 1983-07-07*

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 rhenium isotopes

\*BT1 seconds living radioisotopes

## RHENIUM 166

*INIS: 1979-04-27; ETDE: 1979-05-25*

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 rhenium isotopes

\*BT1 seconds living radioisotopes

## RHENIUM 167

*INIS: 1979-04-27; ETDE: 1979-05-25*

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 rhenium isotopes

\*BT1 seconds living radioisotopes

## RHENIUM 168

*INIS: 1978-11-24; ETDE: 1978-12-20*

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 rhenium isotopes

\*BT1 seconds living radioisotopes

## RHENIUM 169

*INIS: 1978-11-24; ETDE: 1978-12-20*

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 rhenium isotopes

\*BT1 seconds living radioisotopes

## RHENIUM 170

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 rhenium isotopes

\*BT1 seconds living radioisotopes

## RHENIUM 171

*INIS: 1987-09-22; ETDE: 1987-10-02*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 rhenium isotopes

\*BT1 seconds living radioisotopes

## RHENIUM 172

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 rhenium isotopes

\*BT1 seconds living radioisotopes

## RHENIUM 173

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rhenium isotopes

## RHENIUM 174

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rhenium isotopes

## RHENIUM 175

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rhenium isotopes

## RHENIUM 176

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rhenium isotopes

## RHENIUM 177

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rhenium isotopes

## RHENIUM 178

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rhenium isotopes

## RHENIUM 179

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rhenium isotopes

## RHENIUM 180

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rhenium isotopes

## RHENIUM 181

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rhenium isotopes

## RHENIUM 182

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rhenium isotopes

## RHENIUM 183

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 internal conversion radioisotopes

\*BT1 odd-even nuclei

\*BT1 rhenium isotopes

## RHENIUM 184

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 rhenium isotopes

## RHENIUM 184 TARGET

*INIS: 1979-09-18; ETDE: 1977-04-12*

BT1 targets

## RHENIUM 185

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 rhenium isotopes

\*BT1 stable isotopes

**RHENIUM 185 TARGET***ETDE: 1976-07-09*

BT1 targets

**RHENIUM 186**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 years living radioisotopes

**RHENIUM 186 TARGET***ETDE: 1976-07-09*

BT1 targets

**RHENIUM 187**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 stable isotopes  
 \*BT1 years living radioisotopes

**RHENIUM 187 TARGET***ETDE: 1976-07-09*

BT1 targets

**RHENIUM 188**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 189**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 190**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 191**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 192**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 193***2007-07-10*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 194***2007-07-10*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei

\*BT1 isomeric transition isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 195***2010-03-02*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 196***2010-03-02*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM ADDITIONS***Alloys containing not more than 1% Re are listed here.*

\*BT1 rhenium alloys

**RHENIUM ALLOYS***1995-02-27**Alloys containing more than 1% Re.*

\*BT1 transition element alloys

NT1 rhenium additions

NT1 rhenium base alloys

**RHENIUM BASE ALLOYS**

\*BT1 rhenium alloys

**RHENIUM BORIDES**

\*BT1 borides  
 \*BT1 rhenium compounds

**RHENIUM BROMIDES**

\*BT1 bromides  
 \*BT1 rhenium halides

**RHENIUM CARBIDES**

\*BT1 carbides  
 \*BT1 rhenium compounds

**RHENIUM CARBONATES***2000-04-12*

\*BT1 carbonates  
 \*BT1 rhenium compounds

**RHENIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 rhenium halides

**RHENIUM COMPLEXES**

\*BT1 transition element complexes

**RHENIUM COMPOUNDS***1997-06-19*

BT1 refractory metal compounds  
 BT1 transition element compounds  
 NT1 perhenates  
 NT1 rhenates  
 NT1 rhenium borides  
 NT1 rhenium carbides  
 NT1 rhenium carbonates  
 NT1 rhenium halides  
 NT2 rhenium bromides  
 NT2 rhenium chlorides  
 NT2 rhenium fluorides  
 NT2 rhenium iodides  
 NT1 rhenium hydrides  
 NT1 rhenium hydroxides  
 NT1 rhenium nitrides  
 NT1 rhenium oxides  
 NT1 rhenium selenides  
 NT1 rhenium silicides  
 NT1 rhenium sulfates

NT1 rhenium sulfides  
 NT1 rhenium tellurides

**RHENIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 rhenium halides

**RHENIUM HALIDES***INIS: 1991-09-16; ETDE: 1975-07-29*

\*BT1 halides  
 \*BT1 rhenium compounds  
 NT1 rhenium bromides  
 NT1 rhenium chlorides  
 NT1 rhenium fluorides  
 NT1 rhenium iodides

**RHENIUM HYDRIDES***1979-11-02*

\*BT1 hydrides  
 \*BT1 rhenium compounds

**RHENIUM HYDROXIDES***1996-07-08**(From June 1996 to November 2007**RHENIUM COMPOUNDS + HYDROXIDES was used for this concept.)*

\*BT1 hydroxides  
 \*BT1 rhenium compounds

**RHENIUM IODIDES***INIS: 1979-01-18; ETDE: 1976-12-15*

\*BT1 iodides  
 \*BT1 rhenium halides

**RHENIUM IONS**

\*BT1 ions

**RHENIUM ISOTOPES***1999-07-16*

BT1 isotopes  
 NT1 rhenium 159  
 NT1 rhenium 160  
 NT1 rhenium 161  
 NT1 rhenium 162  
 NT1 rhenium 163  
 NT1 rhenium 164  
 NT1 rhenium 165  
 NT1 rhenium 166  
 NT1 rhenium 167  
 NT1 rhenium 168  
 NT1 rhenium 169  
 NT1 rhenium 170  
 NT1 rhenium 171  
 NT1 rhenium 172  
 NT1 rhenium 173  
 NT1 rhenium 174  
 NT1 rhenium 175  
 NT1 rhenium 176  
 NT1 rhenium 177  
 NT1 rhenium 178  
 NT1 rhenium 179  
 NT1 rhenium 180  
 NT1 rhenium 181  
 NT1 rhenium 182  
 NT1 rhenium 183  
 NT1 rhenium 184  
 NT1 rhenium 185  
 NT1 rhenium 186  
 NT1 rhenium 187  
 NT1 rhenium 188  
 NT1 rhenium 189  
 NT1 rhenium 190  
 NT1 rhenium 191  
 NT1 rhenium 192  
 NT1 rhenium 193  
 NT1 rhenium 194  
 NT1 rhenium 195  
 NT1 rhenium 196

**RHENIUM NITRIDES***1977-06-13*

\*BT1 nitrides

\*BT1 rhenium compounds

### **rhenium ores**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE ores

### **RHENIUM OXIDES**

\*BT1 oxides

\*BT1 rhenium compounds

RT perhenates

RT rhenates

### **RHENIUM SELENIDES**

1991-09-16

\*BT1 rhenium compounds

\*BT1 selenides

### **RHENIUM SILICIDES**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 rhenium compounds

\*BT1 silicides

### **RHENIUM SULFATES**

INIS: 1977-03-01; ETDE: 1977-04-12

\*BT1 rhenium compounds

\*BT1 sulfates

### **RHENIUM SULFIDES**

\*BT1 rhenium compounds

\*BT1 sulfides

### **RHENIUM TELLURIDES**

2000-04-12

\*BT1 rhenium compounds

\*BT1 tellurides

### **RHEOLOGY**

INIS: 1982-10-29; ETDE: 1975-09-11

Study of deformation and flow of matter.

RT deformation

RT fluid flow

RT matter

RT mechanical properties

RT thixotropy

RT viscosity

### **rheostats**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE resistors

### **rhesus monkeys**

USE macacus

### **RHEUMATIC DISEASES**

1999-09-20

UF arthritis

UF rheumatoid diseases

BT1 diseases

NT1 spondylitis

RT bone joints

RT bone tissues

RT skeletal diseases

### **rheumatoid diseases**

USE rheumatic diseases

### **rhic (brookhaven)**

INIS: 1986-05-23; ETDE: 2002-05-11

USE brookhaven rhic

### **RHINE RIVER**

\*BT1 rivers

RT austria

RT federal republic of germany

RT france

RT netherlands

RT switzerland

### **RHIZOBIUM**

INIS: 1992-05-05; ETDE: 1986-01-24

\*BT1 bacteria

RT leguminosae

RT nitrogen fixation

RT symbiosis

### **rhizopterin**

USE folic acid

### **RHIZOPUS**

\*BT1 eumycota

### **rho-1250 mesons**

INIS: 1995-08-07; ETDE: 1988-01-28

(From December 1987 until July 1995 this was a valid term.)

USE rho-1450 mesons

### **rho-1250 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE rho-1450 mesons

### **RHO-1450 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by RHO-1250 RESONANCES; from then until July 1995 it was indexed by RHO-1250 MESONS.)

UF rho-1250 mesons

UF rho-1250 resonances

\*BT1 vector mesons

### **rho-1500 resonances**

INIS: 1988-03-08; ETDE: 1975-10-28

(Prior to December 1987 this was a valid descriptor.)

USE mesons

### **rho-1600 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01

(From December 1987 until July 1995 this was a valid term.)

USE rho-1700 mesons

### **rho-1600 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE rho-1700 mesons

### **rho-1670 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE rho3-1690 mesons

### **RHO-1700 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by RHO-1600 RESONANCES; from then until July 1995 it was indexed by RHO-1600 MESONS.)

UF rho-1600 mesons

UF rho-1600 resonances

UF rho-prime resonances

\*BT1 vector mesons

### **rho-1700 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

### **RHO-2150 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 vector mesons

### **rho-765 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE rho-770 mesons

### **RHO-770 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-25

(Prior to December 1987 this concept was indexed by RHO-765 RESONANCES.)

UF rho-765 resonances

\*BT1 vector mesons

### **rho-prime resonances**

USE rho-1700 mesons

### **RHO3-1690 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by RHO-1670 RESONANCES.)

UF g resonances

UF rho-1670 resonances

\*BT1 tensor mesons

### **RHO3-2250 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by T-2200 RESONANCES.)

UF t-2200 resonances

\*BT1 tensor mesons

### **RHO5-2350 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 tensor mesons

### **RHODAMINES**

\*BT1 amines

BT1 dyes

\*BT1 heterocyclic acids

\*BT1 organic oxygen compounds

BT1 reagents

RT phthalic acid

### **rhodanates**

USE thiocyanates

### **rhodanides**

USE thiocyanates

### **RHODE ISLAND**

\*BT1 usa

RT us east coast

### **rhode island nuclear science center reactor**

USE rinsc reactor

### **rhodesia (northern)**

USE zambia

### **rhodesia (southern)**

USE southern rhodesia

### **RHODIUM**

\*BT1 platinum metals

\*BT1 refractory metals

### **RHODIUM 100**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rhodium isotopes

### **RHODIUM 101**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 rhodium isotopes

\*BT1 years living radioisotopes

**RHODIUM 102**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 103**

- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 stable isotopes

**RHODIUM 103 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**RHODIUM 104**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 105**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 106**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 107**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 108**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 109**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 110**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 111**

*INIS: 1979-01-18; ETDE: 1979-02-23*

- \*BT1 beta-minus decay radioisotopes

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 112**

*1985-01-17*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 113**

*INIS: 1988-11-16; ETDE: 1988-12-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 114**

*INIS: 1988-06-22; ETDE: 1988-07-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 115**

*INIS: 1988-11-16; ETDE: 1988-12-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 116**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 117**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 118**

*2000-12-28*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 119**

*2007-11-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 120**

*2007-11-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 121**

*2007-11-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 122**

*2007-11-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 89**

*2006-10-11*

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 90**

*2004-12-20*

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 91**

*2004-11-30*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 92**

*1999-03-23*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 93**

*2004-11-30*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 94**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 95**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 96**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 96 TARGET***INIS: 1975-11-27; ETDE: 1976-07-12*

\*BT1 targets

**RHODIUM 97**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 98**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 99**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM ADDITIONS***Alloys containing not more than 1% Rh are listed here.*

- \*BT1 rhodium alloys

**RHODIUM ALLOYS***Alloys containing more than 1% Rh.*

- \*BT1 platinum metal alloys
- NT1 rhodium additions
- NT1 rhodium base alloys

**RHODIUM ARSENIDES***2013-05-15*

- \*BT1 arsenides
- \*BT1 rhodium compounds

**RHODIUM BASE ALLOYS**

- \*BT1 rhodium alloys

**RHODIUM BORIDES***1977-09-06*

- \*BT1 borides
- \*BT1 rhodium compounds

**RHODIUM BROMIDES***INIS: 1976-02-05; ETDE: 1975-11-26*

- \*BT1 bromides
- \*BT1 rhodium halides

**RHODIUM CARBIDES**

- \*BT1 carbides
- \*BT1 rhodium compounds

**RHODIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 rhodium halides

**RHODIUM COMPLEXES**

- \*BT1 transition element complexes

**RHODIUM COMPOUNDS***1997-06-19*

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 rhodium arsenides
- NT1 rhodium borides
- NT1 rhodium carbides
- NT1 rhodium halides
- NT2 rhodium bromides
- NT2 rhodium chlorides
- NT2 rhodium fluorides
- NT1 rhodium hydrides
- NT1 rhodium hydroxides

- NT1 rhodium nitrates
- NT1 rhodium nitrides
- NT1 rhodium oxides
- NT1 rhodium phosphides
- NT1 rhodium selenides
- NT1 rhodium silicides
- NT1 rhodium sulfides
- NT1 rhodium tellurides

**RHODIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 rhodium halides

**RHODIUM HALIDES***2012-07-25*

- \*BT1 halides
- \*BT1 rhodium compounds
- NT1 rhodium bromides
- NT1 rhodium chlorides
- NT1 rhodium fluorides

**RHODIUM HYDRIDES***1978-11-24*

- \*BT1 hydrides
- \*BT1 rhodium compounds

**RHODIUM HYDROXIDES***INIS: 1996-07-23; ETDE: 1975-11-26**(From July 1996 to November 2007**RHODIUM COMPOUNDS + HYDROXIDES was used for this concept.)*

- \*BT1 hydroxides
- \*BT1 rhodium compounds

**RHODIUM IONS**

- \*BT1 ions

**RHODIUM ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 rhodium 100
- NT1 rhodium 101
- NT1 rhodium 102
- NT1 rhodium 103
- NT1 rhodium 104
- NT1 rhodium 105
- NT1 rhodium 106
- NT1 rhodium 107
- NT1 rhodium 108
- NT1 rhodium 109
- NT1 rhodium 110
- NT1 rhodium 111
- NT1 rhodium 112
- NT1 rhodium 113
- NT1 rhodium 114
- NT1 rhodium 115
- NT1 rhodium 116
- NT1 rhodium 117
- NT1 rhodium 118
- NT1 rhodium 119
- NT1 rhodium 120
- NT1 rhodium 121
- NT1 rhodium 122
- NT1 rhodium 89
- NT1 rhodium 90
- NT1 rhodium 91
- NT1 rhodium 92
- NT1 rhodium 93
- NT1 rhodium 94
- NT1 rhodium 95
- NT1 rhodium 96
- NT1 rhodium 97
- NT1 rhodium 98
- NT1 rhodium 99

**RHODIUM NITRATES***2009-08-31*

- \*BT1 nitrates
- \*BT1 rhodium compounds

**RHODIUM NITRIDES***INIS: 2000-04-12; ETDE: 1975-12-16**(From January 1993 to November 2007 RHODIUM COMPOUNDS + NITRIDES was used for this concept.)*

- \*BT1 nitrides
- \*BT1 rhodium compounds

**RHODIUM OXIDES**

- \*BT1 oxides
- \*BT1 rhodium compounds

**RHODIUM PHOSPHIDES***INIS: 2000-04-12; ETDE: 1976-07-07*

- \*BT1 phosphides
- \*BT1 rhodium compounds

**RHODIUM SELENIDES***INIS: 2000-04-12; ETDE: 1976-03-22*

- \*BT1 rhodium compounds
- \*BT1 selenides

**RHODIUM SILICIDES***INIS: 1987-08-27; ETDE: 1985-07-18*

- \*BT1 rhodium compounds
- \*BT1 silicides

**RHODIUM SULFIDES***INIS: 1991-09-16; ETDE: 1975-11-11*

- \*BT1 rhodium compounds
- \*BT1 sulfides

**RHODIUM TELLURIDES***INIS: 1991-09-16; ETDE: 1976-07-07*

- \*BT1 rhodium compounds
- \*BT1 tellurides

**RHODIZONIC ACID**

- \*BT1 hydroxy compounds
- \*BT1 quinones
- BT1 reagents
- RT organic acids

**RHODOCOCCUS***INIS: 2000-04-12; ETDE: 1992-11-20*

- \*BT1 sulfur-oxidizing bacteria
- RT coal preparation
- RT desulfurization

**RHODOPHYCOTA***INIS: 1991-12-13; ETDE: 1988-12-20*

- \*BT1 algae
- NT1 porphyra

**RHODOPSEUDOMONAS**

- \*BT1 photosynthetic bacteria

**RHODOPSIN***INIS: 1986-03-04; ETDE: 1983-09-15**A brilliant red photosensitive pigment.*

- UF retinal pigment
- UF visual purple
- BT1 pigments
- \*BT1 proteins
- RT retina

**RHODOSPIRILLUM**

- \*BT1 photosynthetic bacteria

***rhombohedral lattices***

- USE trigonal lattices

**RHONE RIVER**

- \*BT1 rivers
- RT france
- RT switzerland

***rhr****INIS: 1975-12-19; ETDE: 2002-05-11**Residual heat removal.*

- USE after-heat removal

**RHR SYSTEMS**

2000-04-12

UF *dhr systems*UF *residual heat removal*

\*BT1 reactor cooling systems

RT after-heat removal

**RHYOLITES**

INIS: 1978-08-30; ETDE: 1975-11-11

A group of extrusive igneous rocks generally porphyritic and containing small phenocrysts of quartz and alkali feldspar set in a glassy or cryptocrystalline ground mass.

(From April 1975 till March 1997 PUMICE was a valid ETDE descriptor.)

SF *pumice*

\*BT1 volcanic rocks

RT feldspars

RT granites

RT perlite

RT silicon oxides

**RHYTHMICITY**

RT estrous cycle

RT menstrual cycle

**ria (radioimmunoassay)**

INIS: 1984-04-04; ETDE: 2002-05-11

USE radioimmunoassay

**ria (reactor accidents)**

INIS: 1984-04-04; ETDE: 2002-05-11

Reactivity Initiated Accidents.

SEE reactor accidents

**RIBBON-TO-RIBBON METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11

A float-zone crystal growth method where the polycrystalline ribbon is fed into a preheated region, melted, and recrystallized.

UF *rtr method*

BT1 crystal growth methods

RT crystal growth

RT ribbon-to-sheet method

RT sheets

RT zone melting

**RIBBON-TO-SHEET METHOD**

INIS: 2000-04-12; ETDE: 1981-07-18

BT1 crystal growth methods

RT ribbon-to-ribbon method

RT sheets

**RIBOFLAVIN**UF *vitamin b-2*

\*BT1 vitamin b group

RT ribose

**ribonuclease**

USE rna-ase

**ribonucleic acid**

USE rna

**RIBOSE**

\*BT1 aldehydes

\*BT1 pentoses

RT riboflavin

**RIBOSIDES**

NT1 nucleosides

NT2 adenosine

NT2 budr

NT2 cytidine

NT2 deoxycytidine

NT2 deoxyuridine

NT2 fudr

NT2 guanosine

NT2 inosine

NT2 iododeoxyuridine

NT2 thymidine

NT3 fluorothymidine

NT2 uridine

RT deoxyribose

RT nucleic acids

RT pentoses

**RIBOSOMAL RNA**

INIS: 1990-04-19; ETDE: 1985-11-19

UF *r-ma*

\*BT1 rna

RT nucleoli

RT ribosomes

**RIBOSOMES**

1999-04-20

BT1 cell constituents

NT1 microsomes

RT codons

RT ribosomal rna

RT rna

RT subcellular distribution

**RIBULOSE**

\*BT1 ketones

\*BT1 pentoses

**RIBULOSE DIPHOSPHATE****CARBOXYLASE**

INIS: 2000-04-12; ETDE: 1985-10-25

\*BT1 carboxy-lyases

RT carbon cycle

RT carbon dioxide fixation

RT chloroplasts

RT photosynthesis

**RIC PROCESS**

2000-04-12

\*BT1 desulfurization

**RICCATI EQUATION**

\*BT1 differential equations

**RICCI TENSOR**

BT1 tensors

RT riemann space

**RICE**UF *oryza*

\*BT1 cereals

**RICE STEM BORERS**

\*BT1 moths

**richardson-dushman equation**

USE richardson equation

**RICHARDSON EQUATION**UF *richardson-dushman equation*

BT1 equations

RT thermionics

**RICHARDSON NUMBER**

BT1 dimensionless numbers

RT convection

RT shear

RT turbulent flow

RT two-phase flow

**RICHLAND**

INIS: 1999-03-03; ETDE: 1979-03-05

BT1 urban areas

\*BT1 washington

**richland ftf reactor**

USE ftf reactor

**richland npr reactor**

USE n-reactor

**richland physical constants test reactor**

1993-11-09

USE pctr reactor

**richland power-plutonium production reactor**

INIS: 1993-11-09; ETDE: 2002-05-11

USE n-reactor

**ricinum communis**

USE castor

**RICKETS**UF *rachitis*

\*BT1 metabolic diseases

\*BT1 skeletal diseases

RT bone tissues

RT vitamin d

**RICKETTSIAE**

BT1 microorganisms

RT insects

RT rickettsial diseases

RT typhus

**RICKETTSIAL DISEASES**

INIS: 1982-12-08; ETDE: 1981-01-12

\*BT1 infectious diseases

NT1 typhus

RT host

RT rickettsiae

**ridesharing**

INIS: 2000-04-12; ETDE: 1980-08-25

SEE carpooling

SEE vanpooling

**riehl-schon model**

2000-04-12

Photovoltaic and photoconductive effects in crystals.

(Prior to February 1995, this was a valid ETDE descriptor.)

USE crystals

USE photovoltaic effect

**riemann curvature tensor**

USE riemann space

**RIEMANN FUNCTION**

BT1 functions

RT differential equations

**riemann geometry**

USE riemann space

**riemann manifolds**

USE riemann space

**riemann metric**

USE riemann space

**RIEMANN SHEET**

1997-08-20

UF *riemann surface*

RT functions

**RIEMANN SPACE**

1997-08-20

UF *riemann curvature tensor*UF *riemann geometry*UF *riemann manifolds*UF *riemann metric*UF *riemann sphere*

\*BT1 mathematical space

NT1 euclidean space

RT curvilinear coordinates

RT ricci tensor

RT smooth manifolds

**riemann sphere**

USE riemann space

**riemann surface**

1997-08-20

USE riemann sheet

**riemann waves**

USE shock waves

**RIEN-1 REACTOR**

*Instituto de Energenharia Nuclear/Nuclebras, Rio de Janeiro, Brazil.*

UF argonauta rien-1 reactor

UF argonauta rio reactor

UF instituto engenharia nuclear rio reactor

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 training reactors

**RIFT ZONES**

INIS: 1992-06-16; ETDE: 1975-09-11

(Until June 1992, this concept was indexed by GEOLOGIC FAULTS.)

UF zones (rift)

BT1 geologic structures

RT geologic faults

RT rio grande rift

**RIGHI-LEDUC EFFECT**

RT ettingshausen effect

RT hall effect

RT heat transfer

RT magnetic fields

RT nernst effect

RT thermal conductivity

**RIGHTS-OF-WAY**

INIS: 1993-06-04; ETDE: 1979-03-29

RT eminent domain

RT land use

RT legal aspects

RT pipelines

RT power transmission lines

**riken linac**

INIS: 1986-05-23; ETDE: 2002-05-11

USE rilac

**riken ssc**

INIS: 1983-10-14; ETDE: 1983-11-09

USE ipcr cyclotron

**rikkyo university triga-mk-2 reactor**

INIS: 1993-11-09; ETDE: 2002-05-11

USE triga-2-rikkyo reactor

**rikkyo university triga-mk-ii reactor**

2000-04-12

USE triga-2-rikkyo reactor

**RILAC**

INIS: 1986-05-23; ETDE: 1986-11-18

*Frequency-tunable heavy ion linac at Institute of Physical and Chemical Research, Saitama, Japan.*

UF inst phys chem res rilac

UF ipcr linac

UF riken linac

UF saitama tunable heavy ion linac

\*BT1 heavy ion accelerators

\*BT1 linear accelerators

**riley-morgan process**

INIS: 2000-04-12; ETDE: 1977-08-24

*Redesign of the old Morgan fixed-bed gasifier for industrial plant gas supply.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**rilis**

2018-02-26

USE resonant-ionization laser ion sources

**rims**

INIS: 2000-04-12; ETDE: 1985-04-24

SEE resonance ionization mass spectroscopy

**rinderpest**

INIS: 1991-09-19; ETDE: 2002-05-11

USE viral diseases

**RING CHROMOSOMES**

BT1 chromosomes

**RING CURRENTS**

\*BT1 electric currents

RT electrojets

**RING LASERS**

INIS: 1992-08-18; ETDE: 1982-06-07

BT1 lasers

**ring oven method**

2000-04-12

*Concentration of solutes from a single drop in concentric rings on a disc of filter paper for the qualitative detection of elements.*

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE chemical analysis

**RINGHALS-1 REACTOR**

*Ringhals, Vaerobacka, Sweden.*

\*BT1 bwr type reactors

**RINGHALS-2 REACTOR**

*Ringhals, Vaerobacka, Sweden.*

\*BT1 pwr type reactors

**RINGHALS-3 REACTOR**

*Ringhals, Vaerobacka, Sweden.*

\*BT1 pwr type reactors

**RINGHALS-4 REACTOR**

INIS: 1982-10-28; ETDE: 1982-11-30

\*BT1 pwr type reactors

**ringotron**

USE electron-ring accelerators

**RINGS**

RT configuration

RT shape

RT tori

**rings (storage)**

USE storage rings

**RINSC REACTOR**

*Rhode Island Atomic Energy Commission,*

*Rhode Island Nuclear Science Center,*

*Narragansett, Rhode Island, USA.*

UF rhode island nuclear science center reactor

\*BT1 pool type reactors

\*BT1 research reactors

**RIO BLANCO EVENT**

BT1 plowshare project

\*BT1 toggle operation

RT natural gas

**RIO BLANCO OIL SHALE PROJECT**

INIS: 2000-04-12; ETDE: 1976-03-11

UF tract c-a prototype oil shale project

RT colorado

RT oil shales

**RIO DECLARATION**

2000-01-03

*Rio Declaration on Environment and Development.*

\*BT1 multilateral agreements

RT climatic change

RT emissions tax

RT emissions trading

RT environmental impacts

RT environmental policy

RT environmental protection

RT greenhouse effect

**RIO GRANDE RIFT**

INIS: 1992-06-16; ETDE: 1976-08-24

RT colorado

RT new mexico

RT rift zones

**RIO GRANDE RIVER**

INIS: 1992-06-04; ETDE: 1980-09-04

\*BT1 rivers

RT colorado

RT mexico

RT new mexico

RT texas

**RIOMETERS**

BT1 measuring instruments

**RIPENING**

RT age dependence

RT growth

RT life cycle

RT physiology

**risa**

USE albumins

USE organic iodine compounds

**RISE**

2000-04-12

*Rise is a modified in-situ method of processing oil shale in which 20% of the mined shale is removed for retorting on the surface, the remainder is retorted in place making use of hot gas generated continuously from combustion of a portion of the oil shale, using an air stream. Rubble in-situ extraction.*

BT1 modified in-situ processes

RT in-situ retorting

RT oil shales

**rise time**

USE pulse rise time

**riser cracking**

INIS: 2000-04-12; ETDE: 1976-10-13

USE coal liquefaction

**rishon model**

INIS: 2000-04-12; ETDE: 1984-10-10

(Prior to January 1995, this was a valid ETDE descriptor.)

USE composite models

**risk analysis**

INIS: 1985-07-19; ETDE: 1978-04-27

(Prior to August 1985 this was a valid descriptor.)

USE risk assessment

**RISK ASSESSMENT**

INIS: 1985-07-19; ETDE: 1977-09-19

(Prior to August 1985 RISK ANALYSIS was used.)

UF deterministic safety assessment

UF probabilistic safety assessment

UF risk analysis

RT alara

RT deterministic estimation

RT energy source development

RT fuel cycle

RT fuel reprocessing plants

RT hazards

RT licensing regulations

RT mto model

RT nuclear power plants

RT probabilistic estimation



RT probability  
 RT radioactive waste management  
 RT reliability  
 RT safety analysis  
 RT safety margins  
 RT seismicity  
 RT source terms

**risks**

USE hazards

**RISOE NATIONAL LABORATORY**

INIS: 1978-04-21; ETDE: 1978-07-06

Ceased operation as an independent entity as of 1 January 2012. Prior to 1978 known as RISOE RESEARCH ESTABLISHMENT.

Descriptor should be used only for documents pertaining to the period 1978 - 2011.

(Prior to 1978 known as RISOE RESEARCH ESTABLISHMENT, and documents written before that date should be so indexed.)

\*BT1 danish organizations

NT1 risoe research establishment

**RISOE RESEARCH ESTABLISHMENT**

INIS: 1977-03-14; ETDE: 1977-06-03

Name changed in early 1978 to RISOE NATIONAL LABORATORY, and documents written after that date should be so indexed.

UF research establishment risoe

\*BT1 risoe national laboratory

**RITAC DOSEMETERS**

Passive solid-state dosimeters based on Radiation Induced Thermally Activated Current.

\*BT1 dosimeters

RT ritad dosimeters

**RITAD DOSEMETERS**

Integral solid-state dosimeters based on Radiation Induced Thermally Activated Depolarization.

\*BT1 dosimeters

RT dielectric materials

RT ritac dosimeters

**ritchie-eldridge theory**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

SEE perturbation theory

**RITMO REACTOR**

National Nuclear Energy Committee, Rome, Italy. Decommissioned since 1984.

UF rc-4 reactor casaccia

UF reattore casaccia-4

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 zero power reactors

**RITZ METHOD**

UF rayleigh-ritz method

UF ritz-rayleigh method

UF ritz variation method

BT1 calculation methods

RT variational methods

**ritz-rayleigh method**

USE ritz method

**ritz variation method**

USE ritz method

**RIVER BEND-1 REACTOR**

Entergy Operations, Inc., St. Francisville, Louisiana, USA.

\*BT1 bwr type reactors

**RIVER BEND-2 REACTOR**

Gulf States Utilities Co., St. Francisville, Louisiana, USA. Canceled in 1984 after construction began (1975).

\*BT1 bwr type reactors

**RIVER DELTAS**

INIS: 1992-06-04; ETDE: 1983-08-25

Coordinate this descriptor with a descriptor for the specific river if significant.

BT1 coastal regions

RT rivers

RT sediments

RT shores

RT wetlands

**RIVERS**

1997-06-19

Bodies of flowing water, generally wide, contained within channels.

UF alaska river

UF crystal river

UF scioto river

BT1 surface waters

NT1 allegheny river

NT1 altamaha river

NT1 amazon river

NT1 arkansas river

NT1 au sable river

NT1 blind river

NT1 brahmaputra river

NT1 brazos river

NT1 cape fear river

NT1 chattahoochee river

NT1 clinch river

NT1 colorado river

NT1 columbia river

NT1 connecticut river

NT1 cumberland river

NT1 danube river

NT1 delaware river

NT1 detroit river

NT1 dneiper river

NT1 dudvah river

NT1 euphrates river

NT1 fraser river

NT1 ganga river

NT1 grand river

NT1 gunnison river

NT1 hron river

NT1 hudson river

NT1 james river

NT1 kennebec river

NT1 lewis river

NT1 little tennessee river

NT1 menominee river

NT1 mississippi river

NT1 missouri river

NT1 mohawk river

NT1 nelson river

NT1 niagara river

NT1 niger river

NT1 Nile river

NT1 north platte river

NT1 ohio river

NT1 ottawa river

NT1 peace river

NT1 piceance creek

NT1 po river

NT1 potomac river

NT1 pripet river

NT1 rhine river

NT1 rhone river

NT1 rio grande river

NT1 saginaw river

NT1 saint clair river

NT1 saint john river

NT1 santee river

NT1 savannah river

NT1 severn river

NT1 skagit river

NT1 st lawrence river

NT1 streams

NT1 susquehanna river

NT1 techa river

NT1 tennessee river

NT1 thames river

NT1 tigris river

NT1 vah river

NT1 vltava river

NT1 volga river

NT1 white river

NT1 yangtze river

NT1 yellow creek

NT1 yellow river

NT1 yukon river

RT drainage

RT estuaries

RT flood control

RT fresh water

RT hydrology

RT inland waterways

RT river deltas

RT water currents

RT watersheds

**riveting**

USE fastening

**rivets**

USE fasteners

**rjh reactor**

2005-02-11

USE jules horowitz reactor

**rrk method**

USE rydberg-klein-rees method

**RMB REACTOR**

2018-03-07

State of Sao Paulo, Brazil. Reactor is planned.

UF brazilian multipurpose reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

**rmc slowpoke**

2018-05-30

USE slowpoke rmc reactor

**rmprocess**

INIS: 2000-04-12; ETDE: 1976-07-07

Methanation process which catalytically converts mixtures of carbon oxides obtained from coal or naphtha gasification to methane at high temperatures without recycle.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE sng processes

**RNA**

1996-05-03

UF ribonucleic acid

\*BT1 nucleic acids

NT1 messenger-rna

NT1 ribosomal rna

NT1 transfer rna

RT gene operons

RT in-situ hybridization

RT introns

RT microsomes

RT nucleoli

RT ribosomes

RT rna polymerases

RT splicing

RT strand breaks

**RNA-ASE**

1995-01-10

*Code number 3.1.4.22 and 3.1.4.34.*

UF nuclease (ribonuclease)

UF ribonuclease

\*BT1 nucleases

RT rna processing

**RNA POLYMERASES**

INIS: 1995-01-10; ETDE: 1984-01-27

\*BT1 polymerases

RT dna polymerases

RT messenger-rna

RT nucleoproteins

RT rna

RT rna processing

RT transcription

RT transcription factors

**RNA PROCESSING**

INIS: 1995-01-10; ETDE: 1987-12-17

*Extensive modifications newly transcribed messenger-RNA's undergo before they are used as templates for protein synthesis. Also the editing of primary transcripts of ribosomal RNA and transfer RNA's.*

NT1 splicing

RT messenger-rna

RT nucleoproteins

RT rna-ase

RT rna polymerases

**rnpp-rooppur reactor**

USE rooppur reactor

**ro-07-0582**

INIS: 1981-08-06; ETDE: 1981-09-22

USE misonidazole

**ROAD OILS**

INIS: 2000-04-12; ETDE: 1979-12-10

*Oils or petroleum residues intended for cold application to road surfaces.*

\*BT1 oils

RT asphalts

RT petroleum

RT petroleum distillates

RT petroleum residues

**ROAD TESTS**

INIS: 2000-04-12; ETDE: 1977-05-07

BT1 testing

RT automobiles

RT buses

RT trucks

RT vehicles

**ROAD TRANSPORT**

INIS: 1981-03-10; ETDE: 1981-04-17

UF truck transport

\*BT1 land transport

RT motor vehicle accidents

RT roads

RT routing

RT vehicles

**ROADS**

1992-03-05

UF highways

UF streets

RT bridges

RT carpooling

RT pavements

RT road transport

RT roadway-powered electric vehicles

RT transport

RT vanpooling

**ROADWAY-POWERED ELECTRIC VEHICLES**

INIS: 2000-04-12; ETDE: 1981-04-17

\*BT1 electric-powered vehicles

RT roads

**roadways (mines)**

INIS: 1993-03-15; ETDE: 1978-05-03

USE mine roadways

**ROASTING**

\*BT1 oxidation

RT pyrometallurgy

**robert e. ginna-1 reactor**

USE ginna-1 reactor

**robert e. ginna-2 reactor**

USE ginna-2 reactor

**robinia pseudoacacia**

INIS: 2000-04-12; ETDE: 1986-04-29

USE locust trees

**ROBINSON-2 REACTOR***Carolina Power and Light Co., Hartsville, South Carolina, USA.*

UF carolina power light robinson-2 reactor

UF hb robinson-2

\*BT1 pwr type reactors

**ROBOTS**

INIS: 1984-04-04; ETDE: 1982-12-01

BT1 equipment

RT control equipment

RT control systems

RT materials handling equipment

RT remote handling equipment

**ROCHE EQUIPOTENTIALS**

UF roche lobes

BT1 potentials

RT binary stars

RT gravitational fields

**roche lobes**

USE roche equipotentials

**ROCHELLE SALT**

\*BT1 potassium compounds

\*BT1 sodium compounds

\*BT1 tartrates

RT tartaric acid

**ROCK BEDS**

INIS: 2000-04-12; ETDE: 1975-09-12

RT cold storage

RT heat storage

RT sensible heat storage

**ROCK BURSTS**

INIS: 1992-01-21; ETDE: 1977-05-09

*Explosive release of energy in rock strained beyond its elastic limit.*

UF gas bursts

RT hazards

RT mining

RT precursors

RT rock mechanics

RT seismic events

**ROCK CAVERNS**

INIS: 1998-10-01; ETDE: 1979-04-11

BT1 cavities

RT caves

RT rocks

**ROCK DRILLING**

UF drilling (rock)

BT1 drilling

\*BT1 materials drilling

RT boreholes

RT drills

RT rotary drilling

RT rotary drills

RT spark drills

RT subterrene penetrators

RT well drilling

**ROCK DUSTING**

INIS: 2000-04-12; ETDE: 1977-10-20

*Dusting of underground areas with powdered limestone or other nearly inert dusts to dilute coal dust to reduce explosion hazards.*

RT coal mines

RT dusts

**ROCK FALLS**

INIS: 2000-07-20; ETDE: 1988-01-21

RT rock mechanics

RT soil mechanics

RT strata movement

**ROCK-FLUID INTERACTIONS**

INIS: 1986-04-04; ETDE: 1975-11-11

RT chemical reactions

RT ground water

RT hydrothermal alteration

RT rocks

RT waste-rock interactions

**rock intrusion**

INIS: 1985-07-23; ETDE: 2002-05-11

*Process of emplacement of fluid material into pre-existing rock. Coordinate the descriptor below with other appropriate descriptor(s), e.g. POSITIONING, PETROGENESIS.*

USE plutonic rocks

**ROCK MECHANICS***Application of principles of mechanics and geology to quantify the response of rock to environmental forces.*

BT1 mechanics

RT dilatancy

RT geology

RT mechanical properties

RT mining

RT overburden

RT rock bursts

RT rock falls

RT rocks

RT soil mechanics

RT strata control

RT strata movement

**rock salt**

INIS: 2000-04-12; ETDE: 1981-11-10

USE salt deposits

**ROCK SPRINGS SITES**

2000-04-12

\*BT1 wyoming

RT oil shale deposits

**ROCKET ENGINES**

1994-08-26

\*BT1 heat engines

RT rockets

**rocket reactor experiment phoebus-1a**

1993-11-09

USE phoebus-1a reactor

**rocket reactor experiment phoebus-1b**

1993-11-09

USE phoebus-1b reactor

**rocket reactor experiment phoebus-2a**

1993-11-09

USE phoebus-2a reactor

**rocket reactor experiment rover**

2000-04-12

USE rover reactors

**ROCKETS**

1996-07-16

(Prior to August 1996 ATLAS ROCKETS

was a valid ETDE descriptor.)

UF atlas rockets

RT ammunition

RT electronic guidance

RT launching

RT missile launching sites

RT missiles

RT navigational instruments

RT projectiles

RT propulsion systems

RT reentry

RT rocket engines

RT space flight

RT space vehicles

**rockgas process**

2000-04-12

Process for the gasification of coal using the partial oxidation of coal in a molten sodium carbonate medium to produce a low-btu fuel gas for consumption at the site of the gasification plant.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**rocking curve**

INIS: 1984-04-04; ETDE: 2002-05-11

USE neutron diffraction

**ROCKS**

NT1 igneous rocks

NT2 caldasite

NT2 lava

NT2 plutonic rocks

NT3 diorites

NT3 gabbros

NT4 anorthosites

NT3 granites

NT4 aplites

NT4 granodiorites

NT4 quartz monzonite

NT3 pegmatites

NT3 peridotites

NT4 kimberlites

NT3 syenites

NT2 volcanic rocks

NT3 andesites

NT3 basalt

NT4 diabases

NT3 lamprophyres

NT4 kimberlites

NT3 nepheline basalts

NT3 perlite

NT3 rhyolites

NT3 trachytes

NT3 tuff

NT1 metamorphic rocks

NT2 amphibolites

NT2 gneisses

NT2 granulites

NT2 marble

NT2 quartzites

NT2 schists

NT2 serpentinites

NT1 sedimentary rocks

NT2 carbonate rocks

NT3 limestone

NT4 travertine

NT2 chert

NT2 conglomerates

NT3 calcretes

NT2 evaporites

NT2 phosphate rocks

NT3 phosphorites

NT2 sandstones

NT3 graywacke

NT2 shales

NT3 argillite

NT3 oil shales

NT4 black shales

NT2 siltstones

NT2 sinters

NT1 synthetic rocks

RT aquicludes

RT aquifers

RT basement rock

RT cap rock

RT concretions

RT environmental materials

RT geobarometry

RT geologic strata

RT lithology

RT lunar materials

RT minerals

RT orogenesis

RT overburden

RT petrogenesis

RT petrology

RT reefs

RT reservoir rock

RT rock caverns

RT rock-fluid interactions

RT rock mechanics

RT source rocks

RT stone meteorites

RT tectonics

RT unconsolidated rock

RT waste-rock interactions

**rockwell flash hydroliquefaction****process**

2000-04-12

USE cs-r process

**ROCKWELL HARDNESS**

RT hardness

**rockwell international process**

INIS: 2000-04-12; ETDE: 1979-02-23

SEE molten salt coal gasification process

SEE molten salt waste gasification process

**ROCKY FLATS PLANT**

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT colorado

**rocky flats plant nuclear safety****facility**

1993-11-09

USE nsf-rfp reactor

**rocky mountain overthrust belt**

INIS: 2000-04-12; ETDE: 1982-07-27

USE western us overthrust belt

**rocky mountain region**

INIS: 2000-04-12; ETDE: 1977-10-20

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

**ROCKY MOUNTAINS**

BT1 mountains

RT canada

RT usa

**rod bundles**

INIS: 1976-07-30; ETDE: 1975-07-29

(Prior to January 1995, this was a valid ETDE descriptor.)

USE fuel element clusters

**ROD DROP ACCIDENTS**

\*BT1 reactivity-initiated accidents

BT1 reactivity insertions

RT control elements

**ROD DROP METHOD**

RT control elements

RT reactivity

RT reactor kinetics

**ROD EJECTION ACCIDENTS**

\*BT1 reactivity-initiated accidents

RT control elements

RT reactivity insertions

**ROD PUMPS**

INIS: 2000-04-12; ETDE: 1984-03-19

UF plunger pumps

UF sucker rod pumps

\*BT1 pumps

RT natural gas wells

**RODENTS**

1996-11-13

(Prior to March 1997 CHIPMUNKS was a valid ETDE descriptor.)

UF chipmunks

UF kangaroo rat

\*BT1 mammals

NT1 gerbils

NT1 guinea pigs

NT1 hamsters

NT1 mice

NT2 transgenic mice

NT1 prairie dogs

NT1 rats

NT1 squirrels

NT1 voles

RT disease vectors

RT pest control

**RODS**

RT cylinders

RT shape

RT wires

**rods (control)**

USE control elements

**rods (fuel)**

USE fuel rods

**roentgen (exposure unit)**

For studies concerning units, concepts, or definitions. See also DOSE EQUIVALENTS.

USE radiation dose units

**roentgen equivalent man**

For studies concerning units, concepts, or definitions. See also DOSE EQUIVALENTS.

USE radiation dose units

**ROENTGENIUM**

2006-01-11

(Prior to January 2006 ELEMENT 111 was used for this element.)

UF eka-gold

UF element 111

UF ununium

\*BT1 transactinide elements

**ROENTGENIUM 272**

2006-01-11

(Prior to January 2006 ELEMENT 111 272 was used for this concept.)

UF element 111 272

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 roentgenium isotopes

**ROENTGENIUM 273**

2007-05-14

- \*BT1 alpha decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 roentgenium isotopes

**ROENTGENIUM 274**

2007-05-14

- \*BT1 alpha decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 roentgenium isotopes

**ROENTGENIUM 279**

2006-01-11

- \*BT1 alpha decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 roentgenium isotopes

**ROENTGENIUM 280**

2006-01-11

- \*BT1 alpha decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 roentgenium isotopes
- \*BT1 seconds living radioisotopes

**ROENTGENIUM COMPOUNDS**

2006-01-11

(Prior to January 2006 ELEMENT 111 COMPOUNDS was used for this concept.)

- UF *element 111 compounds*
- \*BT1 transactinide compounds

**ROENTGENIUM IONS**

2018-01-24

- \*BT1 ions

**ROENTGENIUM ISOTOPES**

2006-01-11

(Prior to January 2006 ELEMENT 111 ISOTOPES was used for this concept.)

- UF *element 111 isotopes*
- BT1 isotopes
- NT1 roentgenium 272
- NT1 roentgenium 273
- NT1 roentgenium 274
- NT1 roentgenium 279
- NT1 roentgenium 280

**ROGOWSKI COIL**

- \*BT1 electric coils

**ROKKASHO REPROCESSING PLANT**

2006-04-19

- \*BT1 fuel reprocessing plants

**ROKKASHO URANIUM ENRICHMENT PLANT**

2010-03-03

- \*BT1 centrifuge enrichment plants
- RT japan

**roll welding**

- USE forge welding

**rolla research reactor**

INIS: 1984-06-21; ETDE: 2002-05-11

- USE umrr reactor

**ROLLED-IN PRICING**

INIS: 2000-04-12; ETDE: 1980-05-23

*Weighted average cost of fuels; higher cost fuels averaged in with lower cost fuels.*

- BT1 prices
- RT fuel substitution

- RT fuels
- RT marginal-cost pricing

**ROLLER BEARINGS**

- BT1 bearings

**ROLLING**

- \*BT1 materials working
- RT cladding
- RT cold working
- RT compacting
- RT hot working
- RT plating

**ROLLING FRICTION**

- BT1 friction
- RT gears
- RT wear

**rolphoton npd-2 reactor**

1977-01-25

(Prior to July 1985 this was valid ETDE descriptor.)

- USE npd reactor

**ROMANIA**

- UF *rumania*
- BT1 developing countries
- \*BT1 eastern europe
- RT black sea
- RT centrally planned economies
- RT danube river

**ROMANIAN ORGANIZATIONS**

1999-05-11

- BT1 national organizations

**romanian wwr-c reactor**

- USE wwr-s-bucharest reactor

**ROMASHKA REACTOR***Kurchatov Inst., Russian Federation.*UF *kurchatov institute romashka reactor*

- \*BT1 research reactors
- \*BT1 solid homogeneous reactors

**rombach process**

2000-04-12

(Prior to July 1993, this was a valid ETDE descriptor.)

- USE coal gasification

**rome triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-05-11

- USE triga-2-rome reactor

**romeo event**

INIS: 1994-10-14; ETDE: 1984-05-23

*A test made during PROJECT CASTLE.*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE atmospheric explosions
- USE nuclear explosions

**ROOF BOLTS**

INIS: 1999-05-19; ETDE: 1976-07-07

- \*BT1 mining equipment
- RT strata control
- RT supports

**ROOF PONDS**

INIS: 2000-05-08; ETDE: 1979-02-27

- \*BT1 passive solar cooling systems
- \*BT1 passive solar heating systems
- \*BT1 solar ponds
- RT roofs

**ROOFS**

INIS: 1986-04-04; ETDE: 1975-09-11

- UF *building envelope*
- BT1 mechanical structures
- NT1 green roofs
- RT buildings

- RT roof ponds

**ROOM AND PILLAR MINING**

INIS: 1992-08-28; ETDE: 1977-07-23

- \*BT1 underground mining
- RT coal mining

**ROOPPUR REACTOR**UF *mpp-rooppur reactor*

- \*BT1 pwr type reactors

**ROOSEVELT HOT SPRINGS**

INIS: 2000-04-12; ETDE: 1979-01-30

- BT1 kgra
- \*BT1 utah
- RT geothermal fields

**ROOT ABSORPTION**UF *absorption (root)*

- \*BT1 absorption
- BT1 uptake
- RT roots

**ROOTS**

- RT plants
- RT root absorption
- RT soils

**ROPE PROCESS**

INIS: 2000-04-12; ETDE: 1989-10-06

*Recycle oil pyrolysis extraction.*

- RT oil sands
- RT oil shales
- RT pyrolysis
- RT retorting

**roper resonance**

- USE n-1440 baryons

**ROPES**

INIS: 2000-04-12; ETDE: 1978-10-30

- RT cables
- RT chains
- RT wires

**rort**

INIS: 2000-04-12; ETDE: 1978-10-23

- USE radial-outflow reaction turbines

**ROSACEAE**

INIS: 1992-01-13; ETDE: 1989-06-05

*Rose family.*

- \*BT1 magnoliopsida
- NT1 strawberries
- RT apples
- RT apricots
- RT cherries
- RT peaches
- RT pears
- RT plums
- RT raspberries

**ROSATOM**

2016-07-28

*National nuclear corporation, Moscow, Russian Federation.*

- \*BT1 russian organizations

**ROSE BENGAL**

- BT1 dyes
- \*BT1 hydroxy acids
- BT1 indicators
- \*BT1 organic chlorine compounds
- \*BT1 organic iodine compounds
- BT1 reagents
- RT phthalic acid

**ROSE-METAL**

2000-04-12

- \*BT1 bismuth alloys
- \*BT1 lead alloys
- \*BT1 tin alloys

**ROSE PROCESS**

*INIS: 2000-04-12; ETDE: 1976-08-25*  
*Residuum Oil Supercritical Extraction process involves use of variety of selective solvents for extractive treatment of reduced crude oils and vacuum residues.*

RT residual fuels

**rosenblum counters**

USE spark counters

**ROSENBLUTH FORMULA**

RT cross sections  
 RT elastic scattering  
 RT four momentum transfer

**rosenbluth-nelkin model**

1996-07-23

(Until July 1996 this was a valid descriptor.)

SEE neutron transport theory

**ROSENFELD FORCE**

UF rosenfeld mixture  
 RT nucleon-nucleon potential  
 RT nucleons  
 RT potentials

**rosenfeld mixture**

USE rosenfeld force

**ROSPO REACTOR**

1986-10-29

*Decommissioned since 1983.*

UF casaccia rospo reactor

UF reattore organico sperimentale potenza zero

\*BT1 enriched uranium reactors  
 \*BT1 organic moderated reactors  
 \*BT1 tank type reactors  
 \*BT1 zero power reactors

**ROSSELAND APPROXIMATION**

\*BT1 approximations  
 RT boundary layers  
 RT heat transfer  
 RT thermal radiation

**rossendorf assembly for critical experiments**

*INIS: 1993-11-09; ETDE: 1975-09-11*

USE rake-2 reactor

**rossendorf wwr-sm reactor**

*INIS: 1984-06-21; ETDE: 2002-05-11*

USE wwr-sm rossendorf reactor

**rossendorf zfk**

1991-05-02

USE zfk rossendorf

**ROSSI ALPHA METHOD**

RT reactor period

**ROSTOV-1 REACTOR**

2015-03-31

*Rostov NPP, Volgodonsk, Russian Federation.*

\*BT1 wwer type reactors

**ROSTOV-2 REACTOR**

2015-03-31

*Rostov NPP, Volgodonsk, Russian Federation*

\*BT1 wwer type reactors

**ROSTOV-3 REACTOR**

2017-10-30

*near Volgodonsk in Rostov Region, Russian Federation.*

\*BT1 wwer type reactors

**ROTAMAK DEVICES**

*INIS: 1986-08-19; ETDE: 1986-09-05*

*A compact torus device in which a rotating magnetic field is used to maintain the toroidal plasma current.*

\*BT1 compact torus

**ROTARY DRILLING**

*INIS: 2000-04-12; ETDE: 1977-03-08*

BT1 drilling  
 RT drilling equipment  
 RT drilling fluids  
 RT rock drilling  
 RT well drilling

**ROTARY DRILLS**

*INIS: 1997-06-19; ETDE: 1977-03-08*

\*BT1 drills  
 NT1 turbodrills  
 RT drill bits  
 RT rock drilling  
 RT well drilling

**ROTARY ENGINES**

*INIS: 2000-04-12; ETDE: 1975-10-01*

SF krov machine  
 \*BT1 internal combustion engines  
 NT1 wankel engines  
 RT helical rotary screw expander

**ROTARY SEPARATOR TURBINES**

*INIS: 2000-04-12; ETDE: 1980-03-04*

\*BT1 turbines  
 RT total flow systems

**ROTATING CRYSTAL METHOD**

BT1 diffraction methods  
 RT weissenberg method

**ROTATING DISK REMOVAL SYSTEMS**

*INIS: 2000-04-12; ETDE: 1978-01-23*

\*BT1 pollution control equipment  
 RT oil spills  
 RT water pollution control

**ROTATING GENERATORS**

1999-06-30

\*BT1 electric generators  
 NT1 superconducting generators

**ROTATING PLASMA**

*INIS: 1981-08-31; ETDE: 1981-09-22*

BT1 plasma

**ROTATION**

BT1 motion  
 RT angular momentum  
 RT backbending  
 RT coriolis force  
 RT guiding-center approximation  
 RT gyroscopes  
 RT moment of inertia  
 RT precession

**ROTATION-VIBRATION MODEL**

*INIS: 1991-09-25; ETDE: 1991-12-05*

\*BT1 collective model  
 RT deformed nuclei  
 RT rotational states  
 RT vibrational states

**rotational band**

USE rotational states

**ROTATIONAL INVARIANCE**

BT1 invariance principles  
 RT axial symmetry

**ROTATIONAL STATES**

UF collective states (rotational)  
 UF rotational band  
 \*BT1 excited states

RT backbending  
 RT rotation-vibration model

**ROTATIONAL TRANSFORM**

1999-07-26

*The displacement of a magnetic line of force in a single circuit about a toroidal tube so that it does not close upon itself.*

RT magnetic confinement  
 RT magnetic field configurations  
 RT magnetic fields  
 RT magnetic flux coordinates  
 RT magnetic surfaces  
 RT reversed-field pinch devices  
 RT reversed shear  
 RT sawtooth oscillations  
 RT shear  
 RT thermonuclear devices  
 RT tori  
 RT toroidal configuration

**ROTIFERA**

*INIS: 1993-07-19; ETDE: 1983-04-28*

*A phylum of multicellular animals in the subkingdom eumetazoa.*

BT1 aquatic organisms  
 \*BT1 invertebrates  
 RT aquatic ecosystems  
 RT fresh water

**rotliegende epoch**

*INIS: 2000-04-12; ETDE: 1977-10-20*

USE permian period

**ROTONS**

BT1 quasi particles  
 RT landau liquid helium theory  
 RT vortex theory

**ROTORS**

SF krov machine  
 NT1 darrieus rotors  
 NT1 flywheels  
 NT1 madaras rotors  
 NT1 savonius rotors  
 NT1 tipvane rotors  
 RT armatures  
 RT machine parts  
 RT stators

**rotterdam spot market**

*INIS: 1992-01-29; ETDE: 1979-12-10*

USE spot market

**rough vacuum**

SEE pressure range kilo pa  
 SEE pressure range pa

**ROUGHNESS**

UF smoothness  
 BT1 surface properties

**rous sarcoma virus**

*INIS: 1976-03-25; ETDE: 1975-08-19*

USE oncogenic viruses

**ROUTING**

*INIS: 1984-01-18; ETDE: 1983-09-15*

UF transportation routes  
 RT evacuation  
 RT external zones  
 RT rail transport  
 RT road transport  
 RT waste transportation

**ROVER REACTORS**

UF rocket reactor experiment rover  
 \*BT1 experimental reactors  
 \*BT1 hydrogen cooled reactors  
 \*BT1 space propulsion reactors

**ROVNO-1 REACTOR**

INIS: 1984-08-23; ETDE: 1978-04-06

\*BT1 wwer type reactors

**ROVNO-2 REACTOR**

INIS: 1984-08-23; ETDE: 1978-04-06

\*BT1 wwer type reactors

**ROVNO-3 REACTOR**

INIS: 1984-08-23; ETDE: 1978-04-06

\*BT1 wwer type reactors

**ROVNO-4 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 wwer type reactors

**ROVNO-5 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 wwer type reactors

**ROWE YANKEE REACTOR**

Yankee Atomic Electric, Rowe, Massachusetts, USA. Shut down in 1991; decommissioned in 1995.

UF yankee rowe reactor

\*BT1 pwr type reactors

**ROXBYP DOWNS DEPOSIT**

INIS: 1980-12-01; ETDE: 1981-01-09

\*BT1 uranium deposits

RT olympic dam mine

RT south australia

RT uranium ores

**royal jelly**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

SEE radioprotective substances

**ROYALTIES**

INIS: 1999-03-04; ETDE: 1978-11-14

Payment to the owner or grantor as a share of the product or profit from the use of a property.

BT1 income

RT economics

RT mineral resources

RT profits

**RP-10 REACTOR**

INIS: 1987-08-27; ETDE: 1987-10-02

Peruvian Nuclear Energy Institute, Lima, Peru.

\*BT1 pool type reactors

\*BT1 research reactors

**RPL DOSEMETERS**

UF fluorod

UF glass dosimeters

UF radiophotoluminescent dosimeters

\*BT1 luminescent dosimeters

RT phosphate glass

**RPT REACTOR**

Moscow, Russian Federation.

UF mr-2 moscow reactor

UF physical and technical research reactor moscow

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 mixed spectrum reactors

\*BT1 research reactors

\*BT1 tank type reactors

**rra**

INIS: 1984-04-04; ETDE: 2002-05-11

USE radioreceptor assay

**rrc, kalpakkam**

INIS: 1977-03-14; ETDE: 2002-05-11

USE igcar

**rscw reactor**

USE wsur reactor

**rsi avogadro reactor**

USE avogadro rs-1 reactor

**RTP REACTOR**

1984-12-04

Reaktor Triga Puspatti.

UF puspati triga reactor

UF reactor triga puspati

UF triga puspati reactor

\*BT1 isotope production reactors

\*BT1 triga type reactors

**RTP TOKAMAK**

1993-08-03

Rijnhuizen Tokamak Project, Netherlands.

\*BT1 tokamak devices

**rtr method**

INIS: 2000-04-12; ETDE: 1980-02-11

USE ribbon-to-ribbon method

**RTR REACTOR**

Savannah River Plant, Aiken, South Carolina, USA.

UF resonance test reactor savannah

UF savannah river lab rtr reactor

\*BT1 heavy water moderated reactors

\*BT1 production reactors

**RTS-1 REACTOR**

Centre for Military Applications of Nuclear Energy, Pisa, Italy. Decommissioned since 2016.

UF galileo galilei italy

UF san piero a grado pisa reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

**rubber (natural)**

USE natural rubber

**RUBBER INDUSTRY**

INIS: 1993-09-01; ETDE: 1980-05-23

BT1 industry

RT rubbers

**RUBBER TREES**

1997-06-17

\*BT1 euphorbia

\*BT1 trees

NT1 guayule

NT1 hevea

RT natural rubber

**RUBBERS**

\*BT1 elastomers

\*BT1 organic polymers

NT1 buna

NT1 latex

NT1 natural rubber

NT1 silastic

NT1 viton

RT dielectric materials

RT ethylene propylene diene polymers

RT plasticizers

RT rubber industry

RT synthetic materials

RT vulcanization

**rubella virus**

INIS: 1980-04-02; ETDE: 1980-05-06

USE measles virus

**rubeola**

INIS: 1976-06-23; ETDE: 1976-08-24

USE measles

**rubeola virus**

INIS: 1980-04-02; ETDE: 1980-05-06

USE measles virus

**RUBIDIUM**

\*BT1 alkali metals

**RUBIDIUM 100**

INIS: 1976-03-02; ETDE: 1975-11-11

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 101**

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 102**

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 103**

INIS: 1982-06-09; ETDE: 1982-07-08

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 71**

2007-12-21

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 rubidium isotopes

**RUBIDIUM 72**

2007-12-21

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

\*BT1 rubidium isotopes

**RUBIDIUM 73**

INIS: 1992-09-23; ETDE: 1980-06-22

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 74**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 75**

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 rubidium isotopes

\*BT1 seconds living radioisotopes

**RUBIDIUM 76**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 microseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rubidium isotopes

\*BT1 seconds living radioisotopes

**RUBIDIUM 77**

\*BT1 beta-plus decay radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 78**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 79**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 80**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 81**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 82**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 83**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 84**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 84 TARGET**

*INIS: 1976-07-06; ETDE: 1976-08-24*  
BT1 targets

**RUBIDIUM 85**

- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 stable isotopes

**RUBIDIUM 85 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**RUBIDIUM 86**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 87**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 years living radioisotopes

**RUBIDIUM 87 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**RUBIDIUM 88**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 88 TARGET**

*INIS: 1980-07-24; ETDE: 1980-08-12*  
BT1 targets

**RUBIDIUM 89**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 92**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 96**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM ADDITIONS**

*Alloys containing not more than 1% Rb are listed here.*

- \*BT1 rubidium alloys

**RUBIDIUM ALLOYS**

*Alloys containing more than 1% Rb.*

- BT1 alloys
- NT1 rubidium additions
- NT1 rubidium base alloys

**RUBIDIUM BASE ALLOYS**

- \*BT1 rubidium alloys

**RUBIDIUM BROMIDES**

- \*BT1 bromides
- \*BT1 rubidium halides

**RUBIDIUM CARBIDES**

*INIS: 1981-02-27; ETDE: 1976-03-22*  
\*BT1 carbides  
\*BT1 rubidium compounds

**RUBIDIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 rubidium compounds

**RUBIDIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 rubidium halides

**RUBIDIUM COMPLEXES**

- \*BT1 alkali metal complexes

**RUBIDIUM COMPOUNDS**

*1997-06-19*

- BT1 alkali metal compounds
- NT1 rubidium carbides
- NT1 rubidium carbonates
- NT1 rubidium halides
- NT2 rubidium bromides
- NT2 rubidium chlorides
- NT2 rubidium fluorides
- NT2 rubidium iodides
- NT1 rubidium hydrides
- NT1 rubidium hydroxides
- NT1 rubidium nitrates
- NT1 rubidium oxides
- NT1 rubidium perchlorates
- NT1 rubidium phosphates
- NT1 rubidium selenides
- NT1 rubidium silicates

NT1 rubidium silicides  
 NT1 rubidium sulfates  
 NT1 rubidium sulfides  
 NT1 rubidium tellurides  
 NT1 rubidium tungstates  
 NT1 rubidium uranates

**RUBIDIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 rubidium halides

**RUBIDIUM HALIDES**

2012-07-25

\*BT1 halides  
 \*BT1 rubidium compounds  
 NT1 rubidium bromides  
 NT1 rubidium chlorides  
 NT1 rubidium fluorides  
 NT1 rubidium iodides

**RUBIDIUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 rubidium compounds

**RUBIDIUM HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 rubidium compounds

**RUBIDIUM IODIDES**

\*BT1 iodides  
 \*BT1 rubidium halides

**RUBIDIUM IONS**

\*BT1 ions

**RUBIDIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 rubidium 100  
 NT1 rubidium 101  
 NT1 rubidium 102  
 NT1 rubidium 103  
 NT1 rubidium 71  
 NT1 rubidium 72  
 NT1 rubidium 73  
 NT1 rubidium 74  
 NT1 rubidium 75  
 NT1 rubidium 76  
 NT1 rubidium 77  
 NT1 rubidium 78  
 NT1 rubidium 79  
 NT1 rubidium 80  
 NT1 rubidium 81  
 NT1 rubidium 82  
 NT1 rubidium 83  
 NT1 rubidium 84  
 NT1 rubidium 85  
 NT1 rubidium 86  
 NT1 rubidium 87  
 NT1 rubidium 88  
 NT1 rubidium 89  
 NT1 rubidium 90  
 NT1 rubidium 91  
 NT1 rubidium 92  
 NT1 rubidium 93  
 NT1 rubidium 94  
 NT1 rubidium 95  
 NT1 rubidium 96  
 NT1 rubidium 97  
 NT1 rubidium 98  
 NT1 rubidium 99

**RUBIDIUM NITRATES**

\*BT1 nitrates  
 \*BT1 rubidium compounds

**RUBIDIUM OXIDES**

\*BT1 oxides  
 \*BT1 rubidium compounds

**RUBIDIUM PERCHLORATES**

2000-04-12

\*BT1 perchlorates  
 \*BT1 rubidium compounds

**RUBIDIUM PHOSPHATES**

\*BT1 phosphates  
 \*BT1 rubidium compounds

**RUBIDIUM SELENIDES**

INIS: 1991-09-16; ETDE: 1980-09-05

\*BT1 rubidium compounds  
 \*BT1 selenides

**RUBIDIUM SILICATES**

INIS: 1977-01-26; ETDE: 1976-11-01

\*BT1 rubidium compounds  
 \*BT1 silicates

**RUBIDIUM SILICIDES**

INIS: 1991-09-16; ETDE: 1977-01-10

\*BT1 rubidium compounds  
 \*BT1 silicides

**RUBIDIUM SULFATES**

\*BT1 rubidium compounds  
 \*BT1 sulfates

**RUBIDIUM SULFIDES**

INIS: 1991-09-16; ETDE: 1976-02-19

\*BT1 rubidium compounds  
 \*BT1 sulfides

**RUBIDIUM TELLURIDES**

INIS: 2000-04-12; ETDE: 1979-05-03

\*BT1 rubidium compounds  
 \*BT1 tellurides

**RUBIDIUM TUNGSTATES**

1978-05-19

\*BT1 rubidium compounds  
 \*BT1 tungstates

**RUBIDIUM URANATES**

INIS: 1975-11-27; ETDE: 1975-08-19

\*BT1 rubidium compounds  
 \*BT1 uranates

**RUBREDOXIN**

INIS: 2000-04-12; ETDE: 1982-08-24

\*BT1 metalloproteins  
 RT ferredoxin  
 RT iron complexes

**RUBY**

\*BT1 corundum

**RUBY LASERS**

\*BT1 solid state lasers

**RUDERMAN-KITTEL COUPLING**

BT1 coupling

**RUDSTAM FORMULA**

RT spallation

**RUHR 100 GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1983-04-07

*The Ruhr 100 gasifier is basically a Lurgi type gasifier with modifications for high pressure operation.*

\*BT1 coal gasification

**rulison event**

1994-10-14

*A test made during OPERATION MANDREL.*

*(Prior to September 1994, this was a valid ETDE descriptor.)*

USE nuclear explosions  
 USE underground explosions

**RUM JUNGLE MINE**

INIS: 1999-10-28; ETDE: 1999-11-01

*(Until October 1999 this was spelled RUM JUNGLE.)*

UF *rum jungle project*

\*BT1 uranium mines

RT australia

**rum jungle project**

2000-04-12

USE rum jungle mine

**rumania**

USE romania

**rumen**

USE ruminants

USE stomach

**RUMINANTS**

1996-11-13

*(Prior to March 1997 ANTELOPES was a valid ETDE descriptor.)*

UF *antelopes*

UF *rumen*

\*BT1 mammals

NT1 buffalo

NT1 camels

NT1 cattle

NT2 calves

NT2 cows

NT1 deer

NT1 goats

NT1 llamas

NT1 sheep

**runaway (reactor accident)**

USE excursions

**RUNAWAY ELECTRONS**

\*BT1 electrons

RT tail electrons

**RUNGE-KUTTA METHOD**

INIS: 1981-03-23; ETDE: 1978-08-07

*A self-optimizing interpolation method.*

\*BT1 iterative methods

\*BT1 numerical solution

RT differential equations

RT interpolation

RT mathematics

**RUNOFF**

INIS: 1992-02-23; ETDE: 1978-07-05

\*BT1 environmental transport

RT atmospheric precipitations

RT drainage

RT floods

RT interception

RT rain water

RT settling ponds

RT storms

RT throughfall

RT watersheds

**rupture disks**

1986-04-04

USE relief valves

**RUPTURES**

BT1 failures

RT fracture properties

RT fractures

**RURAL AREAS**

RT boom towns

RT remote areas

RT residential sector

RT rural energy centers

RT rural populations



**rural electrification administration**

INIS: 2000-04-12; ETDE: 1979-09-06

USE us rea

**RURAL ENERGY CENTERS**

INIS: 2000-04-12; ETDE: 1977-08-09

Centers to improve the basic living environment by exploiting renewable energy at the rural level.

RT developing countries

RT energy facilities

RT energy parks

RT rural areas

**RURAL POPULATIONS**

\*BT1 human populations

RT rural areas

**russell-saunders coupling**

USE l-s coupling

**russellville-1 arkansas reactor**

1993-11-09

USE arkansas-1 reactor

**russellville-2 arkansas reactor**

1993-11-09

USE arkansas-2 reactor

**RUSSIAN FEDERATION**

INIS: 1997-08-20; ETDE: 1992-12-03

(Until January 1993, this was indexed by USSR.)

SF soviet union

SF union of soviet socialist republics

SF ussr

\*BT1 eastern europe

NT1 dubna

NT1 kamchatka

NT1 kurile islands

NT1 lovozero

NT1 novaya zemlya

NT1 siberia

RT caspian sea

RT caucasus

RT kyshtym plant

RT mayak plant

RT sami people

RT techa river

RT urals

RT volga river

**RUSSIAN ORGANIZATIONS**

1997-07-30

(Until July 1997 this concept was indexed to USSR ORGANIZATIONS.)

UF ussr organizations

BT1 national organizations

NT1 gosatomnadzor rossii

NT1 nrc kurchatov institute

NT2 ihep

NT2 itep

NT2 st petersburg institute of nuclear physics

NT1 rosatom

**russian state nuclear and radiation safety authority**

INIS: 2000-04-12; ETDE: 1997-08-23

USE gosatomnadzor rossii

**russian thistle**

INIS: 2000-04-12; ETDE: 1981-04-17

(Prior to March 1997 TUMBLEWEEDS was used for this concept in ETDE.)

USE magnoliopsida

**RUTHENIUM**

\*BT1 platinum metals

\*BT1 refractory metals

**RUTHENIUM 100**

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 stable isotopes

**RUTHENIUM 100 TARGET**

ETDE: 1976-07-09

BT1 targets

**RUTHENIUM 101**

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 stable isotopes

**RUTHENIUM 101 TARGET**

INIS: 1976-10-07; ETDE: 1976-11-01

BT1 targets

**RUTHENIUM 102**

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 stable isotopes

**RUTHENIUM 102 TARGET**

INIS: 1975-10-23; ETDE: 1976-07-09

BT1 targets

**RUTHENIUM 103**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

**RUTHENIUM 103 TARGET**

INIS: 1984-02-23; ETDE: 1981-08-21

BT1 targets

**RUTHENIUM 104**

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 stable isotopes

**RUTHENIUM 104 REACTIONS**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 heavy ion reactions

**RUTHENIUM 104 TARGET**

ETDE: 1976-07-09

BT1 targets

**RUTHENIUM 105**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

**RUTHENIUM 106**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 years living radioisotopes

**RUTHENIUM 107**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 ruthenium isotopes

**RUTHENIUM 108**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 ruthenium isotopes

**RUTHENIUM 109**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 seconds living radioisotopes

**RUTHENIUM 110**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 seconds living radioisotopes

**RUTHENIUM 111**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 seconds living radioisotopes

**RUTHENIUM 112**

1979-01-18

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 seconds living radioisotopes

**RUTHENIUM 113**

INIS: 1979-01-18; ETDE: 1979-02-23

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 seconds living radioisotopes

**RUTHENIUM 114**

1993-03-09

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 ruthenium isotopes

**RUTHENIUM 115**

2007-06-06

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 ruthenium isotopes

**RUTHENIUM 116**

2007-06-06

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 ruthenium isotopes

**RUTHENIUM 117**

2007-06-06

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 ruthenium isotopes

**RUTHENIUM 118**

2007-06-06

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 ruthenium isotopes

**RUTHENIUM 119**

2007-06-06

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

### RUTHENIUM 120

2007-06-06

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes

### RUTHENIUM 87

2007-06-06

\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 ruthenium isotopes

### RUTHENIUM 88

1995-02-27

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes

### RUTHENIUM 89

1999-09-22

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes  
\*BT1 seconds living radioisotopes

### RUTHENIUM 90

INIS: 1996-11-27; ETDE: 1996-01-12

\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes  
\*BT1 seconds living radioisotopes

### RUTHENIUM 91

1983-09-05

\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes  
\*BT1 seconds living radioisotopes

### RUTHENIUM 92

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 ruthenium isotopes

### RUTHENIUM 93

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 ruthenium isotopes  
\*BT1 seconds living radioisotopes

### RUTHENIUM 94

\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 ruthenium isotopes

### RUTHENIUM 95

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes

### RUTHENIUM 96

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes  
\*BT1 stable isotopes

### RUTHENIUM 96 TARGET

ETDE: 1976-07-09

BT1 targets

### RUTHENIUM 97

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes

### RUTHENIUM 98

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes  
\*BT1 stable isotopes

### RUTHENIUM 98 TARGET

1979-02-21

BT1 targets

### RUTHENIUM 99

\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes  
\*BT1 stable isotopes

### RUTHENIUM 99 TARGET

INIS: 1978-11-24; ETDE: 1978-12-20

BT1 targets

### RUTHENIUM ADDITIONS

*Alloys containing not more than 1% Ru are listed here.*

\*BT1 ruthenium alloys

### RUTHENIUM ALLOYS

*Alloys containing more than 1% Ru.*

\*BT1 platinum metal alloys  
NT1 ruthenium additions  
NT1 ruthenium base alloys

### RUTHENIUM ARSENIDES

INIS: 2000-04-12; ETDE: 1984-06-14

\*BT1 arsenides  
\*BT1 ruthenium compounds

### RUTHENIUM BASE ALLOYS

\*BT1 ruthenium alloys

### RUTHENIUM BORIDES

1976-02-05

\*BT1 borides  
\*BT1 ruthenium compounds

### RUTHENIUM BROMIDES

INIS: 1977-06-13; ETDE: 1977-10-20

\*BT1 bromides  
\*BT1 ruthenium halides

### RUTHENIUM CARBIDES

\*BT1 carbides  
\*BT1 ruthenium compounds

### RUTHENIUM CHLORIDES

\*BT1 chlorides  
\*BT1 ruthenium halides

### RUTHENIUM COMPLEXES

\*BT1 transition element complexes

### RUTHENIUM COMPOUNDS

1997-06-19

BT1 refractory metal compounds  
BT1 transition element compounds  
NT1 ruthenium arsenides  
NT1 ruthenium borides  
NT1 ruthenium carbides  
NT1 ruthenium halides  
NT2 ruthenium bromides

NT2 ruthenium chlorides

NT2 ruthenium fluorides

NT1 ruthenium hydrides

NT1 ruthenium hydroxides

NT1 ruthenium nitrates

NT1 ruthenium nitrides

NT1 ruthenium nitrosyls

NT1 ruthenium oxides

NT1 ruthenium phosphides

NT1 ruthenium selenides

NT1 ruthenium silicides

NT1 ruthenium sulfates

NT1 ruthenium sulfides

NT1 ruthenium tellurides

### RUTHENIUM FLUORIDES

\*BT1 fluorides

\*BT1 ruthenium halides

### RUTHENIUM HALIDES

2012-07-25

\*BT1 halides

\*BT1 ruthenium compounds

NT1 ruthenium bromides

NT1 ruthenium chlorides

NT1 ruthenium fluorides

### RUTHENIUM HYDRIDES

INIS: 1976-02-05; ETDE: 1975-10-28

\*BT1 hydrides

\*BT1 ruthenium compounds

### RUTHENIUM HYDROXIDES

\*BT1 hydroxides

\*BT1 ruthenium compounds

### RUTHENIUM IONS

\*BT1 ions

### RUTHENIUM ISOTOPES

1999-07-16

BT1 isotopes

NT1 ruthenium 100

NT1 ruthenium 101

NT1 ruthenium 102

NT1 ruthenium 103

NT1 ruthenium 104

NT1 ruthenium 105

NT1 ruthenium 106

NT1 ruthenium 107

NT1 ruthenium 108

NT1 ruthenium 109

NT1 ruthenium 110

NT1 ruthenium 111

NT1 ruthenium 112

NT1 ruthenium 113

NT1 ruthenium 114

NT1 ruthenium 115

NT1 ruthenium 116

NT1 ruthenium 117

NT1 ruthenium 118

NT1 ruthenium 119

NT1 ruthenium 120

NT1 ruthenium 87

NT1 ruthenium 88

NT1 ruthenium 89

NT1 ruthenium 90

NT1 ruthenium 91

NT1 ruthenium 92

NT1 ruthenium 93

NT1 ruthenium 94

NT1 ruthenium 95

NT1 ruthenium 96

NT1 ruthenium 97

NT1 ruthenium 98

NT1 ruthenium 99

### RUTHENIUM NITRATES

\*BT1 nitrates

\*BT1 ruthenium compounds

**RUTHENIUM NITRIDES**

*INIS: 2000-04-12; ETDE: 1975-12-16*

- \*BT1 nitrides
- \*BT1 ruthenium compounds

**RUTHENIUM NITROSYLS**

- \*BT1 ruthenium compounds

**RUTHENIUM OXIDES**

- \*BT1 oxides
- \*BT1 ruthenium compounds

**RUTHENIUM PHOSPHIDES**

*1978-07-03*

- \*BT1 phosphides
- \*BT1 ruthenium compounds

**RUTHENIUM SELENIDES**

*INIS: 1991-09-16; ETDE: 1976-04-19*

- \*BT1 ruthenium compounds
- \*BT1 selenides

**RUTHENIUM SILICIDES**

*INIS: 1986-07-09; ETDE: 1985-10-25*

- \*BT1 ruthenium compounds
- \*BT1 silicides

**RUTHENIUM SULFATES**

- \*BT1 ruthenium compounds
- \*BT1 sulfates

**RUTHENIUM SULFIDES**

*INIS: 1978-11-24; ETDE: 1978-12-20*

- \*BT1 ruthenium compounds
- \*BT1 sulfides

**RUTHENIUM TELLURIDES**

*INIS: 1991-09-16; ETDE: 1977-03-04*

- \*BT1 ruthenium compounds
- \*BT1 tellurides

**rutherford backscattering spectrometry**

*2002-11-25*

- USE rutherford backscattering spectroscopy

**RUTHERFORD BACKSCATTERING SPECTROSCOPY**

*2002-11-25*

(Prior to Dec 2002 RUTHERFORD SCATTERING + BACKSCATTERING was used for this concept.)

- UF *rbs*
- UF *rutherford backscattering spectrometry*
- BT1 spectroscopy
- RT backscattering
- RT ion spectroscopy
- RT rutherford scattering

**RUTHERFORD SCATTERING**

- \*BT1 elastic scattering
- RT rutherford backscattering spectroscopy

**rutherfordite**

*1997-01-28*

(Until October 1996 this was a valid descriptor.)

- USE carbonate minerals
- USE uranium minerals

**RUTHERFORDIUM**

*2004-03-12*

(Prior to March 2004 ELEMENT 104 was used for this element.)

- UF *eka-hafnium*
- UF *element 104*
- UF *kurchatovium*
- UF *unnilquadium*
- \*BT1 transactinide elements

**RUTHERFORDIUM 253**

*2004-03-12*

(Prior to March 2004 ELEMENT 104 253 was used for this concept.)

- UF *element 104 253*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 254**

*2004-03-12*

(Prior to March 2004 ELEMENT 104 254 was used for this concept.)

- UF *element 104 254*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 255**

*2004-03-12*

(Prior to March 2004 ELEMENT 104 255 was used for this concept.)

- UF *element 104 255*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 256**

*2004-03-12*

(Prior to March 2004 ELEMENT 104 256 was used for this concept.)

- UF *element 104 256*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 257**

*2004-03-12*

(Prior to March 2004 ELEMENT 104 257 was used for this concept.)

- UF *element 104 257*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 258**

*2004-03-12*

(Prior to March 2004 ELEMENT 104 258 was used for this concept.)

- UF *element 104 258*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 259**

*2004-03-12*

(Prior to March 2004 ELEMENT 104 259 was used for this concept.)

- UF *element 104 259*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei

- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 260**

*2004-03-12*

(Prior to March 2004 ELEMENT 104 260 was used for this concept.)

- UF *element 104 260*
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 261**

*2004-03-12*

(Prior to March 2004 ELEMENT 104 261 was used for this concept.)

- UF *element 104 261*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 262**

*2004-03-15*

(Prior to March 2004 ELEMENT 104 262 was used for this concept.)

- UF *element 104 262*
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 263**

*2004-03-15*

(Prior to March 2004 ELEMENT 104 263 was used for this concept.)

- UF *element 104 263*
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 264**

*2007-12-21*

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes

**RUTHERFORDIUM 265**

*2007-12-21*

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes

**RUTHERFORDIUM 266**

*2007-12-21*

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes

**RUTHERFORDIUM 267**

*2007-12-21*

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 268**

*2007-12-21*

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes

**RUTHERFORDIUM CHLORIDES**

2004-03-15

(Prior to March 2004 ELEMENT 104 CHLORIDES was used for this concept.)

UF *element 104 chlorides*

\*BT1 chlorides

\*BT1 rutherfordium halides

**RUTHERFORDIUM COMPLEXES**

2004-03-15

(Prior to March 2004 ELEMENT 104 COMPLEXES was used for this concept.)

UF *element 104 complexes*

\*BT1 transactinide complexes

**RUTHERFORDIUM COMPOUNDS**

2004-03-15

(Prior to March 2004 ELEMENT 104 COMPOUNDS was used for this concept.)

UF *element 104 compounds*

\*BT1 transactinide compounds

NT1 rutherfordium halides

NT2 rutherfordium chlorides

**RUTHERFORDIUM HALIDES**

2012-07-25

\*BT1 halides

\*BT1 rutherfordium compounds

NT1 rutherfordium chlorides

**RUTHERFORDIUM IONS**

2018-01-24

\*BT1 ions

**RUTHERFORDIUM ISOTOPES**

2004-03-12

(Prior to March 2004 ELEMENT 104 ISOTOPES was used for this concept.)

UF *element 104 isotopes*

BT1 isotopes

NT1 rutherfordium 253

NT1 rutherfordium 254

NT1 rutherfordium 255

NT1 rutherfordium 256

NT1 rutherfordium 257

NT1 rutherfordium 258

NT1 rutherfordium 259

NT1 rutherfordium 260

NT1 rutherfordium 261

NT1 rutherfordium 262

NT1 rutherfordium 263

NT1 rutherfordium 264

NT1 rutherfordium 265

NT1 rutherfordium 266

NT1 rutherfordium 267

NT1 rutherfordium 268

**RUTILE**

\*BT1 oxide minerals

\*BT1 radioactive minerals

RT titanium oxides

**RV-1 REACTOR***Venezuelan Scientific Research Institute, IVIC, Caracas, Venezuela.*UF *reactor venezolano-1*

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 training reactors

**RWANDA**

INIS: 1991-10-22; ETDE: 1979-12-10

BT1 africa

BT1 developing countries

**rwe-bayernwerk-a reactor**

INIS: 1975-08-20; ETDE: 2002-05-11

USE rwe-bayernwerk reactor

**rwe-bayernwerk-b reactor**

INIS: 1975-08-20; ETDE: 1976-05-19

USE gundremmingen-2 reactor

**rwe-bayernwerk-c reactor**

INIS: 1975-08-20; ETDE: 1976-05-19

USE gundremmingen-3 reactor

**RWE-BAYERNWERK REACTOR***Gundremmingen, Federal Republic of Germany. Permanent shutdown since January 1977.*UF *gundremmingen-1 reactor*UF *gundremminger krb reactor*UF *kernkraftwerk rwe-bayernwerk*UF *krb reactor*UF *rwe-bayernwerk-a reactor*

\*BT1 bwr type reactors

**rwsu reactor**

USE wsur reactor

**rydberg constant**

(Prior to March 1997 this was a valid ETDE descriptor.)

USE fundamental constants

**RYDBERG CORRECTION**

BT1 corrections

RT balmer lines

RT energy levels

RT energy spectra

RT rydberg states

**RYDBERG EQUATION**

BT1 equations

**RYDBERG-KLEIN-REES METHOD**UF *rkr method*

BT1 calculation methods

RT electronic structure

RT spectra

RT vibrational states

**RYDBERG STATES**

1981-04-03

(Prior to April 1981, this concept in ETDE was indexed to RYDBERG CORRECTION.)

\*BT1 excited states

RT electronic structure

RT rydberg correction

**RYE**

1996-07-18

UF *secale*

\*BT1 cereals

**s-1000 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**s-1930 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE x-1935 mesons

**s-993 resonances**

INIS: 1987-12-21; ETDE: 1979-09-26

(Prior to December 1987 this was a valid descriptor.)

USE f0-980 mesons

**S ANTIQUARKS**

2007-06-26

\*BT1 antiquarks

\*BT1 s quarks

**s-branes**

2007-08-13

USE branes

**S CENTERS**

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 color centers

**S CHANNEL**

RT mandelstam representation

RT particle interactions

RT t channel

RT u channel

**S CODES**

BT1 computer codes

**S MATRIX**UF *collision matrix*UF *t matrix*

BT1 matrices

RT analytic functions

RT detailed balance principle

RT landau curves

RT quantum field theory

RT scattering

RT scattering amplitudes

RT singularity

RT unitarity

RT unitary pole approximation

RT yang-feldman formalism

**S-N DIAGRAM**

\*BT1 diagrams

RT fatigue

RT materials testing

RT stresses

**S PROCESS***Slow process in stellar nucleosynthesis.*

\*BT1 star evolution

RT nucleosynthesis

RT stars

**S QUARKS**

INIS: 1995-09-08; ETDE: 1995-10-03

\*BT1 quarks

\*BT1 strange particles

NT1 s antiquarks

RT strangeonium

**S STATES**

BT1 energy levels

**S WAVES***For seismic waves use SEISMIC S WAVES.*

BT1 partial waves

RT angular momentum

RT quantum mechanics

**s waves (seismic)**

INIS: 1980-05-14; ETDE: 1976-11-17

USE seismic s waves

**S10FS-1 REACTOR***Atomics International Div., Rockwell International, Canoga Park, California, USA.*UF *snap-10a flight system test-1*

\*BT1 nak cooled reactors

\*BT1 snap 10 reactor

**S10FS-3 REACTOR***Atomics International Div., Rockwell International, Canoga Park, California, USA.*UF *snap-10a flight system test-3*

\*BT1 nak cooled reactors

\*BT1 snap 10 reactor

**S10FS-4 REACTOR***Atomics International Div., Rockwell International, Canoga Park, California, USA.*UF *snap-10a flight system test-4*

\*BT1 nak cooled reactors

\*BT1 snap 10 reactor

### S1C PROTOTYPE REACTOR

*KAPL, Niskayuna, New York, USA.*

\*BT1 mobile reactors

\*BT1 pwr type reactors

\*BT1 test reactors

### S2DS REACTOR

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

*UF snap-2 developmental system*

\*BT1 nak cooled reactors

\*BT1 snap 2 reactor

### s4 reactor

2000-04-12

SEE snap reactors

### S8DR REACTOR

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

*UF snap-8 developmental reactor*

\*BT1 nak cooled reactors

\*BT1 snap 8 reactor

### S8ER REACTOR

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

*UF snap-8 experimental reactor*

\*BT1 nak cooled reactors

\*BT1 snap 8 reactor

### s8g prototype reactor

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE ship propulsion reactors

### SAARBERG-HOLTER PROCESS

*INIS: 2000-04-12; ETDE: 1979-05-09*

*A wet lime scrubbing process with additives; gypsum by-product.*

\*BT1 desulfurization

RT waste processing

### SAARBERG-OTTO GASIFICATION PROCESS

*INIS: 2000-04-12; ETDE: 1977-11-09*

*High-temperature process with concurrent flow carburetor operating at 25 bar and below the melting point of slag.*

\*BT1 coal gasification

### saas

*INIS: 1991-05-02; ETDE: 1985-08-09*

(Prior to May 1991, this was a valid descriptor.)

USE bundesamt fuer strahlenschutz

### SABOTAGE

(From May 1987 till March 1997 terrorism was a valid ETDE descriptor.)

*SF terrorism*

**NT1** cyber attacks

*RT* hazards

*RT* human intrusion

*RT* physical protection

*RT* safety

*RT* secrecy protection

*RT* security

*RT* security personnel

*RT* theft

*RT* vulnerability

### SABUGALITE

2000-04-12

\*BT1 uranium minerals

*RT* aluminium phosphates

*RT* uranium phosphates

### SACCHARIDES

1996-06-28

*UF* amino sugars

*UF* aminoglycides

*UF* glycides

*UF* sugars

\*BT1 carbohydrates

**NT1** glycolipids

**NT2** cerebrosides

**NT2** gangliosides

**NT1** glycoproteins

**NT2** avidin

**NT2** glucoproteins

**NT3** lactoferrin

**NT3** ovalbumin

**NT2** luteinizing hormone

**NT1** monosaccharides

**NT2** erythritol

**NT2** hexoses

**NT3** fructose

**NT3** galactose

**NT3** glucose

**NT3** hexosamines

**NT4** glucosamine

**NT3** mannose

**NT3** sorbose

**NT2** inositols

**NT3** inositol

**NT2** pentoses

**NT3** arabinose

**NT3** deoxyribose

**NT3** ribose

**NT3** ribulose

**NT3** xylose

**NT2** sorbitol

**NT1** oligosaccharides

**NT2** disaccharides

**NT3** cellobiose

**NT3** lactose

**NT3** maltose

**NT3** saccharose

**NT2** raffinose

**NT1** polysaccharides

**NT2** agar

**NT2** alginic acid

**NT2** cellophane

**NT2** cellulose

**NT2** dextran

**NT2** dextrin

**NT2** glycogen

**NT2** gum acacia

**NT2** hemicellulose

**NT3** xylans

**NT2** inulin

**NT2** lignin

**NT2** lipopolysaccharides

**NT2** mucopolysaccharides

**NT3** chitin

**NT3** chondroitin

**NT3** heparin

**NT3** hyaluronic acid

**NT2** mucoproteins

**NT3** haptoglobins

**NT3** intrinsic factor

**NT3** phytohemagglutinin

**NT2** nitrocellulose

**NT2** pectins

**NT2** rayon

**NT2** starch

**NT2** viscose

**NT2** xanthan gum

*RT* glycolysis

*RT* hyperglycemia

*RT* molasses

*RT* sugar industry

### SACCHARIFICATION

*INIS: 2000-04-12; ETDE: 1980-06-06*

*Hydrolysis into a simple soluble fermentable sugar.*

(Prior to June 1980 this concept in ETDE was indexed by HYDROLYSIS.)

\*BT1 hydrolysis

*RT* fermentation

### SACCHARIN

\*BT1 organic oxygen compounds

\*BT1 thiazoles

### SACCHAROMYCES

\*BT1 yeasts

**NT1** saccharomyces cerevisiae

### SACCHAROMYCES CEREVISIAE

\*BT1 saccharomyces

### SACCHAROSE

*UF* sucrose

*UF* sugar

\*BT1 disaccharides

*RT* sugar industry

### saclay (cea)

USE cea saclay

### SACLAY LINAC

\*BT1 linear accelerators

### saclay synchrotron

USE saturne

### sacramento rancho seco-1 reactor

*INIS: 1993-11-09; ETDE: 2002-06-13*

USE rancho seco-1 reactor

### sacramento rancho seco-2 reactor

*INIS: 1993-11-09; ETDE: 2002-06-13*

USE rancho seco-2 reactor

### SADDLE-POINT METHOD

BT1 calculation methods

*RT* mathematics

### SAFARI-1 REACTOR

*South African Nuclear Energy Corporation, Pretoria, South Africa.*

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

### safe low power critical experiment

*INIS: 1979-12-20; ETDE: 1980-01-24*

USE slowpoke type reactors

### SAFEGUARD REGULATIONS

\*BT1 regulations

*RT* nuclear materials possession

*RT* safeguards

### SAFEGUARDS

1998-06-10

*Those measures designed to guard against the diversion of material such as source and special nuclear material from uses permitted by law or treaty, and to give timely indication of possible diversion or credible assurance that no diversion has occurred.*

**NT1** domestic safeguards

**NT1** iaea safeguards

*RT* abacc

*RT* accounting

*RT* atomic energy control

*RT* ctb

*RT* ctbo

*RT* denatured fuel

RT detection  
 RT dual-use technologies  
 RT identification systems  
 RT inspection  
 RT intrusion detection systems  
 RT inventories  
 RT legal aspects  
 RT losses  
 RT material balance area  
 RT material unaccounted for  
 RT motion detection systems  
 RT non-proliferation treaty  
 RT nuclear disarmament  
 RT nuclear forensics  
 RT nuclear materials diversion  
 RT nuclear materials management  
 RT nuclear materials possession  
 RT physical protection  
 RT physical protection devices  
 RT proliferation  
 RT safeguard regulations  
 RT security personnel  
 RT security seals  
 RT strategic points  
 RT vulnerability

**SAFETY**

1997-06-17

*For general aspects of safety and protection of personnel.*

UF protection  
 UF protection (safety)  
 NT1 occupational safety  
 NT1 reactor safety  
 RT accident management  
 RT accidents  
 RT alara  
 RT civil defense  
 RT damage  
 RT emergency plans  
 RT engineered safety systems  
 RT ethical aspects  
 RT failures  
 RT fire detectors  
 RT fire extinguishers  
 RT fire fighting  
 RT fire prevention  
 RT hazards  
 RT health hazards  
 RT human factors  
 RT human factors engineering  
 RT injuries  
 RT mine rescue  
 RT personnel  
 RT quality assurance  
 RT quality control  
 RT radiation protection  
 RT sabotage  
 RT safety analysis  
 RT safety engineering  
 RT safety reports  
 RT safety showers  
 RT safety standards  
 RT security  
 RT us occupational safety and health act  
 RT working conditions

**safety (nuclear)**

USE radiation protection

**safety (reactor)**

2000-04-12

USE reactor safety

**SAFETY ANALYSIS**

INIS: 1976-12-08; ETDE: 1991-03-07

RT deterministic estimation  
 RT licensing regulations  
 RT probabilistic estimation  
 RT public relations

RT risk assessment  
 RT safety  
 RT safety reports

**SAFETY CULTURE**

2003-01-17

*That group of attitudes and characteristics which establishes that safety issues receive significant attention.*

UF culture (safety)  
 UF nuclear safety culture  
 BT1 attitudes  
 RT behavior  
 RT education  
 RT ethical aspects  
 RT human factors  
 RT quality assurance  
 RT reactor maintenance  
 RT reactor operation  
 RT reactor operators  
 RT safety engineering

**SAFETY ENGINEERING**

1999-07-06

BT1 engineering  
 RT alarm systems  
 RT engineered safety systems  
 RT fires  
 RT freeze protection  
 RT hazards  
 RT human factors  
 RT pressure release  
 RT reactor safety  
 RT safety  
 RT safety culture  
 RT safety margins  
 RT seismic isolation  
 RT smoke detectors  
 RT systems analysis

**SAFETY INJECTION**

1995-05-02

UF boron injection  
 RT eccs  
 RT reactor protection systems

**SAFETY MARGINS**

INIS: 2004-11-26; ETDE: 2004-12-01

*Differences between ordinary safe operating conditions and the conditions where the device or component will fail.*

RT engineered safety systems  
 RT reactor safety  
 RT reliability  
 RT risk assessment  
 RT safety engineering  
 RT safety standards

**safety of life at sea convention**

INIS: 1984-06-21; ETDE: 2002-06-13

USE solas convention

**SAFETY REPORTS**

INIS: 1976-12-08; ETDE: 1991-03-07

*For items about safety reports, not for items which are safety reports.*

UF design reports  
 RT document types  
 RT licensing regulations  
 RT safety  
 RT safety analysis

**safety research experiment facility reactor**

INIS: 1993-11-09; ETDE: 1976-08-24

USE saref reactor

**safety rods**

USE scram rods

**SAFETY SHOWERS**

UF emergency showers  
 UF showers (safety)  
 RT burns  
 RT decontamination  
 RT first aid  
 RT hazards  
 RT radiation protection  
 RT safety  
 RT washing

**SAFETY STANDARDS**

UF standards (safety)  
 BT1 standards  
 NT1 annual limit of intake  
 NT1 dose limits  
 NT1 maximum acceptable contamination  
 NT1 maximum inhalation quantity  
 NT1 maximum permissible activity  
 NT1 maximum permissible body burden  
 NT1 maximum permissible concentration  
 NT1 maximum permissible dose  
 NT1 maximum permissible exposure  
 NT1 maximum permissible intake  
 NT1 maximum permissible level  
 RT federal radiation council  
 RT gesellschaft fuer anlagen- und reaktorsicherheit  
 RT legal aspects  
 RT licensing  
 RT radiation protection  
 RT radiation protection laws  
 RT reactor safety  
 RT recommendations  
 RT regulations  
 RT retrofitting  
 RT safety  
 RT safety margins  
 RT standardization

**safety test facility reactor**

INIS: 1977-06-13; ETDE: 1976-11-17

USE stf reactor

**safety valves**

INIS: 1976-02-05; ETDE: 1985-03-12

USE relief valves

**SAGINAW RIVER**

INIS: 2000-04-12; ETDE: 1980-12-08

\*BT1 rivers  
 RT hydroelectric power plants  
 RT michigan

**SAHA EQUATION**

UF saha-langmuir equation

BT1 equations  
 RT electric discharges  
 RT thermodynamics

**saha-langmuir equation**

USE saha equation

**SAILS**

INIS: 2000-04-12; ETDE: 1981-08-21

RT ships  
 RT wind

**SAINT ALBAN-1 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

*Electricite de France, Saint-Alban-du-Rhone / Saint-Maurice-l'Exil, Isere, France*

\*BT1 pwr type reactors

**SAINT ALBAN-2 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

*Electricite de France, Saint-Alban-du-Rhone / Saint-Maurice-l'Exil, Isere, France*

\*BT1 pwr type reactors

**SAINT CLAIR RIVER**

2000-04-12

- \*BT1 rivers
- RT canada
- RT michigan

**SAINT JOHN RIVER**

INIS: 2000-04-12; ETDE: 1975-10-28

- \*BT1 rivers
- RT canada

**SAINT KITTS AND NEVIS**

INIS: 1997-09-25; ETDE: 1998-02-24

- \*BT1 lesser antilles

**saint laurent-1 reactor**

(Prior to August 2010 this was a valid descriptor.)

- USE saint laurent-a1 reactor

**saint laurent-2 reactor**

(Prior to August 2010 this was a valid descriptor.)

- USE saint laurent-a2 reactor

**SAINT LAURENT-A1 REACTOR**

2010-08-17

*Electricite de France, Saint-Laurent-Nouan, Loir-et-Cher, France*

(Prior to August 2010 SAINT LAURENT-1 REACTOR was used for this reactor.)

- UF edf-4 reactor
- UF saint laurent-1 reactor
- \*BT1 carbon dioxide cooled reactors
- \*BT1 gcr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**SAINT LAURENT-A2 REACTOR**

2010-08-17

*Electricite de France, Saint-Laurent-Nouan, Loir-et-Cher, France. Permanently shut down since 1992.*

(Prior to August 2010 SAINT LAURENT-2 REACTOR was used for this reactor.)

- UF saint laurent-2 reactor
- \*BT1 carbon dioxide cooled reactors
- \*BT1 gcr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**SAINT LAURENT-B1 REACTOR**

1995-10-02

- UF saint-laurent slb1 reactor
- \*BT1 pwr type reactors

**SAINT LAURENT-B2 REACTOR**

2010-08-17

*Electricite de France, Saint-Laurent-Nouan, Loir-et-Cher, France*

- UF saint-laurent slb2 reactor
- \*BT1 pwr type reactors

**saint-laurent slb1 reactor**

2010-08-17

- USE saint laurent-b1 reactor

**saint-laurent slb2 reactor**

2010-08-17

- USE saint laurent-b2 reactor

**saint lawrence river**

INIS: 2000-04-12; ETDE: 1980-01-15

- USE st lawrence river

**SAINT LUCIA**

INIS: 1990-06-25; ETDE: 1990-08-02

- BT1 developing countries
- BT1 latin america
- \*BT1 west indies

**SAINT VINCENT AND THE GRENADINES**

INIS: 1992-04-24; ETDE: 1992-06-23

- BT1 developing countries
- BT1 latin america
- \*BT1 west indies

**saitama cyclotron**

INIS: 1983-06-01; ETDE: 1983-07-07

- USE ipcr cyclotron

**saitama tunable heavy ion linac**

INIS: 1986-05-23; ETDE: 2002-06-13

- USE rilac

**salam hypothesis**

- USE lee-yang theory

**salam-weinberg gauge model**

INIS: 1995-08-10; ETDE: 1995-11-29

- USE weinberg-salam gauge model

**SALAMANDERS**

1996-11-13

(Prior to March 1997 AXOLOTL was a valid ETDE descriptor.)

- UF axolotl
- UF newts
- UF siredon
- \*BT1 amphibians
- NT1 triturus
- RT frogs

**salary**

INIS: 1992-10-05; ETDE: 1983-06-20

- USE wages

**salazar triga-mk-3 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

- USE triga-3-salazar reactor

**SALEEITE**

- \*BT1 phosphate minerals
- \*BT1 uranium minerals
- RT magnesium phosphates
- RT uranium phosphates

**SALEM-1 REACTOR**

PSEG Nuclear, LLC, Salem, New Jersey, USA.

- UF salem nuclear generating station unit-1
- \*BT1 pwr type reactors

**SALEM-2 REACTOR**

PSEG Nuclear, LLC, Salem, New Jersey, USA.

- UF salem nuclear generating station unit-2
- \*BT1 pwr type reactors

**salem nuclear generating station unit-1**

1993-11-09

- USE salem-1 reactor

**salem nuclear generating station unit-2**

1993-11-09

- USE salem-2 reactor

**SALES**

INIS: 1999-03-04; ETDE: 1979-05-09

(Until March 1999 this concept was indexed by TRADE.)

- SF commodities
- RT competition
- RT exports
- RT imports
- RT marketing
- RT trade

**SALICYLIC ACID**

1996-10-23

- UF hydroxybenzoic acid-ortho
- \*BT1 hydroxy acids

**SALINE AQUIFERS**

2008-05-23

- BT1 aquifers
- RT brines
- RT salinity
- RT seawater

**SALINE SOILS**

2013-11-27

- BT1 soils
- RT salinity

**SALINITY**

- UF chlorinity
- RT brines
- RT desalination
- RT estuaries
- RT fiords
- RT saline aquifers
- RT saline soils
- RT salinity gradients
- RT salts
- RT seawater

**SALINITY GRADIENT POWER PLANTS**

INIS: 2000-04-12; ETDE: 1977-09-19

- UF osmotic power plants
- \*BT1 solar power plants
- RT seawater

**SALINITY GRADIENTS**

INIS: 2000-04-12; ETDE: 1977-09-19

- RT salinity
- RT seawater

**SALIVA**

- \*BT1 body fluids
- RT amylase
- RT salivary glands

**SALIVARY GLANDS**

- \*BT1 glands
- RT oral cavity
- RT saliva

**salmin**

1996-07-08

(Until June 1996 this was a valid descriptor.)

- USE protamines

**SALMON**

- \*BT1 anadromous fishes

**SALMON EVENT**

- BT1 vela project

**SALMONELLA**

1996-07-18

- \*BT1 bacteria
- NT1 salmonella typhimurium
- RT typhoid

**SALMONELLA TYPHIMURIUM**

- \*BT1 salmonella

**salsola kali**

INIS: 2000-04-12; ETDE: 1981-04-17

(Prior to March 1997 TUMBLEWEEDS was used for this concept in ETDE.)

- USE magnoliopsida

**SALT CAVERNS**

INIS: 1983-02-03; ETDE: 1979-04-11

- BT1 cavities
- RT caves
- RT gorleben salt dome
- RT morsleben salt mine

RT radioactive waste disposal  
RT salt deposits

**SALT DEPOSITS**

1997-06-19

UF rock salt  
BT1 geologic deposits  
RT anticlines  
RT asse salt mine  
RT gorleben salt dome  
RT halite  
RT morsleben salt mine  
RT radioactive waste disposal  
RT salt caverns  
RT salt vault project  
RT underground disposal  
RT wipp

**SALT TALKS**

INIS: 1993-01-26; ETDE: 1986-02-03

RT arms control  
RT foreign policy  
RT international relations  
RT nuclear disarmament  
RT treaties

**salt transport process**

INIS: 1980-07-24; ETDE: 1979-12-10

USE pyrochemical reprocessing

**SALT VAULT PROJECT**

UF project salt vault  
RT radioactive wastes  
RT salt deposits  
RT waste disposal

**saltex process**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE purex process

**SALTING-OUT AGENTS**

RT precipitation  
RT solvent extraction

**SALTON SEA**

2000-04-12

\*BT1 lakes  
RT geothermal fields  
RT imperial valley  
RT salton sea geothermal field

**SALTON SEA GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1975-07-29

BT1 geothermal fields  
RT california  
RT salton sea

**SALTS**

See also descriptors for specific salts.

NT1 molten salts

NT2 flibe

RT brines  
RT desalination  
RT salinity

**SALYUT ORBITAL STATIONS**

BT1 satellites  
\*BT1 space vehicles

**SAMARIUM**

\*BT1 rare earths  
RT samarium oscillations

**SAMARIUM 128**

2007-04-20

\*BT1 even-even nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes

**SAMARIUM 129**

2007-04-20

\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes

**SAMARIUM 130**

2006-12-20

\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 seconds living radioisotopes

**SAMARIUM 131**

INIS: 1987-02-25; ETDE: 1987-05-01

\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 seconds living radioisotopes

**SAMARIUM 132**

2007-04-20

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 seconds living radioisotopes

**SAMARIUM 133**

INIS: 1977-06-13; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 seconds living radioisotopes

**SAMARIUM 134**

INIS: 1977-06-13; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 seconds living radioisotopes

**SAMARIUM 135**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 seconds living radioisotopes

**SAMARIUM 136**

INIS: 1982-08-27; ETDE: 1982-07-08

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 seconds living radioisotopes

**SAMARIUM 137**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 seconds living radioisotopes

**SAMARIUM 138**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei

\*BT1 samarium isotopes

**SAMARIUM 139**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 seconds living radioisotopes

**SAMARIUM 140**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes

**SAMARIUM 141**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes

**SAMARIUM 142**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 hours living radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes

**SAMARIUM 143**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes

**SAMARIUM 144**

\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 stable isotopes

**SAMARIUM 144 REACTIONS**

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 heavy ion reactions

**SAMARIUM 144 TARGET**

ETDE: 1976-07-09

BT1 targets

**SAMARIUM 145**

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes

**SAMARIUM 145 TARGET**

INIS: 1975-10-23; ETDE: 1976-07-09

BT1 targets

**SAMARIUM 146**

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 years living radioisotopes

**SAMARIUM 146 TARGET**

INIS: 1975-12-19; ETDE: 1976-07-12

BT1 targets



**SAMARIUM 147**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 147 TARGET**

ETDE: 1976-07-09  
BT1 targets

**SAMARIUM 148**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 148 TARGET**

ETDE: 1976-07-09  
BT1 targets

**SAMARIUM 149**

- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 149 TARGET**

ETDE: 1976-07-09  
BT1 targets

**SAMARIUM 150**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 150 TARGET**

ETDE: 1976-07-09  
BT1 targets

**SAMARIUM 151**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 151 TARGET**

ETDE: 1976-07-09  
BT1 targets

**SAMARIUM 152**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 152 TARGET**

ETDE: 1976-07-09  
BT1 targets

**SAMARIUM 153**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 154**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 154 REACTIONS**

INIS: 1980-07-24; ETDE: 1980-08-12  
\*BT1 heavy ion reactions

**SAMARIUM 154 TARGET**

ETDE: 1976-07-09  
BT1 targets

**SAMARIUM 155**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 156**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 157**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 158**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 159**

INIS: 1986-10-29; ETDE: 1986-11-20  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 seconds living radioisotopes

**SAMARIUM 160**

INIS: 1986-10-29; ETDE: 1986-11-20  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 seconds living radioisotopes

**SAMARIUM 161**

2007-04-20  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 seconds living radioisotopes

**SAMARIUM 162**

2007-04-20  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes  
\*BT1 seconds living radioisotopes

**SAMARIUM 163**

2007-04-20  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes

**SAMARIUM 164**

2007-04-20  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 samarium isotopes

**SAMARIUM 165**

2007-04-20  
\*BT1 beta-minus decay radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM ADDITIONS**

*Alloys containing not more than 1% Sm are listed here.*

- \*BT1 rare earth additions
- \*BT1 samarium alloys

**SAMARIUM ALLOYS**

*Alloys containing more than 1% Sm.*

- \*BT1 rare earth alloys
- NT1 samarium additions
- NT1 samarium base alloys

**SAMARIUM ARSENIDES**

INIS: 2000-04-12; ETDE: 1977-03-04  
\*BT1 arsenides  
\*BT1 samarium compounds

**SAMARIUM BASE ALLOYS**

- \*BT1 samarium alloys

**SAMARIUM BORIDES**

- \*BT1 borides
- \*BT1 samarium compounds

**SAMARIUM BROMIDES**

- \*BT1 bromides
- \*BT1 samarium halides

**SAMARIUM CARBIDES**

- \*BT1 carbides
- \*BT1 samarium compounds

**SAMARIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 samarium compounds

**SAMARIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 samarium halides

**SAMARIUM COMPLEXES**

- \*BT1 rare earth complexes

**SAMARIUM COMPOUNDS**

1997-06-19  
BT1 rare earth compounds  
NT1 samarium arsenides  
NT1 samarium borides  
NT1 samarium carbides  
NT1 samarium carbonates  
NT1 samarium halides  
NT2 samarium bromides  
NT2 samarium chlorides  
NT2 samarium fluorides  
NT2 samarium iodides  
NT1 samarium hydrides  
NT1 samarium hydroxides  
NT1 samarium nitrates  
NT1 samarium nitrides  
NT1 samarium oxides  
NT1 samarium perchlorates  
NT1 samarium phosphates  
NT1 samarium phosphides  
NT1 samarium selenides  
NT1 samarium silicates  
NT1 samarium silicides  
NT1 samarium sulfates  
NT1 samarium sulfides  
NT1 samarium tellurides  
NT1 samarium tungstates

**samarium effect**

2000-04-12  
USE samarium oscillations

**SAMARIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 samarium halides

**SAMARIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 samarium compounds
- NT1 samarium bromides
- NT1 samarium chlorides
- NT1 samarium fluorides
- NT1 samarium iodides

**SAMARIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 samarium compounds

**SAMARIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 samarium compounds

**SAMARIUM IODIDES**

- \*BT1 iodides
- \*BT1 samarium halides

**SAMARIUM IONS**

- \*BT1 ions

**SAMARIUM ISOTOPES**

- BT1 isotopes
- NT1 samarium 128
- NT1 samarium 129
- NT1 samarium 130
- NT1 samarium 131
- NT1 samarium 132
- NT1 samarium 133
- NT1 samarium 134
- NT1 samarium 135
- NT1 samarium 136
- NT1 samarium 137
- NT1 samarium 138
- NT1 samarium 139
- NT1 samarium 140
- NT1 samarium 141
- NT1 samarium 142
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- NT1 samarium 160
- NT1 samarium 161
- NT1 samarium 162
- NT1 samarium 163
- NT1 samarium 164
- NT1 samarium 165

**SAMARIUM NITRATES**

- \*BT1 nitrates
- \*BT1 samarium compounds

**SAMARIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 samarium compounds

**SAMARIUM OSCILLATIONS**

2000-04-12

*Effects of fission-product samarium on reactor operation.*

- UF samarium effect
- BT1 poisoning
- RT nuclear poisons
- RT oscillations

- RT reactor poison removal
- RT samarium

**SAMARIUM OXIDES**

- \*BT1 oxides
- \*BT1 samarium compounds

**SAMARIUM PERCHLORATES**

1991-09-16

- \*BT1 perchlorates
- \*BT1 samarium compounds

**SAMARIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 samarium compounds

**SAMARIUM PHOSPHIDES**

INIS: 1979-04-27; ETDE: 1979-05-25

- \*BT1 phosphides
- \*BT1 samarium compounds

**SAMARIUM SELENIDES**

INIS: 1980-02-26; ETDE: 1977-08-24

- \*BT1 samarium compounds
- \*BT1 selenides

**SAMARIUM SILICATES**

- \*BT1 samarium compounds
- \*BT1 silicates

**SAMARIUM SILICIDES**

INIS: 1975-10-29; ETDE: 1975-12-16

- \*BT1 samarium compounds
- \*BT1 silicides

**SAMARIUM SULFATES**

- \*BT1 samarium compounds
- \*BT1 sulfates

**SAMARIUM SULFIDES**

- \*BT1 samarium compounds
- \*BT1 sulfides

**SAMARIUM TELLURIDES**

INIS: 1977-10-17; ETDE: 1976-08-24

- \*BT1 samarium compounds
- \*BT1 tellurides

**SAMARIUM TUNGSTATES**

INIS: 1980-02-26; ETDE: 1976-11-01

- \*BT1 samarium compounds
- \*BT1 tungstates

**SAMI PEOPLE**

2008-09-01

*Indigenous people of northern Europe inhabiting parts of northern Sweden, Norway, Finland and the Kola Peninsula of Russia.*  
(Prior to September 2008 LAPPS was used for this concept.)

- UF lapps
- \*BT1 indigenous peoples
- \*BT1 minority groups
- RT arctic regions
- RT eskimos
- RT finland
- RT norway
- RT russian federation
- RT sweden

**SAMOA**

2018-07-24

- BT1 developing countries
- BT1 islands
- BT1 oceania
- RT pacific ocean

**SAMPLE CHANGERS**

- RT laboratory equipment
- RT materials handling
- RT remote handling
- RT sample holders

**SAMPLE HOLDERS**

INIS: 1976-03-25; ETDE: 1975-11-28

- UF specimen holders
- UF target holders
- RT remote handling
- RT sample changers

**SAMPLE PREPARATION**

- UF preparation (sample)
- RT ceramography
- RT dry ashing
- RT electron microscopy
- RT surface treatments
- RT wet ashing

**SAMPLERS**

1999-07-07

- BT1 equipment
- NT1 air samplers
- RT filters
- RT sampling

**SAMPLING**

- RT elutriation
- RT inspection
- RT quality control
- RT samplers
- RT testing
- RT ultrafiltration

**SAN ANTONIO BAY**

2000-04-12

- \*BT1 gulf of mexico
- RT texas

**SAN BERNARDINO MOUNTAINS**

2000-04-12

- BT1 mountains
- RT california

**SAN FRANCISCO BAY**

- \*BT1 pacific ocean
- RT california

**san juan power plant**

INIS: 2000-04-12; ETDE: 1976-12-16

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE fossil-fuel power plants

**SAN MARINO**

2000-05-03

- BT1 developed countries
- \*BT1 western europe
- RT italy

**SAN ONOFRE-1 REACTOR**

*Southern California Edison Co., San Clemente, California, USA. Shut down permanently in 1992.*

- \*BT1 pwr type reactors

**SAN ONOFRE-2 REACTOR**

*Southern California Edison Co., San Clemente, California, USA. Permanent shutdown since 2013.*

- \*BT1 pwr type reactors

**SAN ONOFRE-3 REACTOR**

*Southern California Edison Co., San Clemente, California, USA. Permanent shutdown since 2013.*

- \*BT1 pwr type reactors

**san piero a grado pisa reactor**

- USE rts-1 reactor

**SANCTIONS**

INIS: 2000-04-12; ETDE: 1979-12-10

- BT1 administrative procedures

**SAND**

(From August 1984 till February 1997 DUNES was a valid ETDE descriptor.)

SF dunes

NT1 black sands

NT1 oil sands

RT alluvial deposits

RT aquifers

RT building materials

RT clays

RT concretes

RT deserts

RT reefs

RT reservoir rock

RT sandstones

RT silicon oxides

RT soils

**SAND CONSOLIDATION**

INIS: 2000-04-12; ETDE: 1981-05-18

UF consolidation (sand)

RT natural gas wells

RT oil wells

RT well completion

**sand pressure**

INIS: 1986-07-09; ETDE: 1978-09-11

USE reservoir pressure

**SAND WASH BASIN**

2000-04-12

\*BT1 colorado

RT green river formation

RT oil shale deposits

**SANDIA LABORATORIES**

Name changed to Sandia National Laboratories, and more recent material should be so indexed.

\*BT1 sandia national laboratories

\*BT1 us aec

\*BT1 us erda

RT california

RT new mexico

RT tonopah test range

**SANDIA NATIONAL LABORATORIES**

INIS: 1984-04-04; ETDE: 1994-08-18

Formerly known as Sandia Laboratories, and older material is so indexed.

\*BT1 us doe

NT1 sandia laboratories

RT california

RT new mexico

RT tonopah test range

**sandia pulse reactor-4**

INIS: 2000-04-12; ETDE: 1982-08-11

USE spr-4 reactor

**sandia pulsed reactor-ii**

USE spr-2 reactor

**sandia pulsed reactor-iii**

INIS: 1984-06-21; ETDE: 2002-06-13

USE spr-3 reactor

**sandia pulsed reactor-iv**

INIS: 1984-06-21; ETDE: 2002-06-13

USE spr-4 reactor

**SANDSTONE PROJECT**

INIS: 2000-04-12; ETDE: 1986-11-20

\*BT1 nuclear explosions

**SANDSTONES**

UF siliceous rock

UF tight sands

\*BT1 sedimentary rocks

NT1 graywacke

RT interstitial water

RT montroseite

RT quartzites

RT sand

RT siltstones

**sandvik-ht8x6**

ETDE: 2002-06-13

USE steel-cr2moninb

**sanicro 30**

INIS: 1996-07-23; ETDE: 1978-12-20

(Until July 1996 this was a valid descriptor.)

USE alloy-fe46ni33cr21

**sanicro 70**

INIS: 1983-11-07; ETDE: 2002-06-13

USE alloy-ni76cr15fe8

**SANITARY LANDFILLS**

INIS: 1982-09-21; ETDE: 1975-09-11

Sites for biologically safe disposal of wastes by burial.

UF land fills

UF landfills

\*BT1 waste disposal

RT ground disposal

RT landfill gas

RT us superfund

**SANTA BARBARA CHANNEL**

INIS: 1992-06-16; ETDE: 1977-01-28

\*BT1 pacific ocean

RT california

RT continental shelf

**santa maria de garona nuclear power plant**

1995-02-20

USE garona reactor

**santa maria de garona power reactor**

1993-11-09

USE garona reactor

**SANTA ROSA DEPOSIT**

INIS: 2000-04-12; ETDE: 1983-07-07

\*BT1 oil sand deposits

RT new mexico

RT oil sands

**SANTEE RIVER**

INIS: 2000-04-12; ETDE: 1977-08-09

\*BT1 rivers

RT south carolina

**santowax**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE polyphenyls

USE waxes

**sao paulo iea zero power reactor**

INIS: 1993-11-09; ETDE: 2002-06-13

USE iea-zpr reactor

**sao paulo iear-1 reactor**

INIS: 1985-12-10; ETDE: 2002-06-13

USE iear-1 reactor

**sap (sintered aluminium powders)**

ETDE: 2005-02-01

(Prior to January 2005 SAP was a valid descriptor.)

USE sintered aluminium powders

**SAPHIR REACTOR**

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 thermal reactors

**SAPONIFICATION**

\*BT1 hydrolysis

**SAPONINS**

\*BT1 glycosides

**SAPPHIRE**

1976-05-05

\*BT1 corundum

**SAPROPELIC COAL**

INIS: 2000-04-12; ETDE: 1978-05-03

\*BT1 coal

NT1 boghead coal

NT2 torbanite

NT1 cannel coal

**sar-2 reactor**

Schnell-Thermischen Argonaut Reaktor Karlsruhe.

USE stark reactor

**SARA CYCLOTRON**

INIS: 1984-06-25; ETDE: 1984-02-10

Systeme Accelérateur Rhone-Alpes -- consists of two cyclotrons, the injector cyclotron and the post-accelerator cyclotron.

UF systeme accelérateur rhone-alpes

\*BT1 isochronous cyclotrons

**SARCODINA**

INIS: 1992-04-27; ETDE: 1981-06-17

\*BT1 protozoa

NT1 amoeba

NT1 foraminifera

**SARCOMAS**

UF chondrosarcomas

\*BT1 neoplasms

NT1 fibrosarcomas

NT1 lymphosarcomas

NT1 myosarcomas

NT2 rhabdomyosarcomas

NT1 osteosarcomas

**SARCOPLASMIC RETICULUM**

INIS: 2000-04-12; ETDE: 1982-02-09

\*BT1 endoplasmic reticulum

RT muscles

**SARCOSINE**

UF methyl glycocoll

UF methylaminoacetic acid

\*BT1 amino acids

RT glycine

**SAREF REACTOR**

INIS: 1977-01-26; ETDE: 1976-08-24

INEL, Idaho Falls, Idaho, USA.

UF inel safety research experimental facility reactor

UF safety research experiment facility reactor

\*BT1 fast reactors

\*BT1 zero power reactors

**SARGASSO SEA**

\*BT1 atlantic ocean

**sarson**

USE brassica

**SASKATCHEWAN**

1996-07-16

(Prior to August 1996 BEAVERLODGE was a valid ETDE descriptor.)

UF beaverlodge

\*BT1 canada

RT athabasca lake

RT beaverlodge mine

RT cluff lake mine

RT cold lake deposit

RT key lake mine

RT weyburn field

RT williston basin

**SASOL-II PROCESS**

INIS: 2000-04-12; ETDE: 1980-03-04

Liquefaction process based on Lurgi pressure gasification, Fischer-Tropsch synthesis and Rectisol process using circulating fluid bed reactors to produce gasoline and other refined products.

- \*BT1 coal liquefaction
- RT fischer-tropsch synthesis
- RT lurgi process
- RT rectisol process

**SASOL PROCESS**

2000-04-12

South African Coal, Oil, and Gas Co. Ltd.

Process for indirect conversion of coal to synthetic crude oil by complete gasification to CO and H followed by Fisher-Tropsch synthesis.

- \*BT1 coal liquefaction

**SATELLITE ATMOSPHERES**

INIS: 1981-11-25; ETDE: 1982-01-07

For atmospheres of the natural satellites.

- BT1 atmospheres
- NT1 lunar atmosphere

**satellite power system**

INIS: 1993-02-18; ETDE: 1979-05-02

- USE orbital solar power plants

**satellite solar power stations**

INIS: 2000-04-12; ETDE: 1979-05-25

- USE orbital solar power plants

**SATELLITES**

1996-01-24

- NT1 alouette satellites
- NT1 ariel satellites
- NT1 astron satellites
- NT1 ats satellites
- NT1 biosatellites
- NT1 explorer satellites
- NT1 geos satellites
- NT1 goes satellites
- NT1 imp satellites
- NT1 interkosmos satellites
- NT1 international space station
- NT1 kosmos satellites
- NT1 landsat satellites
- NT1 mir orbital station
- NT1 molniya satellites
- NT1 moon
- NT1 nimbus satellites
- NT1 ogo satellites
- NT1 orbiting solar observatories
- NT1 power relay satellites
- NT1 prognoz satellites
- NT1 proton satellites
- NT1 salyut orbital stations
- NT1 seasat satellites
- NT1 skylab
- RT global positioning system
- RT orbital solar power plants
- RT remote sensing
- RT space flight
- RT space vehicles

**saturable core magnetometers**

- USE fluxgate magnetometers

**SATURATION**

- NT1 gas saturation
- NT1 oil saturation
- NT1 supersaturation
- NT1 water saturation
- RT solubility
- RT solutions

**SATURN PLANET**

- BT1 planets

**SATURNE**

UF saclay synchrotron

- \*BT1 synchrotrons

**SATURNE II**

INIS: 1979-12-20; ETDE: 1980-01-24

- \*BT1 synchrotrons

**SAUDI ARABIA**

- BT1 arab countries
- BT1 asia
- BT1 developing countries
- BT1 middle east
- RT oapec
- RT opec

**SAUSAGE INSTABILITY**

- \*BT1 plasma macroinstabilities

**savannah (nuclear ship)**

- USE ns savannah

**savannah pressurized subcritical****experiment**

1993-11-09

- USE pse reactor

**SAVANNAH REACTOR**

US AEC/US DOC/USA Maritime Commission.

Permanently shut down; decommissioned in 1972.

UF nuclear ship savannah reactor

- \*BT1 pwr type reactors
- \*BT1 ship propulsion reactors
- RT ns savannah

**SAVANNAH RIVER**

- \*BT1 rivers
- RT georgia (u.s. state of)
- RT south carolina

**savannah river lab rtr reactor**

- USE rtr reactor

**SAVANNAH RIVER PLANT**

- SF east facility
- SF energy applied systems test facility
- \*BT1 us aec
- \*BT1 us doe
- \*BT1 us erda
- RT south carolina

**savannah river plant c reactor**

INIS: 1993-11-09; ETDE: 1983-11-23

- USE c reactor

**savannah river plant k reactor**

1993-11-09

- USE k reactor

**savannah river plant l reactor**

INIS: 1993-11-09; ETDE: 1982-05-12

- USE l reactor

**savannah river plant p reactor**

1993-11-09

- USE p reactor

**savannah river plant r reactor**

1993-11-09

- USE r reactor

**savannah river process development reactor**

1993-11-09

- USE pdp reactor

**savannah river test pile-305**

- USE sr-305 reactor

**SAVANNAS**

INIS: 2000-04-12; ETDE: 1986-10-07

Distinct biomes characterized by grassland with interspersed trees.

- \*BT1 terrestrial ecosystems
- RT arid lands
- RT tropical regions

**SAVONIUS ROTORS**

INIS: 2000-04-12; ETDE: 1976-02-19

- BT1 rotors
- RT vertical axis turbines

**sawada method**

- USE goldstone diagrams

**SAWTOOTH OSCILLATIONS**

INIS: 1988-11-16; ETDE: 1988-12-05

- BT1 oscillations
- RT kink instability
- RT magnetic reconnection
- RT plasma
- RT plasma confinement
- RT plasma disruption
- RT rotational transform
- RT stellarators
- RT tokamak devices

**saxon-woods potential**

- USE woods-saxon potential

**SAXTON REACTOR**

Westinghouse Reactor Evaluation Center, Waltz Mill, Pennsylvania, USA. Shut down in 1972; decommissioned in 1996.

- \*BT1 pwr type reactors

**SBLOCA**

2017-07-18

- UF small break loss-of-coolant accident
- \*BT1 loss of coolant

**SBR-1 REACTOR**

Obninsk, Russian Federation.

- UF br-1 reactor (russian federation)
- UF soviet breeder reactor-1
- \*BT1 enriched uranium reactors
- \*BT1 lmfr type reactors
- \*BT1 plutonium reactors
- \*BT1 research reactors

**SBR-2 REACTOR**

Obninsk, Russian Federation.

- UF br-2 reactor (russian federation)
- UF soviet breeder reactor-2
- \*BT1 lmfr type reactors
- \*BT1 mercury cooled reactors
- \*BT1 plutonium reactors
- \*BT1 research reactors

**SBR-5 REACTOR**

Obninsk, Russian Federation.

- UF br-5 reactor (russian federation)
- UF soviet breeder reactor-5
- \*BT1 lmfr type reactors
- \*BT1 plutonium reactors
- \*BT1 research reactors
- \*BT1 sodium cooled reactors
- \*BT1 test reactors

**sca model**

INIS: 1984-04-04; ETDE: 2002-06-13

SemiClassical Approximation model.

- USE semiclassical approximation

**SCALAR FIELDS**

- RT quantum field theory

**SCALAR MESONS**

Mesons with spin and parity 0+.

- \*BT1 mesons
- NT1 a0-980 mesons

NT1 chi0-3415 mesons  
 NT1 f0-1240 mesons  
 NT1 f0-1300 mesons  
 NT1 f0-1590 mesons  
 NT1 f0-1730 mesons  
 NT1 f0-980 mesons  
 NT1 k\*0-1430 mesons  
 RT sigma model

**SCALARS**

RT mathematics  
 RT pseudoscalars  
 RT tensors

**SCALE CONTROL**

INIS: 1999-05-12; ETDE: 1978-05-03

BT1 control  
 RT corrosion protection  
 RT descaling  
 RT scaling

**SCALE DIMENSION**

*A natural number characteristic of the scale-transformation properties of a given quantum field.*

NT1 anomalous dimension  
 NT1 canonical dimension  
 RT conformal invariance  
 RT quantum field theory  
 RT scale invariance

**SCALE HEIGHT**

2000-05-23

*Measure of the relation between density and temperature of points in an atmosphere.*

\*BT1 height  
 RT ionosphere  
 RT virtual height

**SCALE INVARIANCE**

BT1 invariance principles  
 RT conformal invariance  
 RT particle rapidity  
 RT scale dimension

**SCALE MODELS**

INIS: 1980-07-24; ETDE: 1980-02-11

*A three-dimensional representation of an object or structure containing all parts in the same proportion as their true size.*

UF models (scale)  
 BT1 structural models  
 RT functional models  
 RT mockup  
 RT scaling laws  
 RT simulators

**SCALERS**

UF scaling units  
 \*BT1 electronic equipment  
 RT counting circuits  
 RT counting tubes  
 RT pulse techniques  
 RT radiation detectors

**SCALING**

1999-05-18

*Forming a thick layer of metallic oxides on metals at high temperature. Also, depositing of solid inorganic solutes from water on a metal surface, such as a cooling tube or boiler.*

RT corrosion  
 RT corrosion products  
 RT deposition  
 RT descaling  
 RT precipitation  
 RT scale control

**SCALING LAWS**

RT calibration  
 RT mathematical models  
 RT scale models

RT simulation

**scaling units**

USE scalers

**SCANDINAVIA**

1995-04-03

\*BT1 western europe  
 NT1 denmark  
 NT1 finland  
 NT1 norway  
 NT1 sweden

**SCANDIUM**

\*BT1 transition elements

**SCANDIUM 36**

2007-04-20

\*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 scandium isotopes

**SCANDIUM 37**

2007-04-20

\*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 scandium isotopes

**SCANDIUM 38**

2007-04-20

\*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 scandium isotopes

**SCANDIUM 39**

1989-07-19

\*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 scandium isotopes

**SCANDIUM 40**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 scandium isotopes

**SCANDIUM 41**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 scandium isotopes

**SCANDIUM 42**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 scandium isotopes  
 \*BT1 seconds living radioisotopes

**SCANDIUM 43**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 scandium isotopes

**SCANDIUM 44**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 scandium isotopes

**SCANDIUM 45**

\*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 scandium isotopes  
 \*BT1 stable isotopes

**SCANDIUM 45 REACTIONS**

INIS: 1980-11-28; ETDE: 1981-01-09

\*BT1 heavy ion reactions

**SCANDIUM 45 TARGET**

ETDE: 1976-07-09

BT1 targets

**SCANDIUM 46**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 scandium isotopes  
 \*BT1 seconds living radioisotopes

**SCANDIUM 47**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 scandium isotopes

**SCANDIUM 47 TARGET**

INIS: 1992-09-23; ETDE: 1979-07-24

BT1 targets

**SCANDIUM 48**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 scandium isotopes

**SCANDIUM 49**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 scandium isotopes

**SCANDIUM 50**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 scandium isotopes

**SCANDIUM 51**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 scandium isotopes  
 \*BT1 seconds living radioisotopes

**SCANDIUM 52**

INIS: 1984-10-19; ETDE: 1976-05-13

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 scandium isotopes  
 \*BT1 seconds living radioisotopes

**SCANDIUM 53**

INIS: 1991-02-11; ETDE: 1981-01-30

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 scandium isotopes

**SCANDIUM 54**

1991-02-11

\*BT1 intermediate mass nuclei

- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 55**

1991-02-11

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 56**

2007-04-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 57**

2005-03-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 58**

2005-03-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 59**

2007-04-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 60**

2007-04-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 61**

2009-06-02

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM ADDITIONS**

*Alloys containing not more than 1% Sc are listed here.*

- \*BT1 scandium alloys

**SCANDIUM ALLOYS**

1995-02-27

*Alloys containing more than 1% Sc.*

- \*BT1 transition element alloys
- NT1 scandium additions
- NT1 scandium base alloys

**SCANDIUM BASE ALLOYS**

- \*BT1 scandium alloys

**SCANDIUM BORIDES**

- \*BT1 borides
- \*BT1 scandium compounds

**SCANDIUM BROMIDES**

*INIS: 1976-08-17; ETDE: 1976-11-01*

- \*BT1 bromides
- \*BT1 scandium halides

**SCANDIUM CARBIDES**

- \*BT1 carbides
- \*BT1 scandium compounds

**SCANDIUM CARBONATES**

*INIS: 2000-04-12; ETDE: 1989-03-20*

- \*BT1 carbonates
- \*BT1 scandium compounds

**SCANDIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 scandium halides

**SCANDIUM COMPLEXES**

- \*BT1 transition element complexes

**SCANDIUM COMPOUNDS**

1997-06-19

- BT1 transition element compounds
- NT1 scandium borides
- NT1 scandium carbides
- NT1 scandium carbonates
- NT1 scandium halides
- NT2 scandium bromides
- NT2 scandium chlorides
- NT2 scandium fluorides
- NT2 scandium iodides
- NT1 scandium hydrides
- NT1 scandium hydroxides
- NT1 scandium nitrates
- NT1 scandium nitrides
- NT1 scandium oxides
- NT1 scandium perchlorates
- NT1 scandium phosphates
- NT1 scandium phosphides
- NT1 scandium selenides
- NT1 scandium silicates
- NT1 scandium silicides
- NT1 scandium sulfates
- NT1 scandium sulfides
- NT1 scandium tungstates

**SCANDIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 scandium halides

**SCANDIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 scandium compounds
- NT1 scandium bromides
- NT1 scandium chlorides
- NT1 scandium fluorides
- NT1 scandium iodides

**SCANDIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 scandium compounds

**SCANDIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 scandium compounds

**SCANDIUM IODIDES**

- \*BT1 iodides
- \*BT1 scandium halides

**SCANDIUM IONS**

- \*BT1 ions

**SCANDIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 scandium 36
- NT1 scandium 37
- NT1 scandium 38
- NT1 scandium 39
- NT1 scandium 40
- NT1 scandium 41
- NT1 scandium 42
- NT1 scandium 43
- NT1 scandium 44
- NT1 scandium 45
- NT1 scandium 46
- NT1 scandium 47
- NT1 scandium 48

NT1 scandium 49

NT1 scandium 50

NT1 scandium 51

NT1 scandium 52

NT1 scandium 53

NT1 scandium 54

NT1 scandium 55

NT1 scandium 56

NT1 scandium 57

NT1 scandium 58

NT1 scandium 59

NT1 scandium 60

NT1 scandium 61

**SCANDIUM NITRATES**

- \*BT1 nitrates
- \*BT1 scandium compounds

**SCANDIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 scandium compounds

**SCANDIUM OXIDES**

- \*BT1 oxides
- \*BT1 scandium compounds

**SCANDIUM PERCHLORATES**

*INIS: 2000-04-12; ETDE: 1977-11-28*

- \*BT1 perchlorates
- \*BT1 scandium compounds

**SCANDIUM PHOSPHATES**

*INIS: 1976-09-06; ETDE: 1976-11-01*

- \*BT1 phosphates
- \*BT1 scandium compounds

**SCANDIUM PHOSPHIDES**

*INIS: 1981-02-27; ETDE: 1980-10-07*

- \*BT1 phosphides
- \*BT1 scandium compounds

**SCANDIUM SELENIDES**

*INIS: 1996-07-23; ETDE: 1979-02-23*

(From July 1996 to November 2007

SCANDIUM COMPOUNDS + SELENIDES

was used for this concept.)

- \*BT1 scandium compounds
- \*BT1 selenides

**SCANDIUM SILICATES**

- \*BT1 scandium compounds
- \*BT1 silicates

**SCANDIUM SILICIDES**

*INIS: 1978-05-19; ETDE: 1978-03-03*

- \*BT1 scandium compounds
- \*BT1 silicides

**SCANDIUM SULFATES**

- \*BT1 scandium compounds
- \*BT1 sulfates

**SCANDIUM SULFIDES**

- \*BT1 scandium compounds
- \*BT1 sulfides

**SCANDIUM TUNGSTATES**

*INIS: 1982-06-09; ETDE: 1982-07-08*

- \*BT1 scandium compounds
- \*BT1 tungstates

**scanners (beam)**

*INIS: 1984-04-04; ETDE: 2002-06-13*

USE beam scanners

**scanners (image)**

USE image scanners

**scanners (optical)**

*INIS: 2000-04-12; ETDE: 1977-04-12*

(Prior to March 1997 OPTICAL SCANNERS was used for this concept in ETDE.)

USE image scanners  
USE optical equipment

**scanners (radioisotope)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE radioisotope scanners

**scanning (electron)**

USE electron scanning

**scanning (fuel)**

INIS: 1976-09-06; ETDE: 2002-06-13

USE fuel scanning

**scanning (radioisotope)**

USE radioisotope scanning

**scanning acoustic microscopy**

INIS: 1993-04-07; ETDE: 2002-06-13

USE acoustic microscopy

**SCANNING ELECTRON MICROSCOPY**

INIS: 1982-12-07; ETDE: 1979-11-23

(Prior to January 1983 this concept was indexed by coordination of ELECTRON MICROSCOPY and ELECTRON SCANNING.)

UF *ebic*UF *electron beam induced current*UF *sem (microscopy)*

\*BT1 electron microscopy

**SCANNING LIGHT MICROSCOPY**

INIS: 1994-07-14; ETDE: 1983-03-23

*Means of spatial mapping of the optical or electrical properties of deep energy levels in semiconductors.*UF *slm*

\*BT1 optical microscopy

RT photocurrents

RT photoluminescence

RT reflectivity

**SCANNING MEASURING PROJECTORS**UF *franckenstein*UF *projectors (scanning)*UF *smp devices*

\*BT1 digitizers

**SCANNING TUNNELING MICROSCOPY**

INIS: 1999-07-26; ETDE: 1999-09-09

*Technique used to study surface properties of materials from atomic to micron level. A potential difference is applied between a sharp metallic tip and a surface; electrons tunnel across the gap between them.*UF *stm*

BT1 microscopy

RT atomic force microscopy

**SCARABEE REACTOR**

1999-09-24

*Nuclear Protection and Safety Institute, CEA St. Paul Lez Durance, France.**Decommissioned.*

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**SCATTERING**

1996-07-18

(Prior to March 1997 KHURI

REPRESENTATION and HAYWOOD

MODEL were valid ETDE descriptors; prior

to August 1996 ZEMACH-GLAUBER

FORMALISM was a valid ETDE descriptor.)

SF *khuri representation*SF *zemach-glauber formalism*

NT1 backscattering

NT1 coherent scattering

NT2 brillouin effect

NT2 diffraction

NT3 atomic beam diffraction

NT3 diffuse scattering

NT3 electron diffraction

NT3 neutron diffraction

NT3 x-ray diffraction

NT2 rayleigh scattering

NT1 elastic scattering

NT2 bhabha scattering

NT2 compton effect

NT2 coulomb scattering

NT2 moeller scattering

NT2 mott scattering

NT2 potential scattering

NT2 rutherford scattering

NT2 wigner scattering

NT1 incoherent scattering

NT1 inelastic scattering

NT2 deep inelastic scattering

NT2 delbrueck scattering

NT2 resonance scattering

NT2 thomson scattering

NT1 light scattering

NT1 multiple scattering

NT1 proximity scattering

NT1 quasi-elastic scattering

NT1 rescattering

NT1 small angle scattering

RT adiabatic approximation

RT binary encounter method

RT blankenbecler-sugar equations

RT born approximation

RT born-oppenheimer approximation

RT brinkman-kramers approximation

RT buildup

RT center-of-mass system

RT collisions

RT conspiracy relations

RT coupled channel born approximation

RT detailed balance principle

RT diabatic approximation

RT dispersion relations

RT dwba

RT effective range theory

RT four momentum transfer

RT fsc approximation

RT glauber theory

RT gribov-lipatov relation

RT high-energy limit

RT impact parameter

RT impulse approximation

RT incidence angle

RT interactions

RT inverse scattering problem

RT ion scattering analysis

RT jost function

RT laboratory system

RT landau curves

RT lane-robson theory

RT levinson theorem

RT low-energy limit

RT nuclear reactions

RT partial waves

RT perturbation theory

RT phase shift

RT polarization-asymmetry ratio

RT radiation scattering analysis

RT raman effect

RT resonating-group method

RT s matrix

RT scattering amplitudes

RT scattering lengths

RT semiclassical approximation

RT shadow effect

RT shielding

RT spectroscopic factors

RT stray radiation

RT targets

RT threshold energy

RT transport theory

RT wkb approximation

**SCATTERING AMPLITUDES**

BT1 amplitudes

RT abfst equation

RT argand diagrams

RT crossing symmetry

RT dispersion relations

RT duality

RT eikonal approximation

RT linear absorption models

RT partial waves

RT quasipotential equation

RT regge poles

RT s matrix

RT scattering

RT singularity

RT veneziano model

**SCATTERING LENGTHS**

1999-07-20

\*BT1 length

RT scattering

**SCATTERPLOTS***Two-dimensional projections of multidimensional data.*

\*BT1 diagrams

NT1 argand diagrams

NT1 dalitz plot

NT1 prism plot

**SCAVENGING**

RT hot atom chemistry

RT radiation chemistry

RT radicals

**scavenging (atmospheric)**

USE washout

**SCENEDESMUS**

\*BT1 chlorophycota

\*BT1 unicellular algae

**SCHEDULES**

INIS: 1986-07-09; ETDE: 1983-05-21

RT construction

RT contract management

RT forecasting

RT management

RT organizing

RT pert method

RT planning

RT time delay

**SCHIFF BASES**

\*BT1 imines

**SCHIFFER POTENTIAL**

INIS: 1976-10-29; ETDE: 1976-12-16

\*BT1 nucleon-nucleon potential

RT nucleon-nucleon interactions

**SCHISTOSOMA**

\*BT1 trematodes

RT schistosomiasis

**SCHISTOSOMIASIS**

\*BT1 parasitic diseases

RT schistosoma

RT snails

**SCHISTS**

1977-07-05

*Strongly foliated crystalline rocks formed by dynamic metamorphism which can be readily split into thin flakes or slabs due to the well developed parallelism of more than 50% of the minerals present.*

\*BT1 metamorphic rocks

**SCHLIEREN METHOD**

- BT1 photography
- RT opacity
- RT refraction
- RT visible radiation

***schmalfeldt-wintershall process***

2000-04-12

(Prior to July 1993, this was a valid ETDE descriptor.)

- USE coal gasification

**SCHMEHAUSEN-2 REACTOR**

INIS: 2000-04-12; ETDE: 1975-09-11

- \*BT1 enriched uranium reactors
- \*BT1 helium cooled reactors
- \*BT1 htgr type reactors
- \*BT1 power reactors

***schmehausen reactor***

INIS: 1995-05-02; ETDE: 2002-06-13

- USE thtr-300 reactor

***schmehausen thtr reactor***

- USE thtr-300 reactor

***schmid-vicchnicki technique***

INIS: 2000-04-12; ETDE: 1980-02-11

- USE heat exchanger method

**SCHMIDT LINES**

- RT nuclear magnetic moments
- RT spin

**SCHMIDT MODEL**

- RT single-particle model
- RT spin

***schmitt trigger circuits***

- USE multivibrators

***schnelle null-energie anordnung******karlsruhe***

1993-11-09

- USE sneak reactor

***schneller natriumgekuehelter reaktor***

- USE snr reactor

**SCHOEPIE**

- \*BT1 oxide minerals
- \*BT1 uranium minerals
- RT uranium oxides

**SCHOOL BUILDINGS**

INIS: 1992-09-03; ETDE: 1976-04-19

- BT1 buildings
- BT1 educational facilities
- RT laboratory buildings
- RT public buildings

***school facilities***

INIS: 2000-04-12; ETDE: 1979-05-31

- USE educational facilities

***school plant***

INIS: 2000-04-12; ETDE: 1979-05-25

- USE educational facilities

***schools***

INIS: 1983-06-30; ETDE: 1983-07-20

- USE educational facilities

***schooner event***

1994-10-14

A test made during OPERATION BOWLINE.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE cratering explosions
- USE thermonuclear explosions
- USE underground explosions

**SCHOTTKY BARRIER DIODES**

1997-06-19

- \*BT1 semiconductor diodes
- RT schottky barrier solar cells
- RT tunnel diodes

**SCHOTTKY BARRIER SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

- \*BT1 solar cells
- RT mis solar cells
- RT schottky barrier diodes

**SCHOTTKY DEFECTS**

- \*BT1 vacancies

**SCHOTTKY EFFECT**

- RT thermionics

***schroeckingerite***

1996-07-08

(Until June 1996 this was a valid descriptor.)

- USE carbonate minerals
- USE halide minerals
- USE sulfate minerals
- USE uranium minerals

**SCHROEDINGER EQUATION**

- \*BT1 wave equations
- RT dirac equation
- RT jost function
- RT quantum mechanics
- RT wave functions

**SCHROEDINGER PICTURE**

INIS: 1976-03-17; ETDE: 1976-01-23

- UF *schroedinger representation*
- RT heisenberg picture
- RT quantum field theory
- RT quantum mechanics

***schroedinger representation***

INIS: 1976-03-17; ETDE: 2002-06-13

- USE schroedinger picture

**SCHULZ METHOD**

- RT diffraction methods
- RT texture

**SCHUMANN-RUNGE BANDS**

- RT spectra

***schwarzschild field***

- USE schwarzschild metric

**SCHWARZSCHILD METRIC**

- UF *schwarzschild field*
- UF *schwarzschild solution*
- UF *schwarzschild space*
- BT1 metrics
- RT cosmology
- RT general relativity theory
- RT gravitation

**SCHWARZSCHILD RADIUS**

- RT black holes
- RT gravitational collapse

***schwarzschild solution***

- USE schwarzschild metric

***schwarzschild space***

- USE schwarzschild metric

**SCHWINGER FUNCTIONAL EQUATIONS**

- \*BT1 differential equations
- RT quantum field theory

**SCHWINGER SOURCE THEORY**

- RT causality
- RT elementary particles
- RT quantum field theory

**SCHWINGER TERMS**

- RT current commutators
- RT delta function

**SCHWINGER-TOMONAGA FORMALISM**

- \*BT1 quantum electrodynamics

**SCHWINGER VARIATIONAL METHOD**

- \*BT1 variational methods
- RT lippmann-schwinger equation
- RT quantum mechanics

**SCIATIC NERVE**

- \*BT1 nerves
- RT legs

**SCIENTIFIC PERSONNEL**

INIS: 1993-09-06; ETDE: 1995-05-09

- SF *professional personnel*
- BT1 personnel

***scintigraphy***

- USE scintiscanning

***scintillation cameras***

INIS: 1976-03-17; ETDE: 2002-06-13

- USE gamma cameras

***scintillation chambers***

- USE scintillation counters

**SCINTILLATION COUNTERS**

- UF *scintillation chambers*
- UF *scintillation detectors*
- \*BT1 radiation detectors
- NT1 gas scintillation detectors
- NT1 liquid scintillation detectors
- NT1 scintillator-photodiode detectors
- NT1 solid scintillation detectors
- NT2 bgo detectors
- NT2 nai detectors
- NT2 plastic scintillation detectors
- RT dosimeters
- RT light pipes
- RT luminescent chambers
- RT phosphors
- RT photomultipliers
- RT proton recoil detectors
- RT scintillation counting
- RT scintillation quenching

**SCINTILLATION COUNTING**

- BT1 counting techniques
- RT liquid scintillators
- RT scintillation counters
- RT scintillation quenching

***scintillation detectors***

- USE scintillation counters

**SCINTILLATION QUENCHING**

- UF *quenching (scintillation)*
- RT liquid scintillation detectors
- RT scintillation counters
- RT scintillation counting

**SCINTILLATIONS**

- RT radioluminescence

**SCINTILLATOR-PHOTODIODE DETECTORS**

- \*BT1 scintillation counters

***scintillators***

INIS: 1975-12-17; ETDE: 2002-06-13

- USE phosphors

**SCINTISCANNING**

- UF *scintigraphy*
- BT1 diagnostic techniques
- \*BT1 radioisotope scanning



**NT1** radioimmunosciintigraphy  
*RT* diagnosis  
*RT* dual-isotope subtraction technique  
*RT* images  
*RT* labelled compounds  
*RT* nuclear medicine  
*RT* osteodensitometry  
*RT* radiopharmaceuticals

**scioto river**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE ohio

USE rivers

**SCISSION-POINT MODEL***INIS: 1986-10-29; ETDE: 1985-05-07**A static model of nuclear fission based on the assumption of statistical equilibrium among collective degrees of freedom at the scission point.*

\*BT1 nuclear models

*RT* fission**sclera**

USE eyes

**SCLEROPROTEINS**

\*BT1 proteins

**NT1** collagen**NT1** fibrin**NT1** glutin**NT1** keratin**SCORPIONS**

\*BT1 arachnids

**SCOT PROCESS**

2000-04-12

*Process for increasing sulfur recovery efficiency of Claus units from the usual level of about 95% to more than 99.8%.**UF shell claus off-gas treating process*

\*BT1 desulfurization

**scotch event***INIS: 1994-10-14; ETDE: 1977-01-10**A test made during OPERATION LATCHKEY.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**scotland***INIS: 1984-11-30; ETDE: 1984-12-27*

USE united kingdom

**scottish research reactor center utr-100 reactor**

1993-11-09

USE srcc-utr-100 reactor

**SCRAM***UF emergency shutdown*

\*BT1 reactor shutdown

*RT* atws*RT* fluid poison control*RT* reactor protection systems*RT* reactor safety fuses*RT* scram rods*RT* soluble poisons**SCRAM RODS***UF emergency rods**UF safety rods*

\*BT1 control elements

*RT* neutron absorbers*RT* scram**SCRAP***INIS: 1986-04-04; ETDE: 1978-03-09**Material, usually from production processes, which can be reprocessed or recycled to become useful.*

\*BT1 solid wastes

**NT1** scrap metals*RT* industrial wastes*RT* municipal wastes*RT* recycling*RT* waste processing**SCRAP METALS***INIS: 1994-09-08; ETDE: 1977-08-09**Metallic waste from the production of metals or from the fabrication or obsolescence of metal equipment.*

\*BT1 metals

\*BT1 scrap

*RT* industrial wastes*RT* metal industry**SCRAPERS***INIS: 2000-04-12; ETDE: 1982-05-24***BT1** equipment*RT* dewaxing*RT* pipelines*RT* pipes*RT* surface cleaning*RT* well servicing**SCREEN PRINTING***INIS: 2000-04-12; ETDE: 1979-02-27*

\*BT1 surface coating

*RT* coatings*RT* masking**SCREENING***INIS: 2000-04-12; ETDE: 1978-05-03**Process of separating various-sized particles by using screens with different-sized openings by rotating, shaking, vibrating, or otherwise agitating the screen.**RT* sorting**screening (carcinogen)***INIS: 2000-04-12; ETDE: 1997-03-31*

USE carcinogen screening

**screening (magnetic fields)***INIS: 2000-04-12; ETDE: 1997-03-31*

USE magnetic shielding

**screening (mutagen)***INIS: 2000-04-12; ETDE: 1997-03-31*

USE mutagen screening

**screening (nuclear)***INIS: 2000-04-12; ETDE: 1997-03-31*

USE nuclear screening

**screening (teratogen)***INIS: 2000-04-12; ETDE: 1997-03-31*

USE teratogen screening

**SCREENS**

1996-05-14

*Permeable barriers, frequently of perforated plates or metal wire mesh, used to prevent particles or objects larger than a specified size from passing beyond a given point in a flow stream, while permitting everything of smaller size to pass. Not to be used for viewing screens on which any type of image is displayed as on a cathode ray tube.***NT1** trommels*RT* concentrators*RT* curtains*RT* filters*RT* fouling*RT* gratings*RT* impingement*RT* intake structures*RT* particle size classifiers*RT* separation processes*RT* sorting**SCREW DISLOCATIONS***UF frank dislocations**UF frank loops*

\*BT1 dislocations

**screw instability**

USE helical instability

**SCREW PINCH***Cylindrical plasma equilibrium in which the axial and azimuthal components of the vacuum field are the same size.***BT1** pinch effect*RT* linear screw pinch devices*RT* toroidal screw pinch devices**screwing**

USE fastening

**screws**

USE fasteners

**SCREWWORM FLY***INIS: 1975-09-09; ETDE: 1975-10-28*

\*BT1 flies

*RT* domestic animals*RT* parasites**scriba nuclear power plant***ETDE: 2002-06-13*

USE nine mile point-1 reactor

**SCRUBBERS**

1986-04-04

\*BT1 pollution control equipment

**NT1** dry scrubbers**NT1** wet scrubbers**NT2** venturi scrubbers*RT* air cleaning*RT* air cleaning systems*RT* air filters*RT* air pollution*RT* air pollution control*RT* consol fgd process*RT* cyclone separators*RT* dust collectors*RT* scrubbing*RT* sprays*RT* thiosorbic process*RT* waste processing**SCRUBBING***INIS: 1983-09-06; ETDE: 1975-07-29***NT1** lime-limestone wet scrubbing processes**NT2** bischoff process*RT* chemisorption*RT* cleaning*RT* decontamination*RT* descaling*RT* filters*RT* flue gas*RT* magnesium slurry scrubbing process*RT* off-gas systems*RT* pollution control equipment*RT* purification*RT* scrubbers*RT* separation processes*RT* sprays*RT* washing**SCYLLA DEVICES**

\*BT1 linear theta pinch devices

**SCYLLAC DEVICES**

\*BT1 toroidal theta pinch devices

**SDS COMPUTERS**

BT1 computers

**sea, safety of life at, convention**

INIS: 1984-06-21; ETDE: 2002-06-16

USE solas convention

**SEA BED**

RT earth crust  
 RT geomorphology  
 RT seas  
 RT sediment-water interfaces  
 RT sediments  
 RT soil mechanics  
 RT submarine canyons

**sea disposal**

USE marine disposal

**SEA-FLOOR SPREADING**

INIS: 2000-04-12; ETDE: 1976-08-04

*A hypothesis that the oceanic crust is increasing by convective upwelling of magma along the mid-oceanic ridges or world rift system, and a moving away of the new material at a rate of from one to ten centimeters per year. This movement provides the source of power in the hypothesis of plate tectonics.*

UF ocean spreading center  
 RT earth crust  
 RT plate tectonics  
 RT seas

**SEA LEVEL**

BT1 levels

**sea of marmara**

INIS: 2000-04-12; ETDE: 1976-05-17

(Prior to July 1996 MARMARA SEA was a valid ETDE descriptor.)

USE seas  
 USE turkey

**SEA URCHINS**

\*BT1 echinoderms

**seaboard process**

2000-04-12

*Wet scrubbing process for the removal of hydrogen sulfide from refinery and petroleum gas streams.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**SEABORGIUM**

2004-03-19

(Prior to March 2004 ELEMENT 106 was used for this element.)

UF eka-tungsten  
 UF element 106  
 UF unmillhexium  
 \*BT1 transactinide elements

**SEABORGIUM 258**

2007-04-23

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 seaborgium isotopes  
 \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 259**

2004-03-19

(Prior to March 2004 ELEMENT 106 259 was used for this concept.)

UF element 106 259  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes  
 \*BT1 seaborgium isotopes  
 \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 260**

2004-03-19

(Prior to March 2004 ELEMENT 106 260 was used for this concept.)

UF element 106 260  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 seaborgium isotopes  
 \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 261**

2004-03-19

(Prior to March 2004 ELEMENT 106 261 was used for this concept.)

UF element 106 261  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 seaborgium isotopes  
 \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 262**

2004-03-19

(Prior to March 2004 ELEMENT 106 262 was used for this concept.)

UF element 106 262  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 seaborgium isotopes  
 \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 263**

2004-03-19

(Prior to March 2004 ELEMENT 106 263 was used for this concept.)

UF element 106 263  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 seaborgium isotopes  
 \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 264**

2007-04-23

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 seaborgium isotopes  
 \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 265**

2004-03-19

(Prior to March 2004 ELEMENT 106 265 was used for this concept.)

UF element 106 265  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 seaborgium isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 266**

2004-03-19

(Prior to March 2004 ELEMENT 106 266 was used for this concept.)

UF element 106 266  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei

\*BT1 seaborgium isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 268**

2007-04-23

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 seaborgium isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 270**

2007-04-23

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 seaborgium isotopes  
 \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 271**

2007-04-23

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 seaborgium isotopes  
 \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 272**

2007-04-23

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 seaborgium isotopes  
 \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 273**

2007-04-23

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 seaborgium isotopes  
 \*BT1 spontaneous fission radioisotopes

**SEABORGIUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 106 COMPOUNDS was used for this concept.)

UF element 106 compounds  
 \*BT1 transactinide compounds

**SEABORGIUM IONS**

2018-01-24

\*BT1 ions

**SEABORGIUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 106 ISOTOPES was used for this concept.)

UF element 106 isotopes  
 BT1 isotopes  
 NT1 seaborgium 258  
 NT1 seaborgium 259  
 NT1 seaborgium 260  
 NT1 seaborgium 261  
 NT1 seaborgium 262  
 NT1 seaborgium 263  
 NT1 seaborgium 264  
 NT1 seaborgium 265  
 NT1 seaborgium 266  
 NT1 seaborgium 268  
 NT1 seaborgium 270  
 NT1 seaborgium 271  
 NT1 seaborgium 272  
 NT1 seaborgium 273

**SEABROOK-1 REACTOR**

*North Atlantic Energy Service Corp.,  
 Seabrook, New Hampshire, USA.*

\*BT1 pwr type reactors

**SEABROOK-2 REACTOR**

*Public Service Co. of New Hampshire, Seabrook, New Hampshire, USA. Cancelled in 1988 before construction began.*

\*BT1 pwr type reactors

**seacoast**

USE shores

**SEACOKE PROCESS**

2000-04-12

*A fluidized-bed pyrolysis of coal, with partial counterflow of gas and char to maximize liquid and gas yield from volatile matter of coal, to produce gas, liquid, and solid product streams, developed by Atlantic Refining Co., now Atlantic Richfield Co.*

\*BT1 coal gasification

**SEAFOOD**

BT1 fish products  
BT1 food  
RT crabs  
RT fishes  
RT lobsters  
RT oysters  
RT plaice  
RT prawns  
RT shrimp  
RT snails  
RT trout

**SEALED SOURCES**

BT1 radiation sources  
RT containment  
RT leak testing  
RT leaks

**SEALING MATERIALS**

BT1 materials  
RT grouting  
RT seals  
RT waterproofing

**SEALS**

(From November 1977 to February 1997 CAULKING was a valid ETDE descriptor.)

SF caulking  
NT1 gaskets  
NT1 inflatable seals  
NT1 security seals  
RT cementing  
RT closures  
RT grouting  
RT liners  
RT pipe fittings  
RT sealing materials  
RT waterproofing

**seals (mammals)**

INIS: 1993-05-04; ETDE: 1982-02-08  
USE pinnipeds

**seam welding**

INIS: 1976-03-17; ETDE: 2002-06-13  
USE welding

**seam welds**

INIS: 1976-03-17; ETDE: 2002-06-13  
USE welded joints

**SEAS**

1997-06-19  
*For use only in its geographic connotation; for the legal connotation see HIGH SEAS and TERRITORIAL WATERS.*

UF bass strait  
UF marmara sea  
UF marmora sea  
UF oceans  
UF sea of marmara  
BT1 surface waters

NT1 antarctic ocean  
NT2 weddell sea  
NT1 aral sea  
NT1 arctic ocean  
NT2 beaufort sea  
NT3 prudhoe bay  
NT2 chukchi sea  
NT1 atlantic ocean  
NT2 baltimore canyon  
NT2 bay of biscay  
NT2 bay of fundy  
NT2 biscayne bay  
NT2 caribbean sea  
NT3 gulf of mexico  
NT4 galveston bay  
NT4 san antonio bay  
NT2 chesapeake bay  
NT2 delaware bay  
NT2 gulf of maine  
NT2 irish sea  
NT2 long island sound  
NT2 mid-atlantic bight  
NT3 new york bight  
NT2 north sea  
NT3 wadden sea  
NT2 onslow bay  
NT2 sargasso sea  
NT2 south atlantic bight  
NT2 weddell sea  
NT1 baltic sea  
NT1 black sea  
NT1 caspian sea  
NT1 indian ocean  
NT2 arabian sea  
NT3 persian gulf  
NT4 strait of hormuz  
NT2 timor sea  
NT1 mediterranean sea  
NT2 adriatic sea  
NT2 aegean sea  
NT1 pacific ocean  
NT2 bering sea  
NT2 china sea  
NT2 gulf of alaska  
NT2 gulf of california  
NT2 puget sound  
NT2 san francisco bay  
NT2 santa barbara channel  
NT2 sequim bay  
NT2 tasman sea  
NT1 red sea  
NT2 gulf of suz  
RT bathymetry  
RT coastal waters  
RT estuaries  
RT gyres  
RT harbors  
RT high seas  
RT islands  
RT marinas  
RT oceanic circulation  
RT oceanography  
RT offshore nuclear power plants  
RT offshore sites  
RT reefs  
RT sea bed  
RT sea-floor spreading  
RT seawater  
RT shores  
RT territorial waters  
RT tide  
RT tsunamis  
RT water currents  
RT water waves  
RT wave energy converters

**SEASAT SATELLITES**

INIS: 2000-04-12; ETDE: 1980-03-29  
BT1 satellites

RT aerial prospecting  
RT remote sensing

**SEASONAL THERMAL ENERGY STORAGE**

INIS: 2000-04-12; ETDE: 1982-05-24

UF stes  
\*BT1 heat storage  
RT latent heat storage  
RT sensible heat storage

**SEASONAL VARIATIONS**

UF time-of-season pricing  
BT1 variations  
RT climate models  
RT seasons  
RT time-of-use pricing

**seasonings**

2000-04-12  
USE food

**SEASONS**

RT atmospheric precipitations  
RT climates  
RT meteorology  
RT seasonal variations  
RT vernalization  
RT weather

**SEAWATER**

\*BT1 water  
RT brines  
RT desalination  
RT desalination plants  
RT estuaries  
RT fiords  
RT saline aquifers  
RT salinity  
RT salinity gradient power plants  
RT salinity gradients  
RT seas

**SEAWEEDS**

UF kelp  
BT1 aquatic organisms  
BT1 plants  
NT1 fucus  
NT1 laminaria

**sebaceous glands**

USE glands  
USE skin

**SEBACIC ACID**

\*BT1 dicarboxylic acids

**secale**

USE rye

**SECOND-CLASS CURRENTS**

*Classification of currents according to their properties under G-parity transformations.*

\*BT1 algebraic currents  
RT weak interactions

**second-harmonic generation**

INIS: 2000-04-12; ETDE: 1986-01-14  
USE harmonic generation

**SECOND QUANTIZATION**

BT1 quantization  
RT annihilation operators  
RT creation operators  
RT quantum field theory  
RT quantum mechanics

**SECOND SOUND**

RT sound waves  
RT superfluidity

**secondary batteries***INIS: 2000-04-12; ETDE: 1976-05-17*

USE electric batteries

**SECONDARY BEAMS**

BT1 beams

NT1 carbon 11 beams

NT1 helium 8 beams

RT ion probes

**SECONDARY COOLANT CIRCUITS**

UF intermediate coolant loops

UF secondary coolant loops

\*BT1 reactor cooling systems

**secondary coolant loops***2018-03-19*

USE secondary coolant circuits

**SECONDARY COSMIC RADIATION**

\*BT1 cosmic radiation

NT1 cosmic electrons

NT1 cosmic kaons

NT1 cosmic muons

NT1 cosmic neutrons

NT1 cosmic pions

NT1 cosmic positrons

NT1 cosmic showers

NT2 extensive air showers

**SECONDARY EMISSION**

BT1 emission

NT1 photoemission

RT ion probes

RT photon emission

**SECONDARY EMISSION****DETECTORS**

\*BT1 radiation detectors

**SECONDARY REACTIONS**

BT1 nuclear reactions

**secondary recovery***INIS: 1991-10-22; ETDE: 1976-02-23*

USE enhanced recovery

**secondary standard dosimetry****laboratories***INIS: 1993-11-09; ETDE: 1980-08-12*

USE ssdl

**SECONDS LIVING RADIOISOTOPES***1997-02-07*

\*BT1 radioisotopes

NT1 actinium 214

NT1 actinium 222

NT1 actinium 234

NT1 actinium 235

NT1 aluminium 24

NT1 aluminium 25

NT1 aluminium 26

NT1 aluminium 30

NT1 americium 231

NT1 americium 232

NT1 antimony 105

NT1 antimony 106

NT1 antimony 107

NT1 antimony 108

NT1 antimony 109

NT1 antimony 110

NT1 antimony 112

NT1 antimony 126

NT1 antimony 134

NT1 antimony 135

NT1 argon 35

NT1 argon 45

NT1 argon 46

NT1 arsenic 67

NT1 arsenic 80

NT1 arsenic 81

NT1 arsenic 82

NT1 arsenic 83

NT1 arsenic 84

NT1 arsenic 85

NT1 astatine 198

NT1 astatine 199

NT1 astatine 200

NT1 astatine 202

NT1 astatine 218

NT1 astatine 219

NT1 astatine 222

NT1 astatine 223

NT1 barium 117

NT1 barium 118

NT1 barium 119

NT1 barium 120

NT1 barium 121

NT1 barium 127

NT1 barium 143

NT1 barium 144

NT1 barium 145

NT1 barium 146

NT1 berkelium 235

NT1 beryllium 11

NT1 bismuth 189

NT1 bismuth 190

NT1 bismuth 191

NT1 bismuth 192

NT1 bismuth 193

NT1 bismuth 198

NT1 bismuth 217

NT1 bismuth 218

NT1 bohrium 266

NT1 bohrium 267

NT1 bohrium 271

NT1 bohrium 272

NT1 bromine 71

NT1 bromine 76

NT1 bromine 79

NT1 bromine 86

NT1 bromine 87

NT1 bromine 88

NT1 bromine 89

NT1 bromine 90

NT1 cadmium 120

NT1 cadmium 121

NT1 cadmium 122

NT1 cadmium 123

NT1 cadmium 124

NT1 cadmium 97

NT1 cadmium 98

NT1 cadmium 99

NT1 calcium 50

NT1 calcium 51

NT1 calcium 52

NT1 californium 237

NT1 californium 239

NT1 carbon 10

NT1 carbon 15

NT1 cerium 121

NT1 cerium 122

NT1 cerium 123

NT1 cerium 124

NT1 cerium 125

NT1 cerium 126

NT1 cerium 127

NT1 cerium 135

NT1 cerium 139

NT1 cerium 147

NT1 cerium 148

NT1 cerium 149

NT1 cerium 150

NT1 cerium 151

NT1 cerium 152

NT1 cesium 115

NT1 cesium 116

NT1 cesium 117

NT1 cesium 118

NT1 cesium 119

NT1 cesium 122

NT1 cesium 123

NT1 cesium 124

NT1 cesium 136

NT1 cesium 141

NT1 cesium 142

NT1 cesium 143

NT1 cesium 144

NT1 chlorine 33

NT1 chlorine 34

NT1 chlorine 38

NT1 chlorine 41

NT1 chromium 57

NT1 chromium 58

NT1 chromium 59

NT1 cobalt 63

NT1 cobalt 65

NT1 copernicium 285

NT1 copper 58

NT1 copper 68

NT1 copper 70

NT1 copper 71

NT1 copper 72

NT1 copper 73

NT1 copper 74

NT1 copper 75

NT1 dubnium 255

NT1 dubnium 256

NT1 dubnium 257

NT1 dubnium 258

NT1 dubnium 259

NT1 dubnium 260

NT1 dubnium 261

NT1 dubnium 262

NT1 dubnium 263

NT1 dysprosium 140

NT1 dysprosium 141

NT1 dysprosium 142

NT1 dysprosium 143

NT1 dysprosium 144

NT1 dysprosium 145

NT1 dysprosium 146

NT1 dysprosium 147

NT1 dysprosium 169

NT1 dysprosium 170

NT1 dysprosium 171

NT1 einsteinium 241

NT1 einsteinium 242

NT1 einsteinium 243

NT1 einsteinium 244

NT1 erbium 146

NT1 erbium 147

NT1 erbium 148

NT1 erbium 149

NT1 erbium 150

NT1 erbium 151

NT1 erbium 152

NT1 erbium 153

NT1 erbium 167

NT1 erbium 176

NT1 erbium 177

NT1 europium 135

NT1 europium 136

NT1 europium 138

NT1 europium 139

NT1 europium 140

NT1 europium 141

NT1 europium 142

NT1 europium 144

NT1 europium 160

NT1 europium 161

NT1 europium 162

NT1 europium 163

NT1 europium 164

NT1 fermium 245

NT1 fermium 246

NT1 fermium 247

NT1 fermium 248

NT1 fermium 250

NT1 fermium 259  
NT1 flerovium 289  
NT1 fluorine 20  
NT1 fluorine 21  
NT1 fluorine 22  
NT1 fluorine 23  
NT1 francium 204  
NT1 francium 205  
NT1 francium 206  
NT1 francium 207  
NT1 francium 208  
NT1 francium 209  
NT1 francium 213  
NT1 francium 220  
NT1 francium 226  
NT1 francium 228  
NT1 francium 229  
NT1 francium 230  
NT1 francium 231  
NT1 francium 232  
NT1 gadolinium 135  
NT1 gadolinium 140  
NT1 gadolinium 141  
NT1 gadolinium 143  
NT1 gadolinium 164  
NT1 gadolinium 165  
NT1 gadolinium 166  
NT1 gadolinium 167  
NT1 gadolinium 169  
NT1 gallium 63  
NT1 gallium 74  
NT1 gallium 76  
NT1 gallium 77  
NT1 gallium 78  
NT1 gallium 79  
NT1 gallium 80  
NT1 gallium 81  
NT1 germanium 65  
NT1 germanium 75  
NT1 germanium 77  
NT1 germanium 79  
NT1 germanium 80  
NT1 germanium 81  
NT1 germanium 82  
NT1 germanium 83  
NT1 germanium 84  
NT1 gold 176  
NT1 gold 177  
NT1 gold 178  
NT1 gold 179  
NT1 gold 180  
NT1 gold 181  
NT1 gold 182  
NT1 gold 183  
NT1 gold 184  
NT1 gold 193  
NT1 gold 195  
NT1 gold 196  
NT1 gold 197  
NT1 gold 202  
NT1 gold 203  
NT1 gold 204  
NT1 gold 205  
NT1 hafnium 154  
NT1 hafnium 158  
NT1 hafnium 159  
NT1 hafnium 160  
NT1 hafnium 161  
NT1 hafnium 162  
NT1 hafnium 163  
NT1 hafnium 177  
NT1 hafnium 178  
NT1 hafnium 179  
NT1 hafnium 187  
NT1 hafnium 188  
NT1 hassium 269  
NT1 hassium 270  
NT1 hassium 271  
NT1 hassium 272

NT1 holmium 145  
NT1 holmium 146  
NT1 holmium 148  
NT1 holmium 149  
NT1 holmium 150  
NT1 holmium 151  
NT1 holmium 152  
NT1 holmium 159  
NT1 holmium 161  
NT1 holmium 163  
NT1 holmium 170  
NT1 holmium 171  
NT1 holmium 172  
NT1 holmium 173  
NT1 holmium 174  
NT1 holmium 175  
NT1 indium 101  
NT1 indium 102  
NT1 indium 104  
NT1 indium 105  
NT1 indium 107  
NT1 indium 116  
NT1 indium 118  
NT1 indium 120  
NT1 indium 121  
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NT1 indium 124  
NT1 indium 125  
NT1 indium 126  
NT1 indium 127  
NT1 indium 129  
NT1 indium 98  
NT1 indium 99  
NT1 iodine 111  
NT1 iodine 112  
NT1 iodine 113  
NT1 iodine 114  
NT1 iodine 116  
NT1 iodine 133  
NT1 iodine 136  
NT1 iodine 137  
NT1 iodine 138  
NT1 iodine 139  
NT1 iridium 170  
NT1 iridium 171  
NT1 iridium 172  
NT1 iridium 173  
NT1 iridium 174  
NT1 iridium 175  
NT1 iridium 176  
NT1 iridium 177  
NT1 iridium 178  
NT1 iridium 191  
NT1 iridium 196  
NT1 iridium 198  
NT1 iridium 199  
NT1 iridium 202  
NT1 iron 52  
NT1 iron 63  
NT1 iron 64  
NT1 krypton 72  
NT1 krypton 73  
NT1 krypton 79  
NT1 krypton 81  
NT1 krypton 90  
NT1 krypton 91  
NT1 krypton 92  
NT1 krypton 93  
NT1 lanthanum 118  
NT1 lanthanum 119  
NT1 lanthanum 120  
NT1 lanthanum 121  
NT1 lanthanum 122  
NT1 lanthanum 123  
NT1 lanthanum 124  
NT1 lanthanum 144  
NT1 lanthanum 145  
NT1 lanthanum 146

NT1 lanthanum 147  
NT1 lanthanum 148  
NT1 lanthanum 149  
NT1 lawrencium 252  
NT1 lawrencium 253  
NT1 lawrencium 254  
NT1 lawrencium 255  
NT1 lawrencium 256  
NT1 lawrencium 258  
NT1 lawrencium 259  
NT1 lead 185  
NT1 lead 186  
NT1 lead 187  
NT1 lead 188  
NT1 lead 189  
NT1 lead 203  
NT1 lutetium 154  
NT1 lutetium 157  
NT1 lutetium 158  
NT1 lutetium 159  
NT1 lutetium 160  
NT1 lutetium 183  
NT1 lutetium 184  
NT1 magnesium 22  
NT1 magnesium 23  
NT1 magnesium 29  
NT1 manganese 58  
NT1 manganese 59  
NT1 manganese 60  
NT1 meitnerium 271  
NT1 meitnerium 272  
NT1 meitnerium 273  
NT1 meitnerium 274  
NT1 mendelevium 247  
NT1 mendelevium 248  
NT1 mendelevium 249  
NT1 mendelevium 250  
NT1 mercury 179  
NT1 mercury 180  
NT1 mercury 181  
NT1 mercury 182  
NT1 mercury 183  
NT1 mercury 184  
NT1 mercury 185  
NT1 molybdenum 105  
NT1 molybdenum 106  
NT1 molybdenum 107  
NT1 molybdenum 108  
NT1 molybdenum 110  
NT1 molybdenum 86  
NT1 molybdenum 87  
NT1 neodymium 127  
NT1 neodymium 129  
NT1 neodymium 130  
NT1 neodymium 131  
NT1 neodymium 137  
NT1 neodymium 153  
NT1 neodymium 154  
NT1 neodymium 155  
NT1 neodymium 156  
NT1 neon 18  
NT1 neon 19  
NT1 neon 23  
NT1 nickel 67  
NT1 nickel 69  
NT1 nickel 70  
NT1 nickel 71  
NT1 nickel 72  
NT1 nickel 74  
NT1 niobium 100  
NT1 niobium 101  
NT1 niobium 102  
NT1 niobium 103  
NT1 niobium 104  
NT1 niobium 105  
NT1 niobium 106  
NT1 niobium 83  
NT1 niobium 84  
NT1 niobium 85

NT1 niobium 90	NT1 promethium 135	NT1 samarium 132
NT1 niobium 97	NT1 promethium 140	NT1 samarium 133
NT1 niobium 98	NT1 promethium 142	NT1 samarium 134
NT1 niobium 99	NT1 promethium 155	NT1 samarium 135
NT1 nitrogen 16	NT1 promethium 156	NT1 samarium 136
NT1 nitrogen 17	NT1 promethium 157	NT1 samarium 137
NT1 nobelium 252	NT1 promethium 158	NT1 samarium 139
NT1 nobelium 254	NT1 promethium 159	NT1 samarium 159
NT1 nobelium 256	NT1 protactinium 225	NT1 samarium 160
NT1 nobelium 257	NT1 radium 207	NT1 samarium 161
NT1 osmium 168	NT1 radium 208	NT1 samarium 162
NT1 osmium 169	NT1 radium 209	NT1 scandium 42
NT1 osmium 170	NT1 radium 210	NT1 scandium 46
NT1 osmium 171	NT1 radium 211	NT1 scandium 51
NT1 osmium 172	NT1 radium 212	NT1 scandium 52
NT1 osmium 173	NT1 radium 214	NT1 seaborgium 265
NT1 osmium 174	NT1 radium 221	NT1 seaborgium 266
NT1 osmium 192	NT1 radium 222	NT1 seaborgium 268
NT1 osmium 199	NT1 radium 233	NT1 selenium 69
NT1 osmium 200	NT1 radium 234	NT1 selenium 77
NT1 oxygen 19	NT1 radon 200	NT1 selenium 85
NT1 oxygen 20	NT1 radon 201	NT1 selenium 86
NT1 oxygen 21	NT1 radon 202	NT1 selenium 87
NT1 oxygen 22	NT1 radon 203	NT1 selenium 88
NT1 palladium 107	NT1 radon 219	NT1 silicon 26
NT1 palladium 115	NT1 radon 220	NT1 silicon 27
NT1 palladium 116	NT1 radon 227	NT1 silicon 33
NT1 palladium 117	NT1 radon 228	NT1 silicon 34
NT1 palladium 118	NT1 rhenium 165	NT1 silver 101
NT1 palladium 93	NT1 rhenium 166	NT1 silver 103
NT1 palladium 94	NT1 rhenium 167	NT1 silver 107
NT1 palladium 95	NT1 rhenium 168	NT1 silver 109
NT1 phosphorus 29	NT1 rhenium 169	NT1 silver 110
NT1 phosphorus 34	NT1 rhenium 170	NT1 silver 114
NT1 phosphorus 35	NT1 rhenium 171	NT1 silver 115
NT1 phosphorus 36	NT1 rhenium 172	NT1 silver 116
NT1 phosphorus 37	NT1 rhenium 192	NT1 silver 117
NT1 platinum 175	NT1 rhenium 194	NT1 silver 118
NT1 platinum 176	NT1 rhenium 195	NT1 silver 119
NT1 platinum 177	NT1 rhenium 196	NT1 silver 120
NT1 platinum 178	NT1 rhodium 104	NT1 silver 122
NT1 platinum 179	NT1 rhodium 105	NT1 silver 96
NT1 platinum 180	NT1 rhodium 106	NT1 silver 97
NT1 platinum 181	NT1 rhodium 108	NT1 silver 98
NT1 platinum 183	NT1 rhodium 110	NT1 silver 99
NT1 platinum 199	NT1 rhodium 111	NT1 sodium 21
NT1 plutonium 229	NT1 rhodium 112	NT1 sodium 25
NT1 polonium 195	NT1 rhodium 113	NT1 sodium 26
NT1 polonium 196	NT1 rhodium 114	NT1 strontium 76
NT1 polonium 197	NT1 rhodium 117	NT1 strontium 77
NT1 polonium 203	NT1 rhodium 90	NT1 strontium 83
NT1 polonium 207	NT1 rhodium 91	NT1 strontium 95
NT1 polonium 211	NT1 rhodium 92	NT1 strontium 96
NT1 polonium 212	NT1 rhodium 93	NT1 sulfur 30
NT1 polonium 217	NT1 rhodium 94	NT1 sulfur 31
NT1 potassium 37	NT1 roentgenium 280	NT1 sulfur 39
NT1 potassium 38	NT1 rubidium 75	NT1 sulfur 40
NT1 potassium 47	NT1 rubidium 76	NT1 tantalum 160
NT1 potassium 48	NT1 rubidium 80	NT1 tantalum 161
NT1 potassium 49	NT1 rubidium 91	NT1 tantalum 162
NT1 praseodymium 124	NT1 rubidium 92	NT1 tantalum 163
NT1 praseodymium 125	NT1 rubidium 93	NT1 tantalum 164
NT1 praseodymium 126	NT1 rubidium 94	NT1 tantalum 165
NT1 praseodymium 127	NT1 ruthenium 109	NT1 tantalum 166
NT1 praseodymium 128	NT1 ruthenium 110	NT1 tantalum 188
NT1 praseodymium 129	NT1 ruthenium 111	NT1 technetium 100
NT1 praseodymium 130	NT1 ruthenium 112	NT1 technetium 102
NT1 praseodymium 150	NT1 ruthenium 113	NT1 technetium 103
NT1 praseodymium 151	NT1 ruthenium 89	NT1 technetium 106
NT1 praseodymium 152	NT1 ruthenium 90	NT1 technetium 107
NT1 praseodymium 153	NT1 ruthenium 91	NT1 technetium 108
NT1 praseodymium 154	NT1 ruthenium 93	NT1 technetium 109
NT1 promethium 128	NT1 rutherfordium 253	NT1 technetium 87
NT1 promethium 129	NT1 rutherfordium 255	NT1 technetium 88
NT1 promethium 130	NT1 rutherfordium 257	NT1 technetium 90
NT1 promethium 131	NT1 rutherfordium 259	NT1 tellurium 108
NT1 promethium 132	NT1 rutherfordium 262	NT1 tellurium 109
NT1 promethium 133	NT1 samarium 130	NT1 tellurium 110
NT1 promethium 134	NT1 samarium 131	NT1 tellurium 111

NT1 tellurium 135  
 NT1 tellurium 136  
 NT1 tellurium 137  
 NT1 tellurium 138  
 NT1 terbium 139  
 NT1 terbium 140  
 NT1 terbium 141  
 NT1 terbium 143  
 NT1 terbium 144  
 NT1 terbium 145  
 NT1 terbium 146  
 NT1 terbium 151  
 NT1 terbium 158  
 NT1 terbium 166  
 NT1 terbium 167  
 NT1 terbium 168  
 NT1 terbium 169  
 NT1 terbium 170  
 NT1 thallium 180  
 NT1 thallium 181  
 NT1 thallium 182  
 NT1 thallium 184  
 NT1 thallium 185  
 NT1 thallium 186  
 NT1 thallium 187  
 NT1 thallium 195  
 NT1 thallium 197  
 NT1 thallium 207  
 NT1 thorium 215  
 NT1 thorium 223  
 NT1 thorium 224  
 NT1 thulium 151  
 NT1 thulium 152  
 NT1 thulium 153  
 NT1 thulium 154  
 NT1 thulium 155  
 NT1 thulium 156  
 NT1 thulium 162  
 NT1 thulium 178  
 NT1 thulium 179  
 NT1 tin 102  
 NT1 tin 103  
 NT1 tin 105  
 NT1 tin 128  
 NT1 tin 131  
 NT1 tin 132  
 NT1 tin 133  
 NT1 tin 134  
 NT1 titanium 53  
 NT1 tungsten 160  
 NT1 tungsten 162  
 NT1 tungsten 163  
 NT1 tungsten 164  
 NT1 tungsten 165  
 NT1 tungsten 166  
 NT1 tungsten 167  
 NT1 tungsten 168  
 NT1 tungsten 169  
 NT1 tungsten 183  
 NT1 vanadium 43  
 NT1 vanadium 54  
 NT1 vanadium 55  
 NT1 xenon 112  
 NT1 xenon 113  
 NT1 xenon 114  
 NT1 xenon 115  
 NT1 xenon 116  
 NT1 xenon 125  
 NT1 xenon 139  
 NT1 xenon 140  
 NT1 xenon 141  
 NT1 xenon 142  
 NT1 xenon 144  
 NT1 ytterbium 153  
 NT1 ytterbium 155  
 NT1 ytterbium 156  
 NT1 ytterbium 157  
 NT1 ytterbium 169  
 NT1 ytterbium 176

NT1 ytterbium 177  
 NT1 yttrium 78  
 NT1 yttrium 79  
 NT1 yttrium 80  
 NT1 yttrium 82  
 NT1 yttrium 84  
 NT1 yttrium 89  
 NT1 yttrium 96  
 NT1 yttrium 97  
 NT1 yttrium 98  
 NT1 yttrium 99  
 NT1 zinc 73  
 NT1 zinc 75  
 NT1 zinc 76  
 NT1 zinc 77  
 NT1 zinc 78  
 NT1 zinc 79  
 NT1 zirconium 100  
 NT1 zirconium 101  
 NT1 zirconium 102  
 NT1 zirconium 103  
 NT1 zirconium 104  
 NT1 zirconium 83  
 NT1 zirconium 85  
 NT1 zirconium 87  
 NT1 zirconium 98  
 NT1 zirconium 99  
 RT half-life  
 RT lifetime

**SECURITY PROTECTION**

INIS: 1977-03-14; ETDE: 1977-06-03  
*Measures, regulations or orders established to protect the secrecy of certain places, installations or offices.*

SF invention secrecy act  
 RT atomic energy laws  
 RT classified information  
 RT cryptography  
 RT identification systems  
 RT physical protection  
 RT physical protection devices  
 RT sabotage  
 RT security  
 RT security violations

**SECRETIN**

\*BT1 peptide hormones  
 RT secretion  
 RT small intestine

**SECRETION**

NT1 pheromone  
 RT body fluids  
 RT excretion  
 RT gastric acid  
 RT gastrin  
 RT glands  
 RT secretin

**sector cyclotron**

INIS: 2000-04-12; ETDE: 1987-10-22  
 USE isochronous cyclotrons

**SECTORAL ANALYSIS**

INIS: 1992-10-23; ETDE: 1984-05-08  
*Economic or energy analysis by sectors of economy, energy consumption, energy production, or other sectors.*  
 RT business  
 RT commercial sector  
 RT households  
 RT residential sector  
 RT service sector  
 RT transportation sector

**SECULAR EQUATION**

BT1 equations  
 RT eigenvalues  
 RT matrices

**SECURITY**

(Prior to May 1996 SURVEILLANCE was a valid ETDE descriptor. From July 1984 till April 1997 CRYPTOGRAPHY was a valid descriptor. From May 1987 till March 1997 TERRORISM was a valid descriptor.)

UF security control  
 SF document destruction  
 SF surveillance  
 SF terrorism  
 NT1 national security  
 RT biometric authentication  
 RT classified information  
 RT cryptography  
 RT entry control systems  
 RT human intrusion  
 RT identification systems  
 RT interception  
 RT intrusion detection systems  
 RT motion detection systems  
 RT nuclear forensics  
 RT physical protection  
 RT physical protection devices  
 RT sabotage  
 RT safety  
 RT secrecy protection  
 RT security personnel  
 RT security violations  
 RT theft

**security (financial)**

INIS: 1976-12-08; ETDE: 2002-06-13  
 USE financial security

**security control**

INIS: 1990-12-21; ETDE: 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
 USE security

**SECURITY PERSONNEL**

INIS: 1983-06-30; ETDE: 1981-01-27  
 UF guards  
 BT1 personnel  
 RT nuclear materials diversion  
 RT physical protection  
 RT sabotage  
 RT safeguards  
 RT security

**SECURITY SEALS**

INIS: 1976-09-06; ETDE: 1976-11-01  
 BT1 physical protection devices  
 BT1 seals  
 RT safeguards

**SECURITY VIOLATIONS**

INIS: 2000-04-12; ETDE: 1983-03-24  
 BT1 violations  
 RT national security  
 RT personnel  
 RT secrecy protection  
 RT security

**SEDAN EVENT**

\*BT1 cratering explosions  
 BT1 plowshare project

**sedatives**

USE hypnotics and sedatives

**sediment basins**

INIS: 2000-04-12; ETDE: 1985-10-10  
 USE settling ponds

**SEDIMENT-WATER INTERFACES**

INIS: 1985-04-22; ETDE: 1980-07-09  
*Boundary between sediment surface and overlying water.*  
 BT1 interfaces  
 RT limnology

RT sea bed  
RT sediments

**SEDIMENTARY BASINS**

INIS: 1992-06-15; ETDE: 1980-03-04

*Geologically depressed sediment-filled areas.*

UF basins (sedimentary)  
BT1 geologic structures  
NT1 appalachian basin  
NT2 chattanooga formation  
NT1 williston basin  
RT limnology  
RT powder river basin  
RT sedimentary rocks

**sedimentary intrusive rocks**

INIS: 1985-10-23; ETDE: 2002-06-13

USE plutonic rocks

**SEDIMENTARY ROCKS**

BT1 rocks  
NT1 carbonate rocks  
NT2 limestone  
NT3 travertine  
NT1 chert  
NT1 conglomerates  
NT2 calcretes  
NT1 evaporites  
NT1 phosphate rocks  
NT2 phosphorites  
NT1 sandstones  
NT2 graywacke  
NT1 shales  
NT2 argillite  
NT2 oil shales  
NT3 black shales  
NT1 siltstones  
NT1 sinters  
RT fossils  
RT sedimentary basins

**SEDIMENTATION**

UF deposition (gravitational)  
RT aerosols  
RT centrifugation  
RT decantation  
RT dusts  
RT fallout  
RT fallout deposits  
RT particles  
RT precipitation  
RT sediments  
RT settling ponds

**SEDIMENTOMETERS**

2000-04-12

BT1 measuring instruments  
RT densimeters  
RT radiometric gages

**SEDIMENTS**

RT alluvial deposits  
RT catagenesis  
RT detritus  
RT diagenesis  
RT dredge spoil  
RT environmental materials  
RT geologic deposits  
RT pore pressure  
RT river deltas  
RT sea bed  
RT sediment-water interfaces  
RT sedimentation  
RT silt  
RT sludges

**SEEBECK EFFECT**

RT thermoelectricity

**SEED RECOVERY**

2000-04-12

SF recovery

RT mhd generators  
RT plasma seeding  
RT seed-slag interactions  
RT spent seed

**SEED-SLAG INTERACTIONS**

INIS: 1985-07-23; ETDE: 1979-04-11

RT chemical reactions  
RT coal-fired mhd generators  
RT mhd generators  
RT plasma seeding  
RT seed recovery  
RT slags

**seeding (plasma)**

INIS: 1976-10-29; ETDE: 2002-06-13

USE plasma seeding

**seedis**

INIS: 2000-04-12; ETDE: 1981-11-10

*Computer index of social, economic, environmental, and demographic data. (Prior to January 1995, this was a valid descriptor.)*

SEE information systems

**SEEDLINGS**

RT coleoptile  
RT germination  
RT plants

**SEEDS**

UF fruit (seeds)  
UF grains (cereal)  
NT1 coffee beans  
NT1 lentils  
NT1 mungbeans  
NT1 peanuts  
NT1 peas  
NT1 soybeans  
RT beans  
RT buffalo gourd  
RT endosperm  
RT food  
RT germination  
RT plants  
RT vernalization

**SEEPS**

INIS: 2000-04-12; ETDE: 1977-04-12

*Locations where liquid petroleum or natural gas emerges at the surface as a result of the slow migration from its buried source through minute pores or fissure networks.*

RT geochemical surveys  
RT natural gas deposits  
RT petroleum deposits

**SEFOR REACTOR**

US AEC/General Electric Co., near Fayetteville, Arkansas, USA.

UF southwest experimental fast oxide reactor

\*BT1 experimental reactors  
\*BT1 fast reactors  
\*BT1 plutonium reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors

**segas process**

INIS: 2000-04-12; ETDE: 1978-04-05

*A noncatalytic thermal steam reformer process for production of synthesis gas from residual fuel oils or heavy crudes. (Prior to January 1995, this was a valid ETDE descriptor.)*

USE steam reformer processes

**SEGREGATION**

RT guinier-preston zones  
RT impurities  
RT solidification

**SEIBERSDORF IAEA LABORATORY**

INIS: 1988-04-15; ETDE: 1988-05-23

UF iaea seibersdorf laboratory

\*BT1 iaea

**SEIBERSDORF RESEARCH CENTRE**

INIS: 1988-06-22; ETDE: 1988-07-15

UF austrian research center seibersdorf

UF oefzs

\*BT1 austrian organizations

RT astra reactor

**SEIDB**

INIS: 2000-04-12; ETDE: 1981-07-18

UF solar energy information data bank

BT1 information systems

**SEISMIC ARRAYS**

INIS: 1992-09-01; ETDE: 1978-12-11

BT1 measuring instruments  
RT seismic detection  
RT seismic detectors  
RT seismic sources  
RT seismic surveys  
RT seismographs

**SEISMIC DETECTION**

UF detection (seismic)

BT1 detection

NT1 in-country detection

RT nuclear explosion detection

RT rayleigh waves

RT seismic arrays

RT seismic detectors

RT seismic noise

RT seismic p waves

RT seismic s waves

RT seismic waves

RT seismographs

RT underground explosions

RT vela project

**SEISMIC DETECTORS**

INIS: 1992-09-01; ETDE: 1976-09-14

UF geophones

BT1 measuring instruments

RT ground motion

RT seismic arrays

RT seismic detection

RT seismic surveys

RT seismic waves

RT seismographs

**SEISMIC EFFECTS**

2000-04-07

RT blast effects

RT earthquakes

RT ground motion

RT landslides

RT nuclear explosions

RT seismic events

RT seismic isolation

RT seismic noise

RT seismic waves

RT shock absorbers

RT shock waves

RT soil-structure interactions

RT underground explosions

**SEISMIC EVENTS**

INIS: 1992-06-19; ETDE: 1976-12-16

NT1 earthquakes

NT2 microearthquakes

RT explosions

RT ground motion

RT nuclear explosions

RT rock bursts

RT seismic effects

RT seismic waves

RT tsunamis



**SEISMIC ISOLATION**

INIS: 1990-09-24; ETDE: 1990-10-09

- RT earthquakes
- RT safety engineering
- RT seismic effects
- RT shock absorbers
- RT soil-structure interactions

**SEISMIC NOISE**

1976-10-29

*A more or less continuous motion in the earth unrelated to an earthquake with a period of 1 to 9 seconds.*

- UF microseism
- BT1 noise
- RT seismic detection
- RT seismic effects
- RT seismic waves

**SEISMIC P WAVES**

UF body waves p (seismic)

UF p waves (seismic)

- BT1 seismic waves
- RT earthquakes
- RT seismic detection
- RT underground explosions

**SEISMIC S WAVES**

INIS: 1980-05-14; ETDE: 1976-11-17

UF body waves s (seismic)

UF s waves (seismic)

UF shear waves (seismic)

- BT1 seismic waves
- RT earthquakes
- RT seismic detection
- RT underground explosions

**SEISMIC SOURCES**

INIS: 1999-03-08; ETDE: 1976-09-14

*Devices for generating seismic pulses.*

- RT seismic arrays
- RT seismic surveys
- RT seismic waves
- RT sonic logging
- RT sound waves

**SEISMIC SURFACE WAVES**

INIS: 1999-09-17; ETDE: 1978-07-05

*Seismic waves that travel along the surface of the earth or parallel to the earth's surface.*

(From July 1978 till March 1997 LOVE WAVES was a valid ETDE descriptor.)

- UF l waves
- UF love waves
- UF surface waves (seismic)
- BT1 seismic waves
- RT earthquakes
- RT rayleigh waves

**SEISMIC SURVEYS**

1975-11-07

*Methods of geophysical prospecting using the generation, reflection, refraction, detection, and analysis of elastic waves in the earth.*

- \*BT1 geophysical surveys
- RT acoustic measurements
- RT geologic structures
- RT geothermal exploration
- RT magnetic surveys
- RT seismic arrays
- RT seismic detectors
- RT seismic sources

**SEISMIC WAVES**

*Disturbances or earth tremors produced by mechanical disturbances on the surface or underground.*

- NT1 seismic p waves
- NT1 seismic s waves
- NT1 seismic surface waves
- RT earthquakes

- RT ground motion
- RT rayleigh waves
- RT seismic detection
- RT seismic detectors
- RT seismic effects
- RT seismic events
- RT seismic noise
- RT seismic sources
- RT seismographs
- RT seismology
- RT tsunamis
- RT underground explosions

**SEISMICITY**

INIS: 1994-07-01; ETDE: 1978-07-05

*Measure of frequency of earthquakes.*

(Until June 1994 this concept was indexed to EARTHQUAKES.)

- RT earthquakes
- RT risk assessment
- RT subduction zones

**SEISMOGRAPHS**

- BT1 measuring instruments
- RT acoustic measurements
- RT earthquakes
- RT ground motion
- RT seismic arrays
- RT seismic detection
- RT seismic detectors
- RT seismic waves
- RT underground explosions

**SEISMOLOGY**

*The study of earthquakes, by extension, the study of the structure of the interior of the earth via both natural and artificially generated seismic signals.*

(From September 1979 till February 1997

DISPLACEMENT RATES was a valid ETDE descriptor.)

- SF displacement rates
- RT earthquakes
- RT geologic faults
- RT geologic structures
- RT ground motion
- RT seismic waves
- RT shock waves
- RT underground explosions
- RT vela project

**SELECTION RULES**

- NT1 superselection rules
- RT decay
- RT energy-level transitions
- RT forbidden transitions
- RT interactions
- RT quantum mechanics
- RT spurions

**SELECTIVE CATALYTIC REDUCTION**

INIS: 1992-07-21; ETDE: 1990-02-28

- \*BT1 denitrification
- \*BT1 reduction
- RT air pollution control
- RT catalysis
- RT flue gas
- RT nitrogen oxides

**SELENATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 oxygen compounds
- BT1 selenium compounds
- RT selenium oxides

**selengut approximation**

2000-04-12

(Prior to August 1996 SELENGUT-GOERTZEL EQUATION was a valid ETDE descriptor.)

USE neutron slowing-down theory

**selengut-goertzel equation**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

USE neutron slowing-down theory

**SELENIDES**

1997-06-19

- BT1 chalcogenides
- BT1 selenium compounds
- NT1 aluminium selenides
- NT1 americium selenides
- NT1 antimony selenides
- NT1 arsenic selenides
- NT1 berkelium selenides
- NT1 beryllium selenides
- NT1 bismuth selenides
- NT1 cadmium selenides
- NT1 californium selenides
- NT1 cerium selenides
- NT1 cesium selenides
- NT1 chromium selenides
- NT1 cobalt selenides
- NT1 copper selenides
- NT1 curium selenides
- NT1 dysprosium selenides
- NT1 erbium selenides
- NT1 europium selenides
- NT1 gadolinium selenides
- NT1 gallium selenides
- NT1 germanium selenides
- NT1 hafnium selenides
- NT1 holmium selenides
- NT1 indium selenides
- NT1 iron selenides
- NT1 lanthanum selenides
- NT1 lead selenides
- NT1 lithium selenides
- NT1 lutetium selenides
- NT1 manganese selenides
- NT1 mercury selenides
- NT1 molybdenum selenides
- NT1 neptunium selenides
- NT1 nickel selenides
- NT1 niobium selenides
- NT1 palladium selenides
- NT1 plutonium selenides
- NT1 potassium selenides
- NT1 praseodymium selenides
- NT1 rhenium selenides
- NT1 rhodium selenides
- NT1 rubidium selenides
- NT1 ruthenium selenides
- NT1 samarium selenides
- NT1 scandium selenides
- NT1 silver selenides
- NT1 sodium selenides
- NT1 tantalum selenides
- NT1 technetium selenides
- NT1 terbium selenides
- NT1 thallium selenides
- NT1 thorium selenides
- NT1 thulium selenides
- NT1 tin selenides
- NT1 titanium selenides
- NT1 tungsten selenides
- NT1 uranium selenides
- NT1 vanadium selenides
- NT1 ytterbium selenides
- NT1 yttrium selenides
- NT1 zinc selenides
- NT1 zirconium selenides

- RT intermetallic compounds  
 RT oxyselenides  
 RT selenium alloys

**SELENITES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 oxygen compounds  
 BT1 selenium compounds

**SELENIUM**

- \*BT1 semimetals

**SELENIUM 64**

2007-03-16

- \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 65**

1993-06-25

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 66**

INIS: 2003-01-03; ETDE: 2002-12-26

- \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 proton decay radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 67**

INIS: 1996-06-17; ETDE: 1996-05-31

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 68**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 69**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 70**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 71**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 72**

- \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 selenium isotopes

**SELENIUM 72 TARGET**

INIS: 1976-02-11; ETDE: 1976-07-12

- BT1 targets

**SELENIUM 73**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 74**

- \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 selenium isotopes  
 \*BT1 stable isotopes

**SELENIUM 74 TARGET**

ETDE: 1976-07-09

- BT1 targets

**SELENIUM 75**

- \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 selenium isotopes

**SELENIUM 75 TARGET**

INIS: 1984-06-21; ETDE: 1982-10-20

- BT1 targets

**SELENIUM 76**

- \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 selenium isotopes  
 \*BT1 stable isotopes

**SELENIUM 76 REACTIONS**

INIS: 1988-06-22; ETDE: 1988-07-15

- \*BT1 heavy ion reactions

**SELENIUM 76 TARGET**

ETDE: 1976-07-09

- BT1 targets

**SELENIUM 77**

- \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 selenium isotopes  
 \*BT1 stable isotopes

**SELENIUM 77 TARGET**

ETDE: 1976-07-09

- BT1 targets

**SELENIUM 78**

- \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 selenium isotopes  
 \*BT1 stable isotopes

**SELENIUM 78 TARGET**

ETDE: 1976-07-09

- BT1 targets

**SELENIUM 79**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes  
 \*BT1 years living radioisotopes

**SELENIUM 80**

- \*BT1 even-even nuclei

- \*BT1 intermediate mass nuclei  
 \*BT1 selenium isotopes  
 \*BT1 stable isotopes

**SELENIUM 80 REACTIONS**

INIS: 1986-01-21; ETDE: 1986-02-21

- \*BT1 heavy ion reactions

**SELENIUM 80 TARGET**

ETDE: 1976-07-09

- BT1 targets

**SELENIUM 81**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 82**

- \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 selenium isotopes  
 \*BT1 stable isotopes

**SELENIUM 82 REACTIONS**

INIS: 1980-12-01; ETDE: 1981-01-09

- \*BT1 heavy ion reactions

**SELENIUM 82 TARGET**

ETDE: 1976-07-09

- BT1 targets

**SELENIUM 83**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 84**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 85**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 86**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 87**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 88**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 89**

1976-07-06

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

\*BT1 selenium isotopes

## SELENIUM 91

1976-03-17

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 selenium isotopes

## SELENIUM ADDITIONS

\*BT1 selenium alloys

## SELENIUM ALLOYS

*Alloys containing more than 1% Se.*

BT1 alloys  
 NT1 selenium additions  
 RT selenides

## SELENIUM BROMIDES

\*BT1 bromides  
 \*BT1 selenium halides

## SELENIUM CARBIDES

*INIS: 1996-07-08; ETDE: 2002-06-13*

(From June 1996 to November 2007

SELENIUM COMPOUNDS + CARBIDES

was used for this concept.)

\*BT1 carbides  
 BT1 selenium compounds

## SELENIUM CHLORIDES

\*BT1 chlorides  
 \*BT1 selenium halides

## SELENIUM COMPLEXES

BT1 complexes

## SELENIUM COMPOUNDS

1996-07-08

NT1 oxyselenides  
 NT1 selenates  
 NT1 selenides  
 NT2 aluminium selenides  
 NT2 americium selenides  
 NT2 antimony selenides  
 NT2 arsenic selenides  
 NT2 berkelium selenides  
 NT2 beryllium selenides  
 NT2 bismuth selenides  
 NT2 cadmium selenides  
 NT2 californium selenides  
 NT2 cerium selenides  
 NT2 cesium selenides  
 NT2 chromium selenides  
 NT2 cobalt selenides  
 NT2 copper selenides  
 NT2 curium selenides  
 NT2 dysprosium selenides  
 NT2 erbium selenides  
 NT2 europium selenides  
 NT2 gadolinium selenides  
 NT2 gallium selenides  
 NT2 germanium selenides  
 NT2 hafnium selenides  
 NT2 holmium selenides  
 NT2 indium selenides  
 NT2 iron selenides  
 NT2 lanthanum selenides  
 NT2 lead selenides  
 NT2 lithium selenides  
 NT2 lutetium selenides  
 NT2 manganese selenides  
 NT2 mercury selenides  
 NT2 molybdenum selenides  
 NT2 neptunium selenides  
 NT2 nickel selenides  
 NT2 niobium selenides  
 NT2 palladium selenides  
 NT2 plutonium selenides  
 NT2 potassium selenides  
 NT2 praseodymium selenides

NT2 rhenium selenides  
 NT2 rhodium selenides  
 NT2 rubidium selenides  
 NT2 ruthenium selenides  
 NT2 samarium selenides  
 NT2 scandium selenides  
 NT2 silver selenides  
 NT2 sodium selenides  
 NT2 tantalum selenides  
 NT2 technetium selenides  
 NT2 terbium selenides  
 NT2 thallium selenides  
 NT2 thorium selenides  
 NT2 thulium selenides  
 NT2 tin selenides  
 NT2 titanium selenides  
 NT2 tungsten selenides  
 NT2 uranium selenides  
 NT2 vanadium selenides  
 NT2 ytterbium selenides  
 NT2 yttrium selenides  
 NT2 zinc selenides  
 NT2 zirconium selenides  
 NT1 selenites  
 NT1 selenium carbides  
 NT1 selenium halides  
 NT2 selenium bromides  
 NT2 selenium chlorides  
 NT2 selenium fluorides  
 NT2 selenium iodides  
 NT1 selenium hydrides  
 NT1 selenium oxides  
 NT1 selenium sulfides  
 NT1 selenium tellurides  
 NT1 tmtsf

## SELENIUM FLUORIDES

\*BT1 fluorides  
 \*BT1 selenium halides

## SELENIUM HALIDES

2012-07-25

\*BT1 halides  
 BT1 selenium compounds  
 NT1 selenium bromides  
 NT1 selenium chlorides  
 NT1 selenium fluorides  
 NT1 selenium iodides

## SELENIUM HYDRIDES

*UF hydrogen selenides*  
 \*BT1 hydrides  
 BT1 selenium compounds

## SELENIUM IODIDES

\*BT1 iodides  
 \*BT1 selenium halides

## SELENIUM IONS

\*BT1 ions

## SELENIUM ISOTOPES

1999-07-16

BT1 isotopes  
 NT1 selenium 64  
 NT1 selenium 65  
 NT1 selenium 66  
 NT1 selenium 67  
 NT1 selenium 68  
 NT1 selenium 69  
 NT1 selenium 70  
 NT1 selenium 71  
 NT1 selenium 72  
 NT1 selenium 73  
 NT1 selenium 74  
 NT1 selenium 75  
 NT1 selenium 76  
 NT1 selenium 77  
 NT1 selenium 78  
 NT1 selenium 79  
 NT1 selenium 80

NT1 selenium 81  
 NT1 selenium 82  
 NT1 selenium 83  
 NT1 selenium 84  
 NT1 selenium 85  
 NT1 selenium 86  
 NT1 selenium 87  
 NT1 selenium 88  
 NT1 selenium 89  
 NT1 selenium 91

## *selenium ores*

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE ores

## SELENIUM OXIDES

\*BT1 oxides  
 BT1 selenium compounds  
 RT guilleminite  
 RT oxide minerals  
 RT selenates

## SELENIUM SOLAR CELLS

*INIS: 2000-04-12; ETDE: 1975-11-11*

\*BT1 solar cells

## SELENIUM SULFIDES

BT1 selenium compounds  
 \*BT1 sulfides

## SELENIUM TELLURIDES

*INIS: 1991-09-16; ETDE: 1982-05-12*

BT1 selenium compounds  
 \*BT1 tellurides

## SELEXOL PROCESS

2000-04-12

*Process for gas purification and removal of hydrogen sulfide, carbon dioxide, cos, mercaptans, etc., from gas streams by physical absorption using dimethyl ether of polyethylene glycol, trade named selexol.*

\*BT1 desulfurization

## SELF-ABSORPTION

\*BT1 absorption

## SELF-CONSISTENT FIELD

RT atomic models  
 RT hartree-fock-bogolyubov theory  
 RT hartree-fock method  
 RT lcao method  
 RT mean-field theory

## SELF-DIFFUSION

BT1 diffusion

## SELF-ENERGY

BT1 energy  
 RT quantum electrodynamics

## SELF-IRRADIATION

BT1 irradiation  
 RT autoradiolysis  
 RT radiation effects

## *self-learning systems*

*INIS: 2004-05-28; ETDE: 2004-06-01*

USE adaptive systems

## *self-potential logging*

*INIS: 1984-04-04; ETDE: 1976-06-07*

(Prior to January 2003 INIS used WELL LOGGING for this concept.)

USE sp logging

## SELF-POTENTIAL SURVEYS

*INIS: 2000-04-12; ETDE: 1976-08-24*

*Electrical surveys based on the detection of electric potentials developed in the earth.*

\*BT1 electrical surveys

**SELF-POWERED DETECTORS**

- \*BT1 radiation detectors
- NT1 self-powered gamma detectors
- NT1 self-powered neutron detectors
- RT compton diode detectors

**SELF-POWERED GAMMA DETECTORS**

- \*BT1 self-powered detectors

**SELF-POWERED NEUTRON DETECTORS**

- UF collectrons
- \*BT1 neutron detectors
- \*BT1 self-powered detectors

**SELF-PUMPING SYSTEMS**

- INIS: 2000-04-12; ETDE: 1979-11-07
- BT1 circulating systems
- RT pumping
- RT pumps
- RT thermosyphon effect

**self-serve stations**

- INIS: 2000-04-12; ETDE: 1979-05-09
- USE gasoline service stations

**SELF-SHIELDING**

- RT absorption
- RT shielding

**SELF-WELDING**

- INIS: 1999-07-13; ETDE: 1979-08-07
- The bonding of surfaces of similar materials after exposure to high-temperature and load conditions.*
- RT welding

**SELLFIELD REPROCESSING PLANT**

- INIS: 1984-06-21; ETDE: 1984-07-10
- UF windscale reprocessing plant
- \*BT1 fuel reprocessing plants

**SELLBACK**

- INIS: 1993-01-21; ETDE: 1980-03-04
- Sellback of excess energy to a public utility by a consumer.*
- UF buyback
- RT economics
- RT interconnected power systems
- RT legal aspects
- RT public utilities
- RT surplus power

**sellers**

- INIS: 1992-04-03; ETDE: 1979-10-03
- USE marketers

**SELNI REACTOR**

- UF trino vercellese reactor
- \*BT1 pwr type reactors

**selox process**

- INIS: 2000-04-12; ETDE: 1985-10-25
- The selective oxidation (selox) process involves the partial oxidation of methane in a catalytic fluid bed reactor to generate synthesis gas. The synthesis gas produced has a stoichiometry which is attractive for methanol synthesis.*
- (Prior to July 1993, this was a valid ETDE descriptor.)
- USE coal gasification

**sem (microscopy)**

- INIS: 2000-04-12; ETDE: 1979-10-03
- USE scanning electron microscopy

**SEMI-EXCLUSIVE INTERACTIONS**

- INIS: 1987-11-02; ETDE: 1987-12-23
- \*BT1 exclusive interactions

- RT semi-inclusive interactions

**semi-homogeneous critical assembly**

- 1993-11-09
- USE shca reactor

**SEMI-INCLUSIVE INTERACTIONS**

- INIS: 1981-10-15; ETDE: 1979-05-02
- \*BT1 inclusive interactions
- RT semi-exclusive interactions

**SEMI-BATCH CULTURE**

- INIS: 2000-04-12; ETDE: 1978-06-14
- RT aerobic digestion
- RT anaerobic digestion
- RT batch culture
- RT continuous culture
- RT culture media
- RT fermentation
- RT single cell protein

**SEMICARBAZIDES**

- \*BT1 carbonic acid derivatives
- \*BT1 organic nitrogen compounds
- \*BT1 organic oxygen compounds

**SEMICARBAZONES**

- \*BT1 carbonic acid derivatives
- \*BT1 organic nitrogen compounds
- RT aldehydes
- RT ketones

**semicircular spectrometers**

- USE flat magnetic spectrometers

**SEMICLASSICAL APPROXIMATION**

- UF sca model
- \*BT1 approximations
- RT quantum mechanics
- RT scattering

**SEMICOKE**

- INIS: 2000-04-12; ETDE: 1976-02-19
- The solid residue obtained by carbonization, esp. of coal at a relatively low temperature (as below 700 degrees C) that is in general softer and more friable than coke from carbonization at higher temperatures, that gives a hot smokeless fire, and that can be used as a domestic fuel.*
- RT coke
- RT coking
- RT fuels
- RT semicoking

**SEMICOKING**

- INIS: 2000-04-12; ETDE: 1976-02-19
- RT coke
- RT coking
- RT fuels
- RT semicoke

**semiconductor counters**

- USE semiconductor detectors

**SEMICONDUCTOR DETECTORS**

- UF semiconductor counters
- \*BT1 radiation detectors
- NT1 bulk semiconductor detectors
- NT1 cdte semiconductor detectors
- NT1 cdznte semiconductor detectors
- NT1 ge semiconductor detectors
  - NT2 high-purity ge detectors
  - NT2 li-drifted ge detectors
- NT1 hgi2 semiconductor detectors
- NT1 insb semiconductor detectors
- NT1 junction detectors
  - NT2 li-drifted junction detectors
- NT1 li-drifted detectors
  - NT2 li-drifted ge detectors
  - NT2 li-drifted junction detectors
  - NT2 li-drifted si detectors

- NT1 si semiconductor detectors
  - NT2 li-drifted si detectors
- NT2 si microstrip detectors
- NT1 surface barrier detectors
- RT dosimeters
- RT radiator counters
- RT semiconductor devices

**SEMICONDUCTOR DEVICES**

- NT1 charge-coupled devices
- NT1 semiconductor diodes
  - NT2 germanium diodes
  - NT2 junction diodes
  - NT2 light emitting diodes
  - NT2 photodiodes
  - NT2 schottky barrier diodes
  - NT2 silicon diodes
  - NT2 switching diodes
  - NT2 tunnel diodes
  - NT2 variable capacitance diodes
- NT1 semiconductor lasers
- NT1 semiconductor rectifiers
- NT1 semiconductor resistors
- NT1 semiconductor storage devices
- NT1 semiconductor switches
- NT1 thermistors
- NT1 thyristors
- NT1 transistors
  - NT2 field effect transistors
  - NT3 mosfet
  - NT2 junction transistors
  - NT2 mis transistors
  - NT2 mos transistors
  - NT3 mosfet
  - NT2 phototransistors
  - NT2 surface barrier transistors
- RT depletion layer
- RT display devices
- RT electrical equipment
- RT electronic equipment
- RT miniaturization
- RT optoelectronic devices
- RT oscillators
- RT photoelectric cells
- RT semiconductor detectors

**SEMICONDUCTOR DIODES**

- UF diodes (semiconductor)
- BT1 semiconductor devices
- NT1 germanium diodes
- NT1 junction diodes
- NT1 light emitting diodes
- NT1 photodiodes
- NT1 schottky barrier diodes
- NT1 silicon diodes
- NT1 switching diodes
- NT1 tunnel diodes
- NT1 variable capacitance diodes
- RT betavoltaic cells
- RT photovoltaic cells
- RT semiconductor junctions
- RT semiconductor rectifiers
- RT thermionic diodes

**SEMICONDUCTOR JUNCTIONS**

- SF junctions
- NT1 heterojunctions
- NT1 homojunctions
- NT1 mim junctions
- NT1 ms junctions
- NT1 p-n junctions
- RT junction detectors
- RT junction transistors
- RT semiconductor diodes
- RT semiconductor materials

**SEMICONDUCTOR LASERS**

- BT1 semiconductor devices
- \*BT1 solid state lasers

**SEMICONDUCTOR MATERIALS**

If known, coordinate with descriptors for the specific materials.

- UF materials (semiconductor)
- BT1 materials
- NT1 magnetic semiconductors
- NT1 n-type conductors
- NT1 organic semiconductors
- NT1 p-type conductors
- RT depletion layer
- RT doped materials
- RT electric conductors
- RT electron mobility
- RT fano factor
- RT graded band gaps
- RT nanostructures
- RT p-n junctions
- RT photoconductors
- RT semiconductor junctions
- RT semimetals
- RT thermoelectric materials
- RT traps

**SEMICONDUCTOR RECTIFIERS**

- \*BT1 rectifiers
- BT1 semiconductor devices
- RT semiconductor diodes

**SEMICONDUCTOR RESISTORS**

- UF varistors
- \*BT1 resistors
- BT1 semiconductor devices

**SEMICONDUCTOR STORAGE DEVICES**

- BT1 memory devices
- BT1 semiconductor devices

**SEMICONDUCTOR SWITCHES**

- BT1 semiconductor devices
- \*BT1 switches

**semidiurnal variation**

- USE daily variations

**semihomogeneous critical assembly**

INIS: 1993-11-09; ETDE: 2002-06-13  
USE shca reactor

**SEMILEPTONIC DECAY**

INIS: 1978-02-23; ETDE: 1978-05-01  
Weak decay with at least one neutrino and hadron among the decay products.

- \*BT1 weak particle decay
- RT beta decay
- RT leptonic decay
- RT leptons
- RT neutrinos
- RT weak hadronic decay

**SEMIMETALS**

- UF metalloids
- BT1 elements
- NT1 arsenic
- NT1 boron
- NT1 selenium
- NT1 silicon
- NT2 silicene
- NT1 tellurium
- RT alloys
- RT intermetallic compounds
- RT metals
- RT nonmetals
- RT semiconductor materials

**seminal vesicles**

- USE male genitals

**SEMPALATINSK TEST SITE**

INIS: 1997-11-07; ETDE: 1998-06-01  
BT1 nuclear test sites  
RT kazakhstan

RT nuclear explosions

RT nuclear weapons

**SEMISUBMERSIBLE PLATFORMS**

2008-07-04  
BT1 offshore platforms

**sena reactor**

Societe d'Energie Nucleaire des Ardennes reactor, Chooz.  
USE chooz-a reactor

**SENDAI-1 REACTOR**

INIS: 1979-09-18; ETDE: 1979-10-23  
Kyushu Electric Power Co., Sendai, Kagoshima, Japan.  
UF kyushu-3 reactor  
\*BT1 pwr type reactors

**SENDAI-2 REACTOR**

INIS: 1982-06-09; ETDE: 1982-07-08  
Kyushu Electric Power Co., Sendai, Kagoshima, Japan.  
\*BT1 pwr type reactors

**sendai cyclotron**

INIS: 1983-06-30; ETDE: 2000-09-20  
USE tohoku cyclotron

**SENEGAL**

- BT1 africa
- BT1 developing countries

**SENGIERITE**

2000-04-12  
\*BT1 oxide minerals  
\*BT1 uranium minerals  
RT copper oxides  
RT uranium oxides  
RT vanadium oxides

**senior centers**

INIS: 2000-04-12; ETDE: 1981-01-09  
USE public buildings

**senior executive service**

INIS: 2000-04-12; ETDE: 1981-06-13  
(Prior to January 1995, this was a valid ETDE descriptor.)  
SEE management  
SEE personnel

**SENIORITY NUMBER**

- BT1 quantum numbers
- RT quantum mechanics

**senn reactor**

- USE garigliano reactor

**SENSE ORGANS**

- \*BT1 organs
- NT1 auditory organs
- NT1 eyes
- NT2 conjunctiva
- NT2 cornea
- NT2 crystalline lens
- NT2 lacrimal ducts
- NT2 retina
- NT2 uvea

- NT1 taste buds
- NT1 vestibular apparatus
- RT chemoreceptors
- RT head
- RT nervous system
- RT nose
- RT olfactory bulbs
- RT organoleptic properties
- RT receptors
- RT reflexes
- RT sense organs diseases
- RT sensors

**SENSE ORGANS DISEASES**

- BT1 diseases
- NT1 cataracts
- NT1 conjunctivitis
- RT nervous system diseases
- RT ophthalmology
- RT sense organs
- RT skin diseases

**SENSIBLE HEAT STORAGE**

INIS: 1993-06-04; ETDE: 1977-06-30  
Storage of thermal energy utilizing the specific heat capacity of a material without changing the phase of the material.

- \*BT1 heat storage
- RT rock beds
- RT seasonal thermal energy storage
- RT tanks
- RT thermal energy storage equipment
- RT thermal mass
- RT trombe walls
- RT water walls

**SENSITIVITY**

The quantitative aspect concerned with the threshold for detecting a given material, property, etc.

- UF detection limits
- UF heat stability
- NT1 photosensitivity
- NT1 radiosensitivity
- RT accuracy
- RT biological adaptation
- RT biological effects
- RT dead time
- RT resolution
- RT specificity
- RT spectral response

**SENSITIVITY ANALYSIS**

INIS: 1981-02-27; ETDE: 1979-07-18  
Response of a mathematical model to variations of the input parameters.

- RT calculation methods
- RT computer calculations
- RT errors
- RT mathematical models
- RT parametric analysis
- RT response functions

**SENSITIZERS**

- BT1 reagents

**SENSORS**

2007-06-29  
Coordinate this descriptor with one for the instrument of which the sensor is a component.

- RT electronic equipment
- RT measuring instruments
- RT probes
- RT remote sensing
- RT sense organs

**seoul triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE triga-2-seoul reactor

**seoul triga-mk-3 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE triga-3-seoul reactor

**sepa**

INIS: 2000-04-12; ETDE: 1980-03-29  
USE southeastern power administration

**SEPARATED ORBIT CYCLOTRONS**

1996-01-24  
\*BT1 cyclotrons

**separation energy**

- USE binding energy

**SEPARATION EQUIPMENT**

*INIS: 1986-07-09; ETDE: 1981-05-18*

*SF oil-water separators*

BT1 equipment

NT1 extraction apparatuses

NT2 extraction columns

NT2 mist extractors

NT2 mixer-settlers

NT2 podbielniak contactors

NT1 inertial separators

NT2 cyclone separators

NT1 isotope separators

NT1 vapor separators

NT2 steam separators

RT separation processes

**SEPARATION NOZZLE METHOD**

\*BT1 isotope separation

RT nozzles

**SEPARATION PROCESSES**

*1997-06-17*

(Prior to August 1996 SLUREX PROCESS was a valid ETDE descriptor.)

*UF slurex process*

NT1 carbon sequestration

NT1 centrifugation

NT2 gas centrifugation

NT2 ultracentrifugation

NT1 chemisorption

NT1 chromatography

NT2 extraction chromatography

NT2 gas chromatography

NT2 gel permeation chromatography

NT2 ion exchange chromatography

NT2 liquid column chromatography

NT3 high-performance liquid chromatography

NT2 radiochromatography

NT2 supercritical fluid chromatography

NT2 thermochromatography

NT2 thin-layer chromatography

NT1 cng process

NT1 decantation

NT1 demetallization

NT1 demineralization

NT2 desalination

NT1 dewaxing

NT1 dialysis

NT2 electro dialysis

NT1 distillation

NT2 destructive distillation

NT2 solar distillation

NT2 vacuum distillation

NT1 electrostatic separation

NT1 elutriation

NT1 extraction

NT2 deasphalting

NT2 reductive extraction

NT2 solvent extraction

NT3 phenosolvan process

NT3 supercritical gas extraction

NT1 field flow fractionation

NT1 filtration

NT2 ultrafiltration

NT1 flotation

NT1 foam separation

NT1 fractionation

NT1 freezing out

NT1 heavy media separation

NT2 otisca process

NT1 isotope separation

NT2 dual temperature process

NT2 electromagnetic isotope separation

NT2 gas centrifugation

NT2 gaseous diffusion process

NT2 laser isotope separation

NT2 separation nozzle method

NT1 leaching

NT2 microbial leaching

NT1 licado process

NT1 metal transfer process

NT1 multi-element separation

NT1 ore enrichment

NT1 phosam process

NT1 precipitation

NT2 coprecipitation

NT2 flocculation

NT1 precipitation scavenging

NT1 reprocessing

NT2 airox process

NT2 amex process

NT2 chloride volatility process

NT2 civex process

NT2 csrex process

NT2 dapex process

NT2 diamex process

NT2 eurex process

NT2 fluoride volatility process

NT2 iodox process

NT2 purex process

NT2 pyrochemical reprocessing

NT2 redox process

NT2 sesame process

NT2 talspeak process

NT2 thorex process

NT2 tramex process

NT2 truex process

NT2 zirflex process

NT1 zone refining

RT adsorption

RT concentrators

RT crystallization

RT cyclone separators

RT dust collectors

RT electrophoresis

RT electrostatic precipitators

RT ion exchange

RT jigs

RT magnetic filters

RT magnetic separators

RT particle size classifiers

RT purification

RT refining

RT screens

RT scrubbing

RT separation equipment

RT sorting

RT sublimation

RT supported liquid membranes

RT tailings

RT thermal diffusion

**separators (inertial)**

*INIS: 1976-10-07; ETDE: 2002-06-13*

USE inertial separators

**separators (steam)**

USE steam separators

**separators (vapor)**

USE vapor separators

**SEPIOLITE**

*INIS: 2000-04-12; ETDE: 1983-02-09*

*A chain-lattice clay mineral.*

\*BT1 clays

RT magnesium silicates

**SEPTICEMIA**

RT blood

RT infectious diseases

**SEPTUM MAGNETS**

*1999-07-02*

\*BT1 magnets

RT beam extraction

RT beam optics

RT electrostatic septa

RT magnet coils

RT magnetic analyzers

**sequence analysis**

*INIS: 1984-04-04; ETDE: 2002-06-13*

*Analysis of nucleotide and protein chains by means of radioisotope labelling.*

USE structural chemical analysis

**SEQUENTIAL CIRCUITS**

BT1 electronic circuits

RT digital circuits

**SEQUENTIAL SCANNING**

*INIS: 1983-06-30; ETDE: 1983-07-20*

BT1 counting techniques

RT biomedical radiography

RT computerized tomography

RT dynamic function studies

RT image scanners

**sequestration (carbon oxides)**

*2004-01-14*

USE carbon sequestration

**sequestrene**

USE edta

**SEQUIM BAY**

*Site of new HAPO marine research lab.*

\*BT1 bays

\*BT1 pacific ocean

RT hapo

RT washington

**SEQUOYAH-1 REACTOR**

*TVA, Soddy-Daisy, Tennessee, USA.*

*UF sequoyah nuclear power plant unit-1*

\*BT1 pwr type reactors

**SEQUOYAH-2 REACTOR**

*TVA, Soddy-Daisy, Tennessee, USA.*

*UF sequoyah nuclear power plant unit-2*

\*BT1 pwr type reactors

**sequoyah nuclear power plant unit-1**

*1999-09-17*

USE sequoyah-1 reactor

**sequoyah nuclear power plant unit-2**

*1999-09-17*

USE sequoyah-2 reactor

**SEQUOYAH UF6 PRODUCTION**

**PLANT**

BT1 industrial plants

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT oklahoma

RT uranium hexafluoride

**SER REACTOR**

*Sandia Laboratories, Albuquerque, New Mexico, USA. Shut down in 1970.*

*UF snap-2 experimental reactor*

\*BT1 enriched uranium reactors

\*BT1 nak cooled reactors

\*BT1 potassium cooled reactors

\*BT1 process heat reactors

\*BT1 sodium cooled reactors

**serber-goldberger model**

USE goldberger model

**SERBER THEORY**

RT stripping

**SERBIA**

*2006-11-20*

*SF serbia and montenegro*

*SF yugoslavia*

BT1 developing countries

\*BT1 eastern europe

RT danube river

### serbia and montenegro

2004-03-08

(From March 2004 till November 2006 this was a valid descriptor. From 1992 till March 2004 YUGOSLAVIA was used for this concept.)

SEE montenegro  
SEE serbia

### seri

INIS: 1992-05-04; ETDE: 1978-02-14

USE national renewable energy laboratory

### SERIES EXPANSION

NT1 cluster expansion  
NT1 neumann series  
NT1 operator product expansion  
NT1 power series  
RT boson expansion  
RT continued fractions  
RT convergence  
RT equations  
RT exact solutions  
RT functions  
RT mathematical evolution  
RT mathematics  
RT pade approximation  
RT spline functions  
RT superconvergence relations

### SERINE

UF hydroxy-alpha-alanine-beta  
\*BT1 amino acids  
\*BT1 hydroxy acids

### SERINE PROTEINASES

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.4.21.

UF properdin  
\*BT1 peptide hydrolases  
NT1 chymotrypsin  
NT1 fibrinolysin  
NT1 kallikrein  
NT1 thrombin  
NT1 trypsin

### SEROTONIN

\*BT1 hydroxy compounds  
\*BT1 neuroregulators  
\*BT1 radioprotective substances  
\*BT1 sympathomimetics  
\*BT1 tryptamines  
NT1 bufotenine

### SEROUS MEMBRANES

BT1 membranes  
NT1 mesentery  
NT1 pericardium  
NT1 peritoneum  
NT1 pleura

### SERPENTINE

2000-04-12

A group of common rock-forming minerals.

\*BT1 silicate minerals  
RT magnesium silicates

### SERPENTINITES

INIS: 2000-04-12; ETDE: 1980-08-12

\*BT1 metamorphic rocks

### SERPUKHOV SYNCHROTRON

UF u-70 synchrotron

\*BT1 synchrotrons  
RT ihep  
RT serpukhov tevatron

### SERPUKHOV TEVATRON

INIS: 1985-11-16; ETDE: 1985-12-13

3-TeV accelerating-storage complex based on the Serpukhov synchrotron.

BT1 storage rings  
\*BT1 synchrotrons  
RT serpukhov synchrotron

### SERRATIA

\*BT1 bacteria

### serum (blood)

USE blood serum

### serum (immune)

USE immune serums

### servers (computers)

2005-05-25

USE computers

### SERVICE LIFE

INIS: 1992-02-26; ETDE: 1976-08-04

UF life (service)  
UF useful life  
SF durability  
BT1 lifetime  
NT1 lifetime extension  
RT life-cycle cost

### SERVICE SECTOR

INIS: 1992-10-23; ETDE: 1980-08-12

RT commercial sector  
RT residential sector  
RT sectoral analysis

### service stations

INIS: 2000-04-12; ETDE: 1979-05-09

USE gasoline service stations

### service water systems

1976-04-03

USE auxiliary water systems

### SERVOMECHANISMS

\*BT1 control equipment  
RT actuators  
RT feedback  
RT remote control

### SESAME OIL

UF beni oil  
UF benne oil  
UF gingly oil  
UF gingelly oil  
UF gingly oil  
UF teal oil  
UF teel oil  
UF til oil  
\*BT1 vegetable oils  
RT sesamum indicum

### SESAME PROCESS

INIS: 1998-06-30; ETDE: 1998-10-20

\*BT1 reprocessing  
RT americium  
RT oxidation

### SESAME STORAGE RING

2018-11-09

BT1 storage rings  
\*BT1 synchrotrons  
RT sesame synchrotron laboratory

### SESAME SYNCHROTRON LABORATORY

2018-11-09

Synchrotron-Light for Experimental Science and Applications in the Middle East. Laboratory, Allan, Jordan

BT1 international organizations  
RT light sources

RT sesame storage ring

RT synchrotron radiation sources

RT x-ray sources

### SESAMUM INDICUM

INIS: 2001-02-28; ETDE: 2002-01-18

\*BT1 magnoliopsida  
RT sesame oil

### SET THEORY

INIS: 1989-07-19; ETDE: 1979-05-03

Study of structure and size of sets from viewpoint of axioms imposed.

BT1 mathematics  
RT fuzzy logic  
RT information theory  
RT periodicity

### settlements (disputes)

INIS: 1976-12-08; ETDE: 2002-06-13

USE dispute settlements

### SETTLING PONDS

INIS: 1990-04-19; ETDE: 1985-10-10

UF sediment basins  
\*BT1 ponds  
RT drainage  
RT runoff  
RT sedimentation  
RT waste processing

### SEVERANCE TAX

INIS: 2000-04-12; ETDE: 1981-03-17

Tax on the taking and use of natural resources imposed at the time the mineral or other product is extracted.

UF production tax  
BT1 taxes  
RT resource depletion

### SEVERE ACCIDENTS

2017-03-14

For severe reactor accidents coordinate with a descriptor from REACTOR ACCIDENTS.

\*BT1 beyond-design-basis accidents  
NT1 meltdown  
NT2 melt-through  
NT1 reactor core disruption

### SEVERN RIVER

INIS: 1991-12-11; ETDE: 1976-01-07

\*BT1 rivers  
RT united kingdom

### SEWAGE

INIS: 1994-08-26; ETDE: 1976-01-27

(Until August 1994 this concept was indexed to LIQUID WASTES.)

BT1 wastes  
NT1 sewage sludge  
RT activated sludge process  
RT compost  
RT organic wastes

### sewage disposal

ETDE: 2002-06-13

USE liquid wastes  
USE waste disposal

### SEWAGE SLUDGE

INIS: 1976-07-16; ETDE: 1976-01-23

Precipitated solid matter from sewage treatment processes.

UF municipal sludge  
UF sludges (sewage)  
\*BT1 biological wastes  
\*BT1 sewage  
BT1 sludges  
RT anaerobic digestion  
RT ground disposal  
RT slurries  
RT soil conservation

**sewage treatment**

ETDE: 2002-06-13

- USE liquid wastes  
USE waste processing

**SEX**

- RT female genitals  
RT females  
RT gonads  
RT heterochromosomes  
RT male genitals  
RT males  
RT mating  
RT pheromone  
RT reproduction  
RT sex chromatin  
RT sex dependence  
RT sex ratio

**SEX CHROMATIN**

- BT1 chromatin  
RT sex

**sex chromosomes**

- USE heterochromosomes

**SEX DEPENDENCE**

INIS: 1976-10-07; ETDE: 1976-11-01

- RT females  
RT males  
RT sex

**SEX RATIO**

- BT1 dimensionless numbers  
RT progeny  
RT sex

**seychelles (republic of)**

2003-05-23

- USE republic of seychelles

**SEYFERT GALAXIES**

- BT1 galaxies  
RT bl lacertae objects  
RT quasars

**sf nateko process**

INIS: 2000-04-12; ETDE: 1976-01-23

*Desulfurization process for stack gases by countercurrent contact with lime slurry.*

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE lime-limestone wet scrubbing processes

**sferics**

- USE atmospheric

**SGHWR REACTOR**

UF *steam generating heavy water reactor*

- \*BT1 enriched uranium reactors  
\*BT1 heavy water moderated reactors  
\*BT1 pressure tube reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors

**SGR TYPE REACTORS**

UF *sodium cooled graphite moderated reactors*

- \*BT1 graphite moderated reactors  
\*BT1 sodium cooled reactors  
NT1 sre reactor  
RT power reactors

**sgtr**

2017-07-18

- USE steam generator tube rupture

**SH-PROTEINASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.4.22.

- \*BT1 peptide hydrolases

- NT1 cathepsins  
NT1 papain  
NT1 streptococcal proteinase

**SHADING**

INIS: 2000-04-12; ETDE: 1975-08-19

- RT curtains  
RT shutters  
RT solar flux  
RT sun shades

**SHADOW EFFECT**

- RT cross sections  
RT nuclear reactions  
RT scattering

**SHAFT EXCAVATIONS**

INIS: 1981-03-27; ETDE: 1977-03-08

*Vertical or inclined openings of uniform and limited cross section, as made for mining ore.*

- NT1 mine shafts  
NT2 abandoned shafts  
RT excavation  
RT konrad ore mine  
RT mines  
RT mining  
RT radioactive waste disposal  
RT shaft guides  
RT tunneling  
RT tunnels  
RT underground disposal

**SHAFT GUIDES**

INIS: 2000-04-12; ETDE: 1980-08-12

- UF *guides (shaft)*  
RT shaft excavations

**shafts (mechanical)**

INIS: 1976-09-06; ETDE: 2002-06-13

- USE mechanical shafts

**shafts (mine)**

INIS: 1991-12-18; ETDE: 2002-06-13

- USE mine shafts

**SHALE GAS**

2000-04-12

- \*BT1 gases  
RT oil shales

**shale mining**

INIS: 2000-04-12; ETDE: 1983-02-09

- USE oil shale mining

**SHALE OIL**

- \*BT1 petroleum  
NT1 shale oil fractions  
RT fischer assay  
RT hydrotretorting assay  
RT ichthammol  
RT kerogen  
RT oil shale industry  
RT oil shales  
RT pyrolytic oils  
RT shale tar oils  
RT synthetic petroleum

**SHALE OIL FRACTIONS**

INIS: 2000-04-12; ETDE: 1976-03-11

- UF *green oil*  
\*BT1 shale oil  
RT oil shales

**SHALE TAR**

2000-04-12

- \*BT1 tar  
RT bituminous materials  
RT shale tar acids  
RT shale tar bases  
RT shale tar oils

**SHALE TAR ACIDS**

INIS: 2000-04-12; ETDE: 1976-08-24

- \*BT1 organic acids  
RT shale tar

**SHALE TAR BASES**

INIS: 2000-04-12; ETDE: 1976-07-07

- BT1 bases  
BT1 organic compounds  
RT shale tar

**SHALE TAR OILS**

2000-04-12

- \*BT1 oils  
RT shale oil  
RT shale tar

**SHALE TAR WATER**

2000-04-12

- \*BT1 waste water

**SHALES**

- \*BT1 sedimentary rocks  
NT1 argillite  
NT1 oil shales  
NT2 black shales  
RT carbonate minerals  
RT clays  
RT feldspars  
RT iron oxides  
RT oxide minerals  
RT quartz  
RT silt  
RT siltstones  
RT spent shales

**shallow land burial**

INIS: 2000-04-12; ETDE: 1986-04-29

- USE ground disposal

**shandong miniature neutron source reactor**

2004-03-15

- USE mnsr-sd reactor

**shanghai inr cyclotron**

INIS: 1983-06-01; ETDE: 1983-07-07

- USE inr cyclotron

**shanghai miniature neutron source reactor**

2004-03-15

- USE mnsr-sh reactor

**SHAPE**

1996-04-30

- NT1 parabolas  
NT1 troposkien shape  
RT cones  
RT configuration  
RT cylinders  
RT dimensions  
RT mass distribution  
RT morphogenesis  
RT morphology  
RT plates  
RT prisms  
RT rings  
RT rods  
RT shape memory effect  
RT slabs  
RT spheres  
RT spheroids  
RT tubes

**SHAPE MEMORY EFFECT**

1986-08-19

*A shape recovery effect in metal specimens. It is associated with the martensite parent transformation.*

- UF *marmen effect*



- RT elasticity
- RT nitinol heat engines
- RT phase transformations
- RT shape

**shaped charges**

INIS: 1984-04-04; ETDE: 1979-08-07  
(Prior to August 1979 CHEMICAL EXPLOSIVES and SHAPE were used. From then till March 1997 this was a valid ETDE descriptor.)

- USE chemical explosives

**sharja**

INIS: 1992-05-07; ETDE: 1976-08-05  
USE united arab emirates

**sharpite**

2000-04-12  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE carbonate minerals  
USE uranium minerals

**shattering**

1975-11-27  
USE fragmentation

**SHAWNEE STEAM PLANT**

INIS: 2000-04-12; ETDE: 1981-11-10  
\*BT1 fossil-fuel power plants  
RT kentucky  
RT tennessee valley authority

**SHCA REACTOR**

- UF semi-homogeneous critical assembly
- UF semihomogeneous critical assembly
- \*BT1 enriched uranium reactors
- \*BT1 graphite moderated reactors
- \*BT1 solid homogeneous reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**SHEAR**

- RT fluid flow
- RT magnetic fields
- RT reversed shear
- RT richardson number
- RT rotational transform
- RT stresses
- RT tensile properties

**SHEAR PROPERTIES**

- UF shear strength
- UF strength (shear)
- BT1 mechanical properties

**shear strength**

- USE shear properties

**shear waves (seismic)**

INIS: 1980-05-14; ETDE: 1976-11-17  
USE seismic s waves

**SHEARER LOADERS**

INIS: 2000-04-12; ETDE: 1980-05-23  
\*BT1 cutter loaders  
RT coal mining

**shearon harris-1 reactor**

- USE harris-1 reactor

**shearon harris-2 reactor**

- USE harris-2 reactor

**shearon harris-3 reactor**

- USE harris-3 reactor

**shearon harris-4 reactor**

- USE harris-4 reactor

**sheathing**

- USE canning

**sheaths (fuel)**

- USE fuel cans

**SHEEP**

- UF lambs
- \*BT1 domestic animals
- \*BT1 ruminants
- RT dictyocaulus
- RT meat

**SHEETS**

1996-04-18  
Thinner than plates but thicker than foils.  
RT cast method  
RT dendritic web growth method  
RT foils  
RT inverted stepanov method  
RT plates  
RT ribbon-to-ribbon method  
RT ribbon-to-sheet method

**SHEILA HELIAC**

INIS: 1987-06-29; ETDE: 1987-07-09  
\*BT1 heliac stellarators  
RT h-1 heliac

**shell claus off-gas treating process**

2000-04-12  
USE scot process

**shell flue gas desulfurization process**

INIS: 2000-04-12; ETDE: 1977-12-22  
SEE shell-uop copper oxide process

**SHELL GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1976-01-23  
Partial oxidation of hydrocarbons to produce carbon monoxide and hydrogen and methanation to sng.  
BT1 sng processes  
RT hydrocarbons  
RT partial oxidation processes  
RT petroleum

**SHELL-KOPPERS GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1980-04-14  
Entrained, pressurized system using coal, steam, and oxygen to produce intermediate btu gas.  
\*BT1 coal gasification

**SHELL MODELS**

1996-07-08  
Nuclear shell models only; for electron shell models use ELECTRONIC STRUCTURE.  
UF continuum shell model  
UF models (shell)  
SF wilkinson theory  
\*BT1 nuclear models  
NT1 governor model  
NT1 interacting boson model  
NT1 multi-center shell model  
RT aligned coupling scheme  
RT broken-pair approximation  
RT elliot model  
RT talmi integrals  
RT weak-coupling model

**SHELL PELLETT HEAT EXCHANGER RETORTING**

INIS: 2000-04-12; ETDE: 1981-01-27  
Fluidization bed process in which shale flows upward countercurrent to larger heat-carrier pellets.  
UF spher  
RT oil shales  
RT retorting

**SHELL-UOP COPPER OXIDE PROCESS**

INIS: 2000-04-12; ETDE: 1977-04-12  
Process to remove sulfur dioxide and nitrogen oxides simultaneously from flue gas using dry copper oxide on alumina sorbent.  
SF shell flue gas desulfurization process  
\*BT1 desulfurization  
RT denitrification  
RT waste processing

**SHELLS**

Structural forms; for electron shells in atoms use ELECTRONIC STRUCTURE.  
RT coverings  
RT domed structures  
RT liners  
RT mechanical structures

**shells (containment)**

- USE containment shells

**SHELTERS**

- NT1 animal shelters
- NT1 fallout shelters
- RT buildings
- RT civil defense
- RT local fallout
- RT nuclear explosions
- RT nuclear weapons
- RT radiation protection
- RT shielding
- RT subsurface structures

**shenzen miniature neutron source reactor**

2004-03-15  
USE mnsr-sz reactor

**sherardizing**

- USE diffusion coating

**SHERMAN TABLES**

- RT anisotropy
- RT spin

**sherwood project**

2000-04-12  
(Prior to March 1997 this was a valid ETDE descriptor.)  
SEE thermonuclear reactions

**shf radiation**

- USE ghz range 01-100
- USE radiowave radiation

**SHIELD SUPPORTS**

INIS: 2000-04-12; ETDE: 1985-04-09  
\*BT1 powered supports  
RT mining

**shield test reactor**

- USE stir reactor

**SHIELDED METAL-ARC WELDING**

- \*BT1 arc welding

**shielded organs**

- USE partial body irradiation

**SHIELDING**

- NT1 biological shielding
- NT1 magnetic shielding
- RT absorption
- RT alara
- RT buildup
- RT collimators
- RT containers
- RT distance
- RT external irradiation
- RT gloveboxes
- RT gloves

RT half-thickness  
 RT heterogeneous effects  
 RT hot cells  
 RT manipulators  
 RT point kernels  
 RT radiation protection  
 RT scattering  
 RT self-shielding  
 RT shelters  
 RT shielding materials  
 RT shields  
 RT shutters  
 RT stray radiation  
 RT thermal insulation  
 RT thickness

**SHIELDING MATERIALS**

UF materials (shielding)  
 BT1 materials  
 RT building materials  
 RT concretes  
 RT hydrophilic polymers  
 RT lead  
 RT paraffin  
 RT radiation protection  
 RT reactor components  
 RT reactor materials  
 RT shielding  
 RT shields

**SHIELDS**

NT1 biological shields  
 NT1 thermal shields  
 RT radiation protection  
 RT reactor components  
 RT shielding  
 RT shielding materials

**SHIFT PROCESSES**

INIS: 2000-05-02; ETDE: 1975-10-28  
 Processes using the addition of steam to gasification products to increase the hydrogen/carbon monoxide ratio.  
 RT coal gasification  
 RT methanation

**shift work**

INIS: 2000-04-12; ETDE: 1987-04-08  
 USE alternative work schedules

**SHIGELLA**

\*BT1 bacteria

**SHIKA-1 REACTOR**

INIS: 1989-09-14; ETDE: 1989-10-16  
 Hokuriku Electric Power Co., Shika, Ishikawa, Japan.  
 UF noto-1 reactor  
 \*BT1 bwr type reactors

**SHIKA-2 REACTOR**

2008-07-24  
 Hokuriku Electric Power Co., Shika, Ishikawa, Japan  
 UF noto-2 reactor  
 \*BT1 bwr type reactors

**SHIKIMIC ACID**

\*BT1 hydroxy acids

**SHIM RODS**

UF coarse control rods  
 \*BT1 control elements  
 RT neutron absorbers

**SHIMANE-1 REACTOR**

Chugoku Electric Power Co., Kashima, Shimane, Japan. Permanent shutdown since April 2015.  
 UF chugoku electric power company reactor  
 \*BT1 bwr type reactors

**SHIMANE-2 REACTOR**

INIS: 1985-11-16; ETDE: 1985-08-08  
 Chugoku Electric Power Co., Kashima, Shimane, Japan.  
 \*BT1 bwr type reactors

**SHIMANE-3 REACTOR**

2017-11-09  
 Chugoku Electric Power Co., Kashima, Shimane, Japan. Under construction.  
 \*BT1 bwr type reactors

**SHIN-KORI-1 REACTOR**

2017-10-30  
 Kori, Republic of Korea.  
 \*BT1 pwr type reactors

**SHIN-KORI-2 REACTOR**

2017-10-30  
 Kori, Republic of Korea.  
 \*BT1 pwr type reactors

**SHIN-KORI-3 REACTOR**

2017-10-30  
 Kori, Republic of Korea.  
 \*BT1 pwr type reactors

**SHIN-WOLSONG-1 REACTOR**

2017-10-30  
 Nae-ri, Yangnam-myeon, Gyeongju, North Gyeongsang province, South Korea.  
 \*BT1 pwr type reactors

**SHIP PROPULSION REACTORS**

UF naval reactors  
 UF s8g prototype reactor  
 SF Enrico Fermi reactor  
 \*BT1 propulsion reactors  
 NT1 efdr-50 reactor  
 NT1 Lenin reactor  
 NT1 Leonid Brezhnev reactor  
 NT1 Mutsu reactor  
 NT1 Otto Hahn reactor  
 NT1 Savannah reactor  
 NT1 Sibir reactor  
 RT nuclear ships

**ship reactor mutsu**

2000-04-12  
 USE mutsu reactor

**shipment**

USE transport

**SHIPPER-RECEIVER DIFFERENCES**

INIS: 1976-09-06; ETDE: 1976-11-01  
 RT material balance  
 RT material unaccounted for

**shippingport pressurized water reactor**

1993-11-09  
 USE shippingport reactor

**SHIPPINGPORT REACTOR**

US AEC/US DOE, Shippingport, Pennsylvania, USA. Shut down as PWR in 1974. Resumed operation in 1977 as LWBR. Retired in 1982.  
 UF shippingport pressurized water reactor  
 \*BT1 pwr type reactors

**SHIPS**

UF drill ships  
 UF Puget Sound Naval Shipyard  
 NT1 nuclear ships  
 NT2 ns Enrico Fermi  
 NT2 ns Lenin  
 NT2 ns Leonid Brezhnev  
 NT2 ns Sibir  
 NT2 nuclear merchant ships

NT3 ns Mutsu

NT3 ns Otto Hahn

NT3 ns Savannah

NT1 submarines

NT1 tanker ships

RT barges

RT maritime transport

RT motorboats

RT navigation

RT navigational instruments

RT positioning

RT sails

RT thrusters

**shirley basin uranium mill**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE feed materials plants

**SHIVA FACILITY**

INIS: 1978-04-21; ETDE: 1978-02-14  
 Large Nd laser facility at LLL to be used for laser fusion.

RT laser fusion reactors

RT Lawrence Livermore Laboratory

RT Lawrence Livermore National

laboratory

RT neodymium lasers

RT nova facility

RT novette facility

**shoal event**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE vela project

**shock (biological)**

USE biological shock

**shock (electric)**

INIS: 2000-04-12; ETDE: 1979-07-24

USE electric shock

**shock (impact)**

USE impact shock

**shock (medical)**

USE biological shock

**shock (thermal)**

USE thermal shock

**SHOCK ABSORBERS**

RT damping

RT energy losses

RT impact shock

RT restraints

RT seismic effects

RT seismic isolation

RT shock waves

**SHOCK HEATING**

\*BT1 plasma heating

**SHOCK TUBES**

RT shock waves

**shock wave hardening**

USE strain hardening

**shock-wave hardening**

INIS: 1984-04-04; ETDE: 2002-06-13

USE strain hardening

**SHOCK WAVES**

UF Riemann waves

UF waves (shock)

NT1 detonation waves

RT blast effects

RT combustion waves

RT earthquakes

RT explosions

RT ground motion

RT hydromagnetic waves  
 RT impact shock  
 RT implosions  
 RT lax theorem  
 RT mach number  
 RT nuclear explosions  
 RT rankine-hugoniot equations  
 RT seismic effects  
 RT seismology  
 RT shock absorbers  
 RT shock tubes  
 RT soil-structure interactions  
 RT solitons  
 RT supersonic flow  
 RT transonic flow  
 RT water hammer

**shoes**

USE clothing

**SHOPPING CENTERS**

INIS: 1993-03-23; ETDE: 1979-05-02

\*BT1 commercial buildings

**SHOREHAM REACTOR**

Long Island Lighting Co., Shoreham, New York, USA. Shut down in 1989; decommissioned in 1995.

\*BT1 bwr type reactors

**SHORES**

For both lake- and sea-land boundaries.

UF coast  
 UF seacoast  
 BT1 coastal regions  
 RT coastal waters  
 RT lakes  
 RT offshore nuclear power plants  
 RT offshore sites  
 RT river deltas  
 RT seas

**short circuits**

INIS: 1983-10-14; ETDE: 1976-12-16

USE electrical faults

**short-lens spectrometers**

USE magnetic lens spectrometers

**short-range interactions**

USE interaction range

**SHORT ROTATION CULTIVATION**

INIS: 1992-02-04; ETDE: 1979-10-23

Agro-forestry system in which seedlings are planted like a row crop, and rapid juvenile growth is promoted by cultural practices.

BT1 cultivation techniques  
 RT agriculture  
 RT biomass plantations  
 RT forestry  
 RT trees

**SHORT WAVE RADIATION**

UF hf radiation  
 UF high frequency radiation  
 UF high-frequency radiation  
 \*BT1 radiowave radiation

**SHORTAGES**

INIS: 1993-06-07; ETDE: 1980-08-25

UF shortfalls  
 NT1 energy shortages  
 RT allocations  
 RT availability  
 RT domestic supplies  
 RT fuel supplies  
 RT inventories  
 RT supply disruption

**shortfalls**

INIS: 2000-04-12; ETDE: 1980-08-25

USE shortages

**SHORTTITE**

2000-04-12

A double carbonate of sodium and calcium.

\*BT1 carbonate minerals  
 RT calcium carbonates  
 RT sodium carbonates

**shorts (electrical)**

INIS: 1983-10-14; ETDE: 2002-06-13

USE electrical faults

**SHORTWALL MINING**

INIS: 2000-04-12; ETDE: 1977-05-07

\*BT1 underground mining  
 RT coal mining

**SHOT PEENING**

UF peening  
 \*BT1 cold working  
 BT1 surface treatments  
 RT descaling  
 RT surface cleaning  
 RT surface hardening

**shotfiring**

INIS: 2000-04-12; ETDE: 1978-04-27

USE explosive fracturing

**SHOWER COUNTERS**

Detects high energy gamma radiation or high energy particles on basis of cascade showers in layered absorbers.

UF calorimeter detectors  
 UF calorimeters (particle)  
 UF ionization calorimeters  
 UF total-absorption spectrometers  
 \*BT1 radiation detectors  
 RT cosmic ray detection  
 RT fermilab collider detector  
 RT gev range  
 RT stanford linear collider detector

**SHOWERS**

For rain showers use RAIN; for safety showers use SAFETY SHOWERS.

NT1 cascade showers  
 NT1 cosmic showers  
 NT2 extensive air showers

**showers (safety)**

INIS: 2000-04-12; ETDE: 1980-11-24

USE safety showers

**SHREDDERS**

INIS: 1987-05-26; ETDE: 1983-04-28

\*BT1 materials handling equipment  
 RT cutting tools

**SHREWS**

\*BT1 mammals

**SHRIMP**

\*BT1 decapods  
 RT prawns  
 RT seafood

**SHRINKAGE**

RT augmentation  
 RT contraction  
 RT dilatometry

**SHROUDS**

Cover enveloping the active length of a fuel assembly, to stabilize the coolant flow through the assembly.

\*BT1 reactor cooling systems  
 RT fuel assemblies  
 RT fuel channels  
 RT jackets

**SHRUBS**

UF chrysothamnus nauseosus  
 UF rabbit brush  
 BT1 plants  
 NT1 jatropa  
 NT1 jojoba  
 RT conifers  
 RT preferred species

**SHUBNIKOV-DE HAAS EFFECT**

RT hall effect  
 RT magnetic fields  
 RT magnetoresistance

**SHUNT REACTORS**

INIS: 2000-07-11; ETDE: 1979-08-07

Devices connected in shunt to an electric power system for drawing inductive current, e.g., to compensate for capacitive currents from transmission lines, cables, or shunt capacitors.

\*BT1 electrical equipment  
 RT power transmission  
 RT power transmission lines

**shunts**

INIS: 1975-10-23; ETDE: 2002-06-16

USE bypasses

**SHUTDOWN**

INIS: 1983-03-14; ETDE: 1991-06-26

(Prior to June 1991 SHUTDOWNS was a valid ETDE descriptor.)

NT1 reactor shutdown  
 NT2 scram  
 RT cancellation  
 RT decommissioning  
 RT outages

**shutdown (reactor)**

2000-04-12

USE reactor shutdown

**shutin pressure**

INIS: 1986-07-09; ETDE: 1978-09-11

USE reservoir pressure

**SHUTTERS**

INIS: 1982-10-29; ETDE: 1979-02-27

RT buildings  
 RT collimators  
 RT coverings  
 RT curtains  
 RT neutron choppers  
 RT openings  
 RT optical systems  
 RT shading  
 RT shielding  
 RT sun shades  
 RT thermal insulation  
 RT windows

**shuttle cars**

INIS: 2000-04-12; ETDE: 1979-09-27

USE trackless vehicles

**shuttles**

USE rabbit tubes

**SI MICROSTRIP DETECTORS**

INIS: 2004-06-11; ETDE: 2004-07-08

\*BT1 si semiconductor detectors

**SI SEMICONDUCTOR DETECTORS**

UF silicon semiconductor detectors  
 \*BT1 semiconductor detectors  
 NT1 li-drifted si detectors  
 NT1 si microstrip detectors

**SI UNITS**

INIS: 1997-06-05; ETDE: 1976-07-07

UF becquerel

UF gray  
 UF sievert  
 UF sievert unit  
 BT1 units  
 RT metric system

**si(li) detectors**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE li-drifted si detectors

**SIALIC ACID**

RT amines  
 RT gangliosides  
 RT organic acids

**sialon**

INIS: 1984-04-04; ETDE: 1982-02-08  
 USE aluminium oxides  
 USE silicon nitrides

**SIBERIA**

INIS: 1993-03-18; ETDE: 1978-06-14  
 BT1 asia  
 \*BT1 russian federation  
 RT chukchi sea

**sibir (nuclear ship)**

INIS: 1985-09-09; ETDE: 2002-06-13  
 USE ns sibir

**SIBIR REACTOR**

INIS: 1985-09-09; ETDE: 1985-10-10  
 UF icebreaker sibir reactor  
 UF nuclear ship sibir reactor  
 \*BT1 ship propulsion reactors  
 RT ns sibir

**sichromal alloys**

2000-04-12  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE aluminium alloys  
 USE chromium alloys  
 USE iron base alloys  
 USE silicon alloys

**SICILY**

INIS: 1992-06-04; ETDE: 1980-08-12  
 \*BT1 italy

**sick leave**

INIS: 2000-04-12; ETDE: 1983-05-21  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 SEE personnel management

**SICKLE CELL ANEMIA**

INIS: 1982-12-07; ETDE: 1981-01-30  
 \*BT1 anemias  
 RT erythrocytes  
 RT hereditary diseases

**SICROMO 9M**

2000-04-12  
 \*BT1 chromium alloys  
 \*BT1 iron base alloys  
 \*BT1 molybdenum alloys

**sid**

USE sudden ionospheric disturbance

**SIDE EFFECTS**

RT combined therapy  
 RT quality of life  
 RT therapeutic doses  
 RT therapy

**SIDERITE**

1993-01-27  
 A *sphatic iron ore; an iron carbonate.*  
 \*BT1 carbonate minerals  
 \*BT1 iron ores  
 RT iron carbonates

**siegbahn spectrometers**

USE flat magnetic spectrometers

**SIEMENS COMPUTERS**

INIS: 1977-10-17; ETDE: 1977-11-10  
 BT1 computers

**siemens unterrichtsreaktor**

USE sur-100 series reactor

**SIERRA LEONE**

BT1 africa  
 BT1 developing countries

**SIERRA NEVADA COLORADO**

BT1 mountains  
 RT california  
 RT cascade mountains

**sievert**

INIS: 2000-04-12; ETDE: 1980-08-12  
 For studies concerning units, concepts, or definitions. See also EQUIVALENT DOSE RANGE.  
 (From 1982 till April 1997 SIEVERT UNIT was used for this concept.)  
 USE radiation dose units  
 USE si units

**sievert unit**

1997-06-05  
 See also DOSE EQUIVALENTS.  
 (From May 1981 until June 1997 this was a valid descriptor.)  
 USE radiation dose units  
 USE si units

**sigma-1193 resonances**

INIS: 1987-12-21; ETDE: 2002-06-13  
 SEE sigma minus particles  
 SEE sigma neutral particles  
 SEE sigma plus particles

**SIGMA-1385 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-26  
 (Prior to December 1987 this concept was indexed by SIGMA-1385 RESONANCES.)  
 UF sigma-1385 resonances  
 \*BT1 sigma baryons

**sigma-1385 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE sigma-1385 baryons

**sigma-1640 resonances**

2000-04-12  
 (Prior to August 1988 this was a valid ETDE descriptor.)  
 SEE sigma baryons

**SIGMA-1660 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-03  
 (Prior to December 1987 this concept was indexed by SIGMA-1660 RESONANCES.)  
 UF sigma-1660 resonances  
 \*BT1 sigma baryons

**sigma-1660 resonances**

INIS: 1987-12-21; ETDE: 1977-04-12  
 (Prior to December 1987 this was a valid descriptor.)  
 USE sigma-1660 baryons

**SIGMA-1670 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-03  
 (Prior to December 1987 this concept was indexed by SIGMA-1670 RESONANCES.)  
 UF sigma-1670 resonances  
 \*BT1 sigma baryons

**sigma-1670 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE sigma-1670 baryons

**SIGMA-1750 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-03  
 (Prior to December 1987 this concept was indexed by SIGMA-1750 RESONANCES.)  
 UF sigma-1750 resonances  
 \*BT1 sigma baryons

**sigma-1750 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE sigma-1750 baryons

**sigma-1765 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE sigma-1775 baryons

**SIGMA-1770 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-03  
 \*BT1 sigma baryons

**SIGMA-1775 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-03  
 (Prior to December 1987 this concept was indexed by SIGMA-1765 RESONANCES.)  
 UF sigma-1765 resonances  
 \*BT1 sigma baryons

**sigma-1910 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE sigma-1915 baryons

**SIGMA-1915 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-03  
 (Prior to December 1987 this concept was indexed by SIGMA-1910 RESONANCES.)  
 UF sigma-1910 resonances  
 \*BT1 sigma baryons

**SIGMA-1940 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-03  
 (Prior to December 1987 this concept was indexed by SIGMA-1940 RESONANCES.)  
 UF sigma-1940 resonances  
 \*BT1 sigma baryons

**sigma-1940 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE sigma-1940 baryons

**SIGMA-2030 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-07  
 (Prior to December 1987 this concept was indexed by SIGMA-2030 RESONANCES.)  
 UF sigma-2030 resonances  
 \*BT1 sigma baryons

**sigma-2030 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE sigma-2030 baryons

**sigma-2430 resonances**

INIS: 1987-12-21; ETDE: 1979-09-26  
 (Prior to December 1987 this was a valid descriptor.)  
 USE sigma c-2455 baryons

**SIGMA-2455 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-07*  
(Prior to December 1987 this concept was indexed by SIGMA-2455 RESONANCES.)

*UF sigma-2455 resonances*  
\*BT1 sigma baryons

**sigma-2455 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)

USE sigma-2455 baryons

**sigma-410 resonances**

2000-04-12  
(Prior to August 1988 this was a valid ETDE descriptor.)

USE sigma model

**SIGMA BARYONS**

*INIS: 1995-07-17; ETDE: 1988-02-26*

*SF sigma-1640 resonances*

\*BT1 hyperons

**NT1** sigma-1385 baryons

**NT1** sigma-1660 baryons

**NT1** sigma-1670 baryons

**NT1** sigma-1750 baryons

**NT1** sigma-1770 baryons

**NT1** sigma-1775 baryons

**NT1** sigma-1915 baryons

**NT1** sigma-1940 baryons

**NT1** sigma-2030 baryons

**NT1** sigma-2455 baryons

**NT1** sigma particles

**NT2** antisigma particles

**NT2** sigma minus particles

**NT2** sigma neutral particles

**NT2** sigma plus particles

**sigma c-2450 baryons**

*INIS: 1995-08-07; ETDE: 1988-02-19*

(From December 1987 until July 1995 this was a valid term.)

USE sigma c-2455 baryons

**SIGMA C-2455 BARYONS**

1995-08-07

(Until December 1987 this concept was indexed by SIGMA-2430 RESONANCES; from then until July 1995 it was indexed by SIGMA C-2450 BARYONS.)

*UF sigma-2430 resonances*

*UF sigma c-2450 baryons*

\*BT1 charmed baryons

**sigma minus**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE sigma minus particles

**sigma-minus atoms**

USE hadronic atoms

**SIGMA MINUS PARTICLES**

*INIS: 1987-12-21; ETDE: 1988-02-26*

(Prior to December 1987 this concept was indexed by SIGMA MINUS.)

*UF sigma minus*

*SF sigma-1193 resonances*

\*BT1 sigma particles

**SIGMA MODEL**

1995-07-17

*UF sigma-410 resonances*

\*BT1 boson-exchange models

*RT pseudoscalar mesons*

*RT scalar mesons*

**sigma neutral**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE sigma neutral particles

**SIGMA NEUTRAL PARTICLES**

*INIS: 1987-12-21; ETDE: 1988-02-26*

(Prior to December 1987 this concept was indexed by SIGMA NEUTRAL.)

*UF sigma neutral*

*SF sigma-1193 resonances*

\*BT1 sigma particles

**SIGMA PARTICLE BEAMS**

\*BT1 hyperon beams

**SIGMA PARTICLES**

\*BT1 sigma baryons

**NT1** antisigma particles

**NT1** sigma minus particles

**NT1** sigma neutral particles

**NT1** sigma plus particles

**SIGMA PILES**

*RT moderators*

*RT neutron sources*

**sigma plus**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE sigma plus particles

**SIGMA PLUS PARTICLES**

*INIS: 1987-12-21; ETDE: 1988-02-26*

(Prior to December 1987 this concept was indexed by SIGMA PLUS.)

*UF sigma plus*

*SF sigma-1193 resonances*

\*BT1 sigma particles

**SIGMA TERMS**

\*BT1 current commutators

**sigmalog**

*INIS: 2000-04-12; ETDE: 1979-04-11*

SEE mwd systems

**SIGNAL CONDITIONERS**

*INIS: 2000-04-12; ETDE: 1984-07-20*

\*BT1 pulse circuits

**NT1** digitizers

**NT2** cathode ray tube digitizers

**NT2** flying spot digitizers

**NT2** scanning measuring projectors

**NT2** spiral reader digitizers

**NT1** pulse shapers

*RT signal conditioning*

*RT signals*

**SIGNAL CONDITIONING**

*INIS: 1986-04-03; ETDE: 1984-07-20*

*Processing of the form or mode of a signal to make it compatible with a given device.*

*RT data transmission*

*RT digitizers*

*RT pulse shapers*

*RT signal conditioners*

*RT signals*

**SIGNAL DISTORTION**

1976-03-25

*RT data transmission*

*RT electromagnetic radiation*

*RT radiowave radiation*

*RT signals*

*RT sound waves*

**SIGNAL-TO-NOISE RATIO**

*INIS: 1986-04-04; ETDE: 1980-10-28*

(Prior to April 1986 NOISE was used for this concept.)

*BT1 dimensionless numbers*

*RT accuracy*

*RT noise*

*RT resolution*

*RT signals*

**SIGNALS**

*RT communications*

*RT data transmission*

*RT pulses*

*RT signal conditioners*

*RT signal conditioning*

*RT signal distortion*

*RT signal-to-noise ratio*

**SILANES**

*UF silicon hydrides*

\*BT1 hydrides

\*BT1 organic silicon compounds

*BT1 silicon compounds*

**SILASTIC**

\*BT1 rubbers

\*BT1 silicones

**SILENE REACTOR**

*INIS: 1982-06-09; ETDE: 1982-07-08*

*Final shutdown has been performed.*

*Decommissioning planned.*

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 zero power reactors

**silex process**

2001-03-06

USE laser isotope separation

**SILICA**

*INIS: 1999-09-17; ETDE: 1993-08-31*

*The mineral form of silicon dioxide, SiO(sub 2).*

\*BT1 oxide minerals

**NT1** opals

*RT silicon oxides*

**SILICA GEL**

*BT1 adsorbents*

*RT adsorption*

*RT ion exchange materials*

*RT silicon oxides*

**SILICATE MINERALS**

*INIS: 1996-11-13; ETDE: 1982-05-12*

(The UF terms below have been valid ETDE descriptors.)

*UF boltwoodite*

*UF catapleite*

*UF cerite*

*UF cuprosklodowskite*

*UF cyrtolite*

*UF elpidite*

*UF eudialyte*

*UF huttonite*

*UF pyroxenes*

*UF steenstrupine*

*UF thorogummite*

*UF uranotile*

*UF yttrialite*

*BT1 minerals*

**NT1** alamosite

**NT1** allanite

**NT1** alvite

**NT1** amphibole

**NT2** hornblende

**NT1** beryl

**NT1** chlorite minerals

**NT1** clays

**NT2** attapulgite  
**NT2** bentonite  
**NT2** boom clay  
**NT2** clinoptilolite  
**NT2** fullers earth  
**NT2** illite  
**NT2** kaolin  
**NT2** montmorillonite  
**NT2** opalinus clay  
**NT2** sepiolite  
**NT2** smectite  
**NT1** coffinite  
**NT1** cristobalite  
**NT1** diopside  
**NT1** ekanite  
**NT1** enstatite  
**NT1** epidotes  
**NT1** feldspars  
**NT2** anorthite  
**NT2** orthoclase  
**NT1** freyelite  
**NT1** garnets  
**NT1** hedenbergite  
**NT1** helvite  
**NT1** hydrothorite  
**NT1** ilvaite  
**NT1** kainosite  
**NT1** kaolinite  
**NT1** lavenerite  
**NT1** lovozerite  
**NT1** mackintoshite  
**NT1** maitlandite  
**NT1** mesodialyte  
**NT1** mica  
**NT2** biotite  
**NT2** muscovite  
**NT2** vermiculite  
**NT1** olivine  
**NT1** petalite  
**NT1** pollucite  
**NT1** pyrophyllite  
**NT1** ranquillite  
**NT1** serpentine  
**NT1** sklodowskite  
**NT1** soddyite  
**NT1** talc  
**NT1** thorite  
**NT2** jiningite  
**NT1** titanite  
**NT1** tourmaline  
**NT1** uranophane  
**NT1** uranothorite  
**NT1** zeolites  
**NT2** clinoptilolite  
**NT2** faujasite  
**NT2** heulandite  
**NT2** laumontite  
**NT2** mordenite  
**NT2** wairakite  
**NT1** zircon  
**RT** aluminium silicates  
**RT** beryllium silicates  
**RT** boron silicates  
**RT** calcium silicates  
**RT** cerium silicates  
**RT** gabbros  
**RT** iron silicates  
**RT** kimberlites  
**RT** lava  
**RT** magnesium silicates  
**RT** manganese silicates  
**RT** niobium silicates  
**RT** peridotites  
**RT** potassium silicates  
**RT** quartz  
**RT** silicon oxides  
**RT** sodium silicates  
**RT** thorium silicates  
**RT** titanium silicates

**RT** uranium silicates  
**RT** yttrium silicates  
**RT** zirconium silicates

**SILICATES**

1997-06-19

**UF** acid silicates  
**SF** gadolinite  
**BT1** oxygen compounds  
**BT1** silicon compounds  
**NT1** aluminium silicates  
**NT1** americium silicates  
**NT1** barium silicates  
**NT1** beryllium silicates  
**NT1** boron silicates  
**NT1** cadmium silicates  
**NT1** calcium silicates  
**NT1** cerium silicates  
**NT1** cesium silicates  
**NT1** chromium silicates  
**NT1** cobalt silicates  
**NT1** copper silicates  
**NT1** curium silicates  
**NT1** dysprosium silicates  
**NT1** europium silicates  
**NT1** germanium silicates  
**NT1** hafnium silicates  
**NT1** holmium silicates  
**NT1** hydrogen silicates  
**NT1** indium silicates  
**NT1** iron silicates  
**NT1** lanthanum silicates  
**NT1** lead silicates  
**NT1** lithium silicates  
**NT1** lutetium silicates  
**NT1** magnesium silicates  
**NT1** manganese silicates  
**NT1** molybdenum silicates  
**NT1** neodymium silicates  
**NT1** nickel silicates  
**NT1** niobium silicates  
**NT1** plutonium silicates  
**NT1** potassium silicates  
**NT1** praseodymium silicates  
**NT1** radium silicates  
**NT1** rubidium silicates  
**NT1** samarium silicates  
**NT1** scandium silicates  
**NT1** sodium silicates  
**NT1** strontium silicates  
**NT1** tantalum silicates  
**NT1** thorium silicates  
**NT1** thulium silicates  
**NT1** titanium silicates  
**NT1** uranium silicates  
**NT1** uranyl silicates  
**NT1** vanadium silicates  
**NT1** ytterbium silicates  
**NT1** yttrium silicates  
**NT1** zinc silicates  
**NT1** zirconium silicates  
**RT** silicon oxides

**SILICENE**

2015-06-22

**\*BT1** silicon  
**RT** hexagonal systems

**siliceous rock**

INIS: 2000-04-12; ETDE: 1984-02-23

USE sandstones

**SILICIC ACID**

Prior to August 2012 the concept "hydrogen silicides" was indexed here.

**\*BT1** inorganic acids  
**BT1** oxygen compounds  
**BT1** silicon compounds  
**RT** hydrogen silicates

**silicic acid esters**

INIS: 2000-04-12; ETDE: 1986-03-04

USE organic silicon compounds

**SILICIDES**

1997-06-19

**BT1** silicon compounds  
**NT1** aluminium silicides  
**NT1** americium silicides  
**NT1** boron silicides  
**NT1** calcium silicides  
**NT1** cerium silicides  
**NT1** cesium silicides  
**NT1** chromium silicides  
**NT1** cobalt silicides  
**NT1** copper silicides  
**NT1** dysprosium silicides  
**NT1** erbium silicides  
**NT1** europium silicides  
**NT1** gadolinium silicides  
**NT1** germanium silicides  
**NT1** gold silicides  
**NT1** hafnium silicides  
**NT1** holmium silicides  
**NT1** iridium silicides  
**NT1** iron silicides  
**NT1** lanthanum silicides  
**NT1** lithium silicides  
**NT1** lutetium silicides  
**NT1** magnesium silicides  
**NT1** manganese silicides  
**NT1** molybdenum silicides  
**NT1** neodymium silicides  
**NT1** nickel silicides  
**NT1** niobium silicides  
**NT1** palladium silicides  
**NT1** platinum silicides  
**NT1** potassium silicides  
**NT1** praseodymium silicides  
**NT1** rhenium silicides  
**NT1** rhodium silicides  
**NT1** rubidium silicides  
**NT1** ruthenium silicides  
**NT1** samarium silicides  
**NT1** scandium silicides  
**NT1** sodium silicides  
**NT1** tantalum silicides  
**NT1** terbium silicides  
**NT1** thorium silicides  
**NT1** thulium silicides  
**NT1** titanium silicides  
**NT1** tungsten silicides  
**NT1** uranium silicides  
**NT1** vanadium silicides  
**NT1** ytterbium silicides  
**NT1** yttrium silicides  
**NT1** zinc silicides  
**NT1** zirconium silicides  
**RT** intermetallic compounds  
**RT** silicon additions  
**RT** silicon alloys

**SILICON**

**\*BT1** semimetals  
**NT1** silicene

**SILICON 22**

INIS: 1987-11-02; ETDE: 1987-12-23

**\*BT1** even-even nuclei  
**\*BT1** light nuclei  
**\*BT1** silicon isotopes

**SILICON 23**

INIS: 1986-08-19; ETDE: 1984-05-08

**\*BT1** even-odd nuclei  
**\*BT1** light nuclei  
**\*BT1** silicon isotopes

**SILICON 24**

\*BT1 beta-plus decay radioisotopes

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 25**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 26**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 27**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 28**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes
- \*BT1 stable isotopes
- RT silicon 28 beams
- RT silicon 28 reactions

**SILICON 28 BEAMS**

- \*BT1 ion beams
- RT silicon 28

**SILICON 28 REACTIONS**

- \*BT1 heavy ion reactions
- RT silicon 28

**SILICON 28 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**SILICON 29**

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes
- \*BT1 stable isotopes
- RT silicon 29 beams
- RT silicon 29 reactions

**SILICON 29 BEAMS**

- INIS: 1991-03-22; ETDE: 1991-04-09
- \*BT1 ion beams
- RT silicon 29

**SILICON 29 REACTIONS**

- INIS: 1978-04-21; ETDE: 1978-07-06
- \*BT1 heavy ion reactions
- RT silicon 29

**SILICON 29 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**SILICON 30**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes
- \*BT1 stable isotopes

**SILICON 30 REACTIONS**

- INIS: 1980-02-26; ETDE: 1980-03-29
- \*BT1 heavy ion reactions

**SILICON 30 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**SILICON 31**

- \*BT1 beta-minus decay radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 32**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes
- \*BT1 years living radioisotopes

**SILICON 32 DECAY RADIOISOTOPES**

- INIS: 1990-01-30; ETDE: 1990-02-13
- \*BT1 heavy ion decay radioisotopes
- NT1 plutonium 238
- RT silicon 32 emission decay

**SILICON 32 EMISSION DECAY**

- INIS: 1990-01-30; ETDE: 1990-02-13
- \*BT1 heavy ion emission decay
- RT silicon 32 decay radioisotopes

**SILICON 32 TARGET**

- INIS: 1981-07-06; ETDE: 1981-08-04
- BT1 targets

**SILICON 33**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 34**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 34 EMISSION DECAY**

- INIS: 1989-10-27; ETDE: 1989-11-21
- \*BT1 heavy ion emission decay

**SILICON 34 TARGET**

- INIS: 1992-09-23; ETDE: 1985-05-31
- BT1 targets

**SILICON 35**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 36**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 37**

- INIS: 1979-09-18; ETDE: 1979-10-23
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 38**

- INIS: 1980-07-24; ETDE: 1980-02-11
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 39**

- INIS: 1980-07-24; ETDE: 1980-02-11
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei

- \*BT1 silicon isotopes

**SILICON 40**

- INIS: 1989-09-14; ETDE: 1989-10-16
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 41**

- INIS: 1989-09-14; ETDE: 1989-10-16
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 silicon isotopes

**SILICON 42**

- INIS: 1979-02-21; ETDE: 1979-03-28
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 silicon isotopes

**SILICON 43**

- 2007-12-21
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 silicon isotopes

**SILICON 44**

- 2007-12-21
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 silicon isotopes

**SILICON ADDITIONS**

- 1996-11-13
- Alloys containing not more than 1% Si are listed here.

- \*BT1 silicon alloys
- NT1 alloy-al95cu4
- NT2 duralumin
- NT1 alloy-fe40ni35cr22
- NT1 alloy-hs-31
- NT1 alloy-n28t3
- NT1 alloy-ni78cr21
- NT1 alloy-ni80cr20
- NT1 alloy-ni94mn3al2
- NT2 alumel
- NT1 alloy-s-816
- NT1 alloy-v-36
- NT1 aludur
- NT1 ascology
- NT1 bondur
- NT1 discaloy
- NT1 duranickel
- NT1 miduale
- NT1 ni-hard
- NT1 stainless steel-zcnd17-13
- NT1 steel-cr16ni9mo2
- RT silicides

**SILICON ALLOYS**

- 1996-11-13
- Alloys containing more than 1% Si.

- UF sichromal alloys
- BT1 alloys
- NT1 alloy-mo-re-1
- NT1 alloy-ni50mo32cr15si3
- NT1 alloy-ra-333
- NT1 cast iron
- NT1 colmonoy
- NT1 duriron
- NT1 silicon additions
- NT2 alloy-al95cu4
- NT3 duralumin
- NT2 alloy-fe40ni35cr22
- NT2 alloy-hs-31
- NT2 alloy-n28t3
- NT2 alloy-ni78cr21
- NT2 alloy-ni80cr20
- NT2 alloy-ni94mn3al2

NT3 alumel  
 NT2 alloy-s-816  
 NT2 alloy-v-36  
 NT2 aludur  
 NT2 ascology  
 NT2 bondur  
 NT2 discaloy  
 NT2 duranickel  
 NT2 miduale  
 NT2 ni-hard  
 NT2 stainless steel-zcnd17-13  
 NT2 steel-cr16ni9mo2  
 NT1 supertherm  
 NT1 tribaloy 800  
 RT silicides

**SILICON ARSENIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

\*BT1 solar cells

**SILICON ARSENIDES**

INIS: 1979-09-18; ETDE: 1977-06-02

\*BT1 arsenides

BT1 silicon compounds

**SILICON BORIDES**

\*BT1 borides

BT1 silicon compounds

**SILICON BROMIDES**

\*BT1 bromides

\*BT1 silicon halides

**SILICON CARBIDES**

\*BT1 carbides

BT1 silicon compounds

**SILICON CHLORIDES**

\*BT1 chlorides

\*BT1 silicon halides

**SILICON COMPLEXES**

BT1 complexes

**SILICON COMPOUNDS**

See also SILANES, SILOXANES and SILICONES.

NT1 silanes

NT1 silicates

NT2 aluminium silicates  
 NT2 americium silicates  
 NT2 barium silicates  
 NT2 beryllium silicates  
 NT2 boron silicates  
 NT2 cadmium silicates  
 NT2 calcium silicates  
 NT2 cerium silicates  
 NT2 cesium silicates  
 NT2 chromium silicates  
 NT2 cobalt silicates  
 NT2 copper silicates  
 NT2 curium silicates  
 NT2 dysprosium silicates  
 NT2 europium silicates  
 NT2 germanium silicates  
 NT2 hafnium silicates  
 NT2 holmium silicates  
 NT2 hydrogen silicates  
 NT2 indium silicates  
 NT2 iron silicates  
 NT2 lanthanum silicates  
 NT2 lead silicates  
 NT2 lithium silicates  
 NT2 lutetium silicates  
 NT2 magnesium silicates  
 NT2 manganese silicates  
 NT2 molybdenum silicates  
 NT2 neodymium silicates  
 NT2 nickel silicates  
 NT2 niobium silicates  
 NT2 plutonium silicates  
 NT2 potassium silicates

NT2 praseodymium silicates  
 NT2 radium silicates  
 NT2 rubidium silicates  
 NT2 samarium silicates  
 NT2 scandium silicates  
 NT2 sodium silicates  
 NT2 strontium silicates  
 NT2 tantalum silicates  
 NT2 thorium silicates  
 NT2 thulium silicates  
 NT2 titanium silicates  
 NT2 uranium silicates  
 NT2 uranyl silicates  
 NT2 vanadium silicates  
 NT2 ytterbium silicates  
 NT2 yttrium silicates  
 NT2 zinc silicates  
 NT2 zirconium silicates  
 NT1 silicic acid  
 NT1 silicides  
 NT2 aluminium silicides  
 NT2 americium silicides  
 NT2 boron silicides  
 NT2 calcium silicides  
 NT2 cerium silicides  
 NT2 cesium silicides  
 NT2 chromium silicides  
 NT2 cobalt silicides  
 NT2 copper silicides  
 NT2 dysprosium silicides  
 NT2 erbium silicides  
 NT2 europium silicides  
 NT2 gadolinium silicides  
 NT2 germanium silicides  
 NT2 gold silicides  
 NT2 hafnium silicides  
 NT2 holmium silicides  
 NT2 iridium silicides  
 NT2 iron silicides  
 NT2 lanthanum silicides  
 NT2 lithium silicides  
 NT2 lutetium silicides  
 NT2 magnesium silicides  
 NT2 manganese silicides  
 NT2 molybdenum silicides  
 NT2 neodymium silicides  
 NT2 nickel silicides  
 NT2 niobium silicides  
 NT2 palladium silicides  
 NT2 platinum silicides  
 NT2 potassium silicides  
 NT2 praseodymium silicides  
 NT2 rhenium silicides  
 NT2 rhodium silicides  
 NT2 rubidium silicides  
 NT2 ruthenium silicides  
 NT2 samarium silicides  
 NT2 scandium silicides  
 NT2 sodium silicides  
 NT2 tantalum silicides  
 NT2 terbium silicides  
 NT2 thorium silicides  
 NT2 thulium silicides  
 NT2 titanium silicides  
 NT2 tungsten silicides  
 NT2 uranium silicides  
 NT2 vanadium silicides  
 NT2 ytterbium silicides  
 NT2 yttrium silicides  
 NT2 zinc silicides  
 NT2 zirconium silicides  
 NT1 silicon arsenides  
 NT1 silicon borides  
 NT1 silicon carbides  
 NT1 silicon halides  
 NT2 silicon bromides  
 NT2 silicon chlorides  
 NT2 silicon fluorides  
 NT2 silicon iodides

NT1 silicon hydroxides  
 NT1 silicon nitrides  
 NT1 silicon oxides  
 NT1 silicon phosphates  
 NT1 silicon phosphides  
 NT1 silicon sulfides  
 NT1 silicon tellurides  
 RT organic silicon compounds

**SILICON DIODES**

\*BT1 semiconductor diodes

**SILICON FLUORIDES**

\*BT1 fluorides

\*BT1 silicon halides

**SILICON HALIDES**

INIS: 1991-09-16; ETDE: 1978-02-15

\*BT1 halides

BT1 silicon compounds

NT1 silicon bromides

NT1 silicon chlorides

NT1 silicon fluorides

NT1 silicon iodides

**silicon hydrides**

USE silanes

**SILICON HYDROXIDES**

\*BT1 hydroxides

BT1 silicon compounds

**SILICON IODIDES**

\*BT1 iodides

\*BT1 silicon halides

**SILICON IONS**

\*BT1 ions

**SILICON ISOTOPES**

1999-07-16

BT1 isotopes

NT1 silicon 22

NT1 silicon 23

NT1 silicon 24

NT1 silicon 25

NT1 silicon 26

NT1 silicon 27

NT1 silicon 28

NT1 silicon 29

NT1 silicon 30

NT1 silicon 31

NT1 silicon 32

NT1 silicon 33

NT1 silicon 34

NT1 silicon 35

NT1 silicon 36

NT1 silicon 37

NT1 silicon 38

NT1 silicon 39

NT1 silicon 40

NT1 silicon 41

NT1 silicon 42

NT1 silicon 43

NT1 silicon 44

**SILICON NITRIDES**

UF sialon

\*BT1 nitrides

BT1 silicon compounds

**silicon on ceramic solar cells**

INIS: 2000-04-12; ETDE: 1981-07-18

USE soc solar cells

**SILICON OXIDES**

1998-11-03

UF coesite

\*BT1 oxides

BT1 silicon compounds

RT cristobalite

RT glass



RT oxide minerals  
 RT quartz  
 RT rhyolites  
 RT sand  
 RT silica  
 RT silica gel  
 RT silicate minerals  
 RT silicates  
 RT siloxanes  
 RT stishovite

**SILICON PHOSPHATES**

\*BT1 phosphates  
 BT1 silicon compounds

**SILICON PHOSPHIDES**

INIS: 1978-04-21; ETDE: 1978-07-06  
 \*BT1 phosphides  
 BT1 silicon compounds

**silicon semiconductor detectors**

INIS: 2000-04-12; ETDE: 1978-12-28  
 USE si semiconductor detectors

**SILICON SOLAR CELLS**

1997-06-19  
 \*BT1 solar cells  
 NT1 soc solar cells

**SILICON SULFIDES**

BT1 silicon compounds  
 \*BT1 sulfides

**SILICON TELLURIDES**

2013-05-15  
 BT1 silicon compounds  
 \*BT1 tellurides

**SILICONES**

1996-06-26  
 (Prior to June 1996 DC RESINS was a valid ETDE descriptor.)  
 UF dc resins  
 BT1 polymers  
 \*BT1 siloxanes  
 NT1 silastic

**siliconizing**

USE diffusion coating

**silicosis**

USE pneumoconioses

**SILKWORM**

UF bombyx  
 \*BT1 moths

**SILOE REACTOR**

CEA/CEN Grenoble, Grenoble, France.  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**SILOETTE REACTOR**

Decommissioned since 2007.  
 UF grenoble reactor melusine-2  
 UF melusine-2 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**SILOXANES**

\*BT1 organic silicon compounds  
 NT1 silicones  
 NT2 silastic  
 RT silicon oxides

**SILT**

RT sediments  
 RT shales

**SILTSTONES**

INIS: 1992-05-21; ETDE: 1984-07-20  
 \*BT1 sedimentary rocks  
 RT sandstones  
 RT shales

**SILURIAN PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19  
 \*BT1 paleozoic era

**SILVER**

\*BT1 transition elements

**SILVER 100**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 silver isotopes

**SILVER 101**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 silver isotopes

**SILVER 102**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 silver isotopes

**SILVER 103**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 silver isotopes

**SILVER 104**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 silver isotopes

**SILVER 105**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 silver isotopes

**SILVER 106**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 silver isotopes

**SILVER 106 TARGET**

INIS: 1986-01-21; ETDE: 1986-02-21  
 BT1 targets

**SILVER 107**

\*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 silver isotopes  
 \*BT1 stable isotopes

**SILVER 107 BEAMS**

\*BT1 ion beams

**SILVER 107 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**SILVER 108**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 silver isotopes  
 \*BT1 years living radioisotopes

**SILVER 108 TARGET**

INIS: 1977-02-08; ETDE: 1976-09-21  
 BT1 targets

**SILVER 109**

\*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 silver isotopes  
 \*BT1 stable isotopes

**SILVER 109 REACTIONS**

INIS: 1986-05-12; ETDE: 1988-12-05  
 \*BT1 heavy ion reactions

**SILVER 109 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**SILVER 110**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 silver isotopes

**SILVER 110 TARGET**

INIS: 1992-09-23; ETDE: 1984-02-10  
 BT1 targets

**SILVER 111**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 silver isotopes

**SILVER 112**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 silver isotopes

**SILVER 113**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 114**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 115**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 116**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 117**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 118**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 119**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 120**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 121**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 122**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 123**

- INIS: 1976-07-30; ETDE: 1976-04-19*
- \*BT1 beta-minus decay radioisotopes

- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 124**

- 2008-01-16*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 intermediate mass nuclei
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 silver isotopes

**SILVER 125**

- 2008-01-16*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 intermediate mass nuclei
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 silver isotopes

**SILVER 126**

- 2008-01-16*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 intermediate mass nuclei
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 silver isotopes

**SILVER 127**

- 2008-01-16*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 intermediate mass nuclei
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 silver isotopes

**SILVER 128**

- 2008-01-16*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 intermediate mass nuclei
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 silver isotopes

**SILVER 129**

- 2008-01-16*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 intermediate mass nuclei
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 silver isotopes

**SILVER 130**

- 2008-01-16*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 intermediate mass nuclei
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 silver isotopes

**SILVER 93**

- 2008-01-16*
- \*BT1 electron capture radioisotopes
  - \*BT1 intermediate mass nuclei
  - \*BT1 odd-even nuclei
  - \*BT1 silver isotopes

**SILVER 94**

- 2002-08-13*
- \*BT1 beta-plus decay radioisotopes
  - \*BT1 intermediate mass nuclei
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 silver isotopes

**SILVER 95**

- INIS: 1984-06-21; ETDE: 1983-10-11*
- \*BT1 electron capture radioisotopes
  - \*BT1 intermediate mass nuclei
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-even nuclei

- \*BT1 silver isotopes

**SILVER 96**

- 1982-06-09*
- \*BT1 beta-plus decay radioisotopes
  - \*BT1 electron capture radioisotopes
  - \*BT1 intermediate mass nuclei
  - \*BT1 odd-odd nuclei
  - \*BT1 seconds living radioisotopes
  - \*BT1 silver isotopes

**SILVER 97**

- INIS: 1979-02-21; ETDE: 1979-03-28*
- \*BT1 electron capture radioisotopes
  - \*BT1 intermediate mass nuclei
  - \*BT1 odd-even nuclei
  - \*BT1 seconds living radioisotopes
  - \*BT1 silver isotopes

**SILVER 98**

- INIS: 1979-02-21; ETDE: 1979-03-28*
- \*BT1 beta-plus decay radioisotopes
  - \*BT1 electron capture radioisotopes
  - \*BT1 intermediate mass nuclei
  - \*BT1 odd-odd nuclei
  - \*BT1 seconds living radioisotopes
  - \*BT1 silver isotopes

**SILVER 99**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER ADDITIONS**

- Alloys containing not more than 1% Ag are listed here.*
- \*BT1 silver alloys

**SILVER ALLOYS**

- 1995-02-27*
- Alloys containing more than 1% Ag.*
- UF alloy-ge*
- \*BT1 transition element alloys
  - NT1 silver additions
  - NT1 silver base alloys

**SILVER ARSENIDES**

- INIS: 2000-04-12; ETDE: 1979-08-09*
- \*BT1 arsenides
  - \*BT1 silver compounds

**SILVER BASE ALLOYS**

- \*BT1 silver alloys

**SILVER BROMIDES**

- \*BT1 bromides
- \*BT1 silver halides

**SILVER-CADMIUM BATTERIES**

- 2000-04-12*
- \*BT1 metal-metal oxide batteries

**SILVER CARBONATES**

- 1996-07-08*
- (From June 1996 to November 2007 SILVER COMPOUNDS + CARBONATES was used for this concept.)*
- \*BT1 carbonates
  - \*BT1 silver compounds

**SILVER CHLORIDES**

- \*BT1 chlorides
- \*BT1 silver halides

**SILVER COMPLEXES**

- \*BT1 transition element complexes

**SILVER COMPOUNDS**

1997-06-19

- BT1 transition element compounds
- NT1 silver arsenides
- NT1 silver carbonates
- NT1 silver halides
  - NT2 silver bromides
  - NT2 silver chlorides
  - NT2 silver fluorides
  - NT2 silver iodides
- NT1 silver hydrides
- NT1 silver hydroxides
- NT1 silver nitrates
- NT1 silver nitrides
- NT1 silver oxides
- NT1 silver perchlorates
- NT1 silver phosphates
- NT1 silver selenides
- NT1 silver sulfates
- NT1 silver sulfides
- NT1 silver tellurides
- NT1 silver tungstates

**SILVER FLUORIDES**

- \*BT1 fluorides
- \*BT1 silver halides

**SILVER HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 silver compounds
- NT1 silver bromides
- NT1 silver chlorides
- NT1 silver fluorides
- NT1 silver iodides

**SILVER HYDRIDES**

1979-09-18

- \*BT1 hydrides
- \*BT1 silver compounds

**SILVER-HYDROGEN BATTERIES**

INIS: 2000-04-12; ETDE: 1980-03-29

- \*BT1 metal-gas batteries

**SILVER HYDROXIDES**

2000-04-12

- \*BT1 hydroxides
- \*BT1 silver compounds

**SILVER IODIDES**

- \*BT1 iodides
- \*BT1 silver halides

**SILVER IONS**

- \*BT1 ions

**SILVER ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 silver 100
- NT1 silver 101
- NT1 silver 102
- NT1 silver 103
- NT1 silver 104
- NT1 silver 105
- NT1 silver 106
- NT1 silver 107
- NT1 silver 108
- NT1 silver 109
- NT1 silver 110
- NT1 silver 111
- NT1 silver 112
- NT1 silver 113
- NT1 silver 114
- NT1 silver 115
- NT1 silver 116
- NT1 silver 117
- NT1 silver 118
- NT1 silver 119
- NT1 silver 120

- NT1 silver 121
- NT1 silver 122
- NT1 silver 123
- NT1 silver 124
- NT1 silver 125
- NT1 silver 126
- NT1 silver 127
- NT1 silver 128
- NT1 silver 129
- NT1 silver 130
- NT1 silver 93
- NT1 silver 94
- NT1 silver 95
- NT1 silver 96
- NT1 silver 97
- NT1 silver 98
- NT1 silver 99

**SILVER NITRATES**

- \*BT1 nitrates
- \*BT1 silver compounds

**SILVER NITRIDES**

- \*BT1 nitrides
- \*BT1 silver compounds

**SILVER ORES**

- BT1 ores

**SILVER OXIDES**

- \*BT1 oxides
- \*BT1 silver compounds

**SILVER PERCHLORATES**

- \*BT1 perchlorates
- \*BT1 silver compounds

**SILVER PHOSPHATES**

- \*BT1 phosphates
- \*BT1 silver compounds

**SILVER SELENIDES**

INIS: 1978-07-03; ETDE: 1976-08-04

- \*BT1 selenides
- \*BT1 silver compounds

**SILVER SULFATES**

- \*BT1 silver compounds
- \*BT1 sulfates

**SILVER SULFIDES**

- \*BT1 silver compounds
- \*BT1 sulfides

**SILVER TELLURIDES**

INIS: 1978-09-28; ETDE: 1976-02-19

- \*BT1 silver compounds
- \*BT1 tellurides

**SILVER TUNGSTATES**

INIS: 1978-05-19; ETDE: 1978-07-05

- \*BT1 silver compounds
- \*BT1 tungstates

**SILVER-ZINC BATTERIES**

2000-04-12

- \*BT1 metal-metal oxide batteries

**SILVICULTURE**

INIS: 1992-03-27; ETDE: 1988-01-15

- BT1 forestry
- RT agriculture
- RT biomass plantations
- RT harvesting
- RT plant breeding
- RT trees

**SIMIAN VIRUS**

UF sv 40 virus

- \*BT1 viruses

**simmondsia chinensis**

INIS: 2000-04-12; ETDE: 1980-11-25

- USE jojoba

**simplex process**

INIS: 2000-04-12; ETDE: 1979-10-23

Slagging, moving-burden gasification process for coal or biomass being developed at Columbia University.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE coal gasification

**sims**

INIS: 2000-04-12; ETDE: 1978-03-03

Secondary Ion Mass Spectroscopy.

- USE ion microprobe analysis
- USE mass spectroscopy

**SIMULATION**

1996-07-18

- UF modeling
- NT1 computerized simulation
- NT2 large-eddy simulation
- NT1 plasma simulation
- NT1 reactor accident simulation
- RT box models
- RT functional models
- RT mathematical models
- RT scaling laws
- RT simulators
- RT speech synthesizers
- RT systems analysis

**SIMULATORS**

- BT1 analog systems
- BT1 functional models
- NT1 reactor simulators
- NT1 solar simulators
- RT microcosms
- RT mockup
- RT scale models
- RT simulation

**simulators (reactor)**

1999-09-20

- USE reactor simulators

**SIN CYCLOTRON**

Includes the 590 MeV ring cyclotron and the two injector cyclotrons.

- UF swiss institute nuclear research cyclotron
- UF villigen cyclotron
- \*BT1 isochronous cyclotrons

**sine generators**

- USE function generators

**SINE-GORDON EQUATION**

INIS: 1977-06-14; ETDE: 1976-12-16

Field equation in two space-time dimensions defining a quantum field theory.

- \*BT1 field equations
- RT quantum field theory

**SINGAPORE**

- BT1 asia
- BT1 developing countries
- BT1 islands
- RT pacific ocean

**single administration**

- USE single intake

**SINGLE CELL PROTEIN**

INIS: 2000-04-12; ETDE: 1976-01-23

Feed and food protein derived from single-cell microorganisms grown on various resources and wastes.

- RT autotrophs
- RT continuous culture
- RT culture media
- RT proteins
- RT semibatch culture

**single crystals**

USE monocystals

**SINGLE INTAKE**

UF accidental intake  
 UF single administration  
 BT1 intake  
 RT accidents  
 RT first aid  
 RT injuries

**single-level resonance formula**

USE breit-wigner formula

**single market**

INIS: 1997-01-28; ETDE: 1995-03-08  
 USE internal market

**SINGLE-PARTICLE MODEL**

UF independent-particle model  
 \*BT1 nuclear models  
 RT atomic models  
 RT quasiparticle-phonon model  
 RT schmidt model

**SINGLE-PARTICLE MODES**

UF modes (single-particle)  
 BT1 oscillation modes

**single photon ect**

INIS: 1993-12-08; ETDE: 2002-06-13  
 USE single photon emission computed tomography

**SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY**

INIS: 1995-07-20; ETDE: 1980-05-07  
 (Until January 1994 this was spelled SINGLE PHOTON ECT.)

UF single photon ect  
 UF spect  
 \*BT1 emission computed tomography  
 RT gamma cameras  
 RT photon transmission scanning  
 RT radioisotope scanning

**SINGULARITY**

UF residues (mathematical)  
 RT functions  
 RT landau curves  
 RT s matrix  
 RT scattering amplitudes

**SINKS**

INIS: 2000-04-12; ETDE: 1979-12-10  
 Points, lines, or areas at which mass or energy is removed from a system.

NT1 carbon sinks  
 NT1 heat sinks  
 RT absorption  
 RT diffusion  
 RT environmental transport

**sino united spherical tokamak**

2006-07-25  
 USE sunist spheromak

**SINP TOKAMAK**

1994-06-29  
 Saha Institute of Nuclear Physics, Calcutta, India.  
 \*BT1 tokamak devices

**sinq**

2016-06-09  
 USE swiss spallation neutron source

**SINTERED ALUMINIUM POWDERS**

ETDE: 2005-02-01  
 (Prior to January 2005 SAP was used for this concept.)  
 UF sap (sintered aluminium powders)

\*BT1 sintered materials  
 RT aluminium

**SINTERED MATERIALS**

BT1 materials  
 NT1 sintered aluminium powders  
 RT powder metallurgy  
 RT powders  
 RT sintering

**SINTERING**

UF liquid-phase sintering  
 BT1 fabrication  
 RT agglomeration  
 RT furnaces  
 RT porosity  
 RT powder metallurgy  
 RT sintered materials

**SINTERS**

INIS: 2000-04-12; ETDE: 1976-03-31  
 Chemical sedimentary rocks deposited as a hard incrustation on rocks or on the ground by precipitation from cold mineral water of springs, lakes, or streams; specifically siliceous sinter and calcareous sinter.  
 \*BT1 sedimentary rocks

**SINUSES**

INIS: 1981-05-11; ETDE: 1979-01-30  
 In anatomical nomenclature to designate a cavity or hollow space.  
 BT1 cavities  
 RT body  
 RT face  
 RT skull

**sioux falls pathfinder reactor**

USE pathfinder reactor

**siredon**

1996-11-13  
 (Prior to March 1997 AXOLOTL was used for this concept in ETDE.)  
 USE salamanders

**SIRIUS DEVICE**

\*BT1 stellarators

**sirius synchrotron**

USE tomsk synchrotron

**SIS SYNCHROTRON**

1991-02-11  
 UF darmstadt synchrotron  
 \*BT1 heavy ion accelerators  
 \*BT1 synchrotrons

**SISTER CHROMATID EXCHANGES**

INIS: 1977-10-17; ETDE: 1977-11-10  
 \*BT1 chromosomal aberrations  
 RT chromatids  
 RT genetic effects  
 RT genetic radiation effects  
 RT hereditary diseases

**SITE APPROVALS**

INIS: 1976-12-08; ETDE: 1990-11-26  
 RT licenses  
 RT nuclear facilities  
 RT property rights  
 RT reactor sites  
 RT site preparation  
 RT site selection

**SITE CHARACTERIZATION**

INIS: 1993-03-09; ETDE: 1986-04-29  
 Surveys of particular sites to establish their characteristics, e.g. hydrology, geological and topographical features, etc.  
 (Until March 1993, this concept was indexed by SITE SURVEYS.)  
 UF site surveys

RT baseline ecology  
 RT geochemistry  
 RT geographic information systems  
 RT geography  
 RT geologic surveys  
 RT geology  
 RT geomorphology  
 RT hydrology  
 RT meteorology  
 RT radiation monitoring  
 RT reactor sites  
 RT site selection  
 RT stratigraphy  
 RT topography

**SITE PREPARATION**

INIS: 1982-12-03; ETDE: 1976-07-07  
 RT reactor sites  
 RT site approvals  
 RT site selection

**site rehabilitation**

INIS: 1990-09-24; ETDE: 1990-10-09  
 USE remedial action

**SITE SELECTION**

See also descriptors for concepts involved in site selection, such as ENVIRONMENT, SEISMOLOGY and SOILS plus LIQUEFACTION.

UF reactor siting  
 BT1 reactor life cycle  
 RT accidents  
 RT archaeological sites  
 RT environment  
 RT external zones  
 RT land use  
 RT licensing  
 RT meteorology  
 RT offshore nuclear power plants  
 RT offshore sites  
 RT planning  
 RT reactor safety  
 RT reactor sites  
 RT site approvals  
 RT site characterization  
 RT site preparation  
 RT vernacular architecture

**site surveys**

INIS: 1993-03-09; ETDE: 1980-10-27  
 (Prior to March 1993 this was a valid ETDE descriptor.)  
 USE site characterization

**sites (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-06-13  
 USE reactor sites

**sites (nuclear installations)**

INIS: 1976-12-08; ETDE: 2002-06-13  
 If appropriate use one of the specific types of facilities.  
 USE nuclear facilities

**sites (reactor)**

2000-04-12  
 USE reactor sites

**SITOSTEROL**

\*BT1 sterols

**SIZE**

(From December 1981 till May 1996 SIZING was a valid ETDE descriptor.)

UF sizing  
 NT1 critical size  
 NT1 grain size  
 NT1 particle size  
 RT dimensions  
 RT thickness

RT volume  
RT width

**SIZEWELL-A REACTOR**

*Sizewell, Suffolk, United Kingdom. SIZEWELL A-1 and A-2*

UF *sizewell nuclear power station a*  
\*BT1 carbon dioxide cooled reactors  
\*BT1 magnox type reactors  
\*BT1 thermal reactors

**SIZEWELL-B REACTOR**

*Sizewell, Suffolk, United Kingdom. UF sizewell nuclear power station b*  
\*BT1 pwr type reactors

**sizewell nuclear power station a**

1998-11-04  
USE sizewell-a reactor

**sizewell nuclear power station b**

1998-11-04  
USE sizewell-b reactor

**sizing**

INIS: 2000-04-12; ETDE: 1981-12-14  
(Prior to May 1996 this was a valid ETDE descriptor.)  
USE size

**SKAGIT-1 REACTOR**

*Puget Sound Power and Light Co., Sedro Woolley, Washington, USA. Canceled in 1983 before construction began.*

\*BT1 bwr type reactors  
RT ge standard reactor

**SKAGIT-2 REACTOR**

*Puget Sound Power and Light Co., Sedro Woolley, Washington, USA. Canceled in 1983 before construction began.*

\*BT1 bwr type reactors  
RT ge standard reactor

**SKAGIT RIVER**

INIS: 2000-04-12; ETDE: 1980-10-27  
\*BT1 rivers  
RT hydroelectric power plants  
RT washington

**SKATING RINKS**

INIS: 2000-04-12; ETDE: 1981-12-21  
RT commercial buildings  
RT public buildings

**SKELETAL DISEASES**

UF *bone diseases*  
UF *chondrosarcomas*  
BT1 diseases  
NT1 osteomyelitis  
NT1 osteoporosis  
NT1 osteoradionecrosis  
NT1 osteosarcomas  
NT1 rickets  
NT1 spondylitis  
RT bone fractures  
RT bone joints  
RT bone tissues  
RT rheumatic diseases  
RT skeleton

**skeletal fossils**

INIS: 1980-09-12; ETDE: 1980-10-07  
USE fossils

**SKELETON**

UF *bones*  
\*BT1 organs  
NT1 bone joints  
NT1 exoskeleton  
NT1 femur  
NT1 skull

NT2 jaw  
NT1 tibia  
NT1 vertebrae  
RT bone mineral density  
RT bone tissues  
RT limbs  
RT skeletal diseases

**skewness**

INIS: 1996-03-04; ETDE: 1996-02-26  
USE asymmetry  
USE distribution  
USE statistics

**SKIMMERS**

INIS: 1992-07-21; ETDE: 1976-08-04  
*For oil spill cleanup and removal.*  
UF *oil skimmers*  
\*BT1 pollution control equipment  
RT offshore operations  
RT oil spills

**SKIN**

UF *sebaceous glands*  
UF *sweat glands*  
\*BT1 organs  
NT1 epidermis  
NT1 hair  
NT1 hair follicles  
NT1 nails  
RT animal tissues  
RT epilation  
RT erythema  
RT feathers  
RT fish scales  
RT gloves  
RT leather  
RT lupus  
RT melanin  
RT ointments  
RT psoriasis  
RT skin absorption  
RT skin diseases  
RT sweat  
RT wounds

**SKIN ABSORPTION**

UF *absorption (skin)*  
\*BT1 absorption  
BT1 uptake  
RT gloves  
RT protective clothing  
RT skin

**skin cancer**

INIS: 1992-09-15; ETDE: 2002-06-13  
SEE epitheliomas

**skin damage**

INIS: 2000-04-12; ETDE: 1983-01-21  
USE formation damage

**SKIN DISEASES**

UF *xeroderma pigmentosum*  
BT1 diseases  
NT1 dermatitis  
NT2 radiodermatitis  
NT1 eczema  
NT1 herpes simplex  
NT1 psoriasis  
NT1 telangiectasis  
RT burns  
RT erythema  
RT lupus  
RT sense organs diseases  
RT skin

**SKIN EFFECT**

RT electric conductors  
RT electric currents  
RT magnetic flux

RT penetration depth

**skin effect (well)**

INIS: 2000-04-12; ETDE: 1983-01-21  
USE formation damage

**SKLODOWSKITE**

2000-04-12  
\*BT1 silicate minerals  
\*BT1 uranium minerals  
RT magnesium silicates  
RT uranium silicates

**skoda (plzen) reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE sr-0a reactor

**SKULL**

\*BT1 skeleton  
NT1 jaw  
RT brain  
RT head  
RT sinuses

**SKY**

INIS: 2000-04-12; ETDE: 1981-09-08  
NT1 night sky  
RT cloud cover  
RT clouds  
RT sun

**SKYLAB**

BT1 satellites  
\*BT1 space vehicles

**SKYLIGHTS**

INIS: 2000-04-12; ETDE: 1975-10-01  
RT buildings  
RT daylighting  
RT glazing materials  
RT lighting systems  
RT windows

**SKYRME POTENTIAL**

UF *skyrmons*  
\*BT1 nucleon-nucleon potential  
RT elastic scattering  
RT inelastic scattering  
RT nuclear reactions

**skyrmons**

INIS: 2000-04-12; ETDE: 1986-01-24  
USE skyrme potential  
USE solitons

**skyscrapers**

2005-06-01  
USE high-rise buildings

**SKYSHINE**

2018-02-22  
*Ionizing radiation emitted by a nuclear technical or medical facility, reaching the facility's surroundings indirectly through reflection and scattering at the atmosphere back to earth's surface.*  
\*BT1 ionizing radiations  
RT dosimetry  
RT radiation monitoring

**SL-1 REACTOR**

*NRTS, Idaho Falls, Idaho, USA. Shut down; destroyed in an accident in 1961.*  
UF *stationary low power plant-1*  
\*BT1 bwr type reactors  
\*BT1 process heat reactors

**SL GROUPS**

\*BT1 lie groups

**SLABS**

*Thicker than plates; primarily for use in shielding studies.*

RT plates  
RT prismatic configuration  
RT shape

**slac**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE stanford linear accelerator center

**slac 2-mile linac**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE stanford 20-gev linac

**slaggie model**

1996-07-08  
(Until June 1996 this was a valid descriptor.)  
SEE transport theory

**SLAGGING PYROLYSIS PROCESS**

INIS: 1983-10-14; ETDE: 1976-11-01  
SF andco-torrax slagging pyrolysis system  
\*BT1 waste processing  
RT alpha-bearing wastes  
RT pyrolysis  
RT radioactive waste processing

**SLAGS**

RT gangue  
RT seed-slag interactions

**SLAT TYPE COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-10-25  
UF linear-segmented array collector  
\*BT1 concentrating collectors

**slater determinant**

USE slater method

**slater integrals**

USE slater method

**SLATER METHOD**

UF slater determinant  
UF slater integrals  
UF slater orbitals  
BT1 calculation methods  
RT aligned coupling scheme  
RT electronic structure  
RT wave functions

**slater orbitals**

USE slater method

**slatis-siegbahn spectrometers**

USE magnetic lens spectrometers

**slc**

INIS: 1984-02-22; ETDE: 1984-03-06  
USE stanford linear collider

**slc detectors**

INIS: 1992-02-26; ETDE: 1992-01-16  
(Prior to January 1992, this was a valid ETDE descriptor.)  
USE stanford linear collider detector

**sld**

INIS: 1991-12-17; ETDE: 1986-01-14  
SEE stanford linear collider detector

**SLEEP**

RT central nervous system depressants  
RT hibernation  
RT hypnotics and sedatives  
RT physiology

**SLEEVES**

RT jackets  
RT reactor components

**SLICE MINING**

INIS: 2000-04-12; ETDE: 1980-05-06  
\*BT1 underground mining  
RT coal mining

**SLIDING FRICTION**

BT1 friction

**SLIGHTLY ENRICHED URANIUM**

0 - 5 per cent.  
\*BT1 enriched uranium

**slime fungi**

USE myxomycetes

**SLIP**

RT deformation  
RT dislocations  
RT slip ratio  
RT slip velocity  
RT twinning

**SLIP CASTING**

*A procedure in ceramics not metallurgy.*  
\*BT1 casting  
RT ceramics

**SLIP FLOW**

*Rarefied gas flow in the region between Knudsen numbers 0.01 and 0.1 only.*  
\*BT1 gas flow

**SLIP RATIO**

BT1 dimensionless numbers  
RT slip

**SLIP VELOCITY**

1999-10-07  
BT1 velocity  
RT slip

**slm**

INIS: 2000-04-12; ETDE: 1983-04-07  
USE scanning light microscopy

**sloop event**

1997-01-28  
(Prior to February 1996 this was a valid ETDE descriptor.)  
USE plowshare project

**SLOPE STABILITY**

INIS: 1986-04-03; ETDE: 1979-03-27  
*Resistance of an inclined surface to failure by sliding or collapsing.*  
BT1 stability  
RT excavation  
RT ground motion  
RT landslides  
RT strata control  
RT surface mining

**slot ovens**

INIS: 2000-04-12; ETDE: 1979-09-27  
USE coke ovens

**slovak cyclotron center**

2002-12-17  
USE cyclotron center of the slovak republic

**slovak nuclear regulatory authority**

2002-12-17  
USE ujd

**SLOVAK ORGANIZATIONS**

1994-01-07  
(Prior to January 1994, this concept in ETDE was indexed by CZECHOSLOVAK ORGANIZATIONS.)  
SF czechoslovak organizations  
BT1 national organizations

NT1 cyclotron center of the slovak republic

NT1 javys

NT1 ujd

NT1 vuje

**slovak republic**

INIS: 1994-02-28; ETDE: 1993-05-06  
(From January 1993 to March 1994 this was a valid descriptor.)  
USE slovakia

**SLOVAKIA**

INIS: 1994-02-28; ETDE: 1994-03-07  
(Prior to March 1994, this concept was indexed by CZECHOSLOVAKIA.)  
UF slovak republic  
SF czechoslovakia  
BT1 developing countries  
\*BT1 eastern europe  
RT bohunice radioactive waste processing center  
RT danube river  
RT dudvah river  
RT hron river  
RT manivier canal  
RT mochovce liquid raw final treatment facility  
RT vah river

**SLOVENIA**

1993-01-14  
SF yugoslavia  
\*BT1 eastern europe  
RT alps

**SLOVENIAN ORGANIZATIONS**

2004-03-31  
BT1 national organizations

**SLOW NEUTRONS**

\*BT1 neutrons

**slowdown**

USE slowing-down

**SLOWING-DOWN**

1996-07-08  
UF slowdown  
NT1 thermalization  
RT absorption  
RT energy losses  
RT fermi age theory  
RT neutron age  
RT neutron converters  
RT neutron slowing-down theory  
RT neutron transport theory  
RT slowing-down kernels  
RT slowing-down length  
RT straggling  
RT van hove theory  
RT wick method  
RT wigner-wilkins model  
RT wilkins equation

**slowing-down area**

USE slowing-down length

**SLOWING-DOWN KERNELS**

UF kernels (slowing-down)  
RT neutron slowing-down theory  
RT slowing-down

**SLOWING-DOWN LENGTH**

1999-07-20  
UF slowing-down area  
\*BT1 length  
RT migration length  
RT slowing-down

**slowing-down theory (neutron)**

USE neutron slowing-down theory

**slowpoke-2 rmc**

2018-05-30

USE slowpoke rmc reactor

**slowpoke-2 src**

2018-05-30

USE slowpoke src reactor

**SLOWPOKE-ALBERTA REACTOR**

INIS: 1979-12-20; ETDE: 1980-01-24

Univ. of Alberta, Faculty of Pharmacy,  
Edmonton, Alberta, Canada. decommissioned

UF alberta university slowpoke reactor

UF university of alberta slowpoke  
reactor

\*BT1 slowpoke type reactors

**SLOWPOKE-DALHOUSIE  
REACTOR**

INIS: 1979-12-20; ETDE: 1980-01-24

Dalhousie Univ., Halifax, Nova Scotia,  
Canada. Permanent shutdown since 2008.UF dalhousie university slowpoke  
reactor

\*BT1 slowpoke type reactors

**SLOWPOKE-MONA REACTOR**

2018-08-20

Mona, Jamaica.

UF uwi cns slowpoke

\*BT1 slowpoke type reactors

**SLOWPOKE-MONTREAL REACTOR**

INIS: 1979-12-20; ETDE: 1980-01-24

Univ. of Montreal, Polytechnical School,  
Montreal, Quebec, Canada.

UF montreal university slowpoke reactor

UF university of montreal slowpoke  
reactor

\*BT1 slowpoke type reactors

**SLOWPOKE-OTTAWA REACTOR**

AECL, Ottawa, Ontario, Canada.

UF aecl radiochemical slowpoke reactor

UF ottawa slowpoke reactor

UF slowpoke reactor (ottawa)

\*BT1 slowpoke type reactors

**slowpoke reactor (ottawa)**

2000-04-12

USE slowpoke-ottawa reactor

**slowpoke reactor (toronto)**

2000-04-12

USE slowpoke-toronto reactor

**slowpoke rmc**

2018-05-30

USE slowpoke rmc reactor

**SLOWPOKE RMC REACTOR**

2018-05-30

Kingston, Ontario, Canada. Located at the  
royal military college of Canada.

UF rmc slowpoke

UF slowpoke-2 rmc

UF slowpoke rmc

\*BT1 slowpoke type reactors

**slowpoke src**

2018-05-30

USE slowpoke src reactor

**SLOWPOKE SRC REACTOR**

2018-05-30

Kingston, Saskatchewan, Canada. Located at  
SRC environmental analytical laboratories.

UF slowpoke-2 src

UF slowpoke src

UF src slowpoke

\*BT1 slowpoke type reactors

RT neutron activation analysis

**SLOWPOKE-TORONTO REACTOR**

Univ. of Toronto, Toronto, Ontario, Canada.

permanent shutdown

UF slowpoke reactor (toronto)

UF toronto university slowpoke reactor

UF university of toronto slowpoke  
reactor

\*BT1 slowpoke type reactors

**SLOWPOKE TYPE REACTORS**

INIS: 1979-12-20; ETDE: 1980-01-24

UF safe low power critical experiment

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

NT1 slowpoke-alberta reactor

NT1 slowpoke-dalhousie reactor

NT1 slowpoke-mona reactor

NT1 slowpoke-montreal reactor

NT1 slowpoke-ottawa reactor

NT1 slowpoke rmc reactor

NT1 slowpoke src reactor

NT1 slowpoke-toronto reactor

NT1 slowpoke-wnre reactor

**SLOWPOKE-WNRE REACTOR**

INIS: 1986-10-29; ETDE: 1986-11-20

Whiteshell Nuclear Research Establishment,  
Pinawa, Manitoba, Canada.

\*BT1 process heat reactors

\*BT1 slowpoke type reactors

RT district heating

**sls (swiss synchrotron light source)**

2000-06-02

USE swiss light source

**SLUDGES**

INIS: 1992-02-28; ETDE: 1976-05-17

NT1 sewage sludge

RT sediments

RT slurries

RT wastes

**sludges (sewage)**

INIS: 1977-11-21; ETDE: 2002-06-13

USE sewage sludge

**slugs (fuel)**

USE fuel rods

**slurex process**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE separation processes

**SLURRIES**

1996-07-08

UF pulps

\*BT1 mixtures

\*BT1 suspensions

NT1 fuel slurries

RT hydraulic transport

RT ore processing

RT sewage sludge

RT sludges

RT slurry pipelines

**slurries (fuel)**

USE fuel slurries

**SLURRY PIPELINES**

INIS: 1993-02-15; ETDE: 1975-08-19

BT1 pipelines

RT coal

RT hydraulic transport

RT slurries

**SLURRY REACTORS**

\*BT1 fuel dispersion reactors

RT fuel slurries

**SLUSH**

INIS: 2000-04-12; ETDE: 1976-01-23

RT hydrogen fuels

RT ice

RT snow

RT water

**SM-1 REACTOR**

UF stationary medium power plant-1

\*BT1 pwr type reactors

**SM-1 SUBCRITICAL ASSEMBLY**

2018-08-20

Laboratorio Energia Nucleare Applicata,  
Pavia, Italy.

\*BT1 heavy water cooled reactors

\*BT1 research reactors

\*BT1 subcritical assemblies

\*BT1 water moderated reactors

\*BT1 zero power reactors

**SM-1A REACTOR**USA Army Corps of Engineers, Fort Greeley,  
Alaska, USA.

UF stationary medium power plant-1a

\*BT1 process heat reactors

\*BT1 pwr type reactors

**SM-2 REACTOR**

UF melekess-sm-2 reactor

\*BT1 materials testing reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**SMALL ANGLE SCATTERING**

BT1 scattering

RT angular distribution

RT optical theorem

**small break loss-of-coolant accident**

2017-07-18

USE sbloca

**SMALL BUSINESSES**

INIS: 1992-02-21; ETDE: 1977-09-19

Businesses and commercial establishments  
employing fewer than 500 people.

BT1 business

RT commercial sector

RT cooperatives

RT economy

RT gasoline service stations

RT industry

RT market

RT restaurants

RT retailers

RT trade

**SMALL INTESTINE**

UF duodenum

UF ileum

UF jejunum

\*BT1 intestines

RT ascaris

RT intestinal absorption

RT mesentery

RT secretin

**SMALL MODULAR REACTORS**

2018-03-01

Nuclear reactors generally 300MWe  
equivalent or less, designed with modular  
technology using module factory fabrication,  
pursuing economies of series production and  
short construction times. Coordinate with  
another relevant reactor type if provided.

BT1 reactors

NT1 carem 25 reactor

RT modular structures

**SMALL-SCALE HYDROELECTRIC POWER PLANTS**

INIS: 1992-04-06; ETDE: 1981-07-06

Small-scale hydroelectric power plants generating from 100kW to 30MW.

\*BT1 hydroelectric power plants

RT low-head hydroelectric power plants

RT microgeneration

**small tight aspect ratio tokamak**

INIS: 1994-03-15; ETDE: 1994-02-25

USE start tokamak

**SMART GRIDS**

2013-07-19

\*BT1 power systems

RT power distribution systems

**smarior device**

INIS: 2000-04-12; ETDE: 1977-12-22

(Prior to January 1995, this was a valid ETDE descriptor.)

USE tokamak devices

**SMECTITE**

INIS: 1981-02-27; ETDE: 1976-11-29

A green clay.

\*BT1 clays

RT aluminium silicates

**SMELTERS**

INIS: 1992-07-21; ETDE: 1980-10-27

BT1 furnaces

RT metal industry

RT pyrometallurgy

RT smelting

**SMELTING**

RT melting

RT pyrometallurgy

RT smelters

**smes**

INIS: 1995-01-11; ETDE: 1982-10-20

Superconducting Magnetic Energy Storage.

USE superconducting magnetic energy storage

**SMOG**

INIS: 2000-05-08; ETDE: 1975-11-28

(Prior to May 2000, this concept was indexed by AIR POLLUTION.)

RT air pollution

RT atmospheric chemistry

RT photochemical oxidants

RT visibility

**smokatron**

USE electron-ring accelerators

**SMOKE DETECTORS**

INIS: 1981-02-27; ETDE: 1978-11-14

UF icsd

UF ionization chamber smoke detectors

\*BT1 fire detectors

RT aerosol monitoring

RT aerosols

RT alarm systems

RT fires

RT safety engineering

RT smokes

**SMOKES**

\*BT1 aerosols

BT1 residues

NT1 tobacco smokes

RT plumes

RT smoke detectors

RT soot

RT stacks

RT visibility

**smoky event**

INIS: 1994-10-14; ETDE: 1981-07-06

A test made during OPERATION

PLUMBBOB.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**SMOLENSK-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**SMOLENSK-2 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**SMOLENSK-3 REACTOR**

INIS: 1994-12-22; ETDE: 1995-01-03

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**SMOOTH MANIFOLDS**

BT1 mathematical manifolds

RT conformal mapping

RT differential topology

RT riemann space

RT topological foliation

**smoothness**

USE roughness

**smp devices**

USE scanning measuring projectors

**smr reactor**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE graphite moderated reactors

**sn method**

USE discrete ordinate method

**SNAILS**

\*BT1 molluscs

RT disease vectors

RT schistosomiasis

RT seafood

**SNAKE RIVER PLAIN**

INIS: 1992-04-06; ETDE: 1981-08-04

SF geologic provinces

RT idaho

RT nevada

RT oregon

RT wyoming

RT yellowstone national park

**SNAKES**

\*BT1 reptiles

**snap 1 battery**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE snap batteries

**SNAP 10 REACTOR**

Atomics International Div., Rockwell International, Canoga Park, California, USA.

\*BT1 enriched uranium reactors

\*BT1 potassium cooled reactors

\*BT1 process heat reactors

\*BT1 snap reactors

\*BT1 sodium cooled reactors

NT1 s10fs-1 reactor

NT1 s10fs-3 reactor

NT1 s10fs-4 reactor

**snap-10a flight system test-1**

1993-11-09

USE s10fs-1 reactor

**snap-10a flight system test-3**

1993-11-09

USE s10fs-3 reactor

**snap-10a flight system test-4**

1993-11-09

USE s10fs-4 reactor

**snap-10a transient test reactor**

1993-11-09

USE snaptran reactors

**snap 11 battery**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE snap batteries

**snap 13 battery**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE snap batteries

**snap 15 battery**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE snap batteries

**SNAP 19 BATTERY**

\*BT1 snap batteries

**snap-2/10a tsf shielding reactor**

2000-04-12

USE snap-tsf reactor

**snap-2 developmental system**

USE s2ds reactor

**snap-2 experimental reactor**

USE ser reactor

**SNAP 2 REACTOR**

Atomics International Div., Rockwell International, Canoga Park, California, USA.

\*BT1 enriched uranium reactors

\*BT1 snap reactors

NT1 s2ds reactor

**snap 21 battery**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

USE snap batteries

**snap 23 battery**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

USE snap batteries

**SNAP 27 BATTERY**

\*BT1 snap batteries

**snap 29 battery**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

USE snap batteries

**snap 3 battery**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE snap batteries



**snap 4 reactor**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE snap reactors

**SNAP 50 REACTOR**

1993-02-18

Pratt and Whitney Aircraft, Middletown, Connecticut, USA.

\*BT1 enriched uranium reactors

\*BT1 snap reactors

**snap 7 battery**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE snap batteries

**snap-8 developmental reactor**

USE s8dr reactor

**snap-8 experimental reactor**

USE s8er reactor

**SNAP 8 REACTOR**

Rockwell International, Santa Susana, California, USA.

\*BT1 enriched uranium reactors

\*BT1 snap reactors

NT1 s8dr reactor

NT1 s8er reactor

**SNAP 9 BATTERY**

\*BT1 snap batteries

**SNAP BATTERIES**

1996-07-08

Battery Systems for Nuclear Auxiliary Power.

UF snap 1 battery

UF snap 11 battery

UF snap 13 battery

UF snap 15 battery

UF snap 21 battery

UF snap 23 battery

UF snap 29 battery

UF snap 3 battery

UF snap 7 battery

\*BT1 radioisotope batteries

NT1 snap 19 battery

NT1 snap 27 battery

NT1 snap 9 battery

**SNAP REACTORS**

Reactor Systems for Nuclear Auxiliary Power.

UF snap 4 reactor

SF s4 reactor

\*BT1 space power reactors

NT1 snap 10 reactor

NT2 s10fs-1 reactor

NT2 s10fs-3 reactor

NT2 s10fs-4 reactor

NT1 snap 2 reactor

NT2 s2ds reactor

NT1 snap 50 reactor

NT1 snap 8 reactor

NT2 s8dr reactor

NT2 s8er reactor

RT thermionic reactors

**SNAP-TSF REACTOR**

2000-04-12

Atomics International Div., Rockwell International, Canoga Park, California, USA.

UF snap-2/10a tsf shielding reactor

\*BT1 enriched uranium reactors

\*BT1 potassium cooled reactors

\*BT1 process heat reactors

\*BT1 sodium cooled reactors

**snaptran-1 reactor**

USE snaptran reactors

**snaptran-2 reactor**

USE snaptran reactors

**snaptran-3 reactor**

USE snaptran reactors

**SNAPTRAN REACTORS**

USA. Program discontinued in 1960s.

UF snap-10a transient test reactor

UF snaptran-1 reactor

UF snaptran-2 reactor

UF snaptran-3 reactor

\*BT1 enriched uranium reactors

\*BT1 nak cooled reactors

\*BT1 potassium cooled reactors

\*BT1 sodium cooled reactors

\*BT1 test reactors

**SNEAK REACTOR**

Gesellschaft fuer Kernforschung mbH, Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany. decommissioned since 1997.

UF schnelle null-energie anordnung karlsruhe

\*BT1 air cooled reactors

\*BT1 fast reactors

\*BT1 research reactors

\*BT1 zero power reactors

RT enriched uranium reactors

RT plutonium reactors

**sng**

INIS: 2000-04-12; ETDE: 1975-10-01

USE high btu gas

**SNG PLANTS**

INIS: 2000-04-12; ETDE: 1976-10-13

BT1 industrial plants

RT high btu gas

RT sng processes

**SNG PROCESSES**

2000-04-12

Processes for production of substitute natural gas from hydrocarbon liquids or coal.

UF carbon dioxide acceptor process

UF gasynthan process

UF jgc methane-rich gas process

UF methane rich gas process

UF mrg process

UF rmprocess

NT1 fluidized bed hydrogenation process

NT1 gas recycle hydrogenation process

NT1 hydrane process

NT1 hygas process

NT1 kellogg process

NT1 peatgas process

NT1 shell gasification process

RT bi-gas process

RT coal gasification

RT exxon gasification process

RT high btu gas

RT koppers-totzek process

RT lurgi process

RT petroleum

RT petroleum products

RT sng plants

RT synthane process

RT winkler process

**SNOW**

BT1 atmospheric precipitations

RT antarctic regions

RT arctic regions

RT cryosphere

RT glaciers

RT ice

RT natural disasters

RT rain

RT slush

RT storms

**snpa-dea process**

2000-04-12

Process for sweetening raw gas streams containing a total of about 10% or more of acid gases (hydrogen sulfide plus carbon dioxide) at operating pressures of about 500 psig or higher.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**snr-1 reactor**

INIS: 1977-09-06; ETDE: 1976-10-13

(From 1977 to July 1985, this was a valid ETDE descriptor.)

USE snr reactor

**SNR-2 REACTOR**

1976-10-29

Kalkar, North Rhine Westfalia, Federal Republic of Germany.

\*BT1 Imfbr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**snr-300 reactor**

USE snr reactor

**SNR REACTOR**

ETDE: 1976-10-13

Kalkar, North Rhine Westfalia, Federal Republic of Germany. Construction cancelled 1991.

UF kalkar power reactor

UF schneller natriumgekuehlter reaktor

UF snr-1 reactor

UF snr-300 reactor

\*BT1 Imfbr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**sns (oak ridge)**

2016-06-09

USE oak ridge spallation neutron source

**SO-10 GROUPS**

INIS: 1981-03-10; ETDE: 1981-04-17

\*BT1 so groups

RT grand unified theory

**SO-12 GROUPS**

INIS: 1986-01-21; ETDE: 1986-03-04

\*BT1 so groups

**SO-2 GROUPS**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 so groups

**SO-3 GROUPS**

\*BT1 so groups

**SO-4 GROUPS**

INIS: 1977-10-17; ETDE: 1977-11-10

\*BT1 so groups

**SO-5 GROUPS**

2006-05-22

\*BT1 so groups

**SO-6 GROUPS**

INIS: 1981-09-18; ETDE: 1981-10-24

\*BT1 so groups

**SO-8 GROUPS**

INIS: 1987-04-28; ETDE: 1987-07-21

\*BT1 so groups

**SO GROUPS**

- \*BT1 lie groups
- NT1 so-10 groups
- NT1 so-12 groups
- NT1 so-2 groups
- NT1 so-3 groups
- NT1 so-4 groups
- NT1 so-5 groups
- NT1 so-6 groups
- NT1 so-8 groups

**SOAPS**

- \*BT1 other organic compounds
- RT detergents
- RT emulsifiers
- RT organic acids

**SOC SOLAR CELLS**

- INIS: 2000-04-12; ETDE: 1981-07-18
- UF silicon on ceramic solar cells
- \*BT1 silicon solar cells

**SOCIAL IMPACT**

- INIS: 1992-03-26; ETDE: 1977-01-31
- RT aesthetics
- RT health services
- RT socio-economic factors
- RT sociology
- RT technology impacts

**SOCIAL SERVICES**

- INIS: 1999-12-07; ETDE: 1978-04-06
- NT1 health services
- RT boom towns
- RT local government
- RT state government

**societal costs**

- 2004-09-08
- SEE external cost

**socio-economic aspects**

- INIS: 1985-11-18; ETDE: 1983-02-09
- (Prior to December 1985 this was a valid descriptor.)
- USE socio-economic factors

**SOCIO-ECONOMIC FACTORS**

- INIS: 1998-01-28; ETDE: 1976-03-11
- (Prior to December 1985 SOCIO-ECONOMIC ASPECTS was used for this concept.)

- UF socio-economic aspects
- SF life styles
- SF values
- BT1 institutional factors
- RT aesthetics
- RT communities
- RT cooperatives
- RT economic impact
- RT economics
- RT financial incentives
- RT health services
- RT high income groups
- RT low income groups
- RT political aspects
- RT property values
- RT social impact
- RT sociology
- RT technology impacts

**SOCIOLOGY**

- RT aesthetics
- RT anthropology
- RT assimilation
- RT black americans
- RT elderly people
- RT ethical aspects
- RT handicapped people
- RT hispanic americans
- RT historical aspects

- RT human factors
- RT human populations
- RT leisure time activities
- RT man
- RT minority groups
- RT occupations
- RT oriental americans
- RT public anxiety
- RT public relations
- RT regional analysis
- RT social impact
- RT socio-economic factors
- RT urban populations

**sod**

- INIS: 1984-04-04; ETDE: 2002-06-13
- USE superoxide dismutase

**sod (soil)**

- INIS: 1984-04-04; ETDE: 2002-06-13
- USE soils

**soda ash**

- INIS: 2000-04-12; ETDE: 1977-03-08
- USE sodium carbonates

**SODDYITE**

- \*BT1 silicate minerals
- \*BT1 uranium minerals
- RT uranium silicates

**SODIUM**

- \*BT1 alkali metals

**SODIUM 18**

- 2008-01-16
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 sodium isotopes

**SODIUM 19**

- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 sodium isotopes

**SODIUM 20**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 sodium isotopes

**SODIUM 21**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 sodium isotopes

**SODIUM 21 TARGET**

- INIS: 1986-12-09; ETDE: 1987-02-24
- BT1 targets

**SODIUM 22**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 sodium isotopes
- \*BT1 years living radioisotopes

**SODIUM 22 TARGET**

- INIS: 1976-10-07; ETDE: 1976-11-01
- BT1 targets

**SODIUM 23**

- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 sodium isotopes

- \*BT1 stable isotopes
- RT sodium 23 beams

**SODIUM 23 BEAMS**

- INIS: 1976-07-06; ETDE: 1976-08-24
- \*BT1 ion beams
- RT sodium 23

**SODIUM 23 REACTIONS**

- INIS: 1978-09-28; ETDE: 1978-10-19
- \*BT1 heavy ion reactions

**SODIUM 23 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**SODIUM 24**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 sodium isotopes

**SODIUM 25**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 sodium isotopes

**SODIUM 26**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 sodium isotopes

**SODIUM 27**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 sodium isotopes

**SODIUM 28**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 sodium isotopes

**SODIUM 29**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 sodium isotopes

**SODIUM 30**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 sodium isotopes

**SODIUM 31**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 sodium isotopes

**SODIUM 32**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 sodium isotopes

**SODIUM 33**

- \*BT1 beta-minus decay radioisotopes

- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 sodium isotopes

**SODIUM 34**

INIS: 1984-06-21; ETDE: 1984-07-10

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 sodium isotopes

**SODIUM 35**

INIS: 1984-02-23; ETDE: 1983-06-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 sodium isotopes

**SODIUM 37**

2008-01-16

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 sodium isotopes

**SODIUM ADDITIONS**

Alloys containing not more than 1% Na are listed here.

- \*BT1 sodium alloys

**SODIUM ALLOYS**

Alloys containing more than 1% Na.

- UF *nak*
- BT1 alloys
- NT1 sodium additions
- NT1 sodium base alloys

**sodium aminoethylthiophosphate**

INIS: 1975-11-07; ETDE: 2002-06-13

- USE cystaphos

**SODIUM BASE ALLOYS**

- \*BT1 sodium alloys

**SODIUM BORIDES**

- \*BT1 borides
- \*BT1 sodium compounds

**SODIUM BROMIDES**

- \*BT1 bromides
- \*BT1 sodium halides

**SODIUM CARBIDES**

- \*BT1 carbides
- \*BT1 sodium compounds

**SODIUM CARBONATES**

- UF *chlor-alkali industry*
- UF *soda ash*
- \*BT1 carbonates
- \*BT1 sodium compounds
- RT carbonate minerals
- RT dawsonite
- RT nahcolite
- RT shortite
- RT trona

**SODIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 sodium halides
- RT halite

**sodium citrates**

INIS: 2000-04-12; ETDE: 1977-04-12

- USE citrates
- USE sodium compounds

**SODIUM COMPLEXES**

- \*BT1 alkali metal complexes

**SODIUM COMPOUNDS**

1996-10-23

- UF *hypoque*
- UF *sodium citrates*
- UF *sodium lauryl sulfates*
- BT1 alkali metal compounds
- NT1 borax
- NT1 rochelle salt
- NT1 sodium borides
- NT1 sodium carbides
- NT1 sodium carbonates
- NT1 sodium halides
- NT2 sodium bromides
- NT2 sodium chlorides
- NT2 sodium fluorides
- NT2 sodium iodides
- NT1 sodium hydrides
- NT1 sodium hydroxides
- NT1 sodium nitrates
- NT1 sodium nitrides
- NT1 sodium oxides
- NT2 sodium tungsten bronze
- NT1 sodium perchlorates
- NT1 sodium phosphates
- NT1 sodium phosphides
- NT1 sodium selenides
- NT1 sodium silicates
- NT1 sodium silicides
- NT1 sodium sulfates
- NT1 sodium sulfides
- NT1 sodium tellurides
- NT1 sodium tungstates
- NT1 sodium uranates
- NT1 tiron

**sodium cooled graphite moderated reactors**

1999-09-17

- USE sgr type reactors

**SODIUM COOLED REACTORS**

- \*BT1 liquid metal cooled reactors
- NT1 beloyarsk-3 reactor
- NT1 beloyarsk-4 reactor
- NT1 bn-1200 reactor
- NT1 bn-1600 reactor
- NT1 bn-350 reactor
- NT1 bor-60 reactor
- NT1 cdfr reactor
- NT1 clinch river breeder reactor
- NT1 ebr-1 reactor
- NT1 ebr-2 reactor
- NT1 enrico fermi-1 reactor
- NT1 ftf reactor
- NT1 hnpf reactor
- NT1 knk-2 reactor
- NT1 knk reactor
- NT1 lampre-1 reactor
- NT1 monju reactor
- NT1 pfr reactor
- NT1 phenix reactor
- NT1 rapsodie reactor
- NT1 sbr-5 reactor
- NT1 sefor reactor
- NT1 ser reactor
- NT1 sgr type reactors
- NT2 sre reactor
- NT1 snap 10 reactor
- NT2 s10fs-1 reactor
- NT2 s10fs-3 reactor
- NT2 s10fs-4 reactor
- NT1 snap-tsfr reactor
- NT1 snaptran reactors
- NT1 snr-2 reactor
- NT1 snr reactor
- NT1 superphenix reactor
- NT1 zrr reactor
- RT *nak* cooled reactors

**sodium cooled zirconium hydride moderated reactors**

1993-11-09

- USE sgr type reactors

**SODIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 sodium halides

**SODIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 sodium compounds
- NT1 sodium bromides
- NT1 sodium chlorides
- NT1 sodium fluorides
- NT1 sodium iodides

**SODIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 sodium compounds

**SODIUM HYDROXIDES**

- UF *chlor-alkali industry*
- \*BT1 hydroxides
- \*BT1 sodium compounds

**sodium iodide detectors**

INIS: 1979-09-18; ETDE: 1979-02-05

- USE nai detectors

**SODIUM IODIDES**

- \*BT1 inorganic phosphors
- \*BT1 iodides
- \*BT1 sodium halides

**sodium iodohippurate**

INIS: 1975-10-23; ETDE: 1980-08-12

- USE hippuran

**SODIUM IONS**

- \*BT1 ions

**SODIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 sodium 18
- NT1 sodium 19
- NT1 sodium 20
- NT1 sodium 21
- NT1 sodium 22
- NT1 sodium 23
- NT1 sodium 24
- NT1 sodium 25
- NT1 sodium 26
- NT1 sodium 27
- NT1 sodium 28
- NT1 sodium 29
- NT1 sodium 30
- NT1 sodium 31
- NT1 sodium 32
- NT1 sodium 33
- NT1 sodium 34
- NT1 sodium 35
- NT1 sodium 37

**sodium lauryl sulfates**

INIS: 2000-04-12; ETDE: 1980-12-08

- USE sodium compounds
- USE sulfuric acid esters

**sodium minerals**

2000-04-12

Use one of the more specific descriptors under MINERALS.

(Prior to May 1982, this was a valid ETDE descriptor.)

- USE minerals

**sodium n-o-iodobenzoylaminoacetate**

INIS: 1975-10-23; ETDE: 2002-06-13

- USE hippuran

**SODIUM NITRATES**

- \*BT1 nitrates
- \*BT1 sodium compounds

**SODIUM NITRIDES**

INIS: 1980-02-26; ETDE: 1977-12-22

- \*BT1 nitrides
- \*BT1 sodium compounds

**sodium orthoiodohippurate**

INIS: 1975-10-23; ETDE: 2002-06-13

USE hippuran

**SODIUM OXIDES**

- \*BT1 oxides
- \*BT1 sodium compounds
- NT1 sodium tungsten bronze
- RT clarkeite
- RT oxide minerals

**SODIUM PERCHLORATES**

- \*BT1 perchlorates
- \*BT1 sodium compounds

**SODIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 sodium compounds

**SODIUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1984-12-26

(From January 1993 to November 2007 SODIUM COMPOUNDS + PHOSPHIDES was used for this concept.)

- \*BT1 phosphides
- \*BT1 sodium compounds

**sodium reactor experiment**

USE sre reactor

**SODIUM SELENIDES**

INIS: 1991-09-16; ETDE: 1985-10-25

- \*BT1 selenides
- \*BT1 sodium compounds

**SODIUM SILICATES**

1996-06-26

- \*BT1 silicates
- \*BT1 sodium compounds
- RT lavenite
- RT lovozerite
- RT pollucite
- RT silicate minerals

**SODIUM SILICIDES**

INIS: 1996-07-23; ETDE: 1976-07-07

(From July 1996 to November 2007 SODIUM COMPOUNDS + SILICIDES was used for this concept.)

- \*BT1 silicides
- \*BT1 sodium compounds

**SODIUM SULFATES**

1996-07-08

- UF glauher's salt
- \*BT1 sodium compounds
- \*BT1 sulfates
- RT sulfate minerals

**SODIUM SULFIDES**

- \*BT1 sodium compounds
- \*BT1 sulfides

**SODIUM-SULFUR BATTERIES**

1996-06-19

- \*BT1 metal-nonmetal batteries

**SODIUM TELLURIDES**

INIS: 1979-02-21; ETDE: 1976-11-01

- \*BT1 sodium compounds
- \*BT1 tellurides

**SODIUM TUNGSTATES**

1976-10-07

- \*BT1 sodium compounds
- \*BT1 tungstates

**SODIUM TUNGSTEN BRONZE**

INIS: 2000-04-12; ETDE: 1979-08-09

One of a series of metallic substances consisting of metallic and nonmetallic elements.

- UF bronze (sodium tungsten)
- \*BT1 sodium oxides
- \*BT1 tungsten oxides
- RT perovskites

**SODIUM URANATES**

- \*BT1 sodium compounds
- \*BT1 uranates

**sodium-water reactions**

INIS: 2000-04-12; ETDE: 1977-04-12

USE molten metal-water reactions

**sodium(liquid)-water reactions**

INIS: 1977-09-15; ETDE: 2002-06-13

USE molten metal-water reactions

**sofc**

INIS: 2000-04-12; ETDE: 1989-04-12

Solid Oxide Fuel Cells.

USE solid oxide fuel cells

**sofia irt-2000 reactor**

INIS: 1984-07-20; ETDE: 2002-06-13

USE irt-sofia reactor

**soft coal**

INIS: 2000-04-12; ETDE: 1991-11-25

- SEE bituminous coal
- SEE brown coal
- SEE lignite

**SOFT COMPONENT**

- \*BT1 cosmic radiation

**SOFT-CORE POTENTIAL**

- \*BT1 nuclear potential

**soft pion theorem**

INIS: 2000-04-12; ETDE: 1979-02-23

USE low-energy theorem

**soft soldering**

USE soldering

**SOFT X RADIATION**

- \*BT1 x radiation

**SOIL CHEMISTRY**

INIS: 1992-03-11; ETDE: 1977-03-04

- BT1 chemistry
- RT agriculture
- RT biochemistry
- RT fertilizers
- RT liming
- RT soil conservation
- RT soils

**SOIL CONSERVATION**

INIS: 1992-07-07; ETDE: 1978-04-05

Management of soils to optimize crop yields while improving soil texture and stability.

- BT1 resource conservation
- RT agriculture
- RT crops
- RT erosion
- RT erosion control
- RT fertilizers
- RT irrigation
- RT land reclamation
- RT revegetation
- RT sewage sludge
- RT soil chemistry

RT soil mechanics

RT soils

**SOIL MECHANICS**

INIS: 1977-03-14; ETDE: 1976-08-04

Application of principles of mechanics and geology to quantify the response of soils to environmental forces.

- BT1 mechanics
- RT earth crust
- RT ground water
- RT overburden
- RT rock falls
- RT rock mechanics
- RT sea bed
- RT soil conservation
- RT soils

**SOIL-STRUCTURE INTERACTIONS**

INIS: 1984-10-23; ETDE: 1984-02-10

- RT buildings
- RT dynamic loads
- RT earthquakes
- RT engineering geology
- RT foundations
- RT ground motion
- RT mechanical structures
- RT seismic effects
- RT seismic isolation
- RT shock waves

**soiling**

INIS: 2000-04-12; ETDE: 1982-08-11

USE surface contamination

**SOILS**

- UF sod (soil)
- NT1 acid soils
- NT1 loam
- NT1 saline soils
- RT acid neutralizing capacity
- RT aerobacter
- RT agriculture
- RT alluvial deposits
- RT clays
- RT ecosystems
- RT embankments
- RT environmental materials
- RT fallout deposits
- RT fulvic acids
- RT ground water
- RT humic acids
- RT humus
- RT irrigation
- RT liming
- RT nitrogen fixation
- RT peat
- RT permafrost
- RT plants
- RT proteus
- RT radionuclide migration
- RT roots
- RT sand
- RT soil chemistry
- RT soil conservation
- RT soil mechanics
- RT terrestrial ecosystems
- RT underground

**soja bean oil**

USE soybean oil

**SOL-GEL PROCESS**

- RT colloids
- RT fuel cycle
- RT gelation
- RT reprocessing

**SOLANUM**

INIS: 1979-01-18; ETDE: 1979-02-23

- \*BT1 magnoliopsida

NT1 solanum tuberosum

## SOLANUM TUBEROSUM

UF potato plant

\*BT1 solanum

RT potatoes

## SOLAR ABSORBERS

INIS: 1992-02-22; ETDE: 1977-10-20

UF absorbers (solar)

\*BT1 solar equipment

RT antireflection coatings

RT black coatings

RT black liquids

RT black nickel

RT coatings

RT solar collectors

RT solar receivers

RT spectrally selective surfaces

## SOLAR ACCESS

INIS: 2000-04-12; ETDE: 1980-09-22

*The availability of sunlight to solar collectors and other solar energy systems.*

(Prior to September 1980 this concept in ETDE was indexed by SOLAR RIGHTS.)

RT direct solar radiation

RT solar rights

## SOLAR ACTIVITY

BT1 stellar activity

NT1 faculae

NT1 flares

NT1 solar flares

NT1 solar granulation

NT1 solar prominences

NT1 solar radio bursts

NT1 solar wind

NT1 solar x-ray bursts

NT1 sunspots

RT activity levels

RT solar cycle

RT sun

## SOLAR AIR CONDITIONERS

2000-04-12

BT1 air conditioners

\*BT1 solar cooling systems

NT1 solar-assisted heat pumps

RT solar air conditioning

RT vuilleumier cycle

## SOLAR AIR CONDITIONING

2000-04-12

BT1 air conditioning

RT radiative cooling

RT solar air conditioners

RT solar regenerators

## SOLAR AIR HEATERS

2000-04-12

*Solar collectors that use air as heat transfer fluid.*

\*BT1 air heaters

\*BT1 solar collectors

RT flat plate collectors

RT passive solar heating systems

## SOLAR ALPHA PARTICLES

INIS: 1985-07-22; ETDE: 1975-08-19

(Prior to August 1985 this concept was expressed by coordination of ALPHA PARTICLES and ENERGETIC SOLAR PARTICLES.)

\*BT1 alpha particles

\*BT1 solar particles

## SOLAR ARCHITECTURE

INIS: 1992-03-10; ETDE: 1979-12-10

*Building design that integrates the thermal, directional, and seasonal aspects of solar radiation.*

UF building-integrated energy-producing components

BT1 architecture

RT architects

RT buildings

RT passive solar cooling systems

RT passive solar heating systems

RT solar cooling systems

RT solar energy

RT solar heating systems

## SOLAR-ASSISTED HEAT PUMPS

INIS: 1992-08-20; ETDE: 1976-08-24

BT1 heat pumps

\*BT1 solar air conditioners

\*BT1 solar heating systems

RT ground source heat pumps

## SOLAR-ASSISTED POWER SYSTEMS

INIS: 1993-01-22; ETDE: 1977-04-12

\*BT1 power systems

RT heat engines

RT thermal energy storage equipment

## SOLAR ATMOSPHERE

\*BT1 stellar atmospheres

NT1 chromosphere

NT1 heliosphere

NT1 photosphere

NT1 solar corona

RT sun

## solar batteries

1992-05-29

USE solar cell arrays

## SOLAR BATTERY CHARGERS

INIS: 1992-07-23; ETDE: 1976-01-23

\*BT1 battery chargers

\*BT1 solar equipment

## SOLAR CELL ARRAYS

1992-05-29

UF solar batteries

\*BT1 solar equipment

NT1 solar tracking systems

RT photovoltaic cells

RT photovoltaic power plants

RT photovoltaic power supplies

RT solar cells

## solar cell receivers

INIS: 1992-05-29; ETDE: 1979-09-26

USE solar receivers

## SOLAR CELLS

1997-06-19

\*BT1 photovoltaic cells

\*BT1 solar equipment

NT1 aluminium arsenide solar cells

NT1 back contact solar cells

NT1 cadmium arsenide solar cells

NT1 cadmium selenide solar cells

NT1 cadmium sulfide solar cells

NT1 cadmium telluride solar cells

NT1 cascade solar cells

NT1 concentrator solar cells

NT1 copper oxide solar cells

NT1 copper selenide solar cells

NT1 copper sulfide solar cells

NT1 gallium arsenide solar cells

NT1 gallium phosphide solar cells

NT1 indium phosphide solar cells

NT1 indium selenide solar cells

NT1 mi solar cells

NT1 mis solar cells

NT1 mos solar cells

NT1 ms solar cells

NT1 organic solar cells

NT1 pis solar cells

NT1 ps solar cells

NT1 schottky barrier solar cells

NT1 selenium solar cells

NT1 silicon arsenide solar cells

NT1 silicon solar cells

NT2 soc solar cells

NT1 zinc phosphide solar cells

NT1 zinc sulfide solar cells

RT combined collectors

RT depletion layer

RT graded band gaps

RT photovoltaic power supplies

RT solar cell arrays

RT solar collectors

## solar central receivers

INIS: 1993-01-28; ETDE: 1993-02-04

USE central receivers

## SOLAR CHIMNEYS

INIS: 2000-04-12; ETDE: 1984-11-08

BT1 chimneys

RT solar thermal power plants

RT tornado turbines

RT wind turbines

## SOLAR COLLECTORS

1997-06-17

\*BT1 solar equipment

NT1 combined collectors

NT1 concentrating collectors

NT2 fixed mirror collectors

NT2 parabolic collectors

NT3 parabolic dish collectors

NT3 parabolic trough collectors

NT2 slat type collectors

NT2 tower focus collectors

NT2 v trough collectors

NT1 evacuated collectors

NT2 evacuated tube collectors

NT1 flat plate collectors

NT2 trickle-type collectors

NT1 inflatable collectors

NT1 solar air heaters

NT1 solar ponds

NT2 roof ponds

NT1 solar tracking systems

NT1 unglazed solar collectors

RT black liquids

RT central receivers

RT f-chart

RT honeycomb structures

RT solar absorbers

RT solar cells

RT solar furnaces

RT solar receivers

RT thermic diode solar panels

## SOLAR CONCENTRATORS

INIS: 1992-05-28; ETDE: 1975-10-28

\*BT1 solar equipment

NT1 cassegrainian concentrators

NT1 compound parabolic concentrators

NT1 luminescent concentrators

NT1 solar reflectors

NT2 fresnel reflectors

NT2 orbital solar reflectors

NT2 parabolic reflectors

NT3 parabolic dish reflectors

NT3 parabolic trough reflectors

RT concentrating collectors

RT concentration ratio

RT concentrator solar cells

RT fresnel lens

RT mirrors

RT solar receivers

## SOLAR CONSTANT

1979-01-18

*Solar energy flux just outside the earth's atmosphere at the earth's mean distance from the sun.*

RT solar radiation

## SOLAR CONTROL FILMS

INIS: 2000-04-12; ETDE: 1980-02-11

BT1 films  
RT coatings  
RT heat mirrors  
RT reflective coatings  
RT windows

## SOLAR COOKERS

2000-04-12

\*BT1 solar equipment  
RT solar cooking

## SOLAR COOKING

2000-04-12

RT solar cookers  
RT solar heating

## SOLAR COOLING SYSTEMS

INIS: 1994-09-29; ETDE: 1977-07-23

\*BT1 solar equipment  
NT1 passive solar cooling systems  
NT2 bead walls  
NT2 drum walls  
NT2 roof ponds  
NT1 solar air conditioners  
NT2 solar-assisted heat pumps  
NT1 solar refrigerators  
RT cold storage  
RT solar architecture

## SOLAR CORONA

UF corona (solar)  
\*BT1 solar atmosphere  
\*BT1 stellar coronae  
RT solar prominences  
RT solar wind  
RT sun

## SOLAR CYCLE

RT international solar maximum year  
RT solar activity  
RT sun  
RT sunspots

## SOLAR DISTILLATION

1999-07-13

(Until July 1999 this information was indexed by SOLAR ENERGY and DISTILLATION.)

\*BT1 distillation  
RT solar process heat  
RT solar stills

## SOLAR DISTRICT HEATING

INIS: 2000-04-12; ETDE: 1979-09-26

*District heating using a solar source for all or part of the heat supply.*

\*BT1 district heating  
\*BT1 solar heating  
RT central heating plants  
RT solar heating systems  
RT solar space heating

## *solar domestic water heating*

INIS: 2000-04-12; ETDE: 1977-12-22

USE solar water heating

## SOLAR DRYERS

2000-04-12

*Dryers using a solar heat source, primarily used for crop drying. For wood drying, use SOLAR KILNS.*

BT1 dryers  
\*BT1 solar equipment

RT solar furnaces

RT solar process heat

## SOLAR DRYING

INIS: 1976-10-07; ETDE: 1975-11-11

BT1 drying  
RT solar heating  
RT solar process heat

## SOLAR ELECTRIC PROPULSION

2000-04-12

BT1 propulsion

## *solar electron events*

(Prior to August 1985 this concept was expressed by coordination of ELECTRONS and ENERGETIC SOLAR PARTICLES.)

USE solar electrons

## SOLAR ELECTRONS

INIS: 1985-07-22; ETDE: 1975-08-19

(Prior to August 1985 this concept was expressed by coordination of ELECTRONS and ENERGETIC SOLAR PARTICLES.)

UF solar electron events

\*BT1 electrons  
\*BT1 solar particles

## SOLAR ENERGY

BT1 energy  
\*BT1 renewable energy sources  
RT national renewable energy laboratory  
RT solar architecture  
RT solar heating  
RT solar industry  
RT solar radiation  
RT solar rights  
RT sun

## SOLAR ENERGY CONVERSION

1991-12-11

\*BT1 energy conversion  
NT1 ocean thermal energy conversion  
NT1 solar thermal conversion  
RT photoelectrolysis

## *solar energy information data bank*

INIS: 2000-04-12; ETDE: 1981-07-18

USE seidb

## *solar energy research institute*

INIS: 1994-06-13; ETDE: 1978-02-14

(Until June 1994 this was a valid descriptor.)

USE national renewable energy laboratory

## SOLAR EQUIPMENT

INIS: 1992-02-22; ETDE: 1980-03-04

BT1 equipment  
NT1 heliostats  
NT2 solar tracking systems  
NT1 photovoltaic power supplies  
NT1 pyranometers  
NT1 pyrhemometers  
NT1 solar absorbers  
NT1 solar battery chargers  
NT1 solar cell arrays  
NT2 solar tracking systems  
NT1 solar cells  
NT2 aluminium arsenide solar cells  
NT2 back contact solar cells  
NT2 cadmium arsenide solar cells  
NT2 cadmium selenide solar cells  
NT2 cadmium sulfide solar cells  
NT2 cadmium telluride solar cells  
NT2 cascade solar cells  
NT2 concentrator solar cells  
NT2 copper oxide solar cells  
NT2 copper selenide solar cells  
NT2 copper sulfide solar cells  
NT2 gallium arsenide solar cells  
NT2 gallium phosphide solar cells  
NT2 indium phosphide solar cells

NT2 indium selenide solar cells

NT2 mi solar cells

NT2 mis solar cells

NT2 mos solar cells

NT2 ms solar cells

NT2 organic solar cells

NT2 pis solar cells

NT2 ps solar cells

NT2 schottky barrier solar cells

NT2 selenium solar cells

NT2 silicon arsenide solar cells

NT2 silicon solar cells

NT3 soc solar cells

NT2 zinc phosphide solar cells

NT2 zinc sulfide solar cells

NT1 solar collectors

NT2 combined collectors

NT2 concentrating collectors

NT3 fixed mirror collectors

NT3 parabolic collectors

NT4 parabolic dish collectors

NT4 parabolic trough collectors

NT3 slat type collectors

NT3 tower focus collectors

NT3 v trough collectors

NT2 evacuated collectors

NT3 evacuated tube collectors

NT2 flat plate collectors

NT3 trickle-type collectors

NT2 inflatable collectors

NT2 solar air heaters

NT2 solar ponds

NT3 roof ponds

NT2 solar tracking systems

NT2 unglazed solar collectors

NT1 solar concentrators

NT2 cassegrainian concentrators

NT2 compound parabolic concentrators

NT2 luminescent concentrators

NT2 solar reflectors

NT3 fresnel reflectors

NT3 orbital solar reflectors

NT3 parabolic reflectors

NT4 parabolic dish reflectors

NT4 parabolic trough reflectors

NT1 solar cookers

NT1 solar cooling systems

NT2 passive solar cooling systems

NT3 bead walls

NT3 drum walls

NT3 roof ponds

NT2 solar air conditioners

NT3 solar-assisted heat pumps

NT2 solar refrigerators

NT1 solar dryers

NT1 solar furnaces

NT1 solar heating systems

NT2 passive solar heating systems

NT3 bead walls

NT3 direct gain systems

NT3 drum walls

NT3 roof ponds

NT3 thermic diode solar panels

NT3 trombe walls

NT3 water walls

NT2 solar-assisted heat pumps

NT1 solar kilns

NT1 solar regenerators

NT1 solar simulators

NT1 solar stills

NT1 solar water heaters

NT2 passive solar water heaters

NT3 thermic diode solar panels

NT1 solar water pumps

NT1 spectrally selective surfaces

RT photoelectrochemical cells

RT thermal energy storage equipment

**SOLAR FLARES**

- \*BT1 solar activity
- \*BT1 stellar flares
- RT chromosphere
- RT forrush decrease
- RT magnetic reconnection
- RT solar particles
- RT solar radiation
- RT solar radio bursts
- RT solar wind
- RT solar x-ray bursts
- RT space flight
- RT sun
- RT sunspots
- RT supersonic transport

**SOLAR FLUX**

1992-04-08

- BT1 radiation flux
- NT1 diffuse solar radiation
- NT1 direct solar radiation
- RT insolation
- RT pyrheliometers
- RT radiative forcing
- RT shading
- RT solar radiation
- RT solar simulators

**SOLAR FRACTION**

INIS: 2000-04-12; ETDE: 1981-05-18

Ratio of solar contribution to net thermal load.

- RT energy conservation
- RT heat gain
- RT heating load

**SOLAR FURNACES**

1997-06-17

- BT1 furnaces
- \*BT1 solar equipment
- RT cnrs solar facility
- RT solar collectors
- RT solar dryers
- RT solar process heat
- RT white sands solar facility

**SOLAR GRANULATION**

Small "rice grain" structures on the photosphere of the Sun.

- UF granulation (solar)
- UF supergranulation
- \*BT1 solar activity
- RT photosphere
- RT sun

**SOLAR HEAT ENGINES**

1992-05-21

- \*BT1 heat engines
- RT brayton cycle power systems
- RT nitinol heat engines
- RT regeneration
- RT regenerators
- RT solar thermal conversion
- RT stirling engines

**SOLAR HEATING**

1992-09-07

(Until September 1992, this concept was indexed by HEATING and SOLAR ENERGY.)

- BT1 heating
- NT1 solar district heating
- NT1 solar space heating
- NT1 solar water heating
- RT cooling load
- RT heating load
- RT solar cooking
- RT solar drying
- RT solar energy

**SOLAR HEATING SYSTEMS**

INIS: 1992-08-20; ETDE: 1975-11-11

- SF freeze-cycle system
- \*BT1 heating systems
- \*BT1 solar equipment
- NT1 passive solar heating systems
- NT2 bead walls
- NT2 direct gain systems
- NT2 drum walls
- NT2 roof ponds
- NT2 thermic diode solar panels
- NT2 trombe walls
- NT2 water walls
- NT1 solar-assisted heat pumps
- RT f-chart
- RT solar architecture
- RT solar district heating
- RT solar process heat
- RT solar space heating

**SOLAR INDUSTRY**

INIS: 1993-01-21; ETDE: 1977-12-22

- BT1 industry
- RT solar energy

**SOLAR KILNS**

2000-04-12

- BT1 kilns
- \*BT1 solar equipment
- RT drying
- RT solar process heat

**solar models**

INIS: 1975-10-23; ETDE: 1975-12-16

- USE star models

**SOLAR NEBULA**

- BT1 nebulae
- RT cosmological models
- RT protoplanets
- RT solar system evolution

**SOLAR NEUTRINOS**

INIS: 1985-07-22; ETDE: 1975-07-29

(Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and NEUTRINOS.)

- \*BT1 neutrinos
- \*BT1 solar particles

**SOLAR NEUTRONS**

INIS: 1985-07-22; ETDE: 1976-04-19

(Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and NEUTRONS.)

- \*BT1 neutrons
- \*BT1 solar particles

**solar occultation**

- USE eclipse

**solar one power plant**

INIS: 2000-04-12; ETDE: 1983-04-07

- USE barstow solar pilot plant

**SOLAR PARTICLES**

1985-11-18

(Prior to December 1985 SOLAR RADIATION was used for this concept except where ENERGETIC SOLAR PARTICLES was appropriate.)

- UF energetic solar particles
- \*BT1 solar radiation
- NT1 solar alpha particles
- NT1 solar electrons
- NT1 solar neutrinos
- NT1 solar neutrons
- NT1 solar protons
- RT polar-cap absorption
- RT solar flares

**SOLAR PHOTOCHEMISTRY**

2005-05-25

- \*BT1 photochemistry
- RT photochemical energy storage
- RT solar radiation

**SOLAR PONDS**

INIS: 2000-05-08; ETDE: 1975-09-11

- \*BT1 ponds
- \*BT1 solar collectors
- NT1 roof ponds
- RT inflatable collectors
- RT solar water heaters

**SOLAR POWER PLANTS**

1976-07-06

- BT1 power plants
- NT1 ocean thermal power plants
- NT1 orbital solar power plants
- NT1 photovoltaic power plants
- NT1 salinity gradient power plants
- NT1 solar thermal power plants
- NT2 distributed collector power plants
- NT2 tower focus power plants
- NT3 barstow solar pilot plant
- RT orbital solar reflectors

**SOLAR PROCESS HEAT**

INIS: 2000-04-12; ETDE: 1978-03-03

- \*BT1 process heat
- RT solar distillation
- RT solar dryers
- RT solar drying
- RT solar furnaces
- RT solar heating systems
- RT solar kilns
- RT solar stills
- RT solar water heaters

**SOLAR PROMINENCES**

UF prominences (solar)

UF spicules

- \*BT1 solar activity
- RT solar corona
- RT sun

**solar proton events**

(Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and PROTONS.)

- USE solar protons

**SOLAR PROTONS**

INIS: 1985-07-22; ETDE: 1975-07-29

(Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and PROTONS.)

- UF solar proton events
- \*BT1 protons
- \*BT1 solar particles

**SOLAR RADIATION**

- \*BT1 stellar radiation
- NT1 diffuse solar radiation
- NT1 direct solar radiation
- NT1 solar particles
- NT2 solar alpha particles
- NT2 solar electrons
- NT2 solar neutrinos
- NT2 solar neutrons
- NT2 solar protons
- NT1 solar radiowave radiation
- RT cosmic radiation
- RT daylighting
- RT insolation
- RT pyranometers
- RT solar constant
- RT solar energy
- RT solar flares
- RT solar flux
- RT solar photochemistry

RT solar radio bursts  
 RT solar wind  
 RT solar x-ray bursts  
 RT sun  
 RT sun charts  
 RT zodiacal light

**SOLAR RADIO BURSTS**

\*BT1 radiowave radiation  
 \*BT1 solar activity  
 RT magnetic reconnection  
 RT radioastronomy  
 RT solar flares  
 RT solar radiation  
 RT solar radiowave radiation  
 RT sun

**SOLAR RADIOWAVE RADIATION**

INIS: 1976-03-17; ETDE: 1975-08-19

\*BT1 radiowave radiation  
 \*BT1 solar radiation  
 RT solar radio bursts

**SOLAR RECEIVERS**

INIS: 1992-05-28; ETDE: 1979-09-26

*Systems designed to receive concentrated sunlight and convert it to some other energy form. They incorporate an absorber or a concentrator solar cell assembly.*

UF receivers (solar)  
 UF solar cell receivers  
 UF solar thermal receivers  
 NT1 cavity receivers  
 NT1 central receivers  
 NT1 external receivers  
 RT concentrating collectors  
 RT concentrator solar cells  
 RT solar absorbers  
 RT solar collectors  
 RT solar concentrators  
 RT solar thermal conversion

**SOLAR REFLECTORS**

1992-07-09

\*BT1 solar concentrators  
 NT1 fresnel reflectors  
 NT1 orbital solar reflectors  
 NT1 parabolic reflectors  
 NT2 parabolic dish reflectors  
 NT2 parabolic trough reflectors  
 RT mirrors  
 RT optical systems

**SOLAR REFRIGERATION**

1994-09-29

\*BT1 refrigeration  
 RT solar refrigerators

**SOLAR REFRIGERATORS**

1994-09-29

BT1 refrigerators  
 \*BT1 solar cooling systems  
 RT solar refrigeration

**SOLAR REGENERATORS**

INIS: 2000-04-12; ETDE: 1979-07-18

*Systems or devices for regenerating absorbent solutions by solar heating; used in absorption solar air conditioning.*

BT1 regenerators  
 \*BT1 solar equipment  
 RT solar air conditioning

**SOLAR REPOWERING**

INIS: 2000-04-12; ETDE: 1980-10-07

*The adaptation of a solar thermal steam supply system into an existing thermal power plant.*

(Prior to October 1980 this concept in ETDE was indexed by RETROFITTING.)

SF repowering  
 RT fossil-fuel power plants

RT retrofitting  
 RT solar thermal power plants

**SOLAR RIGHTS**

INIS: 2000-04-12; ETDE: 1978-04-05

*The legal right to solar access.*

RT laws  
 RT legal aspects  
 RT ownership  
 RT solar access  
 RT solar energy

**solar sea power plants**

INIS: 1991-12-11; ETDE: 1977-04-12

USE ocean thermal power plants

**SOLAR SIMULATORS**

INIS: 2000-04-12; ETDE: 1975-12-16

*Equipment to simulate the solar flux for test purposes.*

\*BT1 simulators  
 \*BT1 solar equipment  
 RT insolation  
 RT solar flux

**SOLAR SPACE HEATING**

1992-09-07

\*BT1 solar heating  
 \*BT1 space heating  
 RT solar district heating  
 RT solar heating systems

**SOLAR STILLS**

2000-04-12

*Distillation apparatuses that use solar radiation heating to evaporate the water. Can be used for water purification or desalting.*

BT1 evaporators  
 \*BT1 solar equipment  
 RT solar distillation  
 RT solar process heat

**SOLAR SYSTEM**

RT asteroids  
 RT comets  
 RT halley comet  
 RT interplanetary space  
 RT meteoroids  
 RT planets  
 RT solar system evolution  
 RT sun

**SOLAR SYSTEM EVOLUTION**

(From November 1975 till March 1997

PLANETARY EVOLUTION was a valid ETDE descriptor.)

UF planetary evolution  
 BT1 evolution  
 RT planet-system accretion  
 RT protoplanets  
 RT solar nebula  
 RT solar system  
 RT star evolution

**SOLAR THERMAL CONVERSION**

INIS: 1992-04-07; ETDE: 1981-09-08

*Use for overviews of solar thermal program.*

\*BT1 solar energy conversion  
 RT solar heat engines  
 RT solar receivers  
 RT solar thermal power plants

**SOLAR THERMAL POWER PLANTS**

1992-03-11

\*BT1 solar power plants  
 \*BT1 thermal power plants  
 NT1 distributed collector power plants  
 NT1 tower focus power plants  
 NT2 barstow solar pilot plant  
 RT microgeneration  
 RT solar chimneys  
 RT solar repowering

RT solar thermal conversion

**solar thermal receivers**

INIS: 1992-05-29; ETDE: 1979-09-26

USE solar receivers

**solar thermal test facility**

INIS: 2000-04-12; ETDE: 1981-07-18

USE central receiver test facility

**SOLAR TRACKING**

2000-04-12

NT1 solar tracking systems  
 RT control equipment  
 RT heliostats  
 RT tilt mechanisms

**SOLAR TRACKING SYSTEMS**

INIS: 2000-04-12; ETDE: 1983-02-09

\*BT1 heliostats  
 \*BT1 solar cell arrays  
 \*BT1 solar collectors  
 BT1 solar tracking

**SOLAR WATER HEATERS**

1997-06-17

SF freeze-cycle system  
 \*BT1 solar equipment  
 \*BT1 water heaters  
 NT1 passive solar water heaters  
 NT2 thermic diode solar panels  
 RT f-chart  
 RT solar ponds  
 RT solar process heat  
 RT solar water heating

**SOLAR WATER HEATING**

INIS: 1992-09-07; ETDE: 1977-12-22

*Use for solar domestic water heating; not for process hot water.*

UF solar domestic water heating  
 \*BT1 solar heating  
 \*BT1 water heating  
 RT solar water heaters

**SOLAR WATER PUMPS**

1992-04-10

\*BT1 solar equipment  
 \*BT1 water pumps

**SOLAR WIND**

\*BT1 solar activity  
 \*BT1 stellar winds  
 RT chapman-ferraro problem  
 RT expansion  
 RT forrush decrease  
 RT geocorona  
 RT loss cone  
 RT magnetosheath  
 RT plasma  
 RT radiation pressure  
 RT solar corona  
 RT solar flares  
 RT solar radiation  
 RT sun

**SOLAR X-RAY BURSTS**

\*BT1 solar activity  
 RT magnetic reconnection  
 RT solar flares  
 RT solar radiation  
 RT sun  
 RT x radiation

**SOLAS CONVENTION**

*London Convention on Safety of Life at Sea.*

UF london safety of life at sea convention  
 UF safety of life at sea convention  
 UF sea, safety of life at, convention  
 \*BT1 multilateral agreements  
 RT civil liability  
 RT nuclear ships



RT recommendations  
RT regulations

**solder fluxes**

INIS: 2000-04-12; ETDE: 1975-08-19  
(Prior to October 1981, this was a valid ETDE descriptor.)

USE metallurgical flux

**SOLDERED JOINTS**

BT1 joints  
RT soldering

**SOLDERING**

UF soft soldering  
\*BT1 welding  
RT brazing  
RT soldered joints

**soldering fluxes**

INIS: 1981-08-06; ETDE: 1981-09-22  
USE metallurgical flux

**SOLENOIDS**

UF inductors  
UF superconducting solenoids  
\*BT1 electric coils  
RT actuators  
RT magnet coils

**SOLFATARAS**

2000-04-12  
Fumaroles, the gases of which are characteristically sulfurous.  
BT1 fumaroles

**solfrac process**

INIS: 2000-04-12; ETDE: 1977-01-28  
Combination of chemical explosive fracturing and solvent injection for heavy-oil recovery. (Prior to January 1995, this was a valid ETDE descriptor.)  
USE enhanced recovery  
USE explosive fracturing

**SOLID CLUSTERS**

UF clusters (solid)  
RT solids

**SOLID ELECTROLYTE FUEL CELLS**

INIS: 1992-05-20; ETDE: 1989-04-12  
(Prior to April 1989 this subject was indexed to HIGH-TEMPERATURE FUELS or FUEL CELLS.)  
\*BT1 fuel cells  
NT1 proton exchange membrane fuel cells  
NT1 solid oxide fuel cells

**SOLID ELECTROLYTES**

INIS: 1981-10-15; ETDE: 1979-05-09  
BT1 electrolytes  
RT electric batteries  
RT fuel cells

**SOLID FUELS**

1999-05-06  
BT1 fuels  
NT1 alloy nuclear fuels  
NT2 uranium-molybdenum fuels  
NT1 briquets  
NT1 dispersion nuclear fuels  
NT1 mixed carbide fuels  
NT1 mixed nitride fuels  
NT1 mixed oxide fuels  
NT1 peat  
NT1 wood fuels  
RT bark  
RT biomass  
RT charcoal  
RT coal  
RT coke  
RT pulverized fuels

RT wood

**SOLID HOMOGENEOUS REACTORS**

\*BT1 homogeneous reactors  
NT1 acpr reactor  
NT1 aerojet-general nucleonics reactors  
NT2 agn 201 costanza  
NT1 akr-1 reactor  
NT1 anex reactor  
NT1 ebora reactor  
NT1 nsrr reactor  
NT1 pebble bed reactors  
NT2 avr reactor  
NT2 thtr-300 reactor  
NT2 vg-400 reactor  
NT2 vgr-50 reactor  
NT1 romashka reactor  
NT1 shca reactor  
NT1 sur-100 series reactor  
NT1 treat reactor  
NT1 triga type reactors  
NT2 afri reactor  
NT2 atrp reactor  
NT2 colorado triga-mk-3 reactor  
NT2 cornell triga-mk-2 reactor  
NT2 dow triga-mk-1 reactor  
NT2 fir-1 reactor  
NT2 fir-2 reactor  
NT2 fn reactor  
NT2 gulf triga-mk-3 reactor  
NT2 kartini-ppny reactor  
NT2 lopra reactor  
NT2 nscr reactor  
NT2 ostr reactor  
NT2 prpr reactor  
NT2 psbr reactor  
NT2 rtp reactor  
NT2 trico ii reactor  
NT2 trico reactor  
NT2 triga-1-arizona reactor  
NT2 triga-1-california reactor  
NT2 triga-1-hanford reactor  
NT2 triga-1-hanover reactor  
NT2 triga-1-heidelberg reactor  
NT2 triga-1-michigan reactor  
NT2 triga-2-bandung reactor  
NT2 triga-2-bangladesh reactor  
NT2 triga-2-dalat reactor  
NT2 triga-2-illinois reactor  
NT2 triga-2-kansas reactor  
NT2 triga-2-ljubljana reactor  
NT2 triga-2-mainz reactor  
NT2 triga-2-musashi reactor  
NT2 triga-2-pavia reactor  
NT2 triga-2-pitesti reactor  
NT2 triga-2 reactor  
NT2 triga-2-rikkyo reactor  
NT2 triga-2-rome reactor  
NT2 triga-2-seoul reactor  
NT2 triga-2-vienna reactor  
NT2 triga-3-la jolla reactor  
NT2 triga-3-munich reactor  
NT2 triga-3-salazar reactor  
NT2 triga-3-seoul reactor  
NT2 triga-brazil reactor  
NT2 triga-texas reactor  
NT2 triga-veterans reactor  
NT2 ucbr reactor  
NT2 uwnr reactor  
NT2 wsur reactor

**SOLID LUBRICANTS**

BT1 lubricants  
RT graphite

**solid moderated reactor**

2000-04-12  
SEE graphite moderated reactors

**SOLID OXIDE FUEL CELLS**

INIS: 2000-04-12; ETDE: 1999-09-09  
UF soft  
\*BT1 high-temperature fuel cells  
\*BT1 solid electrolyte fuel cells

**SOLID SCINTILLATION DETECTORS**

\*BT1 scintillation counters  
NT1 bgo detectors  
NT1 nai detectors  
NT1 plastic scintillation detectors  
RT glass scintillators  
RT inorganic phosphors  
RT organic crystal phosphors

**SOLID SOLUTIONS**

\*BT1 solutions  
RT alloys  
RT austenite  
RT ferrite  
RT phase diagrams  
RT solids  
RT superlattices

**SOLID STATE LASERS**

1997-06-05  
BT1 lasers  
NT1 diode-pumped solid state lasers  
NT1 neodymium lasers  
NT1 ruby lasers  
NT1 semiconductor lasers  
RT us national ignition facility

**SOLID STATE PHYSICS**

INIS: 1976-08-17; ETDE: 1976-02-19  
Use only for articles of a very broad nature such as an annual research program, etc.  
BT1 physics  
RT crystal structure  
RT vortex theory

**SOLID-STATE PLASMA**

1999-10-07  
UF electron-hole plasma  
BT1 plasma  
NT1 electron-hole droplets  
RT electron gas  
RT plasmons

**SOLID WASTES**

UF refuse  
SF emissions (industrial)  
BT1 wastes  
NT1 mineral wastes  
NT2 culm  
NT1 scrap  
NT2 scrap metals  
NT1 spoil banks  
NT1 tailings  
NT2 mill tailings  
NT2 oil sand tailings  
NT1 waste pellets  
NT1 wood wastes  
RT ashes  
RT biological wastes  
RT calcined wastes  
RT combustion products  
RT dredge spoil  
RT emissions tax  
RT fly ash  
RT ground disposal  
RT industrial wastes  
RT landgard pyrolysis system  
RT municipal wastes  
RT organic wastes  
RT purox pyrolysis process  
RT refuse derived fuels  
RT spent shales  
RT waste disposal  
RT waste disposal acts

RT waste forms

## SOLIDIFICATION

UF fixation (waste treatment)

SF immobilization (wastes)

BT1 phase transformations

RT castings

RT ceramic melters

RT crystallization

RT freezing

RT frost

RT harvest process

RT melting

RT segregation

RT solids

RT supercooling

RT vitrification

RT waste processing

## SOLIDS

RT crystals

RT dispersions

RT glass

RT microstructure

RT nanostructures

RT phase diagrams

RT solid clusters

RT solid solutions

RT solidification

RT structure factors

## SOLIDS FLOW

INIS: 2000-05-19; ETDE: 1985-04-09

BT1 fluid flow

RT hydraulics

RT materials handling

## SOLINOX PROCESS

INIS: 2000-04-12; ETDE: 1985-12-13

\*BT1 desulfurization

RT denitrification

## SOLITONS

Stable, shape preserving and localized solutions of nonlinear classical field equations of recent interest as possible models of extended elementary particles.

UF skyrmions

BT1 quasi particles

RT baecklund transformation

RT extended particle model

RT field equations

RT instantons

RT phonons

RT shock waves

RT vortex theory

## SOLOMON ISLANDS

2018-06-27

BT1 developing countries

BT1 islands

BT1 oceania

## SOLS

\*BT1 colloids

NT1 aerosols

NT2 radioactive aerosols

NT2 smokes

NT3 tobacco smokes

RT solutions

## SOLUBILITY

UF miscibility

RT crystallization

RT dissolution

RT leaching

RT mixing

RT precipitation

RT saturation

RT solutes

RT solutions

RT solvent properties

RT solvents

RT supersaturation

## SOLUBLE POISONS

\*BT1 nuclear poisons

RT fluid poison control

RT scram

## SOLUTES

INIS: 1986-05-23; ETDE: 1982-03-10

UF dissolved materials

UF dissolved solids

NT1 dissolved gases

RT additives

RT dissolution

RT solubility

RT solutions

RT solvents

## SOLUTION HEAT

UF heat of solution

\*BT1 enthalpy

RT mixing heat

## SOLUTION MINING

INIS: 1976-07-16; ETDE: 1976-02-19

\*BT1 in-situ processing

BT1 mining

RT leaching

RT solvent extraction

RT uranium ores

## SOLUTIONS

1999-10-11

For chemical solutions only. For mathematics see the word block of MATHEMATICAL SOLUTIONS.

\*BT1 homogeneous mixtures

NT1 aqueous solutions

NT1 fuel solutions

NT1 hypertonic solutions

NT1 isotonic solutions

NT1 leachates

NT1 process solutions

NT1 solid solutions

RT brines

RT buffers

RT dilution

RT dissolution

RT organic solvents

RT saturation

RT sols

RT solubility

RT solutes

RT solvents

RT supersaturation

## solvation

USE solvation

## SOLVATED ELECTRONS

UF hydrated electrons

\*BT1 electrons

RT solvation

## SOLVATION

The chemical union of a dissolved substance and its dissolving liquid.

UF solvation

NT1 hydration

RT nonaqueous solvents

RT solvated electrons

## SOLVENT EXTRACTION

1996-07-18

UF cosorb process

UF extraction (solvent)

UF liquid-liquid extraction

SF arco process

\*BT1 extraction

NT1 phenosolvan process

NT1 supercritical gas extraction

RT amex process

RT civex process

RT cmpo

RT counter current

RT crown ethers

RT csrex process

RT dapex process

RT diamex process

RT dissolution

RT distribution functions

RT entrainment

RT eurex process

RT extraction apparatuses

RT hydrometallurgy

RT leachates

RT leaching

RT partition

RT podbielniak contactors

RT purex process

RT redox process

RT reprocessing

RT salting-out agents

RT solution mining

RT solvent properties

RT talspeak process

RT thorex process

RT tramex process

RT truex process

RT zirflex process

## SOLVENT PROPERTIES

1994-06-27

RT dissolution

RT solubility

RT solvent extraction

RT solvents

## SOLVENT-REFINED COAL

2000-04-12

\*BT1 alternative fuels

RT coal

RT coal preparation plants

RT lc-finng

RT src process

## solvent-refined coal process

2000-04-12

USE src process

## solvent-refining coal plants

INIS: 2000-03-29; ETDE: 1979-05-31

SEE coal preparation plants

SEE src process

## SOLVENTS

UF diluents

UF polar solvents

NT1 mixed solvents

NT1 nonaqueous solvents

NT2 organic solvents

NT3 cellosolves

NT3 solvesso

NT3 turpentine

RT dissolution

RT solubility

RT solutes

RT solutions

RT solvent properties

## SOLVESSO

\*BT1 organic solvents

RT aromatics

## SOLVOLYSIS

\*BT1 decomposition

NT1 acetolysis

NT1 ammonolysis

NT1 hydrolysis

NT2 acid hydrolysis

NT2 alkaline hydrolysis

NT2 autohydrolysis

- NT2 enzymatic hydrolysis  
 NT2 saccharification  
 NT2 saponification

**SOMALIA**

- BT1 africa  
 BT1 arab countries  
 BT1 developing countries

**SOMATIC CELLS**

- BT1 animal cells  
 NT1 cho cells  
 NT1 connective tissue cells  
 NT2 bone cells  
 NT2 bone marrow cells  
 NT2 fat cells  
 NT2 fibroblasts  
 NT2 lymphocytes  
 NT2 macrophages  
 NT2 mast cells  
 NT2 plasma cells  
 NT1 crypt cells  
 NT1 liver cells  
 NT1 nerve cells  
 NT1 phagocytes  
 NT2 macrophages  
 NT1 respiratory tract cells  
 NT1 spleen cells  
 NT1 stem cells  
 NT1 thymocytes  
 NT1 thymus cells  
 NT1 thyroid cells

**SOMATIC MUTATIONS**

- BT1 mutations

**SOMATICALLY SIGNIFICANT DOSE**

- INIS: 1976-01-28; ETDE: 1990-11-26  
 \*BT1 radiation doses  
 RT radiation hazards

**SOMATOSTATIN**

- INIS: 1980-05-14; ETDE: 1979-02-05  
 UF growth hormone-release inhibiting factor  
 UF somatotropin release inhibiting factor  
 RT hormones  
 RT polypeptides  
 RT sth

**somatotropic hormone**

- USE sth

**somatotropin release inhibiting factor**

- INIS: 1993-11-09; ETDE: 1979-02-05  
 USE somatostatin

**SOMMERFELD CONSTANT**

- UF sommerfeld fine structure constant  
 BT1 dimensionless numbers  
 RT fine structure

**sommerfeld fine structure constant**

- USE sommerfeld constant

**sommerfeld integrals**

- INIS: 2000-04-12; ETDE: 1975-10-01  
 In addition to the descriptor below, use ANTENNAS if relevant.  
 (Prior to May 1996 this was a valid ETDE descriptor.)  
 USE integrals

**SOMMERFELD-WATSON THEORY**

- UF watson method  
 RT quantum mechanics

**SONAR**

- INIS: 1994-07-01; ETDE: 1976-11-01  
 (Until June 1994 this concept was indexed to RANGE FINDERS.)

- UF sound navigation and ranging  
 \*BT1 range finders  
 RT electrical equipment  
 RT electronic equipment  
 RT frequency range  
 RT sound waves

**sondes**

- INIS: 2000-04-12; ETDE: 1978-05-03  
 USE probes

**SONIC LOGGING**

- INIS: 1984-04-04; ETDE: 1976-06-07  
 BT1 well logging  
 RT acoustic measurements  
 RT acoustic monitoring  
 RT seismic sources  
 RT sonic probes

**sonic measurements**

- INIS: 1991-09-18; ETDE: 1976-07-07  
 USE acoustic measurements

**SONIC PROBES**

- INIS: 1975-08-22; ETDE: 1975-10-01  
 BT1 probes  
 RT acoustic measurements  
 RT ion acoustic waves  
 RT plasma diagnostics  
 RT sonic logging

**SONIC SPARK CHAMBERS**

- UF acoustic spark chambers  
 \*BT1 filmless spark chambers

**SOOT**

- INIS: 2000-04-05; ETDE: 1976-07-07  
 BT1 combustion products  
 BT1 particles  
 \*BT1 particulates  
 RT air pollution  
 RT carbon compounds  
 RT coal  
 RT smokes

**SORA REACTOR**

- \*BT1 fast reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 RT neutron sources

**SORBENT INJECTION PROCESSES**

- INIS: 1992-07-20; ETDE: 1990-03-30  
 \*BT1 desulfurization  
 RT adsorbents

**SORBENT RECOVERY SYSTEMS**

- INIS: 1992-03-09; ETDE: 1978-01-23  
 Recovery using sorptive materials.  
 RT adsorbents  
 RT oil spills  
 RT sorption  
 RT water pollution control

**SORBIC ACID**

- \*BT1 monocarboxylic acids

**SORBITOL**

- \*BT1 diuretics  
 \*BT1 monosaccharides  
 RT sorbose

**SORBOSE**

- \*BT1 hexoses  
 \*BT1 ketones  
 RT sorbitol

**SOREQ NUCLEAR RESEARCH CENTER**

- INIS: 1979-12-20; ETDE: 1979-11-23  
 \*BT1 israel atomic energy commission

**SORGHUM**

- \*BT1 cereals

**SORPTION**

- INIS: 1992-03-10; ETDE: 1976-08-25  
 NT1 absorption  
 NT2 energy absorption  
 NT2 intestinal absorption  
 NT2 k absorption  
 NT2 polar-cap absorption  
 NT2 resonance absorption  
 NT2 root absorption  
 NT2 self-absorption  
 NT2 skin absorption  
 NT1 adsorption  
 NT1 chemisorption  
 NT1 desorption  
 RT sorbent recovery systems  
 RT sorptive properties

**SORPTIVE PROPERTIES**

- 1992-02-23  
 UF adsorptive properties  
 BT1 surface properties  
 RT adsorbents  
 RT adsorbents  
 RT adsorption  
 RT bioadsorbents  
 RT sorption

**SORTING**

- INIS: 1986-04-04; ETDE: 1975-10-01  
 NT1 radiometric sorting  
 RT classification  
 RT concentrators  
 RT filters  
 RT jigs  
 RT particle size classifiers  
 RT screening  
 RT screens  
 RT separation processes

**soulaines plant**

- INIS: 1993-04-19; ETDE: 2002-06-13  
 USE aube plant

**SOULTZ-SOUS-FORETS GEOTHERMAL FIELD**

- 2005-02-21  
 Bas-Rhin, France.  
 BT1 geothermal fields  
 RT france

**sound**

- USE sound waves

**sound navigation and ranging**

- INIS: 1994-07-01; ETDE: 1976-11-02  
 USE sonar

**SOUND WAVES**

- 1997-04-30  
 See also FOURTH SOUND, SECOND SOUND, and THIRD SOUND.  
 UF first sound  
 UF sound  
 NT1 ultrasonic waves  
 RT acoustic agglomerators  
 RT acoustic detection  
 RT acoustic esr  
 RT acoustic measurements  
 RT acoustic monitoring  
 RT acoustic nmr  
 RT acoustic radar  
 RT acoustics  
 RT fifth sound

RT fourth sound  
 RT frequency mixing  
 RT harmonic generation  
 RT ion acoustic waves  
 RT magnetoacoustics  
 RT second sound  
 RT seismic sources  
 RT signal distortion  
 RT sonar  
 RT speech  
 RT speech synthesizers  
 RT third sound  
 RT zero sound

**soundproofing**

1995-07-03

USE acoustic insulation

**sour crude oil**

INIS: 1993-03-23; ETDE: 1993-04-16

USE sour crudes

**SOUR CRUDES**

INIS: 1993-03-23; ETDE: 1976-03-11

*Crude oils containing an abnormally large amount of sulfur and sulfur compounds.*

UF high-sulfur crude oil

UF sour crude oil

\*BT1 petroleum

RT hydrogen sulfides

RT sulfur

**SOURCE ROCKS**

INIS: 2000-04-12; ETDE: 1981-11-10

RT reservoir rock

RT rocks

**SOURCE TERMS**

INIS: 1985-11-19; ETDE: 1985-12-13

*Activities and amounts of the different radionuclides per unit time leaving a nuclear installation or facility and entering the environment, as during a severe reactor accident.*

RT containment

RT fission product release

RT fission products

RT meltdown

RT radiation doses

RT reactor accidents

RT risk assessment

**SOUTH AFRICA**

BT1 africa

BT1 developed countries

NT1 transvaal

RT namibia

**south africa nac cyclotron**

INIS: 1983-06-01; ETDE: 2002-06-13

USE nac cyclotron

**SOUTH AFRICAN ORGANIZATIONS**

INIS: 1987-05-26; ETDE: 1976-04-19

BT1 national organizations

**SOUTH ALLIGATOR DEPOSIT**

INIS: 1978-07-03; ETDE: 1978-08-07

\*BT1 uranium deposits

RT northern territory

RT uranium ores

**SOUTH AMERICA**

BT1 latin america

NT1 argentina

NT2 mendoza

NT1 bolivia

NT2 chacaltaya

NT1 brazil

NT1 chile

NT1 colombia

NT1 ecuador

NT1 french guiana

NT1 guyana

NT1 paraguay

NT1 peru

NT1 surinam

NT1 uruguay

NT1 venezuela

**south american fruit fly**

INIS: 1999-02-19; ETDE: 1999-11-18

USE anastrepha

**SOUTH ATLANTIC BIGHT**

INIS: 2000-04-12; ETDE: 1980-08-12

*The portion of the Atlantic Ocean overlying the continental shelf off North Carolina, South Carolina, Georgia, and Florida.*

\*BT1 atlantic ocean

RT coastal waters

RT continental shelf

RT mid-atlantic bight

RT onslow bay

**SOUTH AUSTRALIA**

\*BT1 australia

RT olympic dam mine

RT roxby downs deposit

**SOUTH CAROLINA**

1997-06-19

\*BT1 usa

RT santee river

RT savannah river

RT savannah river plant

RT us east coast

**south china sea**

INIS: 1992-01-16; ETDE: 1981-03-16

USE china sea

**SOUTH DAKOTA**

\*BT1 usa

NT1 table mountain area

RT missouri river

RT williston basin

**south haven michigan reactor**

ETDE: 2001-01-23

USE palisades-1 reactor

**south korea**

USE republic of korea

**SOUTH TEXAS PROJECT-1****REACTOR***STP Nuclear Operating Co., Bay City, Texas, USA.*

\*BT1 pwr type reactors

**SOUTH TEXAS PROJECT-2****REACTOR***STP Nuclear Operating Co., Bay City, Texas, USA.*

\*BT1 pwr type reactors

**SOUTH UKRAINIAN-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

*Ukraine.*

\*BT1 wwer type reactors

**SOUTH UKRAINIAN-2 REACTOR**

INIS: 1989-02-24; ETDE: 1988-12-02

*Ukraine.*

\*BT1 wwer type reactors

**SOUTH UKRAINIAN-3 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

*Ukraine.*

\*BT1 wwer type reactors

**south west africa**

1994-08-22

(Until August 1994 this was a valid descriptor.)

USE namibia

**south yemen**

INIS: 2000-04-12; ETDE: 1981-05-18

USE yemen

**southeast region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

**SOUTHEASTERN POWER****ADMINISTRATION**

INIS: 2000-04-12; ETDE: 1980-03-29

UF sepa

\*BT1 us doe

RT electric power

**SOUTHERN HEMISPHERE**

INIS: 1999-04-28; ETDE: 1980-09-22

*Both for the surface and the celestial hemisphere.*

\*BT1 earth planet

RT northern hemisphere

**southern negros geothermal field**

INIS: 1992-06-04; ETDE: 1984-02-23

USE palimpinon geothermal field

**SOUTHERN OSCILLATION**

INIS: 1992-06-12; ETDE: 1986-02-04

*A periodic barometric pressure fluctuation between the Indian Ocean region and the southeast Pacific Ocean.*

UF el nino

RT atmospheric circulation

RT atmospheric pressure

RT indian ocean

RT pacific ocean

**SOUTHERN RHODESIA**

UF rhodesia (southern)

\*BT1 zimbabwe

**southern yemen**

INIS: 2000-04-12; ETDE: 1980-08-12

USE yemen

**southwest africa**

INIS: 1984-07-20; ETDE: 2002-06-13

USE namibia

**southwest experimental fast oxide reactor**

1993-11-09

USE sefor reactor

**southwest region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

**SOUTHWESTERN POWER****ADMINISTRATION**

INIS: 1992-10-01; ETDE: 1980-03-29

UF swpa

\*BT1 us doe

RT electric power

**soviet breeder reactor-1**

USE sbr-1 reactor

**soviet breeder reactor-2**

USE sbr-2 reactor

**soviet breeder reactor-5**

USE sbr-5 reactor

**soviet research reactor irt**

USE irt reactor

**soviet research reactor irt-c**

2000-04-12

USE irt-c reactor

**soviet research reactor irt-f**

2000-04-12

USE irt-f reactor

**soviet union**

2000-04-12

All the constituents of the former USSR are listed below; use one or more as required. (Prior to September 1997 USSR was used for this concept.)

SEE armenia  
SEE azerbaijan  
SEE belarus  
SEE estonia  
SEE kazakhstan  
SEE kyrgyzstan  
SEE latvia  
SEE lithuania  
SEE moldova  
SEE republic of georgia  
SEE russian federation  
SEE tajikistan  
SEE turkmenistan  
SEE ukraine  
SEE uzbekistan

**SOXAL PROCESS**

INIS: 2000-04-12; ETDE: 1986-06-12

A regenerative wet scrubbing process which is based on the use of a high ph sodium solution to remove the sulfur oxides from flue gas.

\*BT1 desulfurization  
RT waste processing

**soy oil**

USE soybean oil

**SOYBEAN OIL**

UF chinese bean oil  
UF soja bean oil  
UF soy oil  
\*BT1 triglycerides  
\*BT1 vegetable oils

**soybean plant**

USE glycine hispida

**SOYBEANS**

BT1 seeds  
\*BT1 vegetables  
RT glycine hispida

**SP GROUPS**

UF symplectic groups  
\*BT1 lie groups

**SP LOGGING**

INIS: 2000-06-27; ETDE: 1976-06-07

UF self-potential logging  
UF spontaneous potential logging  
\*BT1 electric logging

**SPACE**

NT1 annular space  
NT2 toroidal configuration  
NT1 extracellular space  
NT1 intergalactic space  
NT1 interplanetary space  
NT1 interstellar space  
NT1 mathematical space  
NT2 anti de sitter space  
NT2 banach space

NT3 hilbert space  
NT2 de sitter space  
NT2 hausdorff space  
NT2 munkowski space  
NT2 phase space  
NT2 riemann space  
NT3 euclidean space  
RT space flight  
RT space vehicles

**SPACE CHARGE**

UF beam pervance  
RT charge distribution  
RT electric charges  
RT electron tubes

**space-charge layer**

INIS: 2000-04-12; ETDE: 1980-03-04

USE depletion layer

**space cooling**

2006-03-31

USE air conditioning

**SPACE DEPENDENCE**

1999-10-11

The dependence of any quantity or variable on space coordinates.

UF configuration dependence  
UF geometric sensitivity  
UF position dependence  
UF spatial dependence  
SF azimuth  
RT angular distribution  
RT coordinates  
RT mathematical space  
RT spatial distribution

**SPACE FLIGHT**

(From October 1980 till March 1997 SPACE TRANSPORT was a valid ETDE descriptor.)

RT apollo project  
RT cosmic radiation  
RT mars space probes  
RT ogo satellites  
RT orbiting solar observatories  
RT radiation protection  
RT reentry  
RT rockets  
RT satellites  
RT solar flares  
RT space  
RT space shuttles  
RT space vehicles  
RT venera space probes  
RT weightlessness

**SPACE GROUPS**

UF groups (space)  
BT1 symmetry groups  
RT crystal lattices  
RT group theory

**SPACE HEATERS**

INIS: 1999-03-05; ETDE: 1977-06-21

SF heat emission systems  
\*BT1 appliances  
BT1 heaters  
NT1 convectors  
RT space heating

**SPACE HEATING**

1976-02-11

BT1 heating  
NT1 auxiliary heating  
NT1 baseboard heating  
NT1 geothermal space heating  
NT1 solar space heating  
RT air source heat pumps  
RT airtightness  
RT annual cycle energy system

RT building technology suite  
RT central heating plants  
RT degree days  
RT district heating  
RT electric heating  
RT fireplaces  
RT ground source heat pumps  
RT heat production  
RT heating systems  
RT oil furnaces  
RT radiant cable heating  
RT space heaters  
RT water source heat pumps  
RT wood burning furnaces

**SPACE HVAC SYSTEMS**

INIS: 1999-05-26; ETDE: 1980-08-25

Heating, ventilation, and air conditioning systems.

SF thermally active structural components

BT1 energy systems  
RT air conditioners  
RT energy management systems  
RT gas heat pumps  
RT heating systems  
RT ventilation systems

**space lattices**

USE crystal lattices

**SPACE POWER REACTORS**

UF space power unit reactor

UF spur reactor

\*BT1 mobile reactors

\*BT1 power reactors

NT1 snap reactors

NT2 snap 10 reactor  
NT3 s10fs-1 reactor  
NT3 s10fs-3 reactor  
NT3 s10fs-4 reactor  
NT2 snap 2 reactor  
NT3 s2ds reactor  
NT2 snap 50 reactor  
NT2 snap 8 reactor  
NT3 s8dr reactor  
NT3 s8er reactor  
NT1 space propulsion reactors  
NT2 kiwi reactors  
NT3 kiwi-tnt reactor  
NT2 nerva reactor  
NT2 nrx-a1 reactor  
NT2 nrx-a2 reactor  
NT2 nrx-a3 reactor  
NT2 nrx-a4-est reactor  
NT2 nrx-a5 reactor  
NT2 nrx-a6 reactor  
NT2 nrx-a7 reactor  
NT2 pewee-1 reactor  
NT2 pewee-2 reactor  
NT2 pewee-3 reactor  
NT2 pewee-4 reactor  
NT2 phoebus-1a reactor  
NT2 phoebus-1b reactor  
NT2 phoebus-2a reactor  
NT2 rover reactors  
NT2 twmr reactor  
NT2 xe-2 reactor

**space power unit reactor**

2000-04-12

USE space power reactors

**SPACE PROPULSION REACTORS**

\*BT1 propulsion reactors  
\*BT1 space power reactors  
NT1 kiwi reactors  
NT2 kiwi-tnt reactor  
NT1 nerva reactor  
NT1 nrx-a1 reactor

**NT1** nrx-a2 reactor  
**NT1** nrx-a3 reactor  
**NT1** nrx-a4-est reactor  
**NT1** nrx-a5 reactor  
**NT1** nrx-a6 reactor  
**NT1** nrx-a7 reactor  
**NT1** pewee-1 reactor  
**NT1** pewee-2 reactor  
**NT1** pewee-3 reactor  
**NT1** pewee-4 reactor  
**NT1** phoebus-1a reactor  
**NT1** phoebus-1b reactor  
**NT1** phoebus-2a reactor  
**NT1** rover reactors  
**NT1** twmr reactor  
**NT1** xe-2 reactor  
**RT** fissioning plasma  
**RT** hydrogen cooled reactors

**space reflection**

USE p invariance

**SPACE SHUTTLES**

INIS: 1983-02-04; ETDE: 1979-09-26

**BT1** aircraft  
**\*BT1** space vehicles  
**RT** space flight

**SPACE-TIME**

**UF** spacetime  
**NT1** light cone  
**RT** anti de sitter space  
**RT** compactification  
**RT** cosmological constant  
**RT** cosmology  
**RT** de sitter space  
**RT** galilei transformations  
**RT** inflationary universe  
**RT** lorentz transformations  
**RT** mach principle  
**RT** mathematical space  
**RT** metrics  
**RT** relativity theory  
**RT** twistor theory

**SPACE-TIME MODEL**

INIS: 1982-12-07; ETDE: 1977-03-04

Particle-interaction model in which particles at the instant of creation are immature or bare and their maturity rate is enhanced in the presence of other hadronic matter, as in a nucleus.

**\*BT1** cluster emission model  
**RT** hadron reactions

**space transport**

INIS: 2000-04-12; ETDE: 1980-10-27

Use SPACE FLIGHT and/or SPACE

VEHICLES and/or the descriptor below, as appropriate.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE transport

**space vehicle components**

INIS: 2000-04-12; ETDE: 1976-08-24

Use descriptor for material or component if needed.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE space vehicles

**SPACE VEHICLES**

1995-09-08

(From January 1975 till March 1997 NOSE CONES was a valid ETDE descriptor; from August 1976 till March 1997 SPACE VEHICLE COMPONENTS was a valid ETDE descriptor; from October 1980 till March 1997 SPACE TRANSPORT was a valid ETDE descriptor.)

**UF** space vehicle components

**SF** nose cones

**BT1** vehicles

**NT1** international space station

**NT1** luna space probes

**NT1** mariner space probes

**NT1** mars space probes

**NT1** mir orbital station

**NT1** pioneer space probes

**NT1** reentry vehicles

**NT1** salyut orbital stations

**NT1** skylab

**NT1** space shuttles

**NT1** vega space probes

**NT1** venera space probes

**NT1** viking space probes

**NT1** voyager space probes

**RT** aerospace industry

**RT** electronic guidance

**RT** ionosondes

**RT** launching

**RT** navigational instruments

**RT** reentry

**RT** rockets

**RT** satellites

**RT** space

**RT** space flight

**RT** spacecraft power supplies

**RT** thrusters

**SPACE WEAPONS**

INIS: 2000-04-12; ETDE: 1984-11-29

**UF** anti-missile systems

**UF** anti-satellite systems

**RT** ballistic missile defense

**RT** directed-energy weapons

**RT** national defense

**SPACECRAFT POWER SUPPLIES**

**\*BT1** power supplies

**RT** electric power

**RT** radioisotope batteries

**RT** space vehicles

**SPACERS**

**RT** fins

**RT** fuel element clusters

**RT** reactor components

**spacetime**

INIS: 1984-07-20; ETDE: 2002-06-13

USE space-time

**spadns**

1996-10-23

Sulfophenyl-naphthalene-sulfonic acid.

(Until October 1996 this was a valid descriptor.)

USE sulfones

USE sulfonic acids

**SPAIN**

1995-04-03

**BT1** developing countries

**\*BT1** western europe

**NT1** canary islands

**RT** bay of biscay

**RT** oecd

**SPALLATION**

High-energy nuclear reaction resulting in the release of numerous nucleons, alpha particles

or heavier nuclei as reaction products; not to be used for fission.

**BT1** nuclear reactions

**RT** fission

**RT** nuclear fireball model

**RT** nuclear fragmentation

**RT** nuclear fragments

**RT** rudstam formula

**RT** spallation fragments

**SPALLATION FRAGMENTS**

INIS: 1978-11-24; ETDE: 1978-12-20

**UF** fragments (spallation)

**UF** spallation products

**BT1** nuclear fragments

**RT** spallation

**spallation neutron source (oak ridge)**

2016-06-09

USE oak ridge spallation neutron source

**SPALLATION NEUTRON SOURCE FACILITIES**

2016-06-09

**\*BT1** accelerator neutron source facilities

**NT1** china spallation neutron source

**NT1** european spallation source

**NT1** isis spallation neutron source

**NT1** kipt neutron source facility

**NT1** oak ridge spallation neutron source

**NT1** swiss spallation neutron source

**spallation products**

INIS: 1978-11-24; ETDE: 1978-12-20

USE spallation fragments

**spanish jen-1 research reactor**

USE jen-1 reactor

**spanish jen-2 research reactor**

USE jen-2 reactor

**SPANISH ORGANIZATIONS**

INIS: 1977-04-07; ETDE: 1977-06-03

**BT1** national organizations

**SPARGERS**

2000-07-11

Liquid distribution devices consisting of lengths of piping or tubing with holes at spaced intervals along the length.

**UF** perforated pipe distributors

**RT** sprays

**SPARK CHAMBERS**

**\*BT1** gas track detectors

**NT1** filmless spark chambers

**NT2** sonic spark chambers

**NT2** wire spark chambers

**NT1** projection spark chambers

**NT1** streamer spark chambers

**NT1** wide gap spark chambers

**RT** digitizers

**RT** spark counters

**SPARK COUNTERS**

**UF** rosenblum counters

**\*BT1** radiation detectors

**RT** corona counters

**RT** spark chambers

**SPARK DRILLS**

INIS: 2000-04-12; ETDE: 1976-07-07

**\*BT1** drills

**RT** drill bits

**RT** electric sparks

**RT** rock drilling

**RT** well drilling

**SPARK GAPS**

**RT** breakdown

**RT** electric discharges

RT electric sparks  
RT paschen law

**SPARK IGNITION ENGINES**

1997-06-19

\*BT1 internal combustion engines  
NT1 wankel engines  
RT automobiles  
RT carburetors  
RT combustion  
RT combustion chambers  
RT fuel injection systems  
RT gasoline

**SPARK MACHINING**

BT1 machining

**SPARK MASS SPECTROMETERS**

\*BT1 mass spectrometers

**sparks (electric)**

USE electric sparks

**SPARTICLES**

INIS: 1987-12-21; ETDE: 1988-03-16

UF supersymmetric particles  
\*BT1 postulated particles  
NT1 dilatons  
NT1 gluinos  
NT1 gravitinos  
NT1 higgsinos  
NT1 neutralinos  
NT1 photinos  
NT1 winos  
NT1 zinos

**spatial dependence**

INIS: 2000-04-12; ETDE: 1979-08-07

(Prior to August 1981, this was a valid ETDE descriptor.)

USE space dependence

**SPATIAL DISTRIBUTION**

Use for the distribution of any property or quantity in space, e.g. density or particle velocity.

UF depth distribution  
UF radial distribution  
BT1 distribution  
NT1 mass distribution  
RT angular distribution  
RT charge distribution  
RT plasma radial profiles  
RT space dependence  
RT temperature distribution

**SPATIAL DOSE DISTRIBUTIONS**

UF absorbed fraction (internal irradiation)  
UF distribution factor (rad doses)  
UF effective energy (internal irradiation)  
BT1 radiation dose distributions  
NT1 depth dose distributions  
RT buildup  
RT integral doses  
RT irradiation procedures  
RT isodose curves  
RT local irradiation  
RT microdosimetry  
RT nonuniform irradiation  
RT partial body irradiation

**SPATIAL RESOLUTION**

BT1 resolution

**speakeasy**

INIS: 2000-04-12; ETDE: 1980-02-11

(Prior to January 1995, this was a valid ETDE descriptor.)

USE programming languages

**SPEAR**

Stanford Positron-Electron Asymmetric Ring.

BT1 storage rings

**special power excursion reactor-1**

1993-11-09

USE spert-1 reactor

**special power excursion reactor-2**

1993-11-09

USE spert-2 reactor

**special power excursion reactor-3**

1993-11-09

USE spert-3 reactor

**special power excursion reactor-4**

1993-11-09

USE spert-4 reactor

**SPECIAL PRODUCTION REACTORS**

For producing fissionable materials such as uranium 233, californium 252, thorium 232, etc. See also PLUTONIUM PRODUCTION REACTORS.

\*BT1 production reactors  
NT1 c reactor  
NT1 k reactor  
NT1 l reactor  
NT1 p reactor  
NT1 r reactor

**SPECIAL RELATIVITY THEORY**

BT1 relativity theory  
RT dirac equation  
RT galilei transformations  
RT lorentz invariance  
RT lorentz transformations  
RT massless particles  
RT negative mass  
RT rest mass

**speciation (biological)**

INIS: 1987-08-27; ETDE: 2002-06-13

USE biological evolution

**speciation (chemical)**

INIS: 1987-08-27; ETDE: 2002-06-13

USE chemical state

**SPECIES DIVERSITY**

INIS: 1991-12-11; ETDE: 1978-01-23

UF biodiversity  
RT animals  
RT baseline ecology  
RT biological extinction  
RT ecological balance  
RT ecological succession  
RT ecology  
RT ecosystems  
RT plants  
RT populations

**specific gravity**

USE density

**SPECIFIC HEAT**

UF heat capacity  
\*BT1 thermodynamic properties  
NT1 electronic specific heat  
NT1 magnetic specific heat  
NT1 nuclear specific heat  
RT born-von karman theory  
RT debye temperature  
RT grueneisen constant

**SPECIFIC SURFACE AREA**

INIS: 1982-09-21; ETDE: 1991-03-08

Surface area per unit weight or volume of a particulate solid.

UF surface area (specific)  
BT1 physical properties

RT powders

**specific volume**

USE density

**specific weight**

USE density

**SPECIFICATIONS**

UF design (technical specifications)  
UF technical specifications  
RT camac system  
RT design  
RT engineering drawings  
RT inspection  
RT modifications  
RT patents  
RT quality control  
RT reliability  
RT standardization  
RT standards

**SPECIFICITY**

INIS: 1976-01-28; ETDE: 1976-08-24

The qualitative attribute of accurately distinguishing among different materials, properties, radiations, etc. as compared with the quantitative aspect of the threshold for detecting a given material, property, etc.; for which see SENSITIVITY.

RT accuracy  
RT sensitivity

**specimen holders**

INIS: 1976-03-25; ETDE: 1975-11-26

USE sample holders

**spect**

INIS: 1995-07-20; ETDE: 2002-06-13

USE single photon emission computed tomography

**SPECTRA**

NT1 absorption spectra  
NT1 alpha spectra  
NT1 beta spectra  
NT1 deuteron spectra  
NT1 electron spectra  
NT1 emission spectra  
NT1 energy spectra  
NT1 fission spectra  
NT1 gamma spectra  
NT1 infrared spectra  
NT1 mass spectra  
NT1 microwave spectra  
NT1 missing-mass spectra  
NT1 neutron spectra  
NT2 watt fission spectrum  
NT1 nmr spectra  
NT1 proton spectra  
NT1 raman spectra  
NT1 ultraviolet spectra  
NT2 extreme ultraviolet spectra  
NT1 visible spectra  
NT1 x-ray spectra  
RT balmer lines  
RT eddington theory  
RT fine structure  
RT fraunhofer lines  
RT hyperfine structure  
RT line broadening  
RT line narrowing  
RT line widths  
RT lyman lines  
RT multispectral scanners  
RT particle multiplets  
RT paschen lines  
RT raman effect  
RT rydberg-klein-rees method  
RT schumann-runge bands  
RT spectral response

*RT* spectral shift

### **spectra (absorption)**

2000-04-12

USE absorption spectra

### **spectra (fission)**

2000-04-12

USE fission spectra

### **spectra (neutron)**

2000-04-12

USE neutron spectra

### **SPECTRA UNFOLDING**

\*BT1 data processing

*RT* neutron spectra

### **spectral broadening**

USE line broadening

### **SPECTRAL DENSITY**

*UF* density (spectral)

\*BT1 spectral functions

*RT* energy spectra

### **spectral flame radiance**

*INIS*: 2000-04-12; *ETDE*: 1982-05-12

USE emissivity

### **SPECTRAL FUNCTIONS**

BT1 functions

NT1 spectral density

*RT* dispersion relations

### **SPECTRAL HARDENING**

*UF* hardening (spectral)

*RT* neutron spectra

### **spectral narrowing**

*INIS*: 1976-07-16; *ETDE*: 1977-06-30

USE line narrowing

### **SPECTRAL REFLECTANCE**

*INIS*: 1994-07-01; *ETDE*: 1978-10-25

*The radiant reflectance for a specified wavelength of the incident radiant flux.*

(Until June 1994 this concept was indexed to

OPTICAL PROPERTIES.)

*UF* reflectance (spectral)

\*BT1 optical properties

*RT* absorptivity

*RT* reflectivity

*RT* spectrally selective surfaces

### **SPECTRAL RESPONSE**

*INIS*: 1995-04-10; *ETDE*: 1977-06-24

*RT* efficiency

*RT* energy dependence

*RT* energy spectra

*RT* performance

*RT* sensitivity

*RT* spectra

### **SPECTRAL SHIFT**

*UF* isotope shift

*UF* isotopic shift

NT1 lamb shift

*RT* chemical shift

*RT* doppler effect

*RT* einstein effect

*RT* knight effect

*RT* knight shift

*RT* spectra

*RT* stark effect

*RT* zeeman effect

### **SPECTRAL SHIFT CONTROL**

*Type of moderator control in which the neutron spectrum is intentionally changed.*

\*BT1 configuration control

### **SPECTRALLY SELECTIVE SURFACES**

*INIS*: 2000-04-12; *ETDE*: 1975-11-11

\*BT1 solar equipment

BT1 surfaces

*RT* black coatings

*RT* solar absorbers

*RT* spectral reflectance

### **spectrochemistry**

SEE absorption spectroscopy

SEE emission spectroscopy

### **SPECTROMETERS**

BT1 measuring instruments

NT1 alpha spectrometers

NT1 beta spectrometers

NT1 cosmic ray spectrometers

NT1 electron spectrometers

NT1 electrostatic spectrometers

NT1 epr spectrometers

NT1 fission fragment spectrometers

NT1 fourier transform spectrometers

NT1 gamma spectrometers

NT2 compton spectrometers

NT2 moessbauer spectrometers

NT2 pair spectrometers

NT1 heavy ion spectrometers

NT1 infrared spectrometers

NT2 photoacoustic spectrometers

NT1 magnetic spectrometers

NT2 flat magnetic spectrometers

NT2 magnetic lens spectrometers

NT1 mass spectrometers

NT2 dynamic mass spectrometers

NT3 energy balance mass

spectrometers

NT3 time-of-flight mass spectrometers

NT2 spark mass spectrometers

NT2 static mass spectrometers

NT1 missing-mass spectrometers

NT1 multiparticle spectrometers

NT1 neutral particle analyzers

NT1 neutron spectrometers

NT2 bonner sphere spectrometers

NT1 nmr spectrometers

NT1 optical spectrometers

NT1 proton spectrometers

NT1 time-of-flight spectrometers

NT2 time-of-flight mass spectrometers

NT1 ultraviolet spectrometers

NT1 x-ray spectrometers

*RT* coincidence spectrometry

*RT* diffraction gratings

*RT* interferometers

*RT* monochromators

*RT* pulse analyzers

*RT* radiation detection

*RT* radiation detectors

*RT* spectrophotometers

*RT* spectroscopy

### **spectrometry**

*INIS*: 1975-10-23; *ETDE*: 2002-06-13

USE spectroscopy

### **spectrophones**

*INIS*: 1978-02-23; *ETDE*: 2002-06-13

USE photoacoustic spectrometers

### **SPECTROPHOTOMETERS**

BT1 measuring instruments

*RT* spectrometers

*RT* spectrophotometry

### **SPECTROPHOTOMETRY**

*RT* flame photometry

*RT* photometry

*RT* spectrophotometers

*RT* spectroscopy

### **SPECTROSCOPIC CURVE OF GROWTH**

*INIS*: 1975-08-27; *ETDE*: 1976-08-24

*UF* curve of growth (spectroscopic)

\*BT1 optical depth curve

*RT* absorption spectra

*RT* cosmic gases

*RT* line broadening

*RT* optical properties

*RT* oscillator strengths

### **SPECTROSCOPIC FACTORS**

BT1 dimensionless numbers

*RT* nuclear reactions

*RT* scattering

### **SPECTROSCOPY**

(From March 1983 till March 1997 PHOTO-INDUCED TRANSIENT SPECTROSCOPY was a valid ETDE descriptor.)

*UF* photo-induced transient spectroscopy

*UF* pits

*UF* spectrometry

NT1 absorption spectroscopy

NT1 alpha spectroscopy

NT1 baryon spectroscopy

NT1 beta spectroscopy

NT1 deep level transient spectroscopy

NT1 electron spectroscopy

NT2 auger electron spectroscopy

NT2 energy-loss spectroscopy

NT2 photoelectron spectroscopy

NT3 x-ray photoelectron spectroscopy

NT1 emission spectroscopy

NT2 fluorescence spectroscopy

NT2 x-ray emission spectroscopy

NT1 gamma spectroscopy

NT1 in-beam spectroscopy

NT1 ion-neutralization spectroscopy

NT1 ion spectroscopy

NT2 ion cyclotron resonance

spectroscopy

NT1 laser spectroscopy

NT2 raman spectroscopy

NT1 mass spectroscopy

NT2 icp mass spectroscopy

NT2 resonance ionization mass

spectroscopy

NT1 meson spectroscopy

NT1 neutron spectroscopy

NT1 photoacoustic spectroscopy

NT1 positron annihilation spectroscopy

NT1 rutherford backscattering

spectroscopy

NT1 thermal desorption spectroscopy

NT1 x-ray spectroscopy

*RT* flame photometry

*RT* matrix isolation

*RT* multispectral photography

*RT* multispectral scanners

*RT* photometry

*RT* post-irradiation examination

*RT* quantum electronics

*RT* radiation detection

*RT* radioassay

*RT* spectrometers

*RT* spectrophotometry

### **SPEECH**

2000-04-12

*RT* communications

*RT* sound waves

*RT* speech synthesizers

### **SPEECH SYNTHESIZERS**

*INIS*: 2000-04-12; *ETDE*: 1981-07-18

\*BT1 electronic equipment

*RT* acoustics

*RT* computer codes

*RT* electronic circuits



RT simulation  
 RT sound waves  
 RT speech  
**speed**  
 INIS: 1984-04-04; ETDE: 2002-06-13  
 USE velocity  
**speed indicators**  
 INIS: 1978-11-24; ETDE: 1975-08-19  
 USE velocimeters  
**SPEED LIMIT**  
 INIS: 2000-04-12; ETDE: 1977-07-23  
 RT laws  
**SPEED REGULATORS**  
 \*BT1 control equipment  
**SPENCER-FANO THEORY**  
 RT neutron slowing-down theory  
**spending**  
 INIS: 1992-04-09; ETDE: 1981-07-06  
 USE expenditures  
**SPENT FUEL CASKS**  
 1994-07-14  
 (Until July 1994 this concept was indexed by CASKS.)  
 \*BT1 casks  
 RT spent fuel elements  
**SPENT FUEL ELEMENTS**  
 UF irradiated fuel elements  
 \*BT1 fuel elements  
 RT burnup  
 RT fuel integrity  
 RT reprocessing  
 RT spent fuel casks  
 RT spent fuels  
 RT wackersdorf reprocessing plant  
 RT wak  
**SPENT FUEL STORAGE**  
 1996-04-16  
 UF fuel cooling installations  
 UF storage (spent fuel)  
 BT1 storage  
 NT1 away-from-reactor storage  
 NT1 monitored retrievable storage  
 RT after-heat  
 RT dry storage  
 RT fuel cooling time  
 RT fuel cycle centers  
 RT fuel integrity  
 RT fuel racks  
 RT fuel storage pools  
 RT nuclear waste policy acts  
 RT storage facilities  
 RT us mrs project  
 RT wet storage  
**SPENT FUELS**  
 UF irradiated fuels  
 \*BT1 nuclear fuels  
 RT closed fuel cycle  
 RT fission products  
 RT fuel cooling time  
 RT fuel integrity  
 RT fuel reprocessing plants  
 RT monitored retrievable storage  
 RT nuclear waste policy acts  
 RT radioactive wastes  
 RT reactors  
 RT spent fuel elements  
 RT storage facilities  
 RT us mrs project  
 RT wackersdorf reprocessing plant  
 RT wak

**SPENT LIQUORS**  
 INIS: 1993-02-15; ETDE: 1978-08-07  
 Liquid effluent from the digestion of wood during pulping.  
 UF black liquors  
 UF sulfite waste liquor  
 \*BT1 industrial wastes  
 \*BT1 liquid wastes  
 RT waste disposal  
 RT waste product utilization  
**SPENT SEED**  
 INIS: 2000-04-12; ETDE: 1979-04-11  
 Restricted to MHD seeds.  
 RT coal-fired mhd generators  
 RT plasma seeding  
 RT seed recovery  
**SPENT SHALES**  
 1992-04-13  
 UF retorted shales  
 RT oil shales  
 RT portland cement  
 RT shales  
 RT solid wastes  
**sperm**  
 USE spermatozoa  
**spermatids**  
 USE spermatozoa  
**SPERMATOCYTES**  
 BT1 germ cells  
**SPERMATOGENESIS**  
 BT1 gametogenesis  
 RT reproduction  
 RT spermatogonia  
 RT spermatozoa  
 RT stem cells  
 RT testes  
**SPERMATOGONIA**  
 1975-11-07  
 BT1 germ cells  
 RT spermatogenesis  
 RT spermatozoa  
**SPERMATOZOA**  
 UF sperm  
 UF spermatids  
 \*BT1 gametes  
 RT spermatogenesis  
 RT spermatogonia  
**SPERMIDINE**  
 \*BT1 amines  
**SPERMINE**  
 UF gerontine  
 UF musculamine  
 UF neuridine  
 \*BT1 amines  
**SPERT-1 REACTOR**  
 INEEL, Idaho Falls, Idaho, USA. Shut down in 1964.  
 UF special power excursion reactor-1  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water moderated reactors  
**SPERT-2 REACTOR**  
 INEEL, Idaho Falls, Idaho, USA. Shut down in 1965.  
 UF special power excursion reactor-2  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors

\*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
**SPERT-3 REACTOR**  
 INEEL, Idaho Falls, Idaho, USA. Shut down in 1968.  
 UF special power excursion reactor-3  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
**SPERT-4 REACTOR**  
 INEEL, Idaho Falls, Idaho, USA. Shut down in 1970.  
 UF special power excursion reactor-4  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors  
**sphalerite**  
 2000-04-12  
 Zinc sulfide, ZnS, a cubic crystal.  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE sulfide minerals  
**sphene**  
 INIS: 1984-04-04; ETDE: 1981-11-24  
 (This was a valid ETDE descriptor prior to January 1984.)  
 USE titanite  
**spher**  
 INIS: 2000-04-12; ETDE: 1981-01-27  
 USE shell pellet heat exchanger retorting  
**SPHERATOR**  
 \*BT1 internal ring devices  
**SPHERES**  
 RT geometry  
 RT shape  
**spheres (fuel)**  
 2000-04-12  
 (From January 1975 to February 1997 FUEL SPHERES was a valid ETDE descriptor.)  
 USE fuel elements  
**spherical aberrations**  
 INIS: 2000-04-12; ETDE: 1979-07-24  
 USE geometrical aberrations  
**SPHERICAL CONFIGURATION**  
 BT1 configuration  
**SPHERICAL HARMONICS**  
 UF cn method  
 BT1 functions  
 RT laplace equation  
 RT mathematics  
 RT yvon method  
**SPHERICAL HARMONICS METHOD**  
 \*BT1 approximations  
 NT1 p1-approximation  
 NT1 p2-approximation  
 NT1 p3-approximation  
 RT legendre polynomials  
 RT marshak boundary conditions  
 RT neutron transport theory  
**SPHERICAL MODEL**  
 \*BT1 nuclear models

**SPHEROIDS**

INIS: 1976-02-11; ETDE: 1975-10-01

RT geometry  
RT shape

**SPHEROMAK DEVICES**

INIS: 1981-07-06; ETDE: 1979-10-23

Tokamak with aspect ratio approximately equal to one.

\*BT1 tokamak devices  
NT1 cdx-u spheromak  
NT1 ctx spheromak  
NT1 globus-m spheromak  
NT1 mast tokamak  
NT1 nstx device  
NT1 sspcx device  
NT1 sunist spheromak  
NT1 ts-3 device

**SPHINGOMYELINS**

\*BT1 phospholipids

**SPICES**

1996-04-26

UF ginger  
RT capsicum  
RT flavor  
RT food  
RT peppers

**spicules**

USE solar prominences

**SPIDERS**

\*BT1 arachnids

**spikes (thermal)**

USE thermal spikes

**SPILLWAYS**

INIS: 1992-10-05; ETDE: 1994-08-18

(Prior to August 1994 SPILLWAY was a valid ETDE descriptor.)

RT dams  
RT hydroelectric power plants

**SPIN**

BT1 angular momentum  
BT1 particle properties  
RT chirality  
RT heisenberg model  
RT helicity  
RT high spin states  
RT joos-weinberg equation  
RT morrison rule  
RT orbital angular momentum  
RT pauli spin operators  
RT quantum numbers  
RT schmidt lines  
RT schmidt model  
RT sherman tables  
RT spin exchange  
RT spin flip  
RT spin-lattice relaxation  
RT spin orientation  
RT spin-spin relaxation  
RT spinors  
RT two-component neutrino theory  
RT weil equation

**SPIN ECHO**

RT nuclear magnetic resonance

**SPIN EXCHANGE**

Not for chemical reactions.

RT exchange interactions  
RT spin

**SPIN FLIP**

RT inelastic scattering  
RT nuclear reaction kinetics  
RT spin

**SPIN GLASS STATE**

INIS: 1978-07-03; ETDE: 1977-08-24

A magnetic state in alloys of ferromagnetic material and nonmagnetic material in which the magnetic atoms are frozen into random orientation.

RT ferromagnetic materials  
RT magnetism

**SPIN-LATTICE RELAXATION**

BT1 relaxation  
RT nuclear magnetic resonance  
RT spin

**SPIN NETWORKS**

2014-02-26

RT loop quantum gravity

**spin-off**

2000-04-12

USE technology transfer

**SPIN-ON COATING**

INIS: 1999-08-19; ETDE: 1979-12-10

\*BT1 surface coating

**spin-orbit interaction**

USE l-s coupling

**SPIN ORIENTATION**

For the process and condition in quantum physics only; see also POLARIZATION.

BT1 orientation  
RT muon spin relaxation  
RT nuclear alignment  
RT nuclear magnetism  
RT particle properties  
RT polarization-asymmetry ratio  
RT polarized beams  
RT polarized targets  
RT spin  
RT stern-gerlach experiment

**spin physics detector**

2018-04-20

USE nica spd detector

**spin-spin interaction**

USE j-j coupling

**SPIN-SPIN RELAXATION**

BT1 relaxation  
RT nuclear magnetic resonance  
RT spin

**SPIN WAVES**

RT magnons

**SPINACH**

\*BT1 magnoliopsida  
\*BT1 vegetables

**SPINAL CORD**

\*BT1 central nervous system  
RT ganglions  
RT myelitis  
RT reflexes  
RT vertebrae

**spine**

USE vertebrae

**SPINELS**

\*BT1 oxide minerals  
RT aluminium oxides  
RT magnesium oxides  
RT magnetite

**SPINOR FIELDS**

INIS: 1978-02-23; ETDE: 1978-05-01

RT quantum field theory

**spinor symmetry**

1984-12-04

USE boson-fermion symmetry

**SPINORS**

NT1 dirac spinors  
NT1 majorana spinors  
NT1 majorana-weyl spinors  
NT1 weyl spinors  
RT clifford algebra  
RT quantum field theory  
RT spin  
RT superoperators  
RT superstring theory  
RT supersymmetry  
RT vectors

**SPIPERONE**

INIS: 1994-07-20; ETDE: 1987-04-24

\*BT1 autonomic nervous system agents  
RT dopamine

**SPIRAL CONFIGURATION**

BT1 configuration

**spiral orbit spectrometers**

USE flat magnetic spectrometers

**SPIRAL READER DIGITIZERS**

\*BT1 digitizers

**SPIROCHAETES**

\*BT1 bacteria  
RT syphilis

**spitzer self-collision time**

ETDE: 2002-06-13

USE spitzer theory

**spitzer self-collision time theory**

2000-04-12

USE spitzer theory

**SPITZER THEORY**

UF spitzer self-collision time  
UF spitzer self-collision time theory  
UF spitzer value  
\*BT1 charged-particle transport theory  
RT plasma

**spitzer value**

USE spitzer theory

**SPLAT COOLING**

BT1 cooling  
RT quench hardening

**SPLEEN**

\*BT1 organs  
RT abdomen  
RT blood circulation  
RT blood formation  
RT immune system diseases  
RT lymphatic system  
RT macrophages  
RT peritoneum  
RT reticuloendothelial system  
RT spleen cells  
RT spleen colony formation  
RT splenectomy  
RT splenomegaly

**SPLEEN CELLS**

\*BT1 somatic cells  
RT spleen

**SPLEEN COLONY FORMATION**

BT1 colony formation  
RT blood formation  
RT chimeras  
RT colony forming units  
RT radiation chimeras  
RT spleen

**SPLENECTOMY**

- \*BT1 surgery
- RT lymphatic system
- RT spleen

**SPLENOMEGALY**

- BT1 pathological changes
- BT1 symptoms
- RT hemic diseases
- RT leukemia
- RT spleen

**SPLICING**

*INIS: 1995-06-09; ETDE: 1994-02-25*  
*The process by which introns are removed from gene transcripts to form mature messenger RNA molecules.*

- BT1 rna processing
- RT exons
- RT gene regulation
- RT introns
- RT nucleoproteins
- RT rna

**SPLINE FUNCTIONS**

*INIS: 1978-09-28; ETDE: 1978-10-19*

- BT1 functions
- RT interpolation
- RT mathematics
- RT polynomials
- RT series expansion

**split dose irradiation**

- USE fractionated irradiation

**SPLIT-RING RESONATORS**

*2014-10-28*

*Artificially engineered structures that deliver strong magnetic coupling for metamaterials.*

- \*BT1 resonators
- RT metamaterials

**SPLIT TABLE REACTOR**

*INEEL, Idaho Falls, Idaho, USA.*

- UF str reactor (split table)
- \*BT1 zero power reactors

**SPOIL BANKS**

*INIS: 1992-09-01; ETDE: 1976-03-22*

*Banks of disturbed earth, mine wastes, tailings.*

- \*BT1 solid wastes
- RT acid mine drainage
- RT dredge spoil
- RT land reclamation
- RT mineral wastes

**SPONDYLITIS**

UF ankylosing spondylitis

- \*BT1 rheumatic diseases
- \*BT1 skeletal diseases
- RT vertebrae

**SPONTANEOUS COMBUSTION**

*INIS: 2000-07-11; ETDE: 1975-08-19*

- \*BT1 combustion
- RT autoignition
- RT explosions
- RT fire hazards
- RT fire prevention
- RT fires

**spontaneous emission (cooperative)**

*INIS: 1993-11-09; ETDE: 2002-06-13*

- USE superradiance

**SPONTANEOUS FISSION**

- \*BT1 fission
- \*BT1 nuclear decay
- RT fission isomers
- RT oklo phenomenon
- RT spontaneous fission radioisotopes

**SPONTANEOUS FISSION****RADIOISOTOPES**

*INIS: 1986-06-09; ETDE: 1991-07-25*

- \*BT1 radioisotopes
- NT1 americium 237
- NT1 americium 238
- NT1 americium 239
- NT1 americium 240
- NT1 americium 241
- NT1 americium 242
- NT1 americium 243
- NT1 americium 244
- NT1 americium 245
- NT1 americium 246
- NT1 berkelium 242
- NT1 berkelium 243
- NT1 berkelium 244
- NT1 berkelium 245
- NT1 berkelium 249
- NT1 bohrium 261
- NT1 bohrium 262
- NT1 californium 237
- NT1 californium 246
- NT1 californium 248
- NT1 californium 249
- NT1 californium 250
- NT1 californium 252
- NT1 californium 254
- NT1 californium 256
- NT1 copernicium 282
- NT1 copernicium 283
- NT1 copernicium 284
- NT1 curium 240
- NT1 curium 241
- NT1 curium 242
- NT1 curium 243
- NT1 curium 244
- NT1 curium 245
- NT1 curium 246
- NT1 curium 248
- NT1 curium 250
- NT1 darmstadtium 272
- NT1 darmstadtium 279
- NT1 darmstadtium 281
- NT1 dubnium 255
- NT1 dubnium 256
- NT1 dubnium 257
- NT1 dubnium 258
- NT1 dubnium 259
- NT1 dubnium 260
- NT1 dubnium 261
- NT1 dubnium 262
- NT1 dubnium 263
- NT1 dubnium 267
- NT1 dubnium 268
- NT1 einsteinium 253
- NT1 einsteinium 254
- NT1 einsteinium 255
- NT1 einsteinium 257
- NT1 fermium 241
- NT1 fermium 242
- NT1 fermium 244
- NT1 fermium 246
- NT1 fermium 248
- NT1 fermium 250
- NT1 fermium 252
- NT1 fermium 254
- NT1 fermium 255
- NT1 fermium 256
- NT1 fermium 257
- NT1 fermium 258
- NT1 fermium 259
- NT1 fermium 260
- NT1 fermium 264
- NT1 flerovium 286
- NT1 hassium 264
- NT1 hassium 265
- NT1 meitnerium 266
- NT1 mendeleevium 245

- NT1 mendeleevium 246
- NT1 mendeleevium 259
- NT1 neptunium 237
- NT1 nobelium 250
- NT1 nobelium 252
- NT1 nobelium 254
- NT1 nobelium 256
- NT1 nobelium 258
- NT1 plutonium 235
- NT1 plutonium 236
- NT1 plutonium 237
- NT1 plutonium 238
- NT1 plutonium 239
- NT1 plutonium 240
- NT1 plutonium 241
- NT1 plutonium 242
- NT1 plutonium 243
- NT1 plutonium 244
- NT1 rutherfordium 253
- NT1 rutherfordium 254
- NT1 rutherfordium 255
- NT1 rutherfordium 256
- NT1 rutherfordium 257
- NT1 rutherfordium 258
- NT1 rutherfordium 259
- NT1 rutherfordium 260
- NT1 rutherfordium 261
- NT1 rutherfordium 262
- NT1 rutherfordium 263
- NT1 rutherfordium 267
- NT1 seaborgium 258
- NT1 seaborgium 259
- NT1 seaborgium 260
- NT1 seaborgium 261
- NT1 seaborgium 262
- NT1 seaborgium 263
- NT1 seaborgium 264
- NT1 seaborgium 265
- NT1 seaborgium 266
- NT1 seaborgium 268
- NT1 seaborgium 270
- NT1 seaborgium 271
- NT1 seaborgium 272
- NT1 seaborgium 273
- NT1 thorium 230
- NT1 thorium 232
- NT1 uranium 232
- NT1 uranium 233
- NT1 uranium 234
- NT1 uranium 235
- NT1 uranium 236
- NT1 uranium 238
- RT spontaneous fission

**SPONTANEOUS MUTATIONS**

*INIS: 1978-02-23; ETDE: 1978-05-01*

- UF natural mutations
- BT1 mutations

**spontaneous potential logging**

*INIS: 2000-04-12; ETDE: 1976-06-07*

- USE sp logging

**SPORADIC E**

- \*BT1 e region

**SPORES**

- NT1 bacterial spores
- NT1 conidia
- NT1 microspores
- RT fungi
- RT reproduction

**SPOROZOA**

*INIS: 1993-07-19; ETDE: 1981-06-17*

- BT1 parasites
- \*BT1 protozoa
- NT1 babesidae
- NT1 plasmodium

**SPORT FACILITIES**

2004-09-14

UF facilities (sport)  
RT buildings  
RT recreational areas

**SPOT MARKET**

INIS: 1992-01-29; ETDE: 1979-12-10

UF rotterdam spot market  
BT1 market  
RT economics  
RT prices  
RT supply and demand

**spot welding**

INIS: 1976-03-17; ETDE: 2002-06-13

USE welding

**spot welds**

INIS: 1976-03-17; ETDE: 2002-06-13

USE welded joints

**SPR-2 REACTOR**

Sandia Laboratories, Albuquerque, New Mexico, USA.

UF sandia pulsed reactor-ii  
UF spr-ii reactor  
\*BT1 pulsed reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**SPR-3 REACTOR**

Sandia Laboratories, Albuquerque, New Mexico, USA.

UF sandia pulsed reactor-iii  
UF spr-iii reactor  
\*BT1 pulsed reactors  
\*BT1 research reactors

**SPR-4 REACTOR**

INIS: 1984-06-21; ETDE: 1982-08-11

Sandia Laboratories, Albuquerque, New Mexico, USA.

UF sandia pulse reactor-4  
UF sandia pulsed reactor-iv  
UF spr-iv reactor  
\*BT1 pulsed reactors  
\*BT1 research reactors

**spr iae**

2018-06-04

USE spr iae reactor

**SPR IAE REACTOR**

2018-06-04

Beijing, Fangshang district, China.

UF spr iae  
\*BT1 pool type reactors  
\*BT1 research reactors

**spr-ii reactor**

USE spr-2 reactor

**spr-iii reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE spr-3 reactor

**spr-iv reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE spr-4 reactor

**SPRAY COATING**

UF metal spraying  
\*BT1 surface coating  
NT1 flame spraying  
NT1 plasma arc spraying  
RT sprayed coatings

**SPRAY COOLING**

INIS: 1976-07-30; ETDE: 1976-11-01

BT1 cooling  
RT droplets

RT fog cooling

RT sprays

**SPRAY DRYING**

BT1 drying  
RT dry scrubbers  
RT evaporation

**spray ponds**

1992-06-05

USE cooling ponds  
USE sprays

**spray systems (containment)**

USE containment spray systems

**SPRAYED COATINGS**

BT1 coatings  
RT spray coating

**SPRAYS**

UF fog (sprays)  
UF spray ponds  
RT atomization  
RT dispersions  
RT droplets  
RT scrubbers  
RT scrubbing  
RT spargers  
RT spray cooling  
RT washout

**SPREAD F**

\*BT1 f region

**SPRING-8 STORAGE RING**

INIS: 1990-09-24; ETDE: 1990-10-09

BT1 storage rings  
\*BT1 synchrotron radiation sources

**SPRINGS**

Mechanical springs only.

BT1 machine parts  
RT mechanical vibrations  
RT torsion

**springs (water)**

INIS: 2000-04-12; ETDE: 1980-06-06

USE water springs

**SPROUT INHIBITION**

BT1 inhibition  
RT garlic  
RT onions  
RT potatoes  
RT storage life

**SPROUTING**

RT plant growth  
RT plants  
RT vernalization

**SPRR-300 REACTOR**

2018-06-04

Chengdu, Sichuan Province, China.

\*BT1 pool type reactors  
\*BT1 research reactors

**SPRUCES**

INIS: 1991-12-13; ETDE: 1983-03-23

\*BT1 conifers  
\*BT1 trees

**spur reactor**

2000-04-12

Space Power Unit Reactor, 300 kw.

USE space power reactors

**SPURIONS**

\*BT1 postulated particles  
\*BT1 strange particles  
RT selection rules

**SPUTTER-ION PUMPS**

\*BT1 vacuum pumps  
RT getters  
RT penning discharges  
RT philips gages  
RT sputtering

**SPUTTERING**

NT1 cathode sputtering  
NT1 neutron sputtering  
RT arc welding  
RT deposition  
RT ion beams  
RT sputter-ion pumps  
RT vacuum coating  
RT vapor deposited coatings

**SQUALANE**

\*BT1 alkanes

**SQUALENE**

\*BT1 polyenes  
\*BT1 terpenes

**SQUARE CONFIGURATION**

\*BT1 rectangular configuration

**square-wave generators**

USE function generators

**SQUARE-WELL POTENTIAL**

\*BT1 nuclear potential

**SQUARYLIUM DYES**

INIS: 2000-04-12; ETDE: 1979-05-03

BT1 dyes  
RT aromatics  
RT heterocyclic compounds  
RT organic nitrogen compounds

**SQUID DEVICES**

Superconducting Quantum Interference Devices.

UF superconducting quantum interference devices  
\*BT1 fluxmeters  
\*BT1 microwave equipment  
BT1 superconducting devices  
RT interferometers  
RT rf systems  
RT superconductors

**SQUIRRELS**

1996-11-13

\*BT1 rodents

**sr-0f reactor**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

USE zero power reactors

**SR-1 REACTOR**

\*BT1 enriched uranium reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**SR-305 REACTOR**

Savannah River Plant, Aiken, South Carolina, USA. Shut down in 1981.

UF savannah river test pile-305  
\*BT1 graphite moderated reactors  
\*BT1 production reactors  
\*BT1 thermal reactors

**SR-3P REACTOR**

ETDE: 1975-09-11

\*BT1 thermal reactors  
\*BT1 training reactors  
\*BT1 water cooled reactors

**SR-OA REACTOR**

*Skoda National Corporations, Plzen, Czech Republic. Decommissioned since 1997.*

UF skoda (plzen) reactor

- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors
- \*BT1 zero power reactors

**sr-ob reactor**

USE subcritical assemblies

**SRC-II PROCESS**

INIS: 2000-04-12; ETDE: 1977-08-24

*Modified SRC process with higher field of liquid and gaseous products which are recovered by vacuum distillation.*

- \*BT1 coal liquefaction
- RT src process

**SRC PROCESS**

2000-04-04

UF pittsburg-midway solvent refined coal process

- UF solvent-refined coal process
- SF solvent-refining coal plants
- RT solvent-refined coal
- RT src-ii process

**src slowpoke**

2018-05-30

USE slowpoke src reactor

**SRE REACTOR**

*Rockwell International, Santa Susana, California, USA.*

UF sodium reactor experiment

- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 power reactors
- \*BT1 sgr type reactors
- \*BT1 thermal reactors
- \*BT1 thorium reactors

**SRI LANKA**

UF ceylon

- BT1 asia
- BT1 developing countries
- BT1 islands
- RT indian ocean

**sriracha reactor**

INIS: 1985-03-15; ETDE: 1985-04-09

USE ao-phai-1 reactor

**srn**

INIS: 1984-10-23; ETDE: 1984-11-08

*Standard Reference Materials.*

USE calibration standards

**SRR-1 REACTOR**

2004-03-15

*Atomic Energy Commission, Damascus, Syria.*

UF syrian miniature neutron source reactor

- \*BT1 mnsr type reactors

**SRRC-UTR-100 REACTOR**

*Scottish Universities Research and Reactor Centre, East Kilbride by Glasgow, United Kingdom.*

UF glasgow utr-100 reactor

UF scottish research reactor center utr-100 reactor

- \*BT1 argonaut type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**SSDL**

INIS: 1980-07-24; ETDE: 1980-08-12

*Secondary Standard Dosimetry Laboratories.*

UF secondary standard dosimetry laboratories

- RT calibration standards
- RT dosimetry

**SSPX DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03

*Sustained Spheromak Physics Experiment,*

*Lawrence Livermore National Laboratory, USA.*

- \*BT1 spheromak devices

**ST LAWRENCE RIVER**

INIS: 1976-07-06; ETDE: 1976-08-25

UF saint lawrence river

- \*BT1 rivers
- RT new york
- RT ontario
- RT quebec

**st lucie-1 reactor**

INIS: 1990-06-25; ETDE: 2002-06-13

USE lucie-1 reactor

**st lucie-2 reactor**

INIS: 1990-06-25; ETDE: 2002-06-13

USE lucie-2 reactor

**ST PETERSBURG INSTITUTE OF NUCLEAR PHYSICS**

1997-08-08

*Until July 1997 this was known as the*

*LENINGRAD INSTITUTE OF NUCLEAR PHYSICS.*

UF leningrad institute of nuclear physics

UF petersburg nuclear physics institute

- \*BT1 nrc kurchatov institute

**ST TOKAMAK**

UF tokamak model st

- \*BT1 tokamak devices

**staat amt atomsicherheit und strahlenschutz**

INIS: 2000-04-12; ETDE: 1985-08-09

USE bundesamt fuer strahlenschutz

**staatliches amt fuer atomsicherheit und strahlenschutz**

INIS: 1995-02-20; ETDE: 2002-06-13

USE bundesamt fuer strahlenschutz

**STABILITY**

- NT1 orbit stability
- NT1 phase stability
- NT1 reactor stability
- NT1 slope stability
- RT equilibrium
- RT instability
- RT lyapunov method
- RT stabilization
- RT thixotropy

**stability (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-06-13

USE reactor stability

**stability (reactor)**

2000-04-12

USE reactor stability

**STABILIZATION**

1998-10-30

*(Until October 1998 this concept was indexed by STABILITY.)*

- RT inhibition
- RT stability
- RT var control systems

**STABILIZED SUPERCONDUCTORS**

BT1 superconductors

**STABLE ISOTOPES**

- BT1 isotopes
- NT1 aluminium 27
- NT1 antimony 121
- NT1 antimony 123
- NT1 argon 36
- NT1 argon 38
- NT1 argon 40
- NT1 arsenic 75
- NT1 barium 130
- NT1 barium 132
- NT1 barium 134
- NT1 barium 135
- NT1 barium 136
- NT1 barium 137
- NT1 barium 138
- NT1 beryllium 9
- NT1 bismuth 209
- NT1 boron 10
- NT1 boron 11
- NT1 bromine 79
- NT1 bromine 81
- NT1 cadmium 106
- NT1 cadmium 108
- NT1 cadmium 110
- NT1 cadmium 111
- NT1 cadmium 112
- NT1 cadmium 113
- NT1 cadmium 114
- NT1 cadmium 116
- NT1 calcium 40
- NT1 calcium 42
- NT1 calcium 43
- NT1 calcium 44
- NT1 calcium 46
- NT1 calcium 48
- NT1 carbon 12
- NT1 carbon 13
- NT1 cerium 136
- NT1 cerium 138
- NT1 cerium 140
- NT1 cerium 142
- NT1 cesium 133
- NT1 chlorine 35
- NT1 chlorine 37
- NT1 chromium 50
- NT1 chromium 52
- NT1 chromium 53
- NT1 chromium 54
- NT1 cobalt 59
- NT1 copper 63
- NT1 copper 65
- NT1 deuterium
- NT1 dysprosium 156
- NT1 dysprosium 158
- NT1 dysprosium 160
- NT1 dysprosium 161
- NT1 dysprosium 162
- NT1 dysprosium 163
- NT1 dysprosium 164
- NT1 erbium 162
- NT1 erbium 164
- NT1 erbium 166
- NT1 erbium 167
- NT1 erbium 168
- NT1 erbium 170
- NT1 europium 151
- NT1 europium 153
- NT1 fluorine 19
- NT1 gadolinium 154
- NT1 gadolinium 155
- NT1 gadolinium 156
- NT1 gadolinium 157
- NT1 gadolinium 158
- NT1 gadolinium 160
- NT1 gallium 69

**NT1** gallium 71  
**NT1** germanium 70  
**NT1** germanium 72  
**NT1** germanium 73  
**NT1** germanium 74  
**NT1** germanium 76  
**NT1** gold 197  
**NT1** hafnium 176  
**NT1** hafnium 177  
**NT1** hafnium 178  
**NT1** hafnium 179  
**NT1** hafnium 180  
**NT1** helium 3  
   **NT2** helium 3 a  
   **NT2** helium 3 a1  
   **NT2** helium 3 b  
**NT1** helium 4  
   **NT2** helium i  
   **NT2** helium ii  
**NT1** holmium 165  
**NT1** hydrogen 1  
**NT1** indium 113  
**NT1** iodine 127  
**NT1** iridium 191  
**NT1** iridium 193  
**NT1** iron 54  
**NT1** iron 56  
**NT1** iron 57  
**NT1** iron 58  
**NT1** krypton 78  
**NT1** krypton 80  
**NT1** krypton 82  
**NT1** krypton 83  
**NT1** krypton 84  
**NT1** krypton 86  
**NT1** lanthanum 139  
**NT1** lead 204  
**NT1** lead 206  
**NT1** lead 207  
**NT1** lead 208  
**NT1** lithium 6  
**NT1** lithium 7  
**NT1** lutetium 175  
**NT1** magnesium 24  
**NT1** magnesium 25  
**NT1** magnesium 26  
**NT1** manganese 55  
**NT1** mercury 196  
**NT1** mercury 198  
**NT1** mercury 199  
**NT1** mercury 200  
**NT1** mercury 201  
**NT1** mercury 202  
**NT1** mercury 204  
**NT1** molybdenum 100  
**NT1** molybdenum 92  
**NT1** molybdenum 94  
**NT1** molybdenum 95  
**NT1** molybdenum 96  
**NT1** molybdenum 97  
**NT1** molybdenum 98  
**NT1** neodymium 142  
**NT1** neodymium 143  
**NT1** neodymium 145  
**NT1** neodymium 146  
**NT1** neodymium 148  
**NT1** neodymium 150  
**NT1** neon 20  
**NT1** neon 21  
**NT1** neon 22  
**NT1** nickel 58  
**NT1** nickel 60  
**NT1** nickel 61  
**NT1** nickel 62  
**NT1** nickel 64  
**NT1** niobium 93  
**NT1** nitrogen 14  
**NT1** nitrogen 15  
**NT1** osmium 184

**NT1** osmium 186  
**NT1** osmium 187  
**NT1** osmium 188  
**NT1** osmium 189  
**NT1** osmium 190  
**NT1** osmium 192  
**NT1** oxygen 16  
**NT1** oxygen 17  
**NT1** oxygen 18  
**NT1** palladium 102  
**NT1** palladium 104  
**NT1** palladium 105  
**NT1** palladium 106  
**NT1** palladium 108  
**NT1** palladium 110  
**NT1** phosphorus 31  
**NT1** platinum 192  
**NT1** platinum 194  
**NT1** platinum 195  
**NT1** platinum 196  
**NT1** platinum 198  
**NT1** potassium 39  
**NT1** potassium 41  
**NT1** praseodymium 141  
**NT1** rhenium 185  
**NT1** rhenium 187  
**NT1** rhodium 103  
**NT1** rubidium 85  
**NT1** ruthenium 100  
**NT1** ruthenium 101  
**NT1** ruthenium 102  
**NT1** ruthenium 104  
**NT1** ruthenium 96  
**NT1** ruthenium 98  
**NT1** ruthenium 99  
**NT1** samarium 144  
**NT1** samarium 148  
**NT1** samarium 149  
**NT1** samarium 150  
**NT1** samarium 152  
**NT1** samarium 154  
**NT1** scandium 45  
**NT1** selenium 74  
**NT1** selenium 76  
**NT1** selenium 77  
**NT1** selenium 78  
**NT1** selenium 80  
**NT1** selenium 82  
**NT1** silicon 28  
**NT1** silicon 29  
**NT1** silicon 30  
**NT1** silver 107  
**NT1** silver 109  
**NT1** sodium 23  
**NT1** strontium 84  
**NT1** strontium 86  
**NT1** strontium 87  
**NT1** strontium 88  
**NT1** sulfur 32  
**NT1** sulfur 33  
**NT1** sulfur 34  
**NT1** sulfur 36  
**NT1** tantalum 181  
**NT1** tellurium 120  
**NT1** tellurium 122  
**NT1** tellurium 123  
**NT1** tellurium 124  
**NT1** tellurium 125  
**NT1** tellurium 126  
**NT1** tellurium 128  
**NT1** tellurium 130  
**NT1** terbium 159  
**NT1** thallium 203  
**NT1** thallium 205  
**NT1** thulium 169  
**NT1** tin 112  
**NT1** tin 114  
**NT1** tin 115  
**NT1** tin 116

**NT1** tin 117  
**NT1** tin 118  
**NT1** tin 119  
**NT1** tin 120  
**NT1** tin 122  
**NT1** tin 124  
**NT1** titanium 46  
**NT1** titanium 47  
**NT1** titanium 48  
**NT1** titanium 49  
**NT1** titanium 50  
**NT1** tungsten 180  
**NT1** tungsten 182  
**NT1** tungsten 183  
**NT1** tungsten 184  
**NT1** tungsten 186  
**NT1** vanadium 51  
**NT1** xenon 124  
**NT1** xenon 126  
**NT1** xenon 128  
**NT1** xenon 129  
**NT1** xenon 130  
**NT1** xenon 131  
**NT1** xenon 132  
**NT1** xenon 134  
**NT1** xenon 136  
**NT1** ytterbium 168  
**NT1** ytterbium 170  
**NT1** ytterbium 171  
**NT1** ytterbium 172  
**NT1** ytterbium 173  
**NT1** ytterbium 174  
**NT1** ytterbium 176  
**NT1** yttrium 89  
**NT1** zinc 64  
**NT1** zinc 66  
**NT1** zinc 67  
**NT1** zinc 68  
**NT1** zinc 70  
**NT1** zirconium 90  
**NT1** zirconium 91  
**NT1** zirconium 92  
**NT1** zirconium 95  
**NT1** zirconium 94  
**NT1** zirconium 96  
**RT** carriers  
**RT** magic nuclei  
**RT** translocation

## STACK DISPOSAL

**\*BT1** waste disposal  
**RT** chemical effluents  
**RT** electrostatic precipitators  
**RT** gaseous wastes  
**RT** ground release  
**RT** plumes  
**RT** pollution control equipment  
**RT** radioactive effluents  
**RT** radioactive waste disposal  
**RT** release limits  
**RT** stacks

## STACKING FAULTS

**\*BT1** crystal defects  
**RT** dislocations

## STACKS

**RT** buildings  
**RT** gaseous wastes  
**RT** plumes  
**RT** radioactive clouds  
**RT** smokes  
**RT** stack disposal  
**RT** ventilation

## STACY REACTOR

*INIS: 2001-09-25; ETDE: 2001-11-30*

*JAERI, Tokai, Ibaraki, Japan.*

*UF static experiment critical facility*

**\*BT1** enriched uranium reactors

**\*BT1** plutonium reactors

\*BT1 zero power reactors  
RT tracy reactor

**STADE REACTOR**

*Permanent shutdown since 2003.*

UF kernkraftwerk stade

UF kks reactor

\*BT1 pwr type reactors

**STAGED COMBUSTION**

*INIS: 1992-07-21; ETDE: 1983-07-07*

*Combustion in which a fuel-rich stage is followed by an air-rich stage to control NO<sub>x</sub> emissions.*

\*BT1 combustion

RT air pollution abatement

**STAGNATION**

RT fluid flow

**STAGNATION POINT**

*INIS: 1993-05-06; ETDE: 1976-09-14*

*Point in a field of flow about a body where the fluid particles have zero velocity with respect to the body.*

RT flames

RT fluid mechanics

**STAINLESS STEEL-16-8-2**

*INIS: 1993-10-03; ETDE: 1975-10-28*

\*BT1 steel-cr16ni8mo2

**STAINLESS STEEL-17-4PH**

*INIS: 1993-10-03; ETDE: 1978-02-15*

\*BT1 steel-cr17cu4ni4nb-l

**STAINLESS STEEL-17-7PH**

*INIS: 2000-04-12; ETDE: 1979-05-29*

\*BT1 aluminium alloys

\*BT1 chromium-nickel steels

**STAINLESS STEEL-18-10**

*INIS: 1993-10-03; ETDE: 1979-05-29*

\*BT1 steel-cr18ni10

***stainless steel-18-4-1***

*INIS: 2000-04-12; ETDE: 1979-11-23*

*(Prior to 1989 this was a valid ETDE descriptor.)*

USE stainless steels

**STAINLESS STEEL-18-8**

*1993-10-03*

\*BT1 steel-cr18ni8

***stainless steel-19-9dl***

*2000-04-12*

*(Prior to 1989 this was a valid ETDE descriptor.)*

USE stainless steels

**STAINLESS STEEL-20-25**

*1993-10-03*

\*BT1 steel-ni25cr20

**STAINLESS STEEL-21-6-9**

*INIS: 1993-10-03; ETDE: 1979-12-10*

UF nitronic 40

\*BT1 steel-cr21mn9ni6

**STAINLESS STEEL-301**

*1993-10-03*

\*BT1 steel-cr17ni7

**STAINLESS STEEL-302**

*1993-10-03*

\*BT1 steel-cr18ni9

**STAINLESS STEEL-303**

*INIS: 2000-04-12; ETDE: 1985-10-10*

\*BT1 chromium-nickel steels

**STAINLESS STEEL-304**

*1993-10-03*

\*BT1 steel-cr19ni10

**STAINLESS STEEL-304L**

*1993-10-03*

\*BT1 steel-cr19ni10-l

**STAINLESS STEEL-305**

*INIS: 1993-10-03; ETDE: 1976-04-19*

\*BT1 steel-cr18ni12

**STAINLESS STEEL-308**

*1993-10-03*

\*BT1 steel-cr20ni11

**STAINLESS STEEL-308L**

*INIS: 1993-10-03; ETDE: 1978-10-23*

\*BT1 steel-cr20ni11-l

**STAINLESS STEEL-309**

*1993-10-03*

\*BT1 steel-cr23ni14

**STAINLESS STEEL-309S**

*1993-10-03*

\*BT1 steel-cr23ni14

**STAINLESS STEEL-310**

*1993-10-03*

\*BT1 steel-cr25ni20

**STAINLESS STEEL-316**

*1993-10-03*

\*BT1 steel-cr17ni12mo3

**STAINLESS STEEL-316L**

*1993-10-03*

\*BT1 steel-cr17ni12mo3-l

**STAINLESS STEEL-317**

*INIS: 2000-04-12; ETDE: 1978-09-11*

\*BT1 stainless steels

**STAINLESS STEEL-318**

*2000-04-12*

\*BT1 stainless steels

**STAINLESS STEEL-321**

*1993-10-03*

\*BT1 steel-cr18ni10ti

**STAINLESS STEEL-329**

*2000-04-12*

\*BT1 chromium-nickel steels

***stainless steel-330***

*INIS: 1997-01-28; ETDE: 1977-07-23*

*(Until October 1996 this was a valid descriptor.)*

USE austenitic steels

USE chromium-nickel steels

**STAINLESS STEEL-347**

*1993-10-03*

\*BT1 steel-cr18ni11nb

**STAINLESS STEEL-348**

*1993-10-03*

\*BT1 steel-cr18ni11nbco

**STAINLESS STEEL-403**

*1993-10-03*

\*BT1 steel-cr12

**STAINLESS STEEL-405**

*1993-10-03*

\*BT1 steel-cr13al

**STAINLESS STEEL-406**

*2000-04-12*

\*BT1 chromium steels

**STAINLESS STEEL-410**

*1999-10-08*

*(Until October 1999 this was indexed by STEEL-CR13.)*

\*BT1 steel-cr13

**STAINLESS STEEL-422**

*INIS: 2000-04-12; ETDE: 1976-11-01*

\*BT1 stainless steels

**STAINLESS STEEL-430**

*1993-10-03*

\*BT1 steel-cr16

***stainless steel-431***

*INIS: 1997-01-28; ETDE: 1977-04-12*

*(Until October 1996 this was a valid descriptor.)*

USE steel-cr16ni

**STAINLESS STEEL-440**

*1993-10-03*

\*BT1 steel-cr17mo

**STAINLESS STEEL-446**

*1993-10-03*

\*BT1 steel-cr25

***stainless steel-44ln***

*INIS: 1997-01-28; ETDE: 1981-03-13*

*(Until October 1996 this was a valid descriptor.)*

USE chromium steels

USE low carbon-high alloy steels

USE molybdenum alloys

USE nickel alloys

***stainless steel-am-350***

*1997-01-28*

*(Until October 1996 this was a valid descriptor.)*

USE steel-cr17ni4mo3

**STAINLESS STEEL-FV-548**

*INIS: 2000-04-12; ETDE: 1979-05-25*

\*BT1 stainless steels

***stainless steel-fv548***

*1983-11-07*

USE steel-cr17ni12monb

**STAINLESS STEEL-JBK-75**

*INIS: 2000-04-12; ETDE: 1980-01-24*

\*BT1 nickel alloys

\*BT1 stainless steels

\*BT1 titanium alloys

**STAINLESS STEEL M-50**

*INIS: 2000-04-12; ETDE: 1979-11-23*

\*BT1 molybdenum alloys

\*BT1 stainless steels

**STAINLESS STEEL-PH-15-7-MO**

*INIS: 2000-04-12; ETDE: 1979-05-29*

\*BT1 chromium-nickel steels

***stainless steel-z2cn18-10***

*INIS: 1997-01-28; ETDE: 1979-05-29*

*(Until October 1996 this was a valid descriptor.)*

USE steel-cr18ni10-l

***stainless steel-z2cn18-10n***

*INIS: 2000-04-12; ETDE: 1979-05-29*

*(Prior to 1989 this was a valid ETDE descriptor.)*

USE chromium-nickel steels

***stainless steel-z2cnd17-12***

*INIS: 1983-11-07; ETDE: 1979-05-29*

*(Prior to 1989 this was a valid ETDE descriptor.)*

USE steel-cr17ni12mo3-l

**stainless steel-z3cmn18-8-6n**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z3cnd17-12**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr17ni12mo3-1

**stainless steel-z3cnd18-13**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z6cn18-10**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10

**stainless steel-z6cnd17-12**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr17ni12mo3

**stainless steel-z6cnd17-13b**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z6cndt17-13b**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z6cnt18-10**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

**stainless steel-z6cnt18-12b**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z8cnt18-10**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

**STAINLESS STEEL-ZCND17-13**

INIS: 1993-10-03; ETDE: 1979-05-29

\*BT1 manganese alloys

\*BT1 silicon additions

\*BT1 steel-cr17ni12mo3-1

**STAINLESS STEELS**

1996-07-23

(The UF terms below have been valid ETDE descriptors.)

UF croloy 299

UF stainless steel-18-4-1

UF stainless steel-19-9dl

UF steel-000kh25

UF steel-000kh28

UF steel-00kh20n32t

UF steel-03kh13ag13

UF steel-0kh18g8n2t

UF steel-cr17mn15nni

UF tenelon

\*BT1 high alloy steels

NT1 chromium-nickel steels

NT2 alloy-d-9

NT2 carpenter

NT2 chromium-nickel-molybdenum steels

NT3 alloy-m-813

NT3 steel-cr11ni10mo2ti-1

NT3 steel-cr15ni15motib

NT3 steel-cr16ni13monbv

NT3 steel-cr16ni15mo3nb

NT3 steel-cr16ni16monb

NT3 steel-cr16ni8mo2

NT4 stainless steel-16-8-2

NT3 steel-cr16ni9mo2

NT3 steel-cr17ni12mo3

NT4 stainless steel-316

NT3 steel-cr17ni12mo3-1

NT4 stainless steel-316l

NT4 stainless steel-zcnd17-13

NT3 steel-cr17ni12monb

NT3 steel-cr17ni13mo2ti

NT3 steel-cr17ni13mo3ti

NT3 steel-ni26cr15ti2movalb

NT4 alloy-a-286

NT2 durco

NT2 enduro

NT2 stainless steel-17-7ph

NT2 stainless steel-303

NT2 stainless steel-329

NT2 stainless steel-ph-15-7-mo

NT2 steel-cr17ni13

NT2 steel-cr17ni7

NT3 stainless steel-301

NT2 steel-cr18ni10

NT3 stainless steel-18-10

NT2 steel-cr18ni10-1

NT2 steel-cr18ni10ti

NT3 stainless steel-321

NT2 steel-cr18ni11

NT3 steel-x6crni1811

NT2 steel-cr18ni11nb

NT3 stainless steel-347

NT2 steel-cr18ni11nbco

NT3 stainless steel-348

NT2 steel-cr18ni12

NT3 stainless steel-305

NT2 steel-cr18ni12ti

NT2 steel-cr18ni8

NT3 stainless steel-18-8

NT2 steel-cr18ni9

NT3 stainless steel-302

NT2 steel-cr18ni9ti

NT2 steel-cr19ni10

NT3 stainless steel-304

NT2 steel-cr19ni10-1

NT3 stainless steel-304l

NT2 steel-cr20ni11

NT3 stainless steel-308

NT2 steel-cr20ni11-1

NT3 stainless steel-308l

NT2 steel-cr23ni14

NT3 stainless steel-309

NT3 stainless steel-309s

NT2 steel-cr23ni18

NT2 steel-cr25ni20

NT3 alloy-hk-40

NT3 stainless steel-310

NT2 steel-ni25cr20

NT3 stainless steel-20-25

NT2 steel-ni36cr12ti3al-1

NT2 timken alloys

NT1 chromium steels

NT2 chromium-molybdenum steels

NT3 chromium-nickel-molybdenum steels

NT4 alloy-m-813

NT4 steel-cr11ni10mo2ti-1

NT4 steel-cr15ni15motib

NT4 steel-cr16ni13monbv

NT4 steel-cr16ni15mo3nb

NT4 steel-cr16ni16monb

NT4 steel-cr16ni8mo2

NT5 stainless steel-16-8-2

NT4 steel-cr16ni9mo2

NT4 steel-cr17ni12mo3

NT5 stainless steel-316

NT4 steel-cr17ni12mo3-1

NT5 stainless steel-316l

NT5 stainless steel-zcnd17-13

NT4 steel-cr17ni12monb

NT4 steel-cr17ni13mo2ti

NT4 steel-cr17ni13mo3ti

NT4 steel-ni26cr15ti2movalb

NT5 alloy-a-286

NT2 magnet steel-ks

NT2 miduale

NT2 stainless steel-406

NT2 steel-cr10mo2

NT2 steel-cr12

NT3 stainless steel-403

NT2 steel-cr12moniv

NT2 steel-cr12mov

NT3 alloy-ht-9

NT2 steel-cr13

NT3 stainless steel-410

NT2 steel-cr13al

NT3 stainless steel-405

NT2 steel-cr16

NT3 stainless steel-430

NT2 steel-cr16ni

NT2 steel-cr17cu4ni4nb-1

NT3 stainless steel-17-4ph

NT2 steel-cr17mo

NT3 stainless steel-440

NT2 steel-cr17ni4mo3

NT2 steel-cr18

NT2 steel-cr25

NT3 stainless steel-446

NT2 steel-cr9mo

NT2 steel-cr9monbv

NT1 low carbon-high alloy steels

NT2 steel-cr11ni10mo2ti-1

NT2 steel-cr17cu4ni4nb-1

NT3 stainless steel-17-4ph

NT2 steel-cr17ni12mo3-1

NT3 stainless steel-316l

NT3 stainless steel-zcnd17-13

NT2 steel-cr18ni10-1

NT2 steel-cr19ni10-1

NT3 stainless steel-304l

NT2 steel-cr20ni11-1

NT3 stainless steel-308l

NT2 steel-ni36cr12ti3al-1

NT1 stainless steel-317

NT1 stainless steel-318

NT1 stainless steel-422

NT1 stainless steel-fv-548

NT1 stainless steel-jbk-75

NT1 stainless steel m-50

NT1 steel-cr21mn9ni6

NT2 stainless steel-21-6-9

NT1 sweetalloy

RT corrosion resistant alloys

RT heat resisting alloys

**STAINS**

RT banding techniques

RT cleaning

RT dyes

RT histological techniques

**STAMEN**

UF anthers

UF stamen hairs

BT1 flowers

**stamen hairs**

USE stamen



**STAND DENSITY**

INIS: 1999-04-22; ETDE: 1988-01-15

Number of trees per unit area.

RT biomass

RT forests

**standard electroweak model**

INIS: 2000-04-12; ETDE: 1985-03-26

USE weinberg-salam gauge model

**STANDARD INDUSTRIAL****CLASSIFICATION**

INIS: 2000-04-12; ETDE: 1980-08-12

BT1 classification

RT standards

**standard man**

USE reference man

**STANDARD MODEL**

INIS: 1995-08-10; ETDE: 1985-03-26

For the local gauge theory based on a  $SU(3) \times SU(2) \times U(1)$  symmetry that describes strong, weak and electromagnetic interactions among elementary particles.

\*BT1 grand unified theory

RT electromagnetic interactions

RT kobayashi-maskawa matrix

RT m-theory

RT quantum chromodynamics

RT quantum electrodynamics

RT strong interactions

RT weak interactions

RT weinberg angle

RT weinberg-salam gauge model

**STANDARD OF LIVING**

INIS: 2000-04-05; ETDE: 1978-10-23

A measure of level of wealth, comfort, material goods and necessities available. For medical sciences use *QUALITY OF LIFE*.

()

UF living standards

SF way of life

RT economic development

RT income

**standard reference materials**

INIS: 1984-10-23; ETDE: 1984-11-08

USE calibration standards

**STANDARDIZATION**

1977-02-08

RT benchmarks

RT calibration standards

RT cen

RT energy efficiency standards

RT quality assurance

RT quality control

RT safety standards

RT specifications

RT standards

RT standards document

**STANDARDIZED TERMINOLOGY**

UF controlled terminology

UF thesauri

UF vocabulary (controlled)

RT cen

RT information retrieval

RT information systems

RT iso

RT machine translations

**STANDARDS**

1991-08-14

UF automobile efficiency standards

NT1 calibration standards

NT1 energy efficiency standards

NT1 safety standards

NT2 annual limit of intake

NT2 dose limits

NT2 maximum acceptable contamination

NT2 maximum inhalation quantity

NT2 maximum permissible activity

NT2 maximum permissible body burden

NT2 maximum permissible concentration

NT2 maximum permissible dose

NT2 maximum permissible exposure

NT2 maximum permissible intake

NT2 maximum permissible level

RT benchmarks

RT certification

RT compliance

RT international electrotechnical

RT commission

RT specifications

RT standard industrial classification

RT standardization

RT standards document

**standards (calibration)**

ETDE: 2002-06-13

USE calibration standards

**standards (safety)**

ETDE: 2002-06-13

USE safety standards

**STANDARDS DOCUMENT**

INIS: 1987-09-22; ETDE: 1987-10-23

Use only in conjunction with literary indicator

W for indexing the text of national or international standards.

RT cen

RT international electrotechnical

RT commission

RT iso

RT standardization

RT standards

**STANDBY MODE**

2004-05-13

RT electrical equipment

RT electronic equipment

RT operation

RT start-up

**standing crop**

INIS: 2000-04-12; ETDE: 1977-01-28

USE biomass

**STANDING WAVES**

UF waves (standing)

RT electromagnetic radiation

RT mechanical vibrations

RT steady-state conditions

RT travelling waves

RT wave propagation

RT waveguides

RT wavelengths

**STANFORD 1.2-GEV LINAC**

1995-03-02

(Until February 1995 this descriptor was spelled STANFORD 1200-MEV LINAC.)

UF stanford 1200-mev linac

\*BT1 linear accelerators

RT stanford linear accelerator center

**stanford 1200-mev linac**

INIS: 1995-03-02; ETDE: 2002-06-13

(Until February 1995 this was a valid descriptor.)

USE stanford 1.2-gev linac

**STANFORD 20-GEV LINAC**

UF slac 2-mile linac

\*BT1 linear accelerators

RT stanford linear accelerator center

RT stanford linear collider

**stanford large detector**

INIS: 1991-12-17; ETDE: 2002-06-13

USE stanford linear collider detector

**STANFORD LINEAR****ACCELERATOR CENTER**

INIS: 1995-02-17; ETDE: 1976-12-16

UF slac

\*BT1 us doe

\*BT1 us erda

RT california

RT stanford 1.2-gev linac

RT stanford 20-gev linac

RT stanford linear collider

**STANFORD LINEAR COLLIDER**

INIS: 1984-02-22; ETDE: 1983-06-20

UF slc

\*BT1 linear colliders

RT stanford 20-gev linac

RT stanford linear accelerator center

RT stanford linear collider detector

**STANFORD LINEAR COLLIDER****DETECTOR**

INIS: 1992-01-14; ETDE: 1986-01-14

A detector for the SLAC Linear Collider (SLC) designed to study electron-positron interactions up to 100 GeV.

UF slc detectors

UF stanford large detector

SF slc

\*BT1 radiation detectors

RT cherenkov counters

RT drift chambers

RT shower counters

RT stanford linear collider

**STANLEIGH MINE**

INIS: 1982-10-28; ETDE: 1982-11-30

\*BT1 uranium mines

RT elliot lake

**STANNATES**

1997-06-17

Specific compounds, except those of significance to energy research and development such as the NT listed below, should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 oxygen compounds

BT1 tin compounds

NT1 cadmium stannates

RT tin oxides

**STANNIDES**

2013-07-08

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 tin compounds

**STAPHYLOCOCCUS**

\*BT1 bacteria

**stapp theory**

1996-07-08

(Until June 1996 this was a valid descriptor.)

SEE nucleons

SEE wave propagation

**stapp-ypsilantis-metropolis theory**

1996-07-08

(Prior to August 1996 STAPP THEORY was a valid ETDE descriptor.)

SEE nucleons

SEE wave propagation

**STAR ACCRETION**

- UF accretion (stars)  
 \*BT1 star evolution  
 RT accretion disks  
 RT cosmic dust  
 RT cosmological models  
 RT eruptive variable stars  
 RT interstellar grains  
 RT interstellar space  
 RT planet-system accretion  
 RT protostars  
 RT stars

**STAR BURNING**

INIS: 1978-08-30; ETDE: 1978-10-19

*Astrophysical processes only.*

- UF stellar burning  
 NT1 carbon burning  
 NT1 cno cycle  
 NT1 helium burning  
 NT1 hydrogen burning

**STAR CLUSTERS**

- UF clusters (star)  
 RT stars

**STAR DETECTOR**

2015-10-27

- UF star experiment  
 \*BT1 radiation detectors  
 RT bnl  
 RT brookhaven rhic

**STAR EVOLUTION**

- BT1 evolution  
 NT1 r process  
 NT1 s process  
 NT1 star accretion  
 RT carbon burning  
 RT cno cycle  
 RT cosmology  
 RT galactic evolution  
 RT gravitational collapse  
 RT helium burning  
 RT herbig-haro objects  
 RT hertzsprung-russell diagram  
 RT hydrogen burning  
 RT metallicity  
 RT origin  
 RT solar system evolution  
 RT star models  
 RT stars

**star experiment**

2015-10-27

- USE star detector

**STAR MODELS**

INIS: 1975-10-23; ETDE: 1975-12-16

*Mathematical models of stars.*

- UF models (star)  
 UF solar models  
 BT1 mathematical models  
 RT carbon burning  
 RT cno cycle  
 RT hydrogen burning  
 RT star evolution  
 RT stars

**STARCH**

- UF amyllum  
 \*BT1 polysaccharides  
 BT1 reagents  
 RT polyacetals

**starch gum**

- USE dextrin

**STARFIRE TOKAMAK**

INIS: 1981-07-06; ETDE: 1980-03-29

- \*BT1 tokamak devices

**starfish event**

1994-10-14

*A test made during PROJECT DOMINIC.*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE atmospheric explosions  
 USE nuclear explosions

**STARK EFFECT**

- RT electric fields  
 RT line broadening  
 RT magneto-optical effects  
 RT spectral shift

**STARK REACTOR**

*Schnell-Thermischen Argonaut Reaktor Karlsruhe. Decommissioned since 1997.*

- UF sar-2 reactor  
 \*BT1 argonaut type reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**STARQUAKES**

INIS: 2000-04-12; ETDE: 1976-04-19

- RT neutron stars  
 RT pulsars

**STARS**

- NT1 binary stars  
 NT2 eruptive variable stars  
 NT3 novae  
 NT3 supernovae  
 NT4 type i supernovae  
 NT4 type ii supernovae  
 NT3 t tauri stars  
 NT1 dwarf stars  
 NT2 black dwarf stars  
 NT2 red dwarf stars  
 NT2 white dwarf stars  
 NT1 giant stars  
 NT2 red giant stars  
 NT2 supergiant stars  
 NT1 magnetic stars  
 NT1 main sequence stars  
 NT2 carbon stars  
 NT2 sun  
 NT2 wolf-rayet stars  
 NT1 neutron stars  
 NT1 supermassive stars  
 NT1 symbiotic stars  
 NT1 variable stars  
 NT2 eruptive variable stars  
 NT3 novae  
 NT3 supernovae  
 NT4 type i supernovae  
 NT4 type ii supernovae  
 NT3 t tauri stars  
 NT2 pulsating variable stars  
 NT3 cepheids  
 RT astronomy  
 RT black holes  
 RT carbon burning  
 RT chandrasekhar theory  
 RT nucleosynthesis  
 RT planetary nebulae  
 RT proper motion  
 RT protostars  
 RT quasars  
 RT r process  
 RT s process  
 RT star accretion  
 RT star clusters  
 RT star evolution  
 RT star models  
 RT stellar activity  
 RT stellar atmospheres  
 RT stellar flares  
 RT stellar winds  
 RT white holes

**STARSPOTS**

INIS: 1984-02-22; ETDE: 1984-03-06

*Small regions of stellar surfaces that have a luminosity different from that of their surroundings. For the Sun use SUNSPOTS.*

- UF stellar spots  
 BT1 stellar activity  
 NT1 sunspots  
 RT stellar atmospheres  
 RT stellar flares  
 RT variable stars

**START TOKAMAK**

INIS: 1994-03-15; ETDE: 1994-02-25

*Small Tight Aspect Ratio Tokamak at Culham Laboratories, Culham, UK.*

- UF small tight aspect ratio tokamak  
 \*BT1 tokamak devices

**START-UP**

INIS: 1986-04-04; ETDE: 1976-12-15

- NT1 reactor start-up  
 RT operation  
 RT standby mode

**start-up (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-06-13

- USE reactor start-up

**start-up (reactor)**

2000-04-12

- USE reactor start-up

**starvation**

- USE fasting

**state buildings**

INIS: 2000-04-12; ETDE: 1981-01-09

- USE public buildings

**state diagrams**

- USE phase diagrams

**state enterprises**

INIS: 2000-04-12; ETDE: 1979-07-24

- USE public enterprises

**STATE GOVERNMENT**

INIS: 1980-11-07; ETDE: 1977-08-09

*For the government of a major subdivision of a nation, e.g., the governments of the individual States of the United States of America. For the government of a nation state use NATIONAL GOVERNMENT.*

- UF provincial government  
 RT compact commissions  
 RT government policies  
 RT institutional sector  
 RT legislation  
 RT local government  
 RT national government  
 RT public officials  
 RT regional cooperation  
 RT regulations  
 RT social services  
 RT state officials  
 RT us federal assistance programs

**state liability**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

- USE liabilities

**STATE OFFICIALS**

INIS: 2000-04-12; ETDE: 1979-11-23

- UF governors  
 \*BT1 public officials  
 RT state government

**states (energy)**

- USE energy levels

**static electricity eliminators**

ETDE: 1976-05-19

USE electrostatic charge eliminators

**static experiment critical facility**

INIS: 2001-09-25; ETDE: 2001-11-30

USE stacy reactor

**STATIC LOADS**

INIS: 1981-02-27; ETDE: 1976-08-04

UF loads (static)

RT deformation

RT dynamic loads

RT mechanical tests

RT strain rate

RT stresses

**STATIC MAGNETIC FIELDS**

2018-03-01

UF magnetostatics

BT1 magnetic fields

**STATIC MASS SPECTROMETERS**

\*BT1 mass spectrometers

**static reservoir pressure**

INIS: 1986-07-09; ETDE: 1978-09-11

USE reservoir pressure

**station black out**

2017-07-18

USE station blackout

**STATION BLACKOUT**

2017-07-18

UF station black out

\*BT1 reactor accidents

**stationary low power plant-1**

USE sl-1 reactor

**stationary medium power plant-1**

1993-11-09

USE sm-1 reactor

**stationary medium power plant-1a**

1993-11-09

USE sm-1a reactor

**STATIONARY POLLUTANT SOURCES**

INIS: 1992-03-09; ETDE: 1977-03-08

Use for general articles when sources are not named. See also specific stationary sources, e.g., FOSSIL-FUEL POWERPLANTS.

BT1 pollution sources

RT air pollution

RT emission

RT mobile pollutant sources

RT pollution

RT water pollution

**STATISTICAL DATA**

INIS: 1980-09-12; ETDE: 1980-07-09

Use only in conjunction with literary indicator N for data flagging.

\*BT1 numerical data

**STATISTICAL MECHANICS**

BT1 mechanics

RT anyons

RT bbgky equation

RT boltzmann equation

RT boltzmann statistics

RT bose-einstein statistics

RT density of states

RT ergodic hypothesis

RT fermi statistics

RT kinetic equations

RT kinetics

RT kubo formula

RT liouville theorem

RT mean-field theory

RT occupation number

RT parastatistics

RT partition functions

**STATISTICAL MODELS**

UF models (statistical)

BT1 mathematical models

NT1 feynman gas model

NT1 thermodynamic model

NT2 hydrodynamic model

RT kriging

RT particle models

RT systems analysis

**STATISTICS**

1996-03-04

Limited to the indexing of information on the mathematical discipline of statistics or its application in nuclear science; for indexing numerical values of a statistical nature use STATISTICAL DATA.

UF kurtosis

UF skewness

BT1 mathematics

NT1 game theory

NT1 kriging

NT1 multivariate analysis

NT1 regression analysis

NT1 time-series analysis

RT chaos theory

RT data covariances

RT degrees of freedom

RT expectation value

RT fault tree analysis

RT gauss function

RT maximum-likelihood fit

RT probabilistic estimation

RT probability

RT probability density functions

RT random phase approximation

RT stochastic processes

RT systems analysis

RT virial theorem

RT weighting functions

**statni urad pro jadernou bezpecnost**

INIS: 1998-01-29; ETDE: 1998-02-24

USE subj

**STATORS**

1977-01-25

RT armatures

RT machine parts

RT rotors

**stauffer aquaclus process**

2000-04-12

A simple and efficient absorption method capable of reducing sulfur dioxide levels in diverse waste gas streams to low limits. All sulfur compounds in the tail gases are incinerated to sulfur dioxide which is then absorbed in the aquaclus solvent.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**STEADY FLOW**

SF perfect flow

BT1 fluid flow

NT1 ideal flow

RT steady-state conditions

**STEADY-STATE CONDITIONS**

Reached when all transients fade out.

RT equilibrium

RT standing waves

RT steady flow

RT steady-state fusion reactors

RT transients

**STEADY-STATE D-T REACTORS**

\*BT1 d-t reactors

\*BT1 steady-state fusion reactors

**STEADY-STATE FUSION REACTORS**

BT1 thermonuclear reactors

NT1 steady-state d-t reactors

RT steady-state conditions

**STEAM**

UF steam coolant

NT1 natural steam

RT bosch process

RT coolants

RT district heating

RT flash heating

RT flashed steam systems

RT flashing

RT mollier diagrams

RT rankine cycle engines

RT steam generation

RT steam generators

RT steam-iron process

RT steam lines

RT steam quality

RT steam systems

RT superheating

RT total flow systems

RT water

RT water vapor

**STEAM CONDENSERS**

UF condensers (steam)

BT1 vapor condensers

NT1 ice condensers

NT1 isolation condensers

RT film condensation

RT heat exchangers

RT heat transfer

RT reactor cooling systems

RT steam separators

**steam coolant**

USE steam

**STEAM COOLED REACTORS**

1999-10-14

BT1 reactors

RT gas cooled reactors

**steam drive process**

INIS: 2000-04-12; ETDE: 1976-06-07

USE fluid injection processes

**steam explosion process**

INIS: 2000-04-12; ETDE: 1984-10-10

USE autohydrolysis

**steam generating heavy water reactor**

1993-11-09

USE sghwr reactor

**STEAM GENERATION**

INIS: 1986-07-09; ETDE: 1975-10-01

NT1 cogeneration

RT refuse-fueled power plants

RT steam

RT steam generators

**STEAM GENERATION PLANTS**

INIS: 2000-07-24; ETDE: 1981-06-13

RT central heating plants

RT district heating

RT total energy systems

**STEAM GENERATOR TUBE RUPTURE**

2017-07-18

UF sgrtr

\*BT1 reactor accidents

RT steam generators

**STEAM GENERATORS**

- UF* generators (steam)  
 \*BT1 vapor generators  
*RT* boiler fuels  
*RT* boiling  
*RT* economizers  
*RT* feedwater  
*RT* heat exchangers  
*RT* heat transfer  
*RT* multiple steam generator tube rupture  
*RT* reactor cooling systems  
*RT* steam  
*RT* steam generation  
*RT* steam generator tube rupture  
*RT* superheaters  
*RT* waterwall incinerators

**STEAM INJECTION**

- INIS: 1992-08-12; ETDE: 1976-03-11*  
 BT1 fluid injection  
*RT* thermal recovery  
*RT* well stimulation

**STEAM-IRON PROCESS**

- 2000-04-12  
*Reactions in multiplicity of steel cylindrical retorts for hydrogen production.*  
 BT1 chemical reactions  
*RT* hydrogen production  
*RT* iron  
*RT* steam

**STEAM JET EJECTORS**

- BT1 vapor jet ejectors  
*RT* reactor cooling systems

**STEAM LINE BREAK ACCIDENTS**

- 2017-07-18  
*UF* mslb  
 \*BT1 reactor accidents  
*RT* steam lines

**STEAM LINES**

- 1975-11-27  
 BT1 pipelines  
*RT* pipe whip  
*RT* reactor cooling systems  
*RT* steam  
*RT* steam line break accidents  
*RT* steam mufflers  
*RT* steam systems  
*RT* steam traps

**STEAM MUFFLERS**

- 1992-07-20  
*For reduction of noise from escaping steam.*  
*RT* noise  
*RT* steam lines

**STEAM QUALITY**

- RT* steam  
*RT* thermodynamics

**STEAM REFORMER PROCESSES**

- 1999-01-29  
*UF* segas process  
 \*BT1 reformer processes  
*RT* gas recycle hydrogenation process  
*RT* hydrogen production

**STEAM SEPARATORS**

- UF* separators (steam)  
 \*BT1 vapor separators  
*RT* flashed steam systems  
*RT* reactor cooling systems  
*RT* steam condensers

**STEAM SOAK PROCESSES**

- 2000-04-12  
 BT1 fluid injection processes  
*RT* oil sands

**STEAM STRIPPING**

- INIS: 2000-04-12; ETDE: 1984-12-10*  
 \*BT1 waste processing  
 BT1 water treatment  
*RT* waste water

**steam superheaters**

- USE superheaters

**STEAM SYSTEMS**

- 2000-03-27  
*SF* braun standard turbine island  
*SF* c f braun standard turbine island  
 BT1 energy systems  
 NT1 flashed steam systems  
*RT* reactor cooling systems  
*RT* steam  
*RT* steam lines  
*RT* steam traps

**STEAM TRAPS**

- INIS: 2000-03-27; ETDE: 1979-04-12*  
*Devices that drain and remove condensate automatically from steam lines.*  
 BT1 traps  
*RT* steam lines  
*RT* steam systems

**STEAM TURBINES**

- \*BT1 turbines  
*RT* flashed steam systems  
*RT* gas turbines  
*RT* reactor cooling systems

**STEAMBOAT SPRINGS**

- 2000-04-12  
*Undeveloped geothermal field under exploration.*  
 \*BT1 nevada

**STEARATES**

- INIS: 2000-04-12; ETDE: 1976-11-01*  
 BT1 carboxylic acid salts  
*RT* octadecanoic acid

**stearic acid**

- USE octadecanoic acid

**steel-000kh18n13**

- INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel steels

**steel-000kh20n16ag6**

- INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel steels

**steel-000kh20n20**

- INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 nickel-CHROMIUM STEELS was used for this concept in ETDE.)  
 USE chromium alloys  
 USE nickel steels

**steel-000kh25**

- INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE stainless steels

**steel-000kh28**

- INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE stainless steels

**steel-00kh20n32t**

- INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE stainless steels

**steel-03kh11n10m2t**

- INIS: 1983-11-07; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE steel-cr11ni10mo2ti-l

**steel-03kh11n10m2tk6**

- INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel steels

**steel-03kh13ag13**

- INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE stainless steels

**steel-08g2sfb**

- INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE carbon steels

**steel-08kh18n10t**

- INIS: 1983-11-07; ETDE: 1982-02-11*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE steel-cr18ni10ti

**steel-0kh16n15m3b**

- INIS: 1983-11-07; ETDE: 1979-05-29*  
 USE steel-cr16ni15mo3nb

**steel-0kh18g8n2t**

- INIS: 2000-04-12; ETDE: 1979-06-21*  
 USE stainless steels

**steel-0kh18n10t**

- INIS: 1983-11-07; ETDE: 1979-05-29*  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-cr18ni10ti

**steel-0kh18n9t**

- INIS: 1983-11-07; ETDE: 1979-05-29*  
 (Prior to December 1988 this was a valid ETDE descriptor.)  
 USE steel-cr18ni9ti

**steel-0kh19nt**

- INIS: 2000-04-12; ETDE: 1979-05-29*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel steels

**steel-0kh21n5t**

- INIS: 1996-11-13; ETDE: 1979-05-29*  
 (Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-CR21NI5TI was used for this concept in ETDE.)  
 USE chromium steels  
 USE nickel alloys

**steel-0kh22n5t**

- INIS: 1996-11-13; ETDE: 1979-05-30*  
 (Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-CR22NI5TI was used for this concept in ETDE.)  
 USE chromium steels  
 USE nickel alloys

**steel-1-kh18n20t3p**

*INIS: 2000-04-12; ETDE: 1979-05-29*  
 (Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
 USE chromium alloys  
 USE nickel steels

**steel-10cd9-10**

*INIS: 1997-01-28; ETDE: 1979-05-30*  
 (Until October 1996 this was a valid descriptor.)  
 USE steel-cr2mo

**steel-10crninb910**

*ETDE: 1979-05-30*  
 USE steel-cr2moninb

**steel-12kh1mf**

*INIS: 1983-11-07; ETDE: 1979-05-30*  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-crmov

**steel-12kh2mv8fb**

*INIS: 2000-04-12; ETDE: 1979-06-21*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE steels

**steel-12kh2nch**

*INIS: 1983-11-07; ETDE: 1979-05-30*  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-ni3cr

**steel-12kh2v5fb**

*INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE steels

**steel-12khm**

*INIS: 1983-11-07; ETDE: 1979-05-30*  
 USE steel-crmov

**steel-12khn3**

*INIS: 1983-11-07; ETDE: 1979-05-31*  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-ni3cr

**steel-12khn3a**

*INIS: 1983-11-07; ETDE: 1979-05-30*  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-ni3cr

**steel-13cr6nimo**

*INIS: 1996-11-13; ETDE: 2002-06-13*  
 USE austenitic steels  
 USE chromium-nickel-molybdenum steels

**steel-15cd9-10**

*INIS: 1983-11-07; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE steel-cr2mo

**steel-15kh1mf**

*INIS: 1983-11-07; ETDE: 1979-05-30*  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-crmov

**steel-15kh1m1fl**

*INIS: 1983-11-07; ETDE: 1979-05-30*  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-crmov

**steel-15kh2mfa**

*INIS: 1983-11-07; ETDE: 1982-01-07*  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-cr2mov

**steel-15khg2sfmr**

*INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-molybdenum steels

**steel-18kh16n6**

*INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel steels

**steel-18kh2n4va**

*INIS: 1983-11-07; ETDE: 1979-05-30*  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-ni4crw

**steel-18mnv6**

*INIS: 2000-04-12; ETDE: 1979-06-21*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE steels

**steel-1kh12v2mf**

*INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium steels

**steel-1kh16n14v2br ehp17**

*INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel steels

**steel-1kh16n15m3b**

*INIS: 1983-11-07; ETDE: 1979-05-30*  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-cr16ni15mo3nb

**steel-1kh16n4b**

*INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel steels

**steel-1kh18n10t**

*INIS: 1983-11-07; ETDE: 1979-05-30*  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-cr18ni10ti

**steel-1kh18n9**

*INIS: 1983-11-07; ETDE: 1979-05-30*  
 (Prior to December 1988 this was a valid ETDE descriptor.)  
 USE steel-cr18ni9

**steel-1kh18n9t**

*INIS: 1983-11-07; ETDE: 1979-05-30*  
 (Prior to December 1988 this was a valid ETDE descriptor.)  
 USE steel-cr18ni9ti

**steel-20kh**

*INIS: 1983-11-07; ETDE: 1979-06-21*  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-crni

**steel-20kh2n2m**

*INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel steels

**steel-20khmf**

*INIS: 2000-04-12; ETDE: 1979-06-21*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-molybdenum steels

**steel-20khn3mf**

*INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel steels

**steel-20m5**

*INIS: 1994-06-27; ETDE: 1979-06-21*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE manganese steels

**steel-20n14**

*INIS: 1996-11-13; ETDE: 1979-06-21*  
 (Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-NI4 was used for this concept in ETDE.)  
 USE low alloy steels  
 USE nickel alloys

**steel-22nimocr37**

*INIS: 1981-02-27; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE steel-nimocr

**steel-28cdv508**

*INIS: 1983-11-07; ETDE: 1979-05-30*  
 (Prior to June 1989 this was a valid ETDE descriptor.)  
 USE steel-crmov

**steel-2kh13**

*INIS: 1983-11-07; ETDE: 1979-05-30*  
 (Prior to June 1989 this was as valid ETDE descriptor.)  
 USE steel-cr13

**steel-2kh18n8v2**

*INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel steels

**steel-2kh8v8m2k8**

*INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-molybdenum steels

**steel-30n9k4**

*INIS: 1994-07-01; ETDE: 1979-06-21*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE nickel steels

**steel-37khn3t**

*INIS: 2000-04-12; ETDE: 1979-05-30*  
 (Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept in ETDE.)  
 USE chromium alloys  
 USE nickel steels

**steel-38kh5msfa**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-molybdenum steels

**steel-38khmyua**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-cralnimo

**steel-3hk5s**

ETDE: 1979-05-31

USE steel-cr2moninb

**steel-3kh15n13yu3**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**steel-40k14g18f**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to May 2001 this was a valid descriptor.)

USE chromium steels  
USE manganese alloys  
USE vanadium alloys

**steel-40kh**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-crni

**steel-40kh13n8g8**

INIS: 1996-11-13; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-CR13MN8NI8 was used for this concept.)

USE austenitic steels  
USE chromium-nickel steels  
USE manganese alloys

**steel-40kh2n5sm**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)

USE chromium alloys  
USE nickel steels

**steel-40khn**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-nicr

**steel-40khnma**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-nicrmo

**steel-42kh2gsnm**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel-molybdenum steels

**steel-4kh12n8g8mfj**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**steel-4kh14nv2m**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**steel-5kh2mf**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-crmov

**steel-60kh3g8n8v**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)

SEE chromium alloys  
SEE steels

**steel-7kh18n9**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to December 1988 this was a valid ETDE descriptor.)

USE steel-cr18ni9

**steel-9cr**

INIS: 1988-03-08; ETDE: 2002-06-13

USE steel-cr10mo2

**steel-9kh18**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-cr18

**steel-9khs**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium steels

**STEEL-ASTM-A105**

INIS: 2000-04-12; ETDE: 1979-05-29

\*BT1 carbon steels

**STEEL-ASTM-A106**

1993-10-03

\*BT1 carbon steels

**STEEL-ASTM-A212**

1993-10-03

\*BT1 carbon steels

**STEEL-ASTM-A285**

INIS: 1993-10-03; ETDE: 1978-12-20

UF a 285 steel

\*BT1 carbon steels

**STEEL-ASTM-A302**

1993-10-03

\*BT1 steel-mnmo

**STEEL-ASTM-A350**

2000-04-12

\*BT1 low alloy steels

**steel-astm-a350 (gr 1)**

INIS: 1983-11-09; ETDE: 2002-06-13

USE carbon steels

**steel-astm-a350 (gr 2)**

INIS: 1983-11-09; ETDE: 2002-06-13

USE carbon steels

**steel-astm-a350 (gr 3)**

INIS: 1996-11-13; ETDE: 2002-06-13

USE low alloy steels  
USE nickel alloys

**steel-astm-a350 (gr 4)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-crni

**STEEL-ASTM-A387**

INIS: 2000-04-12; ETDE: 1979-03-27

\*BT1 low alloy steels

**steel-astm-a387 (gr 11)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-crmo

**steel-astm-a387 (gr 12)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-crmo

**steel-astm-a387 (gr 2)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-crmo

**steel-astm-a387 (gr 21)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr2mo

**steel-astm-a387 (gr 22)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr2mo

**steel-astm-a387 (gr 5)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr5mo

**steel-astm-a416**

INIS: 1997-01-28; ETDE: 1979-03-28  
(Until October 1996 this was a valid descriptor.)

USE carbon steels

**STEEL-ASTM-A508**

1999-02-18

\*BT1 low alloy steels

**steel-astm-a508 (gr 2)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-nimocr

**steel-astm-a508 (gr 3)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-mnnimo

**steel-astm-a508 (gr 4)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-ni3crmo

**steel-astm-a508 (gr 5)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-ni3crmov

**STEEL-ASTM-A516**

INIS: 1993-10-03; ETDE: 1976-02-19

\*BT1 carbon steels

**STEEL-ASTM-A533**

1993-01-28

For grade A or B use STEEL-MNNIMO, and for grade C or D use STEEL-MNMO.

\*BT1 low alloy steels

**steel-astm-a533 (gr a)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-mnnimo

**steel-astm-a533 (gr b)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-astm-a533-b

**steel-astm-a533 (gr c)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-mnmo

**steel-astm-a533 (gr d)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-mnmo

**STEEL-ASTM-A533-B**

1999-05-27

UF steel-astm-a533 (gr b)

- \*BT1 carbon steels
- \*BT1 steel-mnimo

**STEEL-ASTM-A537**

INIS: 1993-10-03; ETDE: 1981-01-27

- \*BT1 steel-mncumo

**STEEL-ASTM-A542**

1993-10-03

- \*BT1 steel-cr2mo

**STEEL-ASTM-A543**

1993-10-03

- \*BT1 steel-ni3crmo

**STEEL-ASTM-A572**

INIS: 2000-04-12; ETDE: 1979-12-17

- \*BT1 steels

**STEEL-CD-4MCU**

INIS: 2000-04-12; ETDE: 1979-09-06

UF cd-4mcu

- \*BT1 chromium alloys
- \*BT1 copper alloys
- \*BT1 corrosion resistant alloys
- \*BT1 iron base alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys

**STEEL-CR10MO2**

INIS: 1988-03-08; ETDE: 1989-11-06

UF steel-9cr

UF steel-ifms

- \*BT1 chromium steels
- \*BT1 martensitic steels
- \*BT1 molybdenum alloys
- RT first wall

**STEEL-CR11NI10MO2TL-L**

1983-11-07

UF steel-03kh11n10m2t

UF steel-ehp 678

UF steel-ehp 679

UF steel-ehp678

UF steel-ehp679

- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 low carbon-high alloy steels
- \*BT1 titanium alloys

**STEEL-CR12**

1983-11-07

UF steel-kh12

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 martensitic steels
- NT1 stainless steel-403

**STEEL-CR12MONIV**

INIS: 1984-02-23; ETDE: 1990-11-26

UF steel-x20crmov 121

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 ferritic steels
- \*BT1 heat resisting alloys
- \*BT1 molybdenum additions
- \*BT1 nickel additions
- \*BT1 vanadium additions

**STEEL-CR12MOV**

1983-11-08

UF steel-ht-9

UF steel-kh12m

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 martensitic steels
- \*BT1 molybdenum additions
- \*BT1 vanadium additions
- NT1 alloy-ht-9

**STEEL-CR13**

INIS: 1999-10-08; ETDE: 1983-11-19

UF croloy 12

UF steel-2kh13

UF steel-kh13

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 croloy
- \*BT1 heat resisting alloys
- \*BT1 martensitic steels
- NT1 stainless steel-410

**STEEL-CR13AL**

1983-11-07

- \*BT1 aluminium additions
- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 ferritic steels
- \*BT1 heat resisting alloys
- NT1 stainless steel-405

**steel-cr13mn8ni8**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

- USE austenitic steels
- USE chromium-nickel steels
- USE manganese alloys

**steel-cr13ni6mo-l**

INIS: 1997-01-28; ETDE: 1990-11-26

(Until October 1996 this was a valid descriptor.)

- USE austenitic steels
- USE chromium-nickel-molybdenum steels
- USE low carbon-high alloy steels

**STEEL-CR15NI15MOTIB**

1983-11-07

UF steel-din-1-4970

- \*BT1 austenitic steels
- \*BT1 boron additions
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions

**STEEL-CR16**

1983-11-07

UF croloy 18

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 croloy
- \*BT1 ferritic steels
- \*BT1 heat resisting alloys
- NT1 stainless steel-430

**STEEL-CR16NI**

INIS: 1996-11-13; ETDE: 1983-11-19

(From April 1977 till March 1997

STAINLESS STEEL-431 was a valid ETDE descriptor.)

UF stainless steel-431

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 martensitic steels
- \*BT1 nickel alloys

**STEEL-CR16NI13MONBV**

1983-11-07

UF steel-din-1-4988

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions
- \*BT1 vanadium additions

**STEEL-CR16NI15MO3NB**

1983-11-07

UF steel-0kh16n15m3b

UF steel-1kh16n15m3b

UF steel-kh16n15m3b

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions

**STEEL-CR16NI16MONB**

1983-11-07

UF steel-din-1-4981

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions

**STEEL-CR16NI8MO2**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-16-8-2

**STEEL-CR16NI9MO2**

2003-01-23

UF steel-kh16n9m2

- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 manganese additions
- \*BT1 silicon additions

**STEEL-CR17CU4NI4NB-L**

INIS: 1983-11-07; ETDE: 1989-11-06

- \*BT1 chromium steels
- \*BT1 copper alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels
- \*BT1 martensitic steels
- \*BT1 nickel alloys
- \*BT1 niobium additions
- NT1 stainless steel-17-4ph

**steel-cr17mn15nni**

INIS: 1996-07-23; ETDE: 1984-01-27

(Until July 1996 this was a valid descriptor.)

- USE stainless steels

**STEEL-CR17MO**

1983-11-07

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 martensitic steels
- \*BT1 molybdenum additions
- NT1 stainless steel-440

**STEEL-CR17NI12MO3**

1983-11-07

UF stainless steel-z6cnd17-12

UF steel-din-1-4919

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-316

**STEEL-CR17NI12MO3-L**

1983-11-07

UF stainless steel-z2cnd17-12

UF stainless steel-z3cnd17-12

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels
- NT1 stainless steel-316l

**NT1** stainless steel-zcnd17-13

### STEEL-CR17NI2MONB

1983-11-07

*UF* stainless steel-fv548

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions

### STEEL-CR17NI13

*INIS: 1985-09-06; ETDE: 1990-11-26*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys

### STEEL-CR17NI13MO2TI

1983-11-07

*UF* steel-kh17n13m2t

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions

### STEEL-CR17NI13MO3TI

1983-11-07

*UF* alloy-ehi 183

*UF* alloy-ehi 397

*UF* alloy-ehi 432

*UF* steel-kh17n13m3t

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions

### STEEL-CR17NI4MO3

*INIS: 1996-11-13; ETDE: 1983-11-16*

(From 1974 till March 1997 STAINLESS STEEL-AM-350 was a valid ETDE descriptor.)

*UF* stainless steel-am-350

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys

### STEEL-CR17NI7

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1** stainless steel-301

### STEEL-CR18

1983-11-07

*UF* steel-9kh18

*UF* steel-kh18

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 martensitic steels

### STEEL-CR18NI10

1983-11-07

*UF* croloy 3035

*UF* stainless steel-z6cn18-10

*UF* steel-kh18n10

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 croloy
- \*BT1 heat resisting alloys
- NT1** stainless steel-18-10

### STEEL-CR18NI10-L

*INIS: 1996-11-13; ETDE: 1983-11-16*

(From May 1979 till March 1997

STAINLESS STEEL-Z2CN18-10 was a valid ETDE descriptor.)

*UF* stainless steel-z2cn18-10

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels

### STEEL-CR18NI10TI

1983-11-07

*UF* stainless steel-z6cnt18-10

*UF* stainless steel-z8cnt18-10

*UF* steel-08kh18n10t

*UF* steel-0kh18n10t

*UF* steel-1kh18n10t

*UF* steel-kh18n10t

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions
- NT1** stainless steel-321

### STEEL-CR18NI11

1983-11-07

*UF* steel-din-1-4948

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1** steel-x6crni1811

### STEEL-CR18NI11NB

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions
- NT1** stainless steel-347

### STEEL-CR18NI11NBCO

*INIS: 1983-11-07; ETDE: 1984-02-10*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 cobalt additions
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions
- NT1** stainless steel-348

### STEEL-CR18NI12

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1** stainless steel-305

### STEEL-CR18NI12TI

1983-11-07

*UF* steel-kh18n12t

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions

### STEEL-CR18NI8

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1** stainless steel-18-8

### STEEL-CR18NI9

1983-11-07

*UF* steel-1kh18n9

*UF* steel-7kh18n9

*UF* steel-din-1-4301

*UF* steel-kh18n9

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1** stainless steel-302

### STEEL-CR18NI9TI

1983-11-07

*UF* steel-0kh18n9t

*UF* steel-1kh18n9t

*UF* steel-kh18n9t

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions

### STEEL-CR19NI10

1983-11-07

\*BT1 austenitic steels

- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1** stainless steel-304

### STEEL-CR19NI10-L

1983-11-07

\*BT1 austenitic steels

- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels
- NT1** stainless steel-304L

### STEEL-CR20NI11

1983-11-07

\*BT1 austenitic steels

- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1** stainless steel-308

### STEEL-CR20NI11-L

1983-11-07

\*BT1 austenitic steels

- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels
- NT1** stainless steel-308L

### STEEL-CR21MN9NI6

1983-11-07

\*BT1 austenitic steels

- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 manganese alloys
- \*BT1 nickel alloys
- \*BT1 nitrogen additions
- \*BT1 stainless steels
- NT1** stainless steel-21-6-9

### steel-cr21ni5ti

*INIS: 1997-01-28; ETDE: 1983-11-19*

(Until October 1996 this was a valid descriptor.)

- USE chromium steels
- USE nickel alloys

### steel-cr22ni5ti

*INIS: 1997-01-28; ETDE: 1983-11-19*

(Until October 1996 this was a valid descriptor.)

- USE chromium steels



USE nickel alloys

**STEEL-CR23NI14**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-309
- NT1 stainless steel-309s

**STEEL-CR23NI18**

1983-11-07

- UF *steel-kh23n18*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys

**STEEL-CR25**

1983-11-07

- UF *steel-kh25*
- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 ferritic steels
- \*BT1 heat resisting alloys
- NT1 stainless steel-446

**STEEL-CR25NI20**

1983-11-07

- UF *alloy-ck-20*
- UF *hk 40*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 alloy-hk-40
- NT1 stainless steel-310

**steel-cr26ni5mo-1**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

- USE chromium steels
- USE low carbon-high alloy steels
- USE molybdenum alloys
- USE nickel alloys

**STEEL-CR2MO**

INIS: 1996-11-13; ETDE: 1983-11-09

(From May 1979 till March 1997 STEEL-10CD9-10 was a valid ETDE descriptor; from May 1979 till June 1989 STEEL-15CD9-10 was a valid ETDE descriptor.)

- UF *croloy 2*
- UF *steel-10cd9-10*
- UF *steel-15cd9-10*
- UF *steel-astm-a387 (gr 21)*
- UF *steel-astm-a387 (gr 22)*
- \*BT1 chromium alloys
- \*BT1 croloy
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- NT1 steel-astm-a542

**STEEL-CR2MONINB**

1983-11-07

- UF *sandvik-ht8x6*
- UF *steel-10crninb910*
- UF *steel-3hk5s*
- UF *steel-din-1-6770*
- \*BT1 chromium alloys
- \*BT1 heat resisting alloys
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions
- \*BT1 niobium additions
- RT ferrite

**STEEL-CR2MOV**

1983-11-07

- UF *steel-15kh2mfa*

- \*BT1 chromium alloys
- \*BT1 copper additions
- \*BT1 heat resisting alloys
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions
- \*BT1 vanadium additions

**STEEL-CR2NIMOV**

INIS: 1986-05-23; ETDE: 1990-11-26

- \*BT1 chromium alloys
- \*BT1 copper additions
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel alloys
- \*BT1 vanadium additions

**STEEL-CR5MO**

1983-11-07

- UF *croloy 5*
- UF *steel-astm-a387 (gr 5)*
- UF *steel-kh5m*
- \*BT1 chromium alloys
- \*BT1 croloy
- \*BT1 low alloy steels
- \*BT1 molybdenum additions

**STEEL-CR9MO**

INIS: 1984-02-23; ETDE: 1990-11-26

- \*BT1 chromium steels
- \*BT1 ferritic steels
- \*BT1 molybdenum additions

**STEEL-CR9MONBV**

INIS: 1996-11-13; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

- UF *steel-z10cdnbv9*
- \*BT1 chromium steels
- \*BT1 ferritic steels
- \*BT1 molybdenum alloys
- \*BT1 niobium additions
- \*BT1 vanadium additions

**STEEL-CRALNIMO**

1983-11-07

- UF *steel-38khmyua*
- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions

**STEEL-CRMO**

1983-11-07

- UF *steel-12khm*
- UF *steel-astm-a387 (gr 11)*
- UF *steel-astm-a387 (gr 12)*
- UF *steel-astm-a387 (gr 2)*
- \*BT1 chromium additions
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions

**STEEL-CRMOV**

1983-11-07

- UF *steel-12kh1mf*
- UF *steel-15kh1mf*
- UF *steel-15kh1m1f1*
- UF *steel-28cdv508*
- UF *steel-5kh2mf*
- \*BT1 chromium alloys
- \*BT1 copper additions
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions
- \*BT1 vanadium additions

**STEEL-CRNI**

1983-11-07

- UF *steel-20kh*
- UF *steel-40kh*

UF *steel-astm-a350 (gr 4)*

- \*BT1 chromium additions
- \*BT1 copper additions
- \*BT1 low alloy steels
- \*BT1 nickel additions

**steel-din-1-4301**

INIS: 1983-11-07; ETDE: 1980-08-12

(Prior to December 1988 this was a valid ETDE descriptor.)

- USE steel-cr18ni9

**steel-din-1-4449**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

- USE chromium-nickel steels

**steel-din-1-4919**

INIS: 1983-11-18; ETDE: 1980-08-12

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-cr17ni12mo3

**steel-din-1-4948**

INIS: 1983-11-07; ETDE: 1979-05-29

Equivalent to STAINLESS STEEL-304.

(prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-cr18ni11

**steel-din-1-4970**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-cr15ni15motib

**steel-din-1-4981**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-cr16ni16monb

**steel-din-1-4988**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-cr16ni13monbv

**steel-din-1-6310**

INIS: 1983-11-08; ETDE: 1980-05-07

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-mnnimo

**steel-din-1-6342**

INIS: 1983-11-07; ETDE: 1980-08-12

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-mnnimov

**steel-din-1-6343**

INIS: 1983-11-08; ETDE: 1980-08-12

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-mnnimo

**steel-din-1-6348**

INIS: 1996-07-23; ETDE: 1980-08-12

(Prior to March 1989 this was a valid ETDE descriptor; from March 1989 till March 1997 STEEL-NI3MOV was used for this concept.)

- USE low alloy steels
- USE nickel alloys

**steel-din-1-6742**

INIS: 1983-11-08; ETDE: 1980-08-12

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-ni3crmo

**steel-din-1-6751**

INIS: 1983-11-07; ETDE: 1980-08-12  
USE steel-nimocr

**steel-din-1-6770**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr2moninb

**steel-din-1-6950**

INIS: 1983-11-07; ETDE: 1980-08-12  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-ni3crmov

**steel-ehp 678**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-cr11ni10mo2ti-1

**steel-ehp 679**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-cr11ni10mo2ti-1

**steel-ehp678**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr11ni10mo2ti-1

**steel-ehp679**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr11ni10mo2ti-1

**steel-ehp699**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel-molybdenum steels

**steel-ht-9**

INIS: 1985-09-06; ETDE: 2002-06-13  
USE steel-cr12mov

**STEEL-IN-787**

INIS: 2000-04-12; ETDE: 1976-08-24  
\*BT1 carbon steels  
\*BT1 copper alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel alloys  
\*BT1 niobium alloys

**steel industry**

INIS: 1992-03-10; ETDE: 1979-12-10  
USE metal industry

**steel-jfms**

INIS: 1988-03-08; ETDE: 2002-06-13  
USE steel-cr10mo2

**steel-kh12**

INIS: 1983-11-07; ETDE: 1979-05-31  
USE steel-cr12

**steel-kh12m**

INIS: 1983-11-08; ETDE: 1979-05-29  
USE steel-cr12mov

**steel-kh12n20t3p**

INIS: 2000-04-12; ETDE: 1979-05-31  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 nickel-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-kh13**

INIS: 1983-11-07; ETDE: 1979-05-31  
USE steel-cr13

**steel-kh13s2yu2bt**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium steels

**steel-kh14k9n6m5**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel-molybdenum steels

**steel-kh14n8yum2**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-kh15n20m2t2**

INIS: 2000-04-12; ETDE: 1979-05-29  
USE chromium-nickel-molybdenum steels

**steel-kh15n7yum2**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-kh15n9yu**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-kh16n15m3b**

INIS: 1983-11-07; ETDE: 1979-05-29  
USE steel-cr16ni15mo3nb

**steel-kh16n9m2**

INIS: 2003-01-23; ETDE: 1979-05-29  
(Prior to January 2003 this was a valid descriptor.)  
USE steel-cr16ni9mo2

**steel-kh17n13m2t**

INIS: 1983-11-07; ETDE: 1979-05-29  
USE steel-cr17ni13mo2ti

**steel-kh17n13m3t**

INIS: 1983-11-07; ETDE: 1979-05-29  
USE steel-cr17ni13mo3ti

**steel-kh17n5m3**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel-molybdenum steels

**steel-kh18**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18

**steel-kh18n10**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni10

**steel-kh18n10t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni10ti

**steel-kh18n12t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni12ti

**steel-kh18n22v2t2**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-kh18n8**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-kh18n9**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9

**steel-kh18n9t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9ti

**steel-kh20n45b**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE alloy-ni45fe34cr20

**steel-kh23n18**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr23ni18

**steel-kh25**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr25

**steel-kh5m**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr5mo

**steel-khn35vt**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**STEEL-MNCUMO**

1983-11-07  
\*BT1 chromium additions  
\*BT1 copper additions  
\*BT1 low alloy steels  
\*BT1 manganese alloys  
\*BT1 molybdenum additions  
\*BT1 nickel additions  
NT1 steel-astm-a537

**STEEL-MNMO**

1983-11-07  
UF steel-astm-a533 (gr c)  
UF steel-astm-a533 (gr d)  
\*BT1 low alloy steels  
\*BT1 manganese alloys  
\*BT1 molybdenum additions  
NT1 steel-astm-a302

**STEEL-MNNIMO**

INIS: 1999-05-27; ETDE: 1983-11-09

- UF steel-astm-a508 (gr 3)  
 UF steel-astm-a533 (gr a)  
 UF steel-din-1-6310  
 UF steel-din-1-6343  
 \*BT1 low alloy steels  
 \*BT1 manganese alloys  
 \*BT1 molybdenum additions  
 \*BT1 nickel additions  
 NT1 steel-astm-a533-b

**STEEL-MNNIMOV**

1983-11-07

- UF steel-din-1-6342  
 \*BT1 low alloy steels  
 \*BT1 manganese alloys  
 \*BT1 molybdenum additions  
 \*BT1 nickel alloys  
 \*BT1 vanadium additions

**steel-n26kht1**

INIS: 2000-04-12; ETDE: 1979-05-29

- (Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
 USE chromium alloys  
 USE nickel steels

**steel-n36khtyu**

INIS: 1983-11-07; ETDE: 1979-05-29

- (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-ni36cr12ti3al-1

**steel-ni17cr14moti-1**

INIS: 1997-01-28; ETDE: 1990-11-26

- (Until October 1996 this was a valid descriptor.)  
 USE austenitic steels  
 USE chromium-nickel-molybdenum steels  
 USE low carbon-high alloy steels

**STEEL-NI25CR20**

1983-11-07

- \*BT1 austenitic steels  
 \*BT1 chromium-nickel steels  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 NT1 stainless steel-20-25

**STEEL-NI26CR15TI2MOVALB**

1983-11-07

- \*BT1 aluminium additions  
 \*BT1 austenitic steels  
 \*BT1 boron additions  
 \*BT1 chromium-nickel-molybdenum steels  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 titanium alloys  
 \*BT1 vanadium additions  
 NT1 alloy-a-286

**STEEL-NI36CR12TI3AL-L**

1983-11-07

- UF steel-n36khtyu  
 SF alloy-ehi 702  
 \*BT1 aluminium additions  
 \*BT1 chromium-nickel steels  
 \*BT1 corrosion resistant alloys  
 \*BT1 low carbon-high alloy steels  
 \*BT1 titanium alloys

**steel-ni36cr18**

INIS: 1997-01-28; ETDE: 1983-11-19

- (Until October 1996 this was a valid descriptor.)  
 USE austenitic steels  
 USE chromium-nickel steels

**STEEL-NI3CR**

1983-11-07

- UF steel-12kh2nch  
 UF steel-12khn3  
 UF steel-12khm3a  
 \*BT1 chromium additions  
 \*BT1 copper additions  
 \*BT1 low alloy steels  
 \*BT1 nickel alloys

**STEEL-NI3CRMO**

1983-11-07

- UF steel-astm-a508 (gr 4)  
 UF steel-din-1-6742  
 \*BT1 chromium alloys  
 \*BT1 low alloy steels  
 \*BT1 molybdenum additions  
 \*BT1 nickel alloys  
 \*BT1 vanadium additions  
 NT1 steel-astm-a543

**STEEL-NI3CRMV**

1983-11-07

- UF steel-astm-a508 (gr 5)  
 UF steel-din-1-6950  
 \*BT1 chromium alloys  
 \*BT1 low alloy steels  
 \*BT1 molybdenum additions  
 \*BT1 nickel alloys  
 \*BT1 vanadium additions

**steel-ni3mov**

INIS: 1996-07-23; ETDE: 1983-11-10

- (Until July 1996 this was a valid descriptor.)  
 USE low alloy steels  
 USE nickel alloys

**steel-ni4**

INIS: 1997-01-28; ETDE: 1984-02-10

- (Until October 1996 this was a valid descriptor.)  
 USE low alloy steels  
 USE nickel alloys

**STEEL-NI4CRW**

1983-11-07

- UF steel-18kh2n4va  
 \*BT1 chromium alloys  
 \*BT1 copper additions  
 \*BT1 low alloy steels  
 \*BT1 nickel alloys  
 \*BT1 tungsten additions

**STEEL-NICR**

1983-11-07

- UF steel-40khn  
 \*BT1 chromium additions  
 \*BT1 copper additions  
 \*BT1 low alloy steels  
 \*BT1 nickel alloys

**STEEL-NICRMO**

1983-11-07

- UF steel-40khmma  
 \*BT1 chromium additions  
 \*BT1 copper additions  
 \*BT1 low alloy steels  
 \*BT1 molybdenum additions  
 \*BT1 nickel alloys  
 \*BT1 nitrogen additions

**STEEL-NIMOCR**

1983-11-07

- UF steel-22nimocr37  
 UF steel-astm-a508 (gr 2)  
 UF steel-din-1-6751  
 \*BT1 chromium additions  
 \*BT1 heat resisting alloys  
 \*BT1 low alloy steels  
 \*BT1 molybdenum additions  
 \*BT1 nickel additions

**steel-r18**

INIS: 2000-04-12; ETDE: 1979-06-21

- (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium steels

**steel-sae-1006**

INIS: 1997-01-28; ETDE: 1977-04-13

- (Until October 1996 this was a valid descriptor.)  
 USE carbon steels

**STEEL-SAE-1045**

INIS: 2000-04-12; ETDE: 1979-06-21

- \*BT1 carbon steels

**steel vnt**

INIS: 1997-01-28; ETDE: 1978-12-20

- (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE manganese steels

**steel-vzh102**

INIS: 2000-04-12; ETDE: 1979-05-29

- (Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
 USE chromium alloys  
 USE nickel steels

**steel-x20crmov 121**

INIS: 1984-04-25; ETDE: 2002-06-13

- USE steel-cr12moniv

**STEEL-X6CRNI1811**

INIS: 1993-10-03; ETDE: 1979-05-29

- \*BT1 steel-cr18ni11

**steel-z10cdnbv9**

INIS: 1997-01-28; ETDE: 1979-05-29

- (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE steel-cr9monbv

**steel-z10cdv7**

INIS: 2000-04-12; ETDE: 1979-05-29

- (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-molybdenum steels

**STEELS**

- UF steel-12kh2mv8fb  
 UF steel-12kh2v5fb  
 UF steel-18mrv6  
 SF steel-60kh3g8n8v  
 \*BT1 carbon additions  
 \*BT1 iron base alloys  
 NT1 austenitic steels  
 NT2 steel-cr15ni15motib  
 NT2 steel-cr16ni13monbv  
 NT2 steel-cr16ni15mo3nb  
 NT2 steel-cr16ni16monb  
 NT2 steel-cr16ni8mo2  
 NT3 stainless steel-16-8-2  
 NT2 steel-cr17ni12mo3  
 NT3 stainless steel-316  
 NT2 steel-cr17ni12mo3-l  
 NT3 stainless steel-316l  
 NT3 stainless steel-zcnd17-13  
 NT2 steel-cr17ni12monb  
 NT2 steel-cr17ni13  
 NT2 steel-cr17ni13mo2ti  
 NT2 steel-cr17ni13mo3ti  
 NT2 steel-cr17ni7  
 NT3 stainless steel-301  
 NT2 steel-cr18ni10  
 NT3 stainless steel-18-10  
 NT2 steel-cr18ni10-l  
 NT2 steel-cr18ni10ti  
 NT3 stainless steel-321

- NT2** steel-cr18ni11  
**NT3** steel-x6crni1811  
**NT2** steel-cr18ni11nb  
**NT3** stainless steel-347  
**NT2** steel-cr18ni11nbco  
**NT3** stainless steel-348  
**NT2** steel-cr18ni12  
**NT3** stainless steel-305  
**NT2** steel-cr18ni12ti  
**NT2** steel-cr18ni8  
**NT3** stainless steel-18-8  
**NT2** steel-cr18ni9  
**NT3** stainless steel-302  
**NT2** steel-cr18ni9ti  
**NT2** steel-cr19ni10  
**NT3** stainless steel-304  
**NT2** steel-cr19ni10-l  
**NT3** stainless steel-304l  
**NT2** steel-cr20ni11  
**NT3** stainless steel-308  
**NT2** steel-cr20ni11-l  
**NT3** stainless steel-308l  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-cr23ni14  
**NT3** stainless steel-309  
**NT3** stainless steel-309s  
**NT2** steel-cr23ni18  
**NT2** steel-cr25ni20  
**NT3** alloy-hk-40  
**NT3** stainless steel-310  
**NT2** steel-ni25cr20  
**NT3** stainless steel-20-25  
**NT2** steel-ni26cr15ti2moyalb  
**NT3** alloy-a-286  
**NT1** carbon steels  
**NT2** steel-astm-a105  
**NT2** steel-astm-a106  
**NT2** steel-astm-a212  
**NT2** steel-astm-a285  
**NT2** steel-astm-a516  
**NT2** steel-astm-a533-b  
**NT2** steel-in-787  
**NT2** steel-sae-1045  
**NT1** croloy  
**NT2** steel-cr13  
**NT3** stainless steel-410  
**NT2** steel-cr16  
**NT3** stainless steel-430  
**NT2** steel-cr18ni10  
**NT3** stainless steel-18-10  
**NT2** steel-cr2mo  
**NT3** steel-astm-a542  
**NT2** steel-cr5mo  
**NT1** ferritic steels  
**NT2** steel-cr12moniv  
**NT2** steel-cr13al  
**NT3** stainless steel-405  
**NT2** steel-cr16  
**NT3** stainless steel-430  
**NT2** steel-cr25  
**NT3** stainless steel-446  
**NT2** steel-cr9mo  
**NT2** steel-cr9monbv  
**NT1** high alloy steels  
**NT2** stainless steels  
**NT3** chromium-nickel steels  
**NT4** alloy-d-9  
**NT4** carpenter  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr17ni12mo3  
**NT7** stainless steel-316  
**NT6** steel-cr17ni12mo3-1  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr17ni12monb  
**NT6** steel-cr17ni13mo3ti  
**NT6** steel-cr17ni13mo2ti  
**NT6** steel-cr17ni13mo3ti  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2moyalb  
**NT6** alloy-a-286  
**NT4** durco  
**NT4** endureo  
**NT4** stainless steel-17-7ph  
**NT4** stainless steel-303  
**NT4** stainless steel-329  
**NT4** stainless steel-ph-15-7-mo  
**NT4** steel-cr17ni13  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-l  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT4** steel-cr19ni10  
**NT5** stainless steel-304  
**NT4** steel-cr19ni10-l  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-l  
**NT5** stainless steel-308l  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni36cr12ti3al-l  
**NT4** timken alloys  
**NT3** chromium steels  
**NT4** chromium-molybdenum steels  
**NT5** chromium-nickel-molybdenum steels  
**NT6** alloy-m-813  
**NT6** steel-cr11ni10mo2ti-1  
**NT6** steel-cr15ni15motib  
**NT6** steel-cr16ni13monbv  
**NT6** steel-cr16ni15mo3nb  
**NT6** steel-cr16ni16monb  
**NT6** steel-cr16ni8mo2  
**NT7** stainless steel-16-8-2  
**NT6** steel-cr16ni9mo2  
**NT6** steel-cr17ni12mo3  
**NT7** stainless steel-316  
**NT6** steel-cr17ni12mo3-1  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr17ni12monb  
**NT6** steel-cr17ni13mo2ti  
**NT6** steel-cr17ni13mo3ti  
**NT6** steel-ni26cr15ti2moyalb  
**NT7** alloy-a-286  
**NT4** magnet steel-k  
**NT4** miduale  
**NT4** stainless steel-406  
**NT4** steel-cr10mo2  
**NT4** steel-cr12  
**NT5** stainless steel-403  
**NT4** steel-cr12moniv  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr13al  
**NT5** stainless steel-405  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr16ni  
**NT4** steel-cr17cu4ni4nb-1  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr17ni4mo3  
**NT4** steel-cr18  
**NT4** steel-cr25  
**NT5** stainless steel-446  
**NT4** steel-cr9mo  
**NT4** steel-cr9monbv  
**NT3** low carbon-high alloy steels  
**NT4** steel-cr11ni10mo2ti-1  
**NT4** steel-cr17cu4ni4nb-1  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17ni12mo3-1  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr18ni10-l  
**NT4** steel-cr19ni10-l  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11-l  
**NT5** stainless steel-308l  
**NT4** steel-ni36cr12ti3al-l  
**NT3** stainless steel-317  
**NT3** stainless steel-318  
**NT3** stainless steel-422  
**NT3** stainless steel-fv-548  
**NT3** stainless steel-jbk-75  
**NT3** stainless steel-m-50  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** sweetalloy  
**NT1** low alloy steels  
**NT2** steel-astm-a350  
**NT2** steel-astm-a387  
**NT2** steel-astm-a508  
**NT2** steel-astm-a533  
**NT2** steel-cr2mo  
**NT3** steel-astm-a542  
**NT2** steel-cr2moninb  
**NT2** steel-cr2mov  
**NT2** steel-cr2nimov  
**NT2** steel-cr5mo  
**NT2** steel-cralnimo  
**NT2** steel-crmo  
**NT2** steel-crmov  
**NT2** steel-crni  
**NT2** steel-mnccumo  
**NT3** steel-astm-a537  
**NT2** steel-mnmo  
**NT3** steel-astm-a302  
**NT2** steel-mnnimo  
**NT3** steel-astm-a533-b  
**NT2** steel-mnnimov  
**NT2** steel-ni3cr  
**NT2** steel-ni3crmo  
**NT3** steel-astm-a543  
**NT2** steel-ni3crmov  
**NT2** steel-ni4crw  
**NT2** steel-nicr  
**NT2** steel-nicrmo

**NT2** steel-nimocr  
**NT1** manganese steels  
**NT1** martensitic steels  
**NT2** maraging steels  
**NT2** steel-cr10mo2  
**NT2** steel-cr12  
**NT3** stainless steel-403  
**NT2** steel-cr12mov  
**NT3** alloy-ht-9  
**NT2** steel-cr13  
**NT3** stainless steel-410  
**NT2** steel-cr16ni  
**NT2** steel-cr17cu4ni4nb-1  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17mo  
**NT3** stainless steel-440  
**NT2** steel-cr18  
**NT1** nickel steels  
**NT2** sweetalloy  
**NT1** steel-astm-a572  
*RT* bainite  
*RT* cementite  
*RT* decarburization  
*RT* ferrite  
*RT* martensite  
*RT* pearlite

### steenstrupine

*INIS: 1997-01-28; ETDE: 1991-10-22*  
 (Until October 1996 this was a valid descriptor.)

USE phosphate minerals  
 USE silicate minerals  
 USE thorium minerals  
 USE uranium minerals

### STEK REACTOR

*UF krito critical assembly*  
*UF petten stek reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

### STELLAR ACTIVITY

1984-12-04

**NT1** solar activity  
**NT2** faculae  
**NT2** plages  
**NT2** solar flares  
**NT2** solar granulation  
**NT2** solar prominences  
**NT2** solar radio bursts  
**NT2** solar wind  
**NT2** solar x-ray bursts  
**NT2** sunspots  
**NT1** starspots  
**NT2** sunspots  
**NT1** stellar flares  
**NT2** solar flares  
**NT1** stellar winds  
**NT2** solar wind  
*RT* cosmic radiation  
*RT* stars  
*RT* stellar radiation

### STELLAR ATMOSPHERES

*For the Sun use SOLAR ATMOSPHERE or one of its NTs.*

**BT1** atmospheres  
**NT1** solar atmosphere  
**NT2** chromosphere  
**NT2** heliosphere  
**NT2** photosphere  
**NT2** solar corona  
**NT1** stellar chromospheres  
**NT1** stellar coronae  
**NT2** solar corona  
**NT1** stellar magnetospheres  
*RT* stars  
*RT* starspots

### stellar burning

*INIS: 1978-08-30; ETDE: 1978-10-19*  
 USE star burning

### STELLAR CHROMOSPHERES

*INIS: 1984-11-30; ETDE: 1984-12-27*  
 \*BT1 stellar atmospheres

### STELLAR CORONAE

*INIS: 1984-02-22; ETDE: 1984-03-06*  
*For the Sun use SOLAR CORONA.*  
*UF coroneae (stellar)*  
 \*BT1 stellar atmospheres  
**NT1** solar corona

### STELLAR FLARES

*For the Sun use SOLAR FLARES.*  
**BT1** stellar activity  
**NT1** solar flares  
*RT* stars  
*RT* starspots  
*RT* stellar winds

### STELLAR MAGNETOSPHERES

*UF magnetospheres (stellar)*  
 \*BT1 stellar atmospheres  
*RT* magnetic stars

### STELLAR RADIATION

*INIS: 1976-02-11; ETDE: 1975-07-29*  
**BT1** radiations  
**NT1** solar radiation  
**NT2** diffuse solar radiation  
**NT2** direct solar radiation  
**NT2** solar particles  
**NT3** solar alpha particles  
**NT3** solar electrons  
**NT3** solar neutrinos  
**NT3** solar neutrons  
**NT3** solar protons  
**NT2** solar radiowave radiation  
*RT* cosmic radiation  
*RT* stellar activity

### stellar spots

*INIS: 1984-02-22; ETDE: 1984-03-06*  
 USE starspots

### STELLAR WINDS

*For the Sun use SOLAR WIND.*  
*SF mass loss*  
**BT1** stellar activity  
**NT1** solar wind  
*RT* stars  
*RT* stellar flares

### STELLARATOR MODEL C

\*BT1 stellarators

### STELLARATOR TYPE REACTORS

*INIS: 1995-01-16; ETDE: 1976-09-15*  
**BT1** thermonuclear reactors  
*RT* stellarators

### STELLARATORS

1996-07-18  
 (CLASP DEVICE, PULSATOR  
 STELLARATOR, TOR DEVICES, and W  
 STELLARATORS have been valid ETDE  
 descriptors.)  
*UF clasp device*  
*UF pulsator stellarator*  
*UF tor devices*  
 \*BT1 closed plasma devices  
**NT1** cleo stellarator  
**NT1** heliac stellarators  
**NT2** h-1 heliac  
**NT2** hsx stellarator  
**NT2** sheila heliac  
**NT2** tj-ii heliac  
**NT1** heliotron-e stellarator  
**NT1** ims stellarator

**NT1** jipp stellarator  
**NT1** jippt-2 device  
**NT1** l-2 stellarator  
**NT1** proto-cleo stellarators  
**NT1** sirius device  
**NT1** stellarator model c  
**NT1** torsatron stellarators  
**NT2** atf torsatron  
**NT2** chs torsatron  
**NT2** tj-ii torsatron  
**NT2** vint torsatron  
**NT1** uragan stellarator  
**NT1** wega stellarator  
**NT1** wendelstein-2b stellarator  
**NT1** wendelstein-7 stellarator  
*RT* banana regime  
*RT* divertors  
*RT* kruskal limit  
*RT* magnetic surfaces  
*RT* marfe  
*RT* mode rational surfaces  
*RT* pfirsch-schlueter regime  
*RT* plasma radial profiles  
*RT* sawtooth oscillations  
*RT* stellarator type reactors

### STELLITE

1996-11-13

*UF alloy-co62cr28mo6ni3*  
*UF alloy-co64cr29w4*  
*UF alloy-co66cr26w6*  
*UF alloy-hs-21*  
*UF haynes stellite no 21*  
*UF stellite 156*  
 \*BT1 cobalt base alloys  
**NT1** alloy-co54cr20w15ni10  
**NT2** alloy-hs-25  
**NT2** haynes 25 alloy  
**NT1** alloy-co60cr30w4  
**NT2** stellite 6  
**NT1** alloy-hs-31

### stellite 156

*INIS: 1996-07-17; ETDE: 1978-10-30*  
 (Until July 1996 this was a valid descriptor.)  
 USE chromium alloys  
 USE stellite  
 USE tungsten alloys

### STELLITE 6

*INIS: 1993-10-03; ETDE: 1978-10-30*  
*UF alloy-hs-6*  
*UF stooody*  
 \*BT1 alloy-co60cr30w4

### stellite 6 (deloro)

*INIS: 1996-11-13; ETDE: 1984-07-10*  
 USE deloro stellite 6

### stem (plant)

USE plant stems

### STEM CELLS

\*BT1 somatic cells  
*RT* blood formation  
*RT* bone marrow  
*RT* colony forming units  
*RT* spermatogenesis

### STEMMING MATERIALS

*INIS: 2000-04-12; ETDE: 1979-08-08*  
**BT1** materials  
*RT* boreholes  
*RT* grouting

### STENDAL-1 REACTOR

*INIS: 1986-08-19; ETDE: 1986-09-05*  
*Stendal, Federal Republic of Germany.*  
 \*BT1 wwer type reactors

**stepanov method**

INIS: 2000-04-12; ETDE: 1980-02-11

SEE inverted stepanov method

**stepper motors**

2006-07-03

Electric motors which turn through a certain angle, e.g. 90 deg, when a pulsed signal is applied.

SEE electric motors

**STEREOCHEMISTRY**

RT enantiomorphs  
RT isomers  
RT ligands  
RT molecular structure  
RT optical activity  
RT racemates  
RT racemization

**STERILE INSECT RELEASE**

RT agriculture  
RT insect dispersal  
RT pest control  
RT radiosterilization  
RT sterile male technique  
RT sterility  
RT sterilization

**STERILE MALE TECHNIQUE**

RT agriculture  
RT insect dispersal  
RT insects  
RT mass rearing  
RT parasites  
RT pest control  
RT radiosterilization  
RT sterile insect release  
RT sterilization

**STERILE NEUTRINOS**

2016-12-12

hypothetical neutrinos interacting only through gravity.

UF inert neutrinos

\*BT1 neutrinos  
\*BT1 postulated particles

**STERILITY**

RT fertility  
RT genetic control  
RT reproductive disorders  
RT sterile insect release

**STERILIZATION**

UF disinfection  
NT1 radiosterilization  
NT2 radappertization  
RT bacterial spores  
RT chemosterilants  
RT disinfestation  
RT food  
RT germicides  
RT grain disinfestation  
RT inactivation  
RT pasteurization  
RT preservation  
RT sterile insect release  
RT sterile male technique

**STERLING-1 REACTOR**

Rochester Gas and Electric Corp., Oswego, New York, USA. Canceled in 1980 before construction began.

\*BT1 pwr type reactors

**STERLING-2 REACTOR**

2000-04-12

Rochester Gas and Electric Corp., Oswego, New York, USA. Canceled in 1980 before construction began.

\*BT1 pwr type reactors

**STERLING EVENT**

BT1 vela project

**STERN-GERLACH EXPERIMENT**

RT beams  
RT measuring methods  
RT spin orientation

**STERNHEIMER FORMULA**

RT multipoles

**STEROID HORMONES**

BT1 hormones  
NT1 androgens  
NT2 androstenedione  
NT2 androsterone  
NT2 hydroxyandrosterone  
NT2 testosterone  
NT1 corticosteroids  
NT2 glucocorticoids  
NT3 corticosterone  
NT3 cortisone  
NT3 dexamethasone  
NT3 hydrocortisone  
NT3 prednisolone  
NT3 prednisone  
NT2 mineralocorticoids  
NT3 aldosterone  
NT1 estrogens  
NT2 estradiol  
NT3 fluoroestradiol  
NT2 estriol  
NT2 estrone  
NT1 progesterone  
RT adrenal hormones

**STEROIDS**

BT1 organic compounds  
NT1 androstanes  
NT2 androgens  
NT3 androstenedione  
NT3 androsterone  
NT3 hydroxyandrosterone  
NT3 testosterone  
NT1 estranes  
NT2 estradiol  
NT3 fluoroestradiol  
NT2 estriol  
NT2 estrone  
NT1 pregnanes  
NT2 corticosteroids  
NT3 glucocorticoids  
NT4 corticosterone  
NT4 cortisone  
NT4 dexamethasone  
NT4 hydrocortisone  
NT4 prednisolone  
NT4 prednisone  
NT3 mineralocorticoids  
NT4 aldosterone  
NT2 hydroxypregnenone  
NT2 progesterone  
NT1 sterols  
NT2 bile acids  
NT3 cholic acid  
NT2 cholesterol  
NT2 ergosterol  
NT2 sitosterol  
RT cardiotonics  
RT hormones  
RT urinary ketosteroids

**STEROLS**

1996-10-23

UF lanolin  
UF wool fat  
\*BT1 hydroxy compounds  
\*BT1 steroids  
NT1 bile acids  
NT2 cholic acid  
NT1 cholesterol  
NT1 ergosterol  
NT1 sitosterol

**stes**

INIS: 2000-04-12; ETDE: 1982-05-24

USE seasonal thermal energy storage

**STF REACTOR**

INIS: 1977-06-13; ETDE: 1976-11-17

ANL, Argonne, Illinois, USA.

UF safety test facility reactor

\*BT1 air cooled reactors  
\*BT1 fast reactors  
\*BT1 research reactors  
\*BT1 test reactors

**STH**

UF growth hormone  
UF somatotrophic hormone  
\*BT1 pituitary hormones  
RT acromegaly  
RT anabolism  
RT growth  
RT hpl  
RT somatostatin

**stiffness**

INIS: 1984-04-04; ETDE: 2002-06-13

USE flexibility

**stilbamidine**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE amidines

**STILBENE**

UF 1,2-diphenylethylene  
\*BT1 aromatics  
RT organic crystal phosphors  
RT stilbestrol

**STILBESTROL**

\*BT1 polyphenols  
RT estrogens  
RT stilbene

**still gas**

INIS: 2000-04-12; ETDE: 1979-12-10

USE refinery gases

**STILLAGE**

INIS: 2000-04-12; ETDE: 1980-11-25

The mash from an alcoholic fermentation after removal of the alcohol in a still.

\*BT1 organic wastes  
RT distillation  
RT distillers dried grains  
RT fermentation  
RT waste product utilization

**stilton-hushed echo event**

INIS: 2000-04-12; ETDE: 1975-09-11

USE bedrock project

**stimulants (central nervous system)**

INIS: 1993-11-09; ETDE: 1981-04-20

USE analeptics

**STIMULATED EMISSION**

1999-10-14

BT1 emission  
BT1 energy-level transitions  
NT1 superradiance

RT einstein coefficients  
 RT electrical pumping  
 RT electron beam pumping  
 RT gasers  
 RT lasers  
 RT masers  
 RT nuclear pumping  
 RT optical pumping

**stimulated emission devices**

INIS: 2000-01-06; ETDE: 1981-08-21

SEE gasers  
 SEE lasers  
 SEE masers

**STIMULATION**

1999-04-16

UF growth stimulation  
 NT1 well stimulation  
 NT2 explosive stimulation  
 RT hormones  
 RT metabolic activation  
 RT mitogens  
 RT stimuli

**stimulation (explosive)**

INIS: 1975-08-22; ETDE: 2002-06-13

USE explosive stimulation

**STIMULI**

RT bioelectricity  
 RT stimulation

**STIR REACTOR**

Atomics International Div., Rockwell International, Santa Susana, California, USA. Shut down in 1972.

UF shield test reactor  
 UF str reactor (shield test)  
 \*BT1 enriched uranium reactors  
 \*BT1 hydride moderated reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**STIRLING CYCLE**

BT1 thermodynamic cycles  
 RT stirling engines  
 RT thermodynamics

**STIRLING ENGINES**

Engines that operate on the stirling thermodynamic cycle.

\*BT1 heat engines  
 RT aaps  
 RT regeneration  
 RT regenerators  
 RT solar heat engines  
 RT stirling cycle

**STIRRING**

RT mixing  
 RT turbulence

**STISHOVITE**

INIS: 2000-04-12; ETDE: 1977-10-20  
 A mineral consisting essentially of silicon dioxide.

\*BT1 oxide minerals  
 RT silicon oxides

**stm**

INIS: 2000-04-12; ETDE: 1999-09-09  
 USE scanning tunneling microscopy

**STOCHASTIC COOLING**

INIS: 1981-08-31; ETDE: 1979-10-23  
 Gradual reduction of emittance of coasting charged-particle beams by feedback sensing and correcting statistical fluctuations of beam position or momentum.

BT1 beam cooling  
 NT1 momentum cooling

**stochastic momentum cooling**

INIS: 1982-04-13; ETDE: 1982-05-07

USE momentum cooling

**STOCHASTIC PROCESSES**

NT1 markov process  
 RT chaos theory  
 RT chapman-kolmogorov equation  
 RT gaussian processes  
 RT monte carlo method  
 RT statistics

**STOCKBARGER METHOD**

BT1 crystal growth methods  
 RT crystal growth

**stockholm r-1 reactor**

USE r-1 reactor

**STOCKPILES**

1999-07-12

(Until July 1999 this information was indexed by INVENTORIES.)

RT reserves

**stocks**

INIS: 2000-04-12; ETDE: 1979-05-02

USE inventories

**STOERMER THEORY**

RT charged particles  
 RT magnetic fields

**STOICHIOMETRY**

1986-05-26

(Prior to June 1986 CHEMICAL COMPOSITION was used for this concept.)

RT chemical composition  
 RT chemical reactions  
 RT chemistry

**STOKERS**

INIS: 1992-03-16; ETDE: 1976-09-14

Mechanical devices used in boilers or furnaces for feeding coal, removing refuse, controlling air supply, and mixing with combustibles for efficient combustion.

\*BT1 fuel feeding systems  
 RT boilers  
 RT burners  
 RT coal  
 RT furnaces

**STOKES LAW**

RT viscous flow

**STOKES NUMBER**

2013-07-19

BT1 dimensionless numbers  
 BT1 fluid flow  
 RT drag  
 RT flow rate  
 RT particles

**STOKES PARAMETERS**

RT polarization

**STOMACH**

UF rumen  
 \*BT1 gastrointestinal tract  
 \*BT1 organs  
 RT gastrectomy  
 RT gastric acid  
 RT gastrin  
 RT intrinsic factor  
 RT pepsin  
 RT vomiting

**STOMATA**

INIS: 1992-09-04; ETDE: 1976-01-07

BT1 openings  
 RT plants  
 RT transpiration

**stone and webster coal solution gasification process**

INIS: 2000-04-12; ETDE: 1976-08-24

USE coal gasification

**stone and webster gasification process**

INIS: 2000-04-12; ETDE: 1976-08-04

Process for production of low-sulfur fuels from coal by stepwise addition of hydrogen to coal. Enough hydrogen is added in the first step to convert coal to liquids, which are then hydrogasified to methane, ethane, and aromatic liquid products.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**STONE AND WEBSTER IONIC PROCESS**

2000-04-12

Desulfurization process using aqueous caustic soda solution to absorb sulfur dioxide; solution is regenerated in electrolytic cells.

\*BT1 desulfurization

**STONE METEORITES**

BT1 meteorites  
 NT1 achondrites  
 NT1 chondrites  
 RT rocks

**stone-webster reference pwr**

INIS: 1984-06-21; ETDE: 2002-06-13

USE swessar standard plant

**stoody**

INIS: 2000-04-12; ETDE: 1978-12-20

USE stellite 6

**stopping (particle absorption)**

USE absorption

**STOPPING POWER**

Includes the concepts of total atomic, total linear, and total mass stopping power.

RT absorption  
 RT atomic number  
 RT density  
 RT energy losses  
 RT range  
 RT straggling

**stoppings (ventilation barriers)**

1996-04-18

USE ventilation barriers

**STOR-M TOKAMAK**

INIS: 1999-07-26; ETDE: 1999-09-03

Saskatchewan Torus-Modified.

\*BT1 tokamak devices

**STORAGE**

1996-04-16

NT1 dry storage  
 NT1 energy storage  
 NT2 cold storage  
 NT2 compressed air energy storage  
 NT2 flywheel energy storage  
 NT2 heat storage  
 NT3 latent heat storage  
 NT3 seasonal thermal energy storage  
 NT3 sensible heat storage  
 NT3 thermochemical heat storage  
 NT2 magnetic energy storage  
 NT3 superconducting magnetic energy storage  
 NT2 off-peak energy storage  
 NT2 photochemical energy storage  
 NT2 pumped storage  
 NT1 hydrogen storage

**NT1** spent fuel storage  
**NT2** away-from-reactor storage  
**NT2** monitored retrievable storage  
**NT1** underground storage  
**NT1** waste storage  
**NT2** radioactive waste storage  
**NT3** monitored retrievable storage  
**NT1** wet storage  
*RT* inventories  
*RT* storage facilities  
*RT* stowage  
*RT* transport  
*RT* water reservoirs

**storage (spent fuel)**

2000-04-12

USE spent fuel storage

**storage (wastes)**

2000-04-12

USE waste storage

**storage batteries**

INIS: 2000-04-12; ETDE: 1976-05-13

USE electric batteries

**storage batteries (lead-acid)**

INIS: 1992-05-04; ETDE: 1976-05-13

USE lead-acid batteries

**storage devices (data)**

USE memory devices

**STORAGE FACILITIES**

INIS: 1984-01-18; ETDE: 1977-01-28

*UF* facilities (storage)  
*UF* tank farms  
*RT* energy facilities  
*RT* floating roof tanks  
*RT* inventories  
*RT* maintenance facilities  
*RT* natural gas  
*RT* nuclear facilities  
*RT* radioactive waste facilities  
*RT* spent fuel storage  
*RT* spent fuels  
*RT* storage  
*RT* terminal facilities  
*RT* wastes

**STORAGE LIFE**

*UF* market life  
*RT* food processing  
*RT* lifetime  
*RT* radiopreservation  
*RT* sprout inhibition

**storage pools (fuel)**

INIS: 1985-01-17; ETDE: 2002-06-13

USE fuel storage pools

**STORAGE RINGS**

1996-07-08

(Prior to August 1996 PRECETRON STORAGE RING was a valid ETDE descriptor.)

*UF* precetron storage ring  
*UF* rings (storage)  
**NT1** adone  
**NT1** advanced light source  
**NT1** advanced photon source  
**NT1** astrid storage ring  
**NT1** beijing electron-positron collider  
**NT1** bessy storage ring  
**NT1** brookhaven rhic  
**NT1** celsius storage ring  
**NT1** cern cesar  
**NT1** cern isr  
**NT1** cern lhc  
**NT1** cesr storage ring  
**NT1** cosy storage ring

**NT1** dci orsay storage ring  
**NT1** doris storage ring  
**NT1** elsa stretcher ring  
**NT1** escar storage ring  
**NT1** esr storage ring  
**NT1** euterpe storage ring  
**NT1** fair accelerator complex  
**NT1** hera storage ring  
**NT1** indus-1  
**NT1** indus-2  
**NT1** isabelle storage rings  
**NT1** jefferson lab meic  
**NT1** lep storage rings  
**NT1** lns storage ring  
**NT1** nap-m storage ring  
**NT1** orsay storage rings  
**NT1** pampus storage ring  
**NT1** pep storage rings  
**NT2** epic storage ring  
**NT1** petra storage ring  
**NT1** popae storage ring  
**NT1** serpukhov tevatron  
**NT1** sesame storage ring  
**NT1** spear  
**NT1** spring-8 storage ring  
**NT1** superconducting super collider  
**NT1** surf ii storage ring  
**NT1** tristan storage rings  
**NT1** tsr storage ring  
**NT1** vep-1  
**NT1** vepp-2  
**NT1** vepp-3  
**NT1** vepp-4  
*RT* accelerators  
*RT* linac-ring accelerators  
*RT* synchrotron radiation sources

**storage tubes**

USE electron tubes  
 USE image storage tubes

**STORED ENERGY**

**BT1** energy  
 \***BT1** thermodynamic properties  
*RT* tank circuits

**stores**

INIS: 2000-04-12; ETDE: 1981-01-09

USE commercial buildings

**STORM DOORS**

INIS: 2000-04-12; ETDE: 1977-06-21

\***BT1** doors  
*RT* thermal insulation  
*RT* weatherization

**STORM WINDOWS**

INIS: 2000-04-12; ETDE: 1977-06-21

\***BT1** windows  
*RT* thermal insulation  
*RT* weatherization

**STORMS**

INIS: 1992-03-31; ETDE: 1975-11-26

**NT1** hurricanes  
**NT1** monsoons  
**NT1** tornadoes  
*RT* atmospheric precipitations  
*RT* cloud cover  
*RT* clouds  
*RT* cyclones  
*RT* lightning  
*RT* meteorology  
*RT* natural disasters  
*RT* rain  
*RT* runoff  
*RT* snow  
*RT* water waves  
*RT* wave forces  
*RT* weather  
*RT* wind loads

**stover**

INIS: 1991-12-11; ETDE: 1979-04-11

(This concept in ETDE should be indexed by the coordination of the descriptor AGRICULTURAL WASTES with a descriptor indicating the field crop.)  
 USE agricultural wastes

**STOVES**

INIS: 1993-02-15; ETDE: 1976-08-04

*UF* stoves (coal burning)  
*UF* stoves (electric)  
*UF* stoves (gas burning)  
*UF* stoves (wood burning)  
*UF* wood stoves  
 \***BT1** appliances  
*RT* coal burning appliances  
*RT* ovens  
*RT* wood burning appliances

**stoves (coal burning)**

INIS: 1993-02-15; ETDE: 2001-03-07

USE coal burning appliances  
 USE stoves

**stoves (electric)**

INIS: 1993-02-15; ETDE: 2001-03-07

USE electric appliances  
 USE stoves

**stoves (gas burning)**

INIS: 1993-02-15; ETDE: 2001-03-07

USE gas appliances  
 USE stoves

**stoves (wood burning)**

INIS: 1993-02-15; ETDE: 2001-03-07

USE stoves  
 USE wood burning appliances

**STOWAGE**

INIS: 2000-04-12; ETDE: 1979-12-17

Positioning for safekeeping, e.g., heliostat inversion during hailstorms.

*RT* positioning  
*RT* storage

**STOWING**

INIS: 2000-04-12; ETDE: 1979-06-06

*UF* packing  
*RT* backfilling  
*RT* strata control  
*RT* underground mining

**STP-3M DEVICE**

INIS: 1993-03-10; ETDE: 1993-04-16

Nagoya University, Japan.

\***BT1** toroidal screw pinch devices**str reactor (shield test)**

USE stir reactor

**str reactor (split table)**

USE split table reactor

**STRAGGLING**

2008-10-20

Variation in the range of a particle traversing matter due to random collisions along its path. Coordinate with descriptor for the particle involved.

*RT* charged-particle transport theory  
*RT* energy losses  
*RT* range  
*RT* slowing-down  
*RT* stopping power

**STRAHLENSCHUTZKOMMISSION**

INIS: 1978-11-24; ETDE: 1980-07-23

\***BT1** german fr organizations  
*RT* radiation protection



**STRAIGHT-LINE PATH APPROXIMATION**

INIS: 1975-09-16; ETDE: 1975-10-01

Assumes that transverse-momentum transfer is small in high-energy particle interactions.

- \*BT1 approximations
- RT eikonal approximation
- RT linear momentum transfer
- RT particle interactions
- RT transverse momentum

**STRAIN AGING**

- BT1 aging
- RT cold working

**STRAIN GAGES**

(From September 1976 till March 1997 TENSIOMETERS was a valid ETDE descriptor.)

- UF gages (strain)
- SF tensiometers
- BT1 measuring instruments
- RT extensometers
- RT mechanical tests
- RT strains

**STRAIN HARDENING**

- UF shock wave hardening
- UF shock-wave hardening
- UF work hardening
- BT1 hardening
- RT cold working
- RT strains

**STRAIN RATE**

INIS: 1986-05-23; ETDE: 1976-01-07

- RT static loads
- RT strains
- RT tensile properties

**STRAIN SOFTENING**

1977-07-05

A softening of a metal exhibited during deformation. It can occur at either high or low temperatures, depending upon the metal.

- UF work softening
- RT strains

**STRAINS**

- RT deformation
- RT elasticity
- RT poisson ratio
- RT ratcheting
- RT strain gages
- RT strain hardening
- RT strain rate
- RT strain softening
- RT stresses
- RT tensile properties

**strait event**

INIS: 2000-04-12; ETDE: 1977-06-21

- USE anvil project

**STRAIT OF HORMUZ**

INIS: 1992-06-04; ETDE: 1980-10-27

- \*BT1 persian gulf

**STRAND BREAKS**

1998-02-16

- BT1 dna damages
- RT biological radiation effects
- RT chemical radiation effects
- RT decomposition
- RT dna
- RT dna repair
- RT molecular biology
- RT pyrimidine dimers
- RT radiation effects
- RT radiation injuries
- RT rna

**strange baryons**

INIS: 1987-12-21; ETDE: 1988-03-16

- USE hyperons

**STRANGE MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02

- UF k-1240 resonances
- UF k-1871 resonances
- UF k\*resonances
- UF l-1770 resonances
- \*BT1 mesons
- \*BT1 strange particles
- NT1 b s mesons
- NT1 d s-2536 mesons
- NT1 d s mesons
- NT1 d\*s-2110 mesons
- NT1 k-1460 mesons
- NT1 k-1830 mesons
- NT1 k\*-1410 mesons
- NT1 k\*-1680 mesons
- NT1 k\*-892 mesons
- NT1 k\*0-1430 mesons
- NT1 k\*2-1430 mesons
- NT1 k\*3-1780 mesons
- NT1 k\*4-2045 mesons
- NT1 k1-1270 mesons
- NT1 k1-1400 mesons
- NT1 k2-1770 mesons
- NT1 k2-1820 mesons
- NT1 kaons
- NT2 antikaons
- NT3 antikaons neutral
- NT2 cosmic kaons
- NT2 kaons minus
- NT2 kaons neutral
- NT3 antikaons neutral
- NT3 kaons neutral long-lived
- NT3 kaons neutral short-lived
- NT2 kaons plus

**STRANGE PARTICLES**

1995-10-04

- BT1 elementary particles
- NT1 hyperons
- NT2 antihyperons
- NT3 antilambda particles
- NT3 antiomega particles
- NT3 antisigma particles
- NT3 antixi particles
- NT2 lambda baryons
- NT3 lambda-1405 baryons
- NT3 lambda-1520 baryons
- NT3 lambda-1600 baryons
- NT3 lambda-1670 baryons
- NT3 lambda-1690 baryons
- NT3 lambda-1800 baryons
- NT3 lambda-1810 baryons
- NT3 lambda-1820 baryons
- NT3 lambda-1830 baryons
- NT3 lambda-1890 baryons
- NT3 lambda-2100 baryons
- NT3 lambda-2110 baryons
- NT3 lambda particles
- NT4 antilambda particles
- NT2 lambda-n-2130 dibaryons
- NT2 omega baryons
- NT3 omega-2250 baryons
- NT3 omega particles
- NT4 antiomega particles
- NT4 omega minus particles
- NT2 sigma baryons
- NT3 sigma-1385 baryons
- NT3 sigma-1660 baryons
- NT3 sigma-1670 baryons
- NT3 sigma-1750 baryons
- NT3 sigma-1770 baryons
- NT3 sigma-1775 baryons
- NT3 sigma-1915 baryons
- NT3 sigma-1940 baryons

- NT3 sigma-2030 baryons
- NT3 sigma-2455 baryons
- NT3 sigma particles
- NT4 antisigma particles
- NT4 sigma minus particles
- NT4 sigma neutral particles
- NT4 sigma plus particles
- NT2 xi baryons
- NT3 xi-1530 baryons
- NT3 xi-1690 baryons
- NT3 xi-1820 baryons
- NT3 xi-1950 baryons
- NT3 xi-2030 baryons
- NT3 xi-2250 baryons
- NT3 xi-2500 baryons
- NT3 xi particles
- NT4 antixi particles
- NT4 xi minus particles
- NT4 xi neutral particles
- NT2 z\*baryons
- NT1 s quarks
- NT2 s antiquarks
- NT1 spurions
- NT1 strange mesons
- NT2 b s mesons
- NT2 d s-2536 mesons
- NT2 d s mesons
- NT2 d\*s-2110 mesons
- NT2 k-1460 mesons
- NT2 k-1830 mesons
- NT2 k\*-1410 mesons
- NT2 k\*-1680 mesons
- NT2 k\*-892 mesons
- NT2 k\*0-1430 mesons
- NT2 k\*2-1430 mesons
- NT2 k\*3-1780 mesons
- NT2 k\*4-2045 mesons
- NT2 k1-1270 mesons
- NT2 k1-1400 mesons
- NT2 k2-1770 mesons
- NT2 k2-1820 mesons
- NT2 kaons
- NT3 antikaons
- NT4 antikaons neutral
- NT3 cosmic kaons
- NT3 kaons minus
- NT3 kaons neutral
- NT4 antikaons neutral
- NT4 kaons neutral long-lived
- NT4 kaons neutral short-lived
- NT3 kaons plus
- RT strangeness
- RT strangeonium

**STRANGENESS**

- BT1 particle properties
- RT gauge invariance
- RT gell-mann theory
- RT strange particles
- RT strangeness analog resonances

**STRANGENESS ANALOG RESONANCES**

- UF analog resonances (strangeness)
- RT energy levels
- RT nuclear reactions
- RT strangeness

**STRANGENESS-EXCHANGE REACTIONS**

- INIS: 1981-11-27; ETDE: 1979-04-12
- Nuclear reactions in which strangeness of reactants is altered.
- BT1 nuclear reactions

**STRANGEONIUM**

INIS: 1995-10-04; ETDE: 1988-02-01

A bound state of strange and anti strange quarks.

- \*BT1 mesons

BT1 quarkonium  
 NT1 f2 prime-1525 mesons  
 RT s quarks  
 RT strange particles

### STRASBOURG-CRONENBOURG REACTOR

*Univ. of Strasbourg Reactor Dept.,  
 Strasbourg, France. Decommissioned since  
 2010.*

\*BT1 argonaut type reactors  
 \*BT1 training reactors

### STRATA CONTROL

*INIS: 1993-02-16; ETDE: 1978-05-03  
 Measures taken to control movement of  
 geologic strata.*

UF ground control  
 RT caving  
 RT rock mechanics  
 RT roof bolts  
 RT slope stability  
 RT stowing  
 RT strata movement

### STRATA MOVEMENT

*INIS: 1992-08-28; ETDE: 1978-05-03*

RT caving  
 RT geologic strata  
 RT ground motion  
 RT ground uplift  
 RT rock falls  
 RT rock mechanics  
 RT strata control  
 RT underground mining

### strategic defense initiative

*INIS: 1994-09-22; ETDE: 1984-11-29  
 USE ballistic missile defense*

### STRATEGIC PETROLEUM RESERVE

*INIS: 1999-10-08; ETDE: 1977-10-20*

\*BT1 reserves  
 RT energy supplies  
 RT petroleum  
 RT underground storage

### STRATEGIC POINTS

*Points in the fuel cycle at which measurement  
 of the flow of nuclear material would be useful  
 for safeguards purposes.*

RT material balance area  
 RT safeguards

### STRATIFICATION

RT geologic strata  
 RT layers  
 RT stratified charge engines

### STRATIFIED CHARGE ENGINES

*2000-04-12*

\*BT1 internal combustion engines  
 RT automobiles  
 RT combustion  
 RT fuel injection systems  
 RT stratification

### STRATIGRAPHY

*That branch of geology which treats of the  
 formation, composition, sequence, and  
 correlation of the stratified rocks as parts of  
 the earth's crust.*

BT1 geology  
 RT geologic strata  
 RT geologic structures  
 RT geomorphology  
 RT layers  
 RT palynology  
 RT site characterization

### STRATOSPHERE

UF high altitude (stratosphere)  
 BT1 earth atmosphere  
 RT global fallout  
 RT magnetic rigidity  
 RT ozone layer  
 RT supersonic transport  
 RT tropopause

### STRAW

*INIS: 1991-12-11; ETDE: 1978-12-11*  
 RT agricultural wastes  
 RT plant stems

### STRAWBERRIES

\*BT1 berries  
 \*BT1 rosaceae

### STRAY RADIATION

BT1 radiations  
 RT scattering  
 RT shielding

### STREAK CAMERAS

*INIS: 1986-10-29; ETDE: 1984-09-21*  
*Cameras which produce two-dimensional  
 images where time is one coordinate.*

BT1 cameras  
 RT radiation detectors  
 RT streak photography

### STREAK PHOTOGRAPHY

BT1 photography  
 RT streak cameras

### STREAMER SPARK CHAMBERS

\*BT1 spark chambers

### streaming (radiation)

USE radiation streaming

### STREAMS

*INIS: 1999-03-15; ETDE: 1976-04-19*  
 (Until March 1999 this concept was indexed  
 in INIS by RIVERS.)

UF brooks  
 UF creeks  
 \*BT1 rivers  
 RT water currents  
 RT watersheds

### streets

*1992-03-05*  
 USE roads

### strelkinite

*INIS: 2000-04-12; ETDE: 1975-12-16*  
 (Prior to August 1996 this was a valid ETDE  
 descriptor.)

USE oxide minerals  
 USE uranium minerals

### strength (compression)

USE compression strength

### strength (flexural)

USE flexural strength

### strength (fracture)

USE fracture properties

### strength (impact)

USE impact strength

### strength (shear)

USE shear properties

### strength (tensile)

USE tensile properties

### strength (ultimate)

*1980-05-14*  
 USE ultimate strength

### strength (yield)

USE yield strength

### STRENGTH FUNCTIONS

BT1 functions  
 RT energy levels  
 RT oscillator strengths

### streptidine kinase

*INIS: 2000-04-12; ETDE: 1981-04-20*  
 (Prior to March 1997 this was a valid ETDE  
 descriptor.)  
 USE fibrinolytic agents  
 USE phosphotransferases

### STREPTOCOCCAL PROTEINASE

*INIS: 1984-01-18; ETDE: 1981-01-12*  
*Code number 3.4.22.10.*

UF streptokinase  
 \*BT1 sh-proteinases  
 RT fibrinolysis  
 RT streptococcus  
 RT thrombosis

### STREPTOCOCCUS

\*BT1 bacteria  
 RT streptococcal proteinase

### streptokinase

*1984-01-18*  
 (Prior to January 1984 this was a valid  
 descriptor, and older material is so indexed.)  
 USE streptococcal proteinase

### STREPTOMYCES

\*BT1 bacteria  
 RT streptomycin

### STREPTOMYCIN

\*BT1 antibiotics  
 RT streptomycetes  
 RT tuberculosis

### STREPTOZOCIN

*INIS: 2000-03-29; ETDE: 1981-04-20*  
 UF streptozotocin  
 UF streptozotocin 7  
 \*BT1 antibiotics  
 \*BT1 antineoplastic drugs

### streptozotocin

*2000-03-29*  
 ANTIBIOTICS, ANTINEOPLASTIC DRUGS.  
 (Prior to March 2000, this concept was  
 indexed by SACCHARIDES and NITROSO  
 COMPOUNDS in combination with a  
 descriptor for the application, e.g.)  
 USE streptozocin

### streptozotocin 7

*2000-04-12*  
 (Prior to April 1981, this concept in ETDE  
 was indexed by ANTIBIOTICS, NITROSO  
 COMPOUNDS, and SACCHARIDES.)  
 USE streptozocin

### stress (biological)

USE biological stress

### STRESS ANALYSIS

RT homalite  
 RT photoelasticity  
 RT stress intensity factors  
 RT stresses

### stress concentration factors

*INIS: 1978-08-14; ETDE: 2002-06-13*  
 USE stress intensity factors

### STRESS CORROSION

\*BT1 corrosion

**STRESS INTENSITY FACTORS**

INIS: 1978-08-14; ETDE: 1978-10-19

UF stress concentration factors  
 RT crack propagation  
 RT cracks  
 RT defects  
 RT fracture mechanics  
 RT fracture properties  
 RT fractures  
 RT mechanical tests  
 RT stress analysis

**STRESS RELAXATION**

UF relaxation (stress)  
 UF relieving (stress)  
 UF stress relieving  
 BT1 relaxation  
 RT annealing  
 RT creep  
 RT heat treatments  
 RT stresses

**stress relieving**

USE stress relaxation

**STRESSES**

For mechanical stress only; see also

**BIOLOGICAL STRESS.**

UF loads (stresses)  
 NT1 flow stress  
 NT1 residual stresses  
 NT1 thermal stresses  
 RT dilatancy  
 RT dynamic loads  
 RT materials testing  
 RT mechanical properties  
 RT mechanical tests  
 RT pore pressure  
 RT ratcheting  
 RT s-n diagram  
 RT shear  
 RT static loads  
 RT strains  
 RT stress analysis  
 RT stress relaxation  
 RT tensile properties  
 RT thermoelasticity  
 RT wind loads

**stretch model**

USE aligned coupling scheme

**STRETFORD PROCESS**

2000-04-12

Process for sweetening natural and industrial gases by complete removal of hydrogen sulfide and partial removal of organic sulfur compounds; gas is washed with aqueous solution containing sodium carbonate, sodium vanadate, anthraquinonedisulfonic acid.

\*BT1 desulfurization

**STRIATIONS**

RT electric discharges

**STRING MODELS**

Treating the interactions of extended particles through breaking and connection of strings.

\*BT1 extended particle model  
 \*BT1 quark model  
 NT1 superstring models  
 RT dilatons  
 RT particle interactions  
 RT particle structure  
 RT quantum chromodynamics  
 RT string theory

**STRING THEORY**

2007-08-13

Attempt to unify all the fundamental interactions in nature; it has five components:

one bosonic string theory and four superstring theories.

BT1 m-theory  
 NT1 superstring theory  
 RT anti de sitter space  
 RT branes  
 RT cosmological inflation  
 RT de sitter space  
 RT field theories  
 RT holographic principle  
 RT quark matter  
 RT string models  
 RT vortex theory

**strip mining**

INIS: 1975-10-09; ETDE: 2002-02-27

USE surface mining

**STRIPED BASS**

INIS: 1992-09-08; ETDE: 1978-01-23

\*BT1 anadromous fishes

**stripper foils**

USE beam strippers

**strippers**

USE beam strippers

**STRIPPING**

For nuclear reactions only; for electron stripping use ELECTRON LOSS.

\*BT1 transfer reactions  
 RT butler theory  
 RT oppenheimer-phillips process  
 RT serber theory

**STRONG-ABSORPTION MODEL**

\*BT1 nuclear models

**STRONG-COUPPLING MODEL**

\*BT1 particle models  
 RT coupling  
 RT strong interactions  
 RT weak-coupling model

**STRONG INTERACTIONS**

\*BT1 fundamental interactions  
 NT1 charge-exchange interactions  
 NT1 peripheral collisions  
 RT annihilation  
 RT charge independence  
 RT chew-low method  
 RT cim model  
 RT grand unified theory  
 RT hadron-hadron interactions  
 RT hadronic particle decay  
 RT quark-gluon interactions  
 RT rescattering  
 RT standard model  
 RT strong-coupling model

**strongly damped heavy ion reactions**

INIS: 1993-11-09; ETDE: 2002-06-13

USE deep inelastic heavy ion reactions

**STRONGLY IONIZED GASES**

Ionization factor above 10(-4).

\*BT1 ionized gases

**STRONTIUM**

\*BT1 alkaline earth metals

**STRONTIUM 100**

INIS: 1979-04-27; ETDE: 1979-05-25

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 101**

INIS: 1984-06-21; ETDE: 1984-03-19

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 102**

INIS: 1986-01-21; ETDE: 1985-08-08

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 103**

2007-07-27

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 104**

2007-07-27

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 105**

2007-07-27

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 73**

2007-07-27

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 74**

2007-07-27

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 75**

INIS: 1996-06-17; ETDE: 1996-05-31

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 76**

INIS: 1992-03-26; ETDE: 1992-08-12

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 77**

INIS: 1976-10-29; ETDE: 1976-12-16

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 78**

1976-01-27

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 79**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 80**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 81**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 82**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 83**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 84**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 strontium isotopes

**STRONTIUM 84 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**STRONTIUM 85**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 strontium isotopes

**STRONTIUM 86**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 strontium isotopes

**STRONTIUM 86 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**STRONTIUM 87**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 strontium isotopes

**STRONTIUM 87 TARGET**

*INIS: 1976-03-17; ETDE: 1976-07-12*

- BT1 targets

**STRONTIUM 88**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 strontium isotopes

**STRONTIUM 88 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**STRONTIUM 89**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes
- \*BT1 years living radioisotopes
- RT* radioisotope generators

**STRONTIUM 90 TARGET**

*INIS: 1983-09-01; ETDE: 1976-11-01*

- BT1 targets

**STRONTIUM 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 92**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 96**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

- \*BT1 strontium isotopes

**STRONTIUM 99**

*1976-03-17*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM ADDITIONS**

*Alloys containing not more than 1% Sr are listed here.*

- \*BT1 strontium alloys

**STRONTIUM ALLOYS**

*1996-07-23*

*Alloys containing more than 1% Sr.*

- UF* strontium base alloys
- BT1 alloys
- NT1 strontium additions

**strontium base alloys**

*1996-07-23*

*(Until July 1996 this was a valid descriptor.)*

- USE strontium alloys

**STRONTIUM BORIDES**

*1996-07-23*

*(From July 1996 to February 2008*

*STRONTIUM COMPOUNDS + BORIDES was used for this concept.)*

- \*BT1 borides
- \*BT1 strontium compounds

**STRONTIUM BROMIDES**

- \*BT1 bromides
- \*BT1 strontium halides

**STRONTIUM CARBIDES**

- \*BT1 carbides
- \*BT1 strontium compounds

**STRONTIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 strontium compounds

**STRONTIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 strontium halides

**STRONTIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**STRONTIUM COMPOUNDS**

*1996-07-23*

- BT1 alkaline earth metal compounds
- NT1 strontium borides
- NT1 strontium carbides
- NT1 strontium carbonates
- NT1 strontium halides
- NT2 strontium bromides
- NT2 strontium chlorides
- NT2 strontium fluorides
- NT2 strontium iodides
- NT1 strontium hydrides
- NT1 strontium hydroxides
- NT1 strontium nitrates
- NT1 strontium oxides
- NT1 strontium perchlorates
- NT1 strontium phosphates
- NT1 strontium silicates
- NT1 strontium sulfates
- NT1 strontium sulfides
- NT1 strontium titanates
- NT1 strontium tungstates
- NT1 strontium uranates

**STRONTIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 strontium halides

**STRONTIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 strontium compounds
- NT1 strontium bromides
- NT1 strontium chlorides
- NT1 strontium fluorides
- NT1 strontium iodides

**STRONTIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 strontium compounds

**STRONTIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 strontium compounds

**STRONTIUM IODIDES**

- \*BT1 iodides
- \*BT1 strontium halides

**STRONTIUM IONS**

- \*BT1 ions

**STRONTIUM ISOTOPES**

1999-02-01

- \*BT1 alkaline earth isotopes
- NT1 strontium 100
- NT1 strontium 101
- NT1 strontium 102
- NT1 strontium 103
- NT1 strontium 104
- NT1 strontium 105
- NT1 strontium 73
- NT1 strontium 74
- NT1 strontium 75
- NT1 strontium 76
- NT1 strontium 77
- NT1 strontium 78
- NT1 strontium 79
- NT1 strontium 80
- NT1 strontium 81
- NT1 strontium 82
- NT1 strontium 83
- NT1 strontium 84
- NT1 strontium 85
- NT1 strontium 86
- NT1 strontium 87
- NT1 strontium 88
- NT1 strontium 89
- NT1 strontium 90
- NT1 strontium 91
- NT1 strontium 92
- NT1 strontium 93
- NT1 strontium 94
- NT1 strontium 95
- NT1 strontium 96
- NT1 strontium 97
- NT1 strontium 98
- NT1 strontium 99
- RT bone seekers

**STRONTIUM NITRATES**

- \*BT1 nitrates
- \*BT1 strontium compounds

**STRONTIUM OXIDES**

- \*BT1 oxides
- \*BT1 strontium compounds

**STRONTIUM PERCHLORATES**

INIS: 1988-02-02; ETDE: 1977-11-28

- \*BT1 perchlorates
- \*BT1 strontium compounds

**STRONTIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 strontium compounds

**STRONTIUM SILICATES**

- \*BT1 silicates
- \*BT1 strontium compounds

**STRONTIUM SULFATES**

- \*BT1 strontium compounds
- \*BT1 sulfates

**STRONTIUM SULFIDES**

- \*BT1 strontium compounds
- \*BT1 sulfides

**STRONTIUM TITANATES**

INIS: 1990-05-17; ETDE: 1976-09-28

- \*BT1 strontium compounds
- \*BT1 titanates

**STRONTIUM TUNGSTATES**

INIS: 1979-04-27; ETDE: 1976-11-17

- \*BT1 strontium compounds
- \*BT1 tungstates

**STRONTIUM URANATES**

INIS: 1991-09-16; ETDE: 1978-11-14

- \*BT1 strontium compounds
- \*BT1 uranates

**strophanthin**

INIS: 1990-12-07; ETDE: 1984-06-14

(Prior to December 1990, this was a valid descriptor.)

- USE cardiotonics

**STROPHANTHINS**

INIS: 2000-04-12; ETDE: 1981-04-20

- \*BT1 cardiac glycosides
- NT1 ouabain

**STROPHANTIN**

2000-04-12

- \*BT1 glycosides

**STRUCTURAL BEAMS**

INIS: 2000-04-03; ETDE: 1977-08-24

- UF beams (structural)
- RT building materials
- RT construction

**structural buckling**

- USE deformation

**STRUCTURAL CHEMICAL ANALYSIS**

- UF analysis (structural chemical)
- UF sequence analysis
- NT1 dna sequencing
- RT absorption spectroscopy
- RT amino acid sequence
- RT chemical analysis
- RT coordination valences
- RT debye-scherrer method
- RT derivatization
- RT electron spin resonance
- RT extreme ultraviolet spectra
- RT infrared spectra
- RT laue method
- RT magnetic circular dichroism
- RT moessbauer effect
- RT molecular structure
- RT neutron diffraction
- RT nuclear magnetic resonance
- RT thermal analysis
- RT ultraviolet spectra
- RT x-ray diffraction
- RT x-ray diffractometers

**structural materials**

- USE building materials

**STRUCTURAL MODELS**

- UF models (structural)
- NT1 mockup
- NT2 phantoms
- NT1 scale models
- RT comparative evaluations
- RT functional models

- RT hypothesis
- RT mathematical models
- RT morphology
- RT response functions

**structure (crystal)**

- USE crystal structure

**structure (molecular)**

INIS: 2000-04-12; ETDE: 1975-12-16

- USE molecular structure

**STRUCTURE-ACTIVITY RELATIONSHIPS**

INIS: 1984-12-04; ETDE: 1983-11-23

- RT biological effects
- RT biological functions
- RT dynamic function studies
- RT enzyme activity
- RT molecular structure
- RT protein engineering
- RT protein structure

**STRUCTURE FACTORS**

INIS: 1981-05-11; ETDE: 1978-12-20

*In macroscopic particle systems, for factors related to intensity of diffracted beam used in structure determination for liquids and solids, as by X-ray diffraction.*

- BT1 dimensionless numbers
- RT crystal structure
- RT liquids
- RT solids

**STRUCTURE FUNCTIONS**

*Momentum distribution of constituents within an elementary particle.*

- BT1 functions
- RT emc effect
- RT gribov-lipatov relation
- RT particle models
- RT particle structure

**structures (buildings)**

- USE buildings

**structures (mechanics)**

- USE mechanical structures

**STRUTINSKY THEORY**

- RT fission
- RT nuclear models

**STRYCHNINE**

- \*BT1 alkaloids
- \*BT1 indoles

**STSF ASSEMBLY**

*Gulf, San Diego, California, USA. Subcritical Time-of-Flight Spectrum Facility.*

UF *subcritical time-of-flight spectrum facility*

- \*BT1 subcritical assemblies

**STTFUA**

INIS: 2000-04-12; ETDE: 1981-06-13

*Solar thermal Test Facility Users Association.*

- RT msstf
- RT test facilities

**stud welding**

INIS: 1976-03-17; ETDE: 2002-06-13

- USE welding

**studs**

- USE fasteners

**studsvik fr-0 reactor**

- USE fr-0 reactor

**studsvik r-2 reactor**

- USE r-2 reactor

**studsvik r2-0 reactor**

USE r2-0 reactor

**sturgis-floating nuclear power plant**

1993-11-09

USE mh-1a reactor

**STURM-LIOUVILLE EQUATION**

\*BT1 differential equations

RT eigenfunctions

RT green function

**STX DEVICES**

INIS: 1999-03-03; ETDE: 1986-03-04

A very low aspect ratio toroidal confinement device that can operate as a tokamak, as a pinch, or as a reversed-field pinch. As a tokamak, the spherical torus confines a plasma that is characterized by high toroidal beta, low poloidal beta, large neutral elongation, high plasma current for a given edge  $q$ , and strong paramagnetism.

\*BT1 tokamak devices

RT reverse-field pinch

**STYRENE**

UF phenylethylene

UF vinylbenzene

\*BT1 alkylated aromatics

RT polystyrene

RT vinyl monomers

**styrene-divinylbenzene copolymer**

USE polystyrene-dvb

**styrene polymers**

USE polystyrene

**SU-2 GROUPS**

\*BT1 su groups

**SU-3 GROUPS**

\*BT1 su groups

RT charm particles

RT higgs model

RT quantum chromodynamics

**SU-4 GROUPS**

\*BT1 su groups

**SU-5 GROUPS**

\*BT1 su groups

RT grand unified theory

**SU-6 GROUPS**

\*BT1 su groups

**SU-7 GROUPS**

INIS: 1981-02-27; ETDE: 1981-03-13

\*BT1 su groups

**SU-8 GROUPS**

INIS: 1976-10-07; ETDE: 1976-11-01

\*BT1 su groups

**SU-9 GROUPS**

INIS: 1981-02-27; ETDE: 1989-09-18

\*BT1 su groups

**SU GROUPS**

\*BT1 lie groups

NT1 su-2 groups

NT1 su-3 groups

NT1 su-4 groups

NT1 su-5 groups

NT1 su-6 groups

NT1 su-7 groups

NT1 su-8 groups

NT1 su-9 groups

RT goldstone bosons

RT instantons

RT unitary symmetry

**SUBBITUMINOUS COAL**

1992-05-22

Coal that is intermediate between bituminous coal and lignite.

\*BT1 coal

RT bituminous coal

RT lignite

**SUBCELLULAR DISTRIBUTION**

INIS: 1987-04-28; ETDE: 1985-12-13

BT1 distribution

RT cell constituents

RT cell membranes

RT cell nuclei

RT lysosomes

RT mitochondria

RT ribosomes

RT ultracentrifugation

**subcellular organelles**

INIS: 2000-04-12; ETDE: 1991-08-21

USE cell constituents

**subcontractors**

INIS: 1986-07-09; ETDE: 1983-03-23

USE contractors

**SUBCOOLED BOILING**

UF local boiling

UF surface boiling

\*BT1 boiling

**SUBCOOLING**

BT1 cooling

RT vapor condensation

**SUBCRITICAL ASSEMBLIES**

UF exponential piles

UF fast breeder blanket facility (fbbf)

UF neutron multiplier facility

UF sr-ob reactor

\*BT1 experimental reactors

NT1 accelerator-driven subcritical systems

NT2 accelerator-driven transmutation facilities

NT2 brahma facility

NT2 myrrha facility

NT2 venus reactor

NT2 yalina facility

NT1 entc lwsr reactor

NT1 pse reactor

NT1 sm-1 subcritical assembly

NT1 stsf assembly

NT1 venus-1 reactor

**subcritical flow**

USE laminar flow

**subcritical time-of-flight spectrum facility**

1993-11-09

USE stsf assembly

**subcriticality**

INIS: 1979-01-18; ETDE: 1994-08-18

(Prior to August 1994, this was a valid ETDE descriptor.)

USE criticality

**SUBCUTANEOUS INJECTION**

\*BT1 injection

**SUBDUCTION ZONES**

INIS: 2000-04-12; ETDE: 1985-08-22

Narrow belts in which one lithospheric plate descends under another.

UF benioff zone

RT plate tectonics

RT seismicity

**SUBLETHAL IRRADIATION**

BT1 irradiation

RT dose-response relationships

RT lethal irradiation

RT lethal radiation dose

**SUBLIMATION**

\*BT1 evaporation

RT refining

RT separation processes

RT sublimation cooling

RT sublimation heat

**SUBLIMATION COOLING**

BT1 cooling

RT sublimation

**SUBLIMATION HEAT**

UF heat of sublimation

UF latent heat of sublimation

\*BT1 transition heat

RT ablation

RT sublimation

**SUBMARINE CANYONS**

INIS: 2000-04-12; ETDE: 1981-10-24

Steep valley-like submarine depressions crossing the continental margin.

BT1 canyons

RT continental shelf

RT continental slope

RT sea bed

**SUBMARINES**

Any self-powered underwater craft or towed underwater barges and arrays.

UF underwater vehicles

BT1 ships

RT nuclear ships

**SUBMERGED ARC WELDING**

\*BT1 arc welding

**subsidence (ground)**

INIS: 1982-07-22; ETDE: 1975-10-01

USE ground subsidence

**subsidies**

INIS: 1982-12-03; ETDE: 1979-05-03

(Prior to April 1997 this was a valid ETDE descriptor.)

USE financial incentives

**SUBSONIC FLOW**

BT1 fluid flow

RT aerodynamics

RT compressible flow

**substitution equivalent**

INIS: 2000-04-12; ETDE: 1979-05-31

USE energy substitution equivalent

**substitution techniques**

USE pile replacement techniques

**SUBSTOICHIOMETRY**

RT activation analysis

RT impurities

RT isotope dilution

RT quantitative chemical analysis

**SUBSTRATES**

RT catalyst supports

RT enzymes

RT layers

RT thin films

**subsurface environments**

INIS: 2000-04-12; ETDE: 1985-06-21

(Prior to August 1992 this was a valid ETDE descriptor.)

SEE underground

**SUBSURFACE STRUCTURES**

1999-10-15

- RT civil defense
- RT earth-covered buildings
- RT fallout shelters
- RT shelters
- RT tunnels
- RT underground facilities
- RT underground storage

**subsystem test facility**

INIS: 2000-04-12; ETDE: 1980-11-08

USE mssstf

**SUBTERRENE PENETRATORS**

Rock-melting equipment for excavation, drilling, and tunneling.

- \*BT1 drills
- \*BT1 earth penetrators
- RT boreholes
- RT excavation
- RT heating
- RT materials drilling
- RT melting
- RT rock drilling
- RT tunnels

**suburbs**

USE urban areas

**SUCCINIC ACID**

- \*BT1 dicarboxylic acids
- RT aspartic acid

**sucker rod pumps**

INIS: 2000-04-12; ETDE: 1984-05-10

USE rod pumps

**sucrose**

USE saccharose

**SUDAN**

- BT1 africa
- BT1 arab countries
- BT1 developing countries
- RT nile river
- RT red sea

**SUDBURY NEUTRINO OBSERVATORY**

INIS: 1992-08-06; ETDE: 1992-09-10

Sudbury, Ontario, Canada.

- RT neutrino detection
- RT underground facilities

**SUDDEN APPROXIMATION**

1975-08-22

A high energy limit which assumes that the internal motions of the target are slow compared with the duration of the collision.

- \*BT1 approximations
- RT collisions
- RT hamiltonians
- RT quantum mechanics
- RT transients
- RT wave functions

**SUDDEN COMMENCEMENTS**

RT magnetic storms

**SUDDEN IONOSPHERIC DISTURBANCE**

UF sid

- \*BT1 ionospheric storms
- RT ionosphere

**SUEZ CANAL**

INIS: 1992-06-04; ETDE: 1978-02-14

- \*BT1 inland waterways
- RT egyptian arab republic

**sugar**

USE saccharose

**SUGAR BEETS**

INIS: 1991-12-16; ETDE: 1977-06-02

\*BT1 beets

**SUGAR CANE**

- \*BT1 reeds
- RT crops
- RT molasses

**SUGAR INDUSTRY**

INIS: 2000-05-08; ETDE: 1981-08-04

- BT1 industry
- RT biomass
- RT saccharides
- RT saccharose

**sugars**

USE saccharides

**SUGAWARA THEORY**

RT quantum field theory

**SUJB**

INIS: 1998-01-29; ETDE: 1998-02-24

State Office for Nuclear Safety, Czech Republic.

UF statni urad pro jadernou bezpecnost

\*BT1 czech organizations

**SULF-X PROCESS**

INIS: 2000-04-12; ETDE: 1985-02-22

The sulf-x process is a wet absorption process that utilizes a slurry of regenerated ferrous sulfide solids to achieve removal of 90 to 99% of sulfur dioxide from boiler flue gases by wet scrubbing. It is technically feasible for use with all fossil-fuel types.

\*BT1 desulfurization

**sulfadiazine**

1996-10-23

(Until October 1996 this was a valid descriptor.)

- USE pyrimidines
- USE sulfonamides

**SULFAMIC ACID**

1994-07-01

\*BT1 inorganic acids

**SULFANILIC ACID**

UF aminobenzenesulfonic acid-para

- \*BT1 amines
- \*BT1 sulfonic acids

**SULFATE MINERALS**

INIS: 1996-11-13; ETDE: 1982-05-12

- UF johannite
- UF schroeckingerite
- UF zippeite
- BT1 minerals
- NT1 alunite
- NT1 anhydrite
- NT1 barite
- NT1 gypsum
- NT1 polyhalite
- RT aluminium sulfates
- RT barium sulfates
- RT calcium sulfates
- RT copper sulfates
- RT magnesium sulfates
- RT potassium sulfates
- RT sodium sulfates
- RT uranium sulfates

**SULFATE-REDUCING BACTERIA**

INIS: 1991-10-24; ETDE: 1984-05-08

- \*BT1 bacteria
- NT1 desulfovibrio

RT desulfurization

RT sulfur cycle

**SULFATES**

1997-06-19

For salts only; see also SULFURIC ACID ESTERS.

- BT1 oxygen compounds
- BT1 sulfur compounds
- NT1 acid sulfates
- NT1 actinium sulfates
- NT1 aluminium sulfates
- NT1 americium sulfates
- NT1 ammonium sulfates
- NT1 antimony sulfates
- NT1 barium sulfates
- NT1 berkelium sulfates
- NT1 beryllium sulfates
- NT1 bismuth sulfates
- NT1 cadmium sulfates
- NT1 calcium sulfates
- NT1 cerium sulfates
- NT1 cesium sulfates
- NT1 chromium sulfates
- NT1 cobalt sulfates
- NT1 copper sulfates
- NT1 dysprosium sulfates
- NT1 erbium sulfates
- NT1 europium sulfates
- NT1 gadolinium sulfates
- NT1 gallium sulfates
- NT1 hafnium sulfates
- NT1 holmium sulfates
- NT1 hydrogen sulfates
- NT1 indium sulfates
- NT1 iridium sulfates
- NT1 iron sulfates
- NT1 lanthanum sulfates
- NT1 lead sulfates
- NT1 lithium sulfates
- NT1 lutetium sulfates
- NT1 magnesium sulfates
- NT1 manganese sulfates
- NT1 mercury sulfates
- NT1 molybdenum sulfates
- NT1 neodymium sulfates
- NT1 neptunium sulfates
- NT1 nickel sulfates
- NT1 niobium sulfates
- NT1 osmium sulfates
- NT1 platinum sulfates
- NT1 plutonium sulfates
- NT1 potassium sulfates
- NT1 praseodymium sulfates
- NT1 protactinium sulfates
- NT1 radium sulfates
- NT1 rhenium sulfates
- NT1 rubidium sulfates
- NT1 ruthenium sulfates
- NT1 samarium sulfates
- NT1 scandium sulfates
- NT1 silver sulfates
- NT1 sodium sulfates
- NT1 strontium sulfates
- NT1 tantalum sulfates
- NT1 terbium sulfates
- NT1 thallium sulfates
- NT1 thorium sulfates
- NT1 thulium sulfates
- NT1 tin sulfates
- NT1 titanium sulfates
- NT1 uranium sulfates
- NT1 uranyl sulfates
- NT1 vanadium sulfates
- NT1 ytterbium sulfates
- NT1 yttrium sulfates
- NT1 zinc sulfates
- NT1 zirconium sulfates
- RT glucuronide conjugates

RT glutathione conjugates  
 RT sulfation  
 RT thiosulfates

**SULFATION**

INIS: 2000-04-12; ETDE: 1991-07-08  
*Conversion of a compound into a sulfate by the oxidation of sulfur or the addition of a sulfate group.*

BT1 chemical reactions  
 RT oxidation  
 RT sulfates

**SULFENAMIDES**

2000-04-12  
 \*BT1 amides  
 \*BT1 organic sulfur compounds

**sulfex process**

2000-04-12  
 (Prior to August 1996 this was a valid ETDE descriptor.)  
 USE reprocessing

**sulfhydryl compounds**

USE thiols

**SULFHYDRYL RADICALS**

BT1 radicals

**SULFIBAN PROCESS**

INIS: 2000-04-12; ETDE: 1976-09-14  
*A process for coke oven gas desulfurization using mono-ethanolamine scrubbing.*  
 \*BT1 desulfurization

**SULFIDATION**

INIS: 1982-09-21; ETDE: 1979-07-24  
 BT1 chemical reactions

**SULFIDE MINERALS**

INIS: 1984-04-25; ETDE: 1982-05-12  
 (From March 1977 till February 1995 CINNABAR was a valid ETDE descriptor; from April 1975 till March 1997 SPHALERITE was a valid ETDE descriptor.)  
 UF *cinnabar*  
 UF *sphalerite*  
 BT1 minerals  
 NT1 chalcocopyrite  
 NT1 galena  
 NT1 marcasite  
 NT1 pyrite  
 NT1 pyrrhotite  
 NT2 troilite  
 RT copper sulfides  
 RT iron sulfides  
 RT lead sulfides  
 RT mercury sulfides

**SULFIDES**

1997-06-18  
 UF *polysulfides*  
 BT1 chalcogenides  
 BT1 sulfur compounds  
 NT1 aluminium sulfides  
 NT1 americium sulfides  
 NT1 antimony sulfides  
 NT1 arsenic sulfides  
 NT1 barium sulfides  
 NT1 berkelium sulfides  
 NT1 beryllium sulfides  
 NT1 bismuth sulfides  
 NT1 boron sulfides  
 NT1 cadmium sulfides  
 NT1 calcium sulfides  
 NT1 californium sulfides  
 NT1 carbon sulfides  
 NT1 cerium sulfides  
 NT1 cesium sulfides  
 NT1 chromium sulfides  
 NT1 cobalt sulfides

NT1 copper sulfides  
 NT1 curium sulfides  
 NT1 dimethyl sulfide  
 NT1 dysprosium sulfides  
 NT1 erbium sulfides  
 NT1 europium sulfides  
 NT1 gadolinium sulfides  
 NT1 gallium sulfides  
 NT1 germanium sulfides  
 NT1 hafnium sulfides  
 NT1 holmium sulfides  
 NT1 hydrogen sulfides  
 NT1 indium sulfides  
 NT1 iron sulfides  
 NT1 lanthanum sulfides  
 NT1 lead sulfides  
 NT1 lithium sulfides  
 NT1 lutetium sulfides  
 NT1 magnesium sulfides  
 NT1 manganese sulfides  
 NT1 mercury sulfides  
 NT1 molybdenum sulfides  
 NT1 neodymium sulfides  
 NT1 neptunium sulfides  
 NT1 nickel sulfides  
 NT1 niobium sulfides  
 NT1 osmium sulfides  
 NT1 palladium sulfides  
 NT1 phosphorus sulfides  
 NT1 platinum sulfides  
 NT1 plutonium sulfides  
 NT1 potassium sulfides  
 NT1 praseodymium sulfides  
 NT1 rhenium sulfides  
 NT1 rhodium sulfides  
 NT1 rubidium sulfides  
 NT1 ruthenium sulfides  
 NT1 samarium sulfides  
 NT1 scandium sulfides  
 NT1 selenium sulfides  
 NT1 silicon sulfides  
 NT1 silver sulfides  
 NT1 sodium sulfides  
 NT1 strontium sulfides  
 NT1 tantalum sulfides  
 NT1 technetium sulfides  
 NT1 tellurium sulfides  
 NT1 terbium sulfides  
 NT1 thallium sulfides  
 NT1 thorium sulfides  
 NT1 thulium sulfides  
 NT1 tin sulfides  
 NT1 titanium sulfides  
 NT1 tungsten sulfides  
 NT1 uranium sulfides  
 NT1 vanadium sulfides  
 NT1 ytterbium sulfides  
 NT1 yttrium sulfides  
 NT1 zinc sulfides  
 NT1 zirconium sulfides  
 RT oxysulfides

**sulfenic acids**

INIS: 1984-04-04; ETDE: 2000-11-27  
 USE organic acids  
 USE organic sulfur compounds

**SULFINOL PROCESS**

2000-04-12  
*Process for removal of acidic gas constituents, such as hydrogen sulfide, carbon dioxide, COS, and mercaptans, from natural, refinery, and synthesis gases and lng feedstocks.*  
 \*BT1 desulfurization

**sulfite waste liquor**

INIS: 1993-02-15; ETDE: 1978-08-08  
 USE spent liquors

**SULFITES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor, except for the NTs listed below.*

BT1 oxygen compounds  
 BT1 sulfur compounds  
 NT1 acid sulfites  
 RT sulfurous acid

**SULFOCHLORINATION**

\*BT1 chlorination  
 \*BT1 sulfonation

**sulfocyanides**

USE thiocyanates

**SULFONAMIDES**

1996-10-23  
 UF *sulfadiazine*  
 \*BT1 amides  
 \*BT1 antimicrobial agents  
 \*BT1 organic sulfur compounds  
 RT sulfonic acids

**SULFONATES**

1997-06-19  
*For salts of sulfonic acids; for esters see SULFONIC ACID ESTERS.*  
 \*BT1 organic sulfur compounds  
 NT1 indocyanine green  
 NT1 petroleum sulfonates  
 RT sulfonic acid esters  
 RT sulfonic acids

**SULFONATION**

BT1 chemical reactions  
 NT1 sulfochlorination

**SULFONES**

1996-10-23  
 UF *spadns*  
 UF *sulfophenyl-naphthalene-sulfonic acid*  
 \*BT1 organic sulfur compounds

**SULFONIC ACID ESTERS**

1997-06-19  
 \*BT1 esters  
 \*BT1 organic sulfur compounds  
 NT1 alkyl benzenesulfonates  
 NT1 ethyl methanesulfonate  
 NT1 methyl methanesulfonate  
 NT1 petroleum sulfonates  
 RT sulfonates  
 RT sulfonic acids

**SULFONIC ACIDS**

1996-10-23  
 UF *acid chrome dyes*  
 UF *beryllon*  
 UF *congo red*  
 UF *dsnadns*  
 UF *eriolglauine*  
 UF *spadns*  
 UF *sulfophenyl-naphthalene-sulfonic acid*  
 SF *syntans*  
 \*BT1 organic acids  
 \*BT1 organic sulfur compounds  
 NT1 arsenazo  
 NT1 bromosulphophthalein  
 NT1 chromotropic acid  
 NT1 eriochrome dyes  
 NT1 evans blue  
 NT1 ferron  
 NT1 methyl orange  
 NT1 nitroso-r salt  
 NT1 sulfanilic acid  
 NT1 taurine



NT1 thorin  
 NT1 tiron  
 NT1 trypan blue  
 NT1 unithiol  
 RT chloramines  
 RT sulfonamides  
 RT sulfonates  
 RT sulfonic acid esters

### **sulfophenyl-naphthalene-sulfonic acid**

1996-10-23

(Prior to March 1997 SPADNS was used for this concept in ETDE.)

USE sulfones  
 USE sulfonic acids

### **sulfox process**

INIS: 2000-04-12; ETDE: 1976-01-23

*Conversion of hydrogen sulfide in some refinery gas or water streams to high-purity molten sulfur. Process operates on aqueous solution of ammonia and hydrogen sulfide, which may be refinery sour water or rich solution obtained by absorbing hydrogen sulfide from refinery gas with aqueous ammonia recycled from sulfox unit.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

### **SULFOXIDES**

\*BT1 organic sulfur compounds  
 NT1 dmsa  
 NT1 dpsa

### **SULFREEN PROCESS**

2000-04-12

*Process for desulfurization of residue gas from Claus tail unit to produce liquid S; hydrogen sulfide and sulfur dioxide are made to react at temperatures below the S dew point of the reaction gas mixture.*

\*BT1 desulfurization

### **SULFUR**

UF sulfur sulfides  
 \*BT1 nonmetals  
 RT otto process  
 RT penelec process  
 RT resox process  
 RT sour crudes  
 RT sulfur content

### **SULFUR 24**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 sulfur isotopes

### **SULFUR 26**

2007-04-23

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 proton decay radioisotopes  
 \*BT1 sulfur isotopes

### **SULFUR 27**

INIS: 1986-08-19; ETDE: 1984-05-08

\*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 sulfur isotopes

### **SULFUR 28**

INIS: 1989-09-14; ETDE: 1984-05-08

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 sulfur isotopes

### **SULFUR 29**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 sulfur isotopes

### **SULFUR 30**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 sulfur isotopes

### **SULFUR 31**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 sulfur isotopes

### **SULFUR 32**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 \*BT1 sulfur isotopes  
 RT sulfur 32 beams  
 RT sulfur 32 reactions

### **SULFUR 32 BEAMS**

\*BT1 ion beams  
 RT sulfur 32

### **SULFUR 32 REACTIONS**

\*BT1 heavy ion reactions  
 RT sulfur 32

### **SULFUR 32 TARGET**

ETDE: 1976-07-09  
 BT1 targets

### **SULFUR 33**

\*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 \*BT1 sulfur isotopes

### **SULFUR 33 REACTIONS**

INIS: 1978-04-21; ETDE: 1978-07-06  
 \*BT1 heavy ion reactions

### **SULFUR 33 TARGET**

ETDE: 1976-07-09  
 BT1 targets

### **SULFUR 34**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 \*BT1 sulfur isotopes  
 RT sulfur 34 reactions

### **SULFUR 34 REACTIONS**

\*BT1 heavy ion reactions  
 RT sulfur 34

### **SULFUR 34 TARGET**

ETDE: 1976-07-09  
 BT1 targets

### **SULFUR 35**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 sulfur isotopes

### **SULFUR 36**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 \*BT1 sulfur isotopes

### **SULFUR 36 REACTIONS**

INIS: 1980-07-24; ETDE: 1980-08-12  
 \*BT1 heavy ion reactions

### **SULFUR 36 TARGET**

ETDE: 1976-07-09  
 BT1 targets

### **SULFUR 37**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 sulfur isotopes

### **SULFUR 38**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 light nuclei  
 \*BT1 sulfur isotopes

### **SULFUR 38 BEAMS**

INIS: 1986-12-09; ETDE: 1987-02-24  
 \*BT1 radioactive ion beams

### **SULFUR 39**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 sulfur isotopes  
 RT sulfur 39 reactions

### **SULFUR 39 REACTIONS**

INIS: 1992-09-23; ETDE: 1985-07-18  
 \*BT1 heavy ion reactions  
 RT sulfur 39

### **SULFUR 40**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 sulfur isotopes

### **SULFUR 41**

INIS: 1976-03-17; ETDE: 1976-02-19  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 sulfur isotopes

### **SULFUR 42**

INIS: 1976-03-17; ETDE: 1976-02-19  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 sulfur isotopes

### **SULFUR 43**

INIS: 1980-07-24; ETDE: 1980-02-11  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 sulfur isotopes

### **SULFUR 44**

INIS: 1986-04-02; ETDE: 1986-07-03  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 sulfur isotopes

### **SULFUR 45**

INIS: 1989-09-14; ETDE: 1989-10-16  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 sulfur isotopes

### **SULFUR 46**

INIS: 1989-09-14; ETDE: 1989-10-16  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 sulfur isotopes

**SULFUR 47***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 48***INIS: 1990-04-19; ETDE: 1990-05-16*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 49***2007-04-23*

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR ADDITIONS***2000-04-12*

- BT1 alloys
- NT1 ni-hard

**sulfur carbides**

USE carbon sulfides

**SULFUR CHLORIDES**

- \*BT1 chlorides
- \*BT1 sulfur halides

**SULFUR COMPLEXES**

BT1 complexes

**SULFUR COMPOUNDS***UF polythionates**UF polythionic acids*

- NT1 carbon oxysulfide
- NT1 oxysulfides
- NT1 persulfates
- NT1 persulfuric acid
- NT1 sulfates
  - NT2 acid sulfates
  - NT2 actinium sulfates
  - NT2 aluminium sulfates
  - NT2 americium sulfates
  - NT2 ammonium sulfates
  - NT2 antimony sulfates
  - NT2 barium sulfates
  - NT2 berkelium sulfates
  - NT2 beryllium sulfates
  - NT2 bismuth sulfates
  - NT2 cadmium sulfates
  - NT2 calcium sulfates
  - NT2 cerium sulfates
  - NT2 cesium sulfates
  - NT2 chromium sulfates
  - NT2 cobalt sulfates
  - NT2 copper sulfates
  - NT2 dysprosium sulfates
  - NT2 erbium sulfates
  - NT2 europium sulfates
  - NT2 gadolinium sulfates
  - NT2 gallium sulfates
  - NT2 hafnium sulfates
  - NT2 holmium sulfates
  - NT2 hydrogen sulfates
  - NT2 indium sulfates
  - NT2 iridium sulfates
  - NT2 iron sulfates
  - NT2 lanthanum sulfates
  - NT2 lead sulfates
  - NT2 lithium sulfates
  - NT2 lutetium sulfates
  - NT2 magnesium sulfates
  - NT2 manganese sulfates
  - NT2 mercury sulfates
  - NT2 molybdenum sulfates
  - NT2 neodymium sulfates
  - NT2 neptunium sulfates
  - NT2 nickel sulfates
  - NT2 niobium sulfates

- NT2 osmium sulfates
- NT2 platinum sulfates
- NT2 plutonium sulfates
- NT2 potassium sulfates
- NT2 praseodymium sulfates
- NT2 protactinium sulfates
- NT2 radium sulfates
- NT2 rhenium sulfates
- NT2 rubidium sulfates
- NT2 ruthenium sulfates
- NT2 samarium sulfates
- NT2 scandium sulfates
- NT2 silver sulfates
- NT2 sodium sulfates
- NT2 strontium sulfates
- NT2 tantalum sulfates
- NT2 terbium sulfates
- NT2 thallium sulfates
- NT2 thorium sulfates
- NT2 thulium sulfates
- NT2 tin sulfates
- NT2 titanium sulfates
- NT2 uranium sulfates
- NT2 uranyl sulfates
- NT2 vanadium sulfates
- NT2 ytterbium sulfates
- NT2 yttrium sulfates
- NT2 zinc sulfates
- NT2 zirconium sulfates
- NT1 sulfides
  - NT2 aluminium sulfides
  - NT2 americium sulfides
  - NT2 antimony sulfides
  - NT2 arsenic sulfides
  - NT2 barium sulfides
  - NT2 berkelium sulfides
  - NT2 beryllium sulfides
  - NT2 bismuth sulfides
  - NT2 boron sulfides
  - NT2 cadmium sulfides
  - NT2 calcium sulfides
  - NT2 californium sulfides
  - NT2 carbon sulfides
  - NT2 cerium sulfides
  - NT2 cesium sulfides
  - NT2 chromium sulfides
  - NT2 cobalt sulfides
  - NT2 copper sulfides
  - NT2 curium sulfides
  - NT2 dimethyl sulfide
  - NT2 dysprosium sulfides
  - NT2 erbium sulfides
  - NT2 europium sulfides
  - NT2 gadolinium sulfides
  - NT2 gallium sulfides
  - NT2 germanium sulfides
  - NT2 hafnium sulfides
  - NT2 holmium sulfides
  - NT2 hydrogen sulfides
  - NT2 indium sulfides
  - NT2 iron sulfides
  - NT2 lanthanum sulfides
  - NT2 lead sulfides
  - NT2 lithium sulfides
  - NT2 lutetium sulfides
  - NT2 magnesium sulfides
  - NT2 manganese sulfides
  - NT2 mercury sulfides
  - NT2 molybdenum sulfides
  - NT2 neodymium sulfides
  - NT2 neptunium sulfides
  - NT2 nickel sulfides
  - NT2 niobium sulfides
  - NT2 osmium sulfides
  - NT2 palladium sulfides
  - NT2 phosphorus sulfides
  - NT2 platinum sulfides
  - NT2 plutonium sulfides
  - NT2 potassium sulfides

- NT2 praseodymium sulfides
- NT2 rhenium sulfides
- NT2 rhodium sulfides
- NT2 rubidium sulfides
- NT2 ruthenium sulfides
- NT2 samarium sulfides
- NT2 scandium sulfides
- NT2 selenium sulfides
- NT2 silicon sulfides
- NT2 silver sulfides
- NT2 sodium sulfides
- NT2 strontium sulfides
- NT2 tantalum sulfides
- NT2 technetium sulfides
- NT2 tellurium sulfides
- NT2 terbium sulfides
- NT2 thallium sulfides
- NT2 thorium sulfides
- NT2 thulium sulfides
- NT2 tin sulfides
- NT2 titanium sulfides
- NT2 tungsten sulfides
- NT2 uranium sulfides
- NT2 vanadium sulfides
- NT2 ytterbium sulfides
- NT2 yttrium sulfides
- NT2 zinc sulfides
- NT2 zirconium sulfides
- NT1 sulfites
  - NT2 acid sulfites
- NT1 sulfur halides
  - NT2 sulfur chlorides
  - NT2 sulfur fluorides
- NT1 sulfur nitrides
- NT1 sulfur oxides
  - NT2 sulfur dioxide
  - NT2 sulfur trioxide
- NT1 sulfuric acid
- NT1 sulfurous acid
- NT1 sulfuryl compounds
- RT organic sulfur compounds

**SULFUR CONTENT***INIS: 1992-02-04; ETDE: 1980-08-12*

- RT chemical composition
- RT high-sulfur coal
- RT low-sulfur coal
- RT sulfur

**SULFUR CYCLE***INIS: 1991-10-22; ETDE: 1979-03-05*

- RT ecological concentration
- RT ecosystems
- RT metabolism
- RT mineral cycling
- RT sulfate-reducing bacteria
- RT sulfur-oxidizing bacteria

**SULFUR DIOXIDE***1991-12-11*

(Prior to January 1992, this was indexed by SULFUR OXIDES.)

- \*BT1 sulfur oxides

**SULFUR FLUORIDES**

- \*BT1 fluorides
- \*BT1 sulfur halides
- RT gas-insulated substations

**SULFUR HALIDES***2012-07-25*

- \*BT1 halides
- BT1 sulfur compounds
- NT1 sulfur chlorides
- NT1 sulfur fluorides

**sulfur hydrides**

USE hydrogen sulfides

**SULFUR IONS**

- \*BT1 ions

**SULFUR ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 sulfur 24  
 NT1 sulfur 26  
 NT1 sulfur 27  
 NT1 sulfur 28  
 NT1 sulfur 29  
 NT1 sulfur 30  
 NT1 sulfur 31  
 NT1 sulfur 32  
 NT1 sulfur 33  
 NT1 sulfur 34  
 NT1 sulfur 35  
 NT1 sulfur 36  
 NT1 sulfur 37  
 NT1 sulfur 38  
 NT1 sulfur 39  
 NT1 sulfur 40  
 NT1 sulfur 41  
 NT1 sulfur 42  
 NT1 sulfur 43  
 NT1 sulfur 44  
 NT1 sulfur 45  
 NT1 sulfur 46  
 NT1 sulfur 47  
 NT1 sulfur 48  
 NT1 sulfur 49

**SULFUR METERS**

INIS: 1983-02-04; ETDE: 1978-12-11

\*BT1 meters  
 RT chemical analysis  
 RT pollution control equipment

**SULFUR NITRIDES**

UF nitrogen sulfides  
 \*BT1 nitrides  
 BT1 sulfur compounds

**SULFUR ORES**

INIS: 2000-04-12; ETDE: 1978-06-14

BT1 ores

**SULFUR OXIDES**

\*BT1 oxides  
 BT1 sulfur compounds  
 NT1 sulfur dioxide  
 NT1 sulfur trioxide  
 RT oxysulfides

**SULFUR-OXIDIZING BACTERIA**

INIS: 1991-10-24; ETDE: 1984-01-27

\*BT1 bacteria  
 NT1 rhodococcus  
 NT1 thiobacillus ferrooxidans  
 NT1 thiobacillus oxidans  
 RT desulfurization  
 RT sulfur cycle

**sulfur sulfides**

USE sulfur

**SULFUR TRIOXIDE**

1992-05-22

\*BT1 sulfur oxides

**SULFURIC ACID**

Prior to August 2012 the concept "hydrogen sulfates" was indexed here.

\*BT1 inorganic acids  
 BT1 oxygen compounds  
 BT1 sulfur compounds  
 RT acid sulfates  
 RT acid sulfites  
 RT hydrogen sulfates  
 RT persulfuric acid  
 RT sulfuric acid esters  
 RT sulfuranyl compounds

**SULFURIC ACID ESTERS**

1978-04-21

UF sodium lauryl sulfates  
 \*BT1 esters  
 \*BT1 organic sulfur compounds  
 RT sulfuric acid

**SULFUROUS ACID**

\*BT1 inorganic acids  
 BT1 oxygen compounds  
 BT1 sulfur compounds  
 RT sulfites

**SULFURYL COMPOUNDS**

1994-09-29

BT1 sulfur compounds  
 RT sulfuric acid

**SUM RULES**

BT1 equations  
 RT quantum mechanics

**SUMMER-1 REACTOR**

South Carolina Electric and Gas Co.,  
 Jenkinsville, South Carolina, USA.

UF virgil c summer-1 reactor  
 \*BT1 pwr type reactors

**SUMMIT-1 REACTOR**

Delmarva Power and Light Co., Kent Co.,  
 Delaware, USA. Canceled in 1975 before  
 construction began.

\*BT1 enriched uranium reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors  
 \*BT1 power reactors

**SUMMIT-2 REACTOR**

Delmarva Power and Light Co., Kent Co.,  
 Delaware, USA. Canceled in 1975 before  
 construction began.

\*BT1 enriched uranium reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors  
 \*BT1 power reactors

**SUN**

\*BT1 main sequence stars  
 RT chromosphere  
 RT energy sources  
 RT international geophysical year  
 RT international quiet sun year  
 RT international solar maximum year  
 RT orbiting solar observatories  
 RT photosphere  
 RT sky  
 RT solar activity  
 RT solar atmosphere  
 RT solar corona  
 RT solar cycle  
 RT solar energy  
 RT solar flares  
 RT solar granulation  
 RT solar prominences  
 RT solar radiation  
 RT solar radio bursts  
 RT solar system  
 RT solar wind  
 RT solar x-ray bursts

**SUN BEAM OPERATION**

INIS: 2000-04-12; ETDE: 1986-11-20

\*BT1 nuclear explosions  
 \*BT1 underground explosions  
 RT contained explosions

**SUN CHARTS**

INIS: 2000-04-12; ETDE: 1980-03-04  
 Charts that map the height angle and  
 horizontal angle of the sun for a given  
 location and time.

\*BT1 diagrams

RT altitude  
 RT coordinates  
 RT insolation  
 RT solar radiation

**SUN SHADES**

INIS: 2000-04-12; ETDE: 1975-10-01

RT buildings  
 RT cooling load  
 RT curtains  
 RT shading  
 RT shutters

**SUNDESERT-1 REACTOR**

INIS: 1977-10-17; ETDE: 1977-05-07

San Diego Gas and Electric Co., Blythe,  
 California, USA. Canceled in 1978 before  
 construction began.

\*BT1 pwr type reactors

**SUNDESERT-2 REACTOR**

INIS: 1977-10-17; ETDE: 1977-05-07

San Diego Gas and Electric Co., Blythe,  
 California, USA. Canceled in 1978 before  
 construction began.

\*BT1 pwr type reactors

**SUNFLOWER OIL**

INIS: 2000-04-12; ETDE: 1984-03-06

\*BT1 vegetable oils

**SUNFLOWERS**

UF helianthus annuus  
 UF jerusalem artichokes  
 \*BT1 magnoliopsida

**SUNIST SPHEROMAK**

2006-07-25

Department of Engineering Physics, Tsinghua  
 University, and Institute of Physics, China  
 Academy of Science, Beijing, China.

UF sino united spherical tokamak  
 \*BT1 spheromak devices

**SUNNYSIDE DEPOSIT**

INIS: 2000-04-12; ETDE: 1977-05-07

\*BT1 oil sand deposits  
 RT oil sands  
 RT utah

**SUNSHINE PROJECT**

UF project sunshine  
 RT fallout

**SUNSPOTS**

\*BT1 solar activity  
 \*BT1 starspots  
 RT photosphere  
 RT solar cycle  
 RT solar flares

**super high frequency radiation**

1999-10-15

USE ghz range 01-100  
 USE radiowave radiation

**SUPER-KAMIOKANE NEUTRINO DETECTOR**

2016-12-12

A large water Cherenkov detector located at  
 1,000 m underground, Hida-city, Gifu, Japan

SF t2k experiment  
 SF tokai-to-kamioka  
 \*BT1 neutrino detectors  
 RT cherenkov counters

**SUPER KUKLA REACTOR**

1975-11-27

Lawrence Livermore Laboratory, Livermore,  
 California, USA. Prompt burst reactor. Shut  
 down in 1979.

\*BT1 pulsed reactors  
 \*BT1 research and test reactors

**super phenix reactor**

(Creys-Malville, Isere, France. Prior to August 2010 this was a valid descriptor.)  
USE superphenix reactor

**super power water boiler**

USE supo reactor

**superalloys**

INIS: 2000-04-12; ETDE: 1983-01-21  
USE heat resisting alloys

**supercapacitors**

2005-07-05  
SEE capacitive energy storage equipment

**SUPERCHARGERS**

2000-04-12  
UF supercharging  
BT1 compressors  
NT1 turbochargers  
RT blowers  
RT internal combustion engines

**supercharging**

2000-04-12  
USE superchargers

**SUPERCOMPUTERS**

INIS: 1997-06-17; ETDE: 1984-11-09  
*The largest, fastest, most powerful computers available at any given time.*  
\*BT1 digital computers  
RT cdc computers  
RT cedar computers  
RT cray computers  
RT hypercube computers  
RT nec computers  
RT vector processing

**SUPERCONDUCTING CABLES**

\*BT1 electric cables  
RT cryogenic cables  
RT gas-insulated cables  
RT superconducting composites  
RT superconducting devices  
RT superconductivity

**SUPERCONDUCTING CAVITY RESONATORS**

\*BT1 cavity resonators  
BT1 superconducting devices  
RT cyclic accelerators  
RT microwave equipment  
RT rf systems

**SUPERCONDUCTING COILS**

INIS: 1995-02-27; ETDE: 1975-11-11  
(Prior to January 1983 this concept was indexed by SUPERCONDUCTING DEVICES.)

\*BT1 electric coils  
RT magnet coils  
RT magnetic energy storage equipment  
RT superconducting magnetic energy storage  
RT superconducting magnets

**SUPERCONDUCTING COLLOID DETECTORS**

INIS: 1976-10-07; ETDE: 1976-11-01  
*Operates on the principle that a charged particle passing through a superconducting colloid in the metastable, superheated state leads to a measurable change in the inductance of a surrounding pick-up coil.*  
\*BT1 radiation detectors  
BT1 superconducting devices  
RT colloids  
RT position sensitive detectors

**SUPERCONDUCTING COMPOSITES**

*Superconductors embedded or clad in a conductor matrix.*

\*BT1 composite materials  
RT superconducting cables

**SUPERCONDUCTING CYCLOTRONS**

INIS: 1991-10-08; ETDE: 1983-03-24  
\*BT1 cyclotrons  
NT1 milan superconducting cyclotron  
NT1 texas superconducting cyclotron  
RT superconducting devices

**SUPERCONDUCTING DEVICES**

1976-02-24  
*Restricted to general or review articles and bibliographies.*  
NT1 cryotrons  
NT1 flux pumps  
NT1 squid devices  
NT1 superconducting cavity resonators  
NT1 superconducting colloid detectors  
NT1 superconducting generators  
NT1 superconducting magnets  
NT1 superconducting motors  
RT superconducting cables  
RT superconducting cyclotrons  
RT superconducting junctions

**SUPERCONDUCTING FILMS**

1983-06-30  
BT1 films  
RT superconductors

**superconducting flux pumps**

2000-04-12  
USE flux pumps

**SUPERCONDUCTING GENERATORS**

\*BT1 rotating generators  
BT1 superconducting devices

**SUPERCONDUCTING JUNCTIONS**

1999-10-15  
SF junctions  
BT1 tunnel junctions  
NT1 josephson junctions  
RT superconducting devices  
RT superconductors  
RT tunnel effect

**SUPERCONDUCTING MAGNETIC ENERGY STORAGE**

INIS: 1995-01-11; ETDE: 1982-10-20  
(Until January 1995 this concept was indexed to SUPERCONDUCTIVE ENERGY STORAGE.)  
UF smes  
UF superconductive energy storage  
\*BT1 magnetic energy storage  
RT superconducting coils  
RT superconducting magnets

**SUPERCONDUCTING MAGNETS**

1995-02-27  
(From February 1979 to March 1997 LARGE COIL PROGRAM was a valid ETDE descriptor.)  
UF large coil program  
UF superconducting solenoids  
\*BT1 electromagnets  
BT1 superconducting devices  
RT magnet coils  
RT magnetic energy storage  
RT magnetic energy storage equipment  
RT superconducting coils  
RT superconducting magnetic energy storage  
RT superconductors

**SUPERCONDUCTING MOTORS**

\*BT1 electric motors  
BT1 superconducting devices

**superconducting quantum interference devices**

1993-11-09  
USE squid devices

**superconducting solenoids**

INIS: 1984-04-04; ETDE: 2002-06-13  
USE solenoids  
USE superconducting magnets

**SUPERCONDUCTING SUPER COLLIDER**

INIS: 1985-01-18; ETDE: 1984-03-06  
UF deserrton  
BT1 storage rings  
\*BT1 synchrotrons

**SUPERCONDUCTING WIRES**

1982-11-30  
BT1 wires  
RT superconductors

**superconductive energy storage**

INIS: 1995-01-11; ETDE: 2002-06-13  
(Until January 1995 this was a valid descriptor.)  
USE superconducting magnetic energy storage

**SUPERCONDUCTIVITY**

1996-01-24  
\*BT1 electric conductivity  
RT abrikosov theory  
RT ac losses  
RT anyons  
RT bcs theory  
RT belyaev theory  
RT bogolyubov method  
RT coherence length  
RT collective excitations  
RT cooper pairs  
RT critical current  
RT critical field  
RT cryogenics  
RT electron-electron coupling  
RT electron-hole coupling  
RT electron-ion coupling  
RT electron-phonon coupling  
RT energy gap  
RT flux quantization  
RT ginzburg-landau theory  
RT gorkov-eliasberg theory  
RT helicon resonance  
RT high-*t<sub>c</sub>* superconductors  
RT hubbard model  
RT intermediate state  
RT josephson effect  
RT kisslinger-sorensen theory  
RT kostelitz-thouless theory  
RT london equation  
RT magnetic flux  
RT majorana spinors  
RT meissner-ochsenfeld effect  
RT mixed state  
RT penetration depth  
RT pippard theory  
RT proximity effect  
RT quenching  
RT superconducting cables  
RT tunnel effect

**SUPERCONDUCTORS**

NT1 organic superconductors  
NT2 bedt-tff  
NT2 tmtsf  
NT2 ttf-tcnq

**NT1** stabilized superconductors  
**NT1** type-i superconductors  
**NT1** type-ii superconductors  
**NT2** high-*tc* superconductors  
*RT* abrikosov theory  
*RT* electric conductors  
*RT* magnetic shielding  
*RT* squid devices  
*RT* superconducting films  
*RT* superconducting junctions  
*RT* superconducting magnets  
*RT* superconducting wires

**SUPERCONVERGENCE RELATIONS**

*RT* convergence  
*RT* mathematics  
*RT* series expansion

**SUPERCOOLING**

2008-06-10

**BT1** cooling  
*RT* boiling points  
*RT* melting points  
*RT* solidification

**supercritical flow**

USE turbulent flow

**supercritical fluid**

2018-11-15

USE supercritical state

**SUPERCRITICAL FLUID****CHROMATOGRAPHY**

INIS: 1993-03-23; ETDE: 1983-07-07

\***BT1** chromatography  
*RT* capillaries  
*RT* chemical analysis

**SUPERCRITICAL GAS****EXTRACTION**

INIS: 1994-09-08; ETDE: 1978-11-14

*Extraction of a substance with a solvent in its supercritical state.*

\***BT1** solvent extraction  
*RT* coal liquefaction  
*RT* coal liquids

**SUPERCRITICAL STATE**

INIS: 1992-01-30; ETDE: 1986-07-08

*Homogeneous phase existing above critical temperature and above critical pressure.*

*UF* supercritical fluid  
**NT1** warm dense matter  
*RT* critical pressure  
*RT* critical temperature  
*RT* phase transformations

**SUPERDEFORMED NUCLEI**

1994-04-12

\***BT1** deformed nuclei**SUPERDISLOCATIONS**

*Groups of dislocations with specific space configuration.*

*RT* dislocations**SUPERFLUID MODEL**\***BT1** nuclear models**SUPERFLUIDITY**

*RT* bose-einstein condensation  
*RT* cryogenics  
*RT* fifth sound  
*RT* film flow  
*RT* fluid flow  
*RT* fourth sound  
*RT* ginzburg-pitaevskii theory  
*RT* helium 3 a  
*RT* helium 3 a1  
*RT* helium 3 b  
*RT* helium ii

*RT* khalatnikov theory  
*RT* kosterlitz-thouless theory  
*RT* lambda point  
*RT* landau liquid helium theory  
*RT* second sound  
*RT* third sound  
*RT* viscosity  
*RT* vortex flow  
*RT* zero sound

**superfluorescence**

INIS: 1984-02-22; ETDE: 2002-06-13

USE superradiance

**superfund**

INIS: 2000-04-12; ETDE: 1985-01-28

*Comprehensive environmental response, compensation, and liability act of 1980; public law 96-510.*

(Prior to November 1991 this was a valid

ETDE descriptor.)

USE us superfund

**SUPERGIANT STARS**\***BT1** giant stars**supergranulation**

USE solar granulation

**SUPERGRAVITY**

INIS: 1977-09-15; ETDE: 1977-11-10

*A theory connecting fermion-boson**supersymmetry with gravitation.*

\***BT1** unified field theories  
*RT* compactification  
*RT* gauge invariance  
*RT* graded lie groups  
*RT* gravitation  
*RT* gravitons  
*RT* kaluza-klein theory  
*RT* m-theory  
*RT* quantum field theory  
*RT* quantum gravity  
*RT* supersymmetry

**SUPERHEATERS**

*UF* steam superheaters  
*RT* reactor cooling systems  
*RT* steam generators  
*RT* superheating

**SUPERHEATING**

**BT1** heating  
**NT1** nuclear superheating  
*RT* boiling points  
*RT* melting points  
*RT* steam  
*RT* superheaters

**superheavy elements**

USE transactinide elements

**superheterodyne receivers**

1976-02-11

USE heterodyne receivers

**SUPERHILAC**

*UF* berkeley superhilac  
 \***BT1** hilacs  
*RT* bevalac

**SUPERIOR PROCESS**

INIS: 2000-04-12; ETDE: 1977-03-08

*Circular-grate retort used in processing shale; nahcolite and dawsonite are co-products with shale oil.*

*RT* oil shales**SUPERLATTICES**

*RT* order-disorder transformations  
*RT* solid solutions

**SUPERMASSIVE STARS***Of the order of 100000 solar masses.***BT1** stars**SUPERMULTIPLETS****BT1** multiplets**SUPERNOVA REMNANTS****BT1** cosmic radio sources**NT1** crab nebula*RT* pulsars*RT* supernovae**SUPERNOVAE**\***BT1** eruptive variable stars**NT1** type i supernovae**NT1** type ii supernovae*RT* novae*RT* supernova remnants**SUPEROPERATORS***Acting on other mathematical operator(s).***BT1** mathematical operators*RT* spinors**SUPEROXIDE DISMUTASE**

INIS: 1986-12-03; ETDE: 1984-02-10

*UF* sod\***BT1** oxidoreductases**SUPEROXIDE RADICALS**

INIS: 1984-04-04; ETDE: 1977-08-24

**BT1** radicals**SUPERPARAMAGNETISM**

INIS: 1976-02-11; ETDE: 1976-04-19

*Quasiparamagnetism of small magnetically ordered particles.*

**BT1** magnetism**SUPERPHENIX REACTOR**

2010-08-17

*Electricite de France, Creys-Mepieu, Isere, France. Permanent shutdown since 1998.*

*(Prior to August 2010 SUPER PHENIX REACTOR was used for this reactor.)*

*UF* creys-malville reactor*UF* super phenix reactor\***BT1** enriched uranium reactors\***BT1** lmfr type reactors\***BT1** plutonium reactors\***BT1** sodium cooled reactors**SUPERPHOSPHATES****BT1** fertilizers\***BT1** phosphates**SUPERRADIANCE**

INIS: 1984-02-22; ETDE: 1980-05-06

*A fast cooperative spontaneous deexcitation process in which an ensemble of atoms emit an intense burst of radiation .*

*UF* cooperative spontaneous emission*UF* emission (cooperative spontaneous)*UF* spontaneous emission (cooperative)*UF* superfluorescence\***BT1** photon emission\***BT1** stimulated emission*RT* atoms*RT* fluorescence*RT* laser radiation**SUPERSATURATION****BT1** saturation*RT* precipitation*RT* solubility*RT* solutions**SUPERSELECTION RULES****BT1** selection rules*RT* quantum mechanics

**SUPERSONIC FLOW**

- BT1 fluid flow
- RT aerodynamics
- RT compressible flow
- RT shock waves
- RT transonic flow
- RT wind tunnels

**SUPERSONIC TRANSPORT**

- \*BT1 air transport
- RT aircraft
- RT cosmic radiation
- RT solar flares
- RT stratosphere

**SUPERSTRING MODELS**

INIS: 1992-05-25; ETDE: 1992-06-02

- \*BT1 string models
- RT particle structure
- RT superstring theory
- RT supersymmetry

**SUPERSTRING THEORY**

2007-08-13

Attempt to explain all of the particles and fundamental forces of nature in one theory by modeling them as vibrations of tiny supersymmetric strings; four variations exist: Type I, Type IIA, Type IIB and Heterotic.

- \*BT1 string theory
- RT anti de sitter space
- RT de sitter space
- RT spinors
- RT superstring models
- RT supersymmetry

**supersymmetric particles**

INIS: 1987-12-21; ETDE: 1988-03-16

- USE sparticles

**SUPERSYMMETRY**

INIS: 1978-02-23; ETDE: 1978-05-01

- BT1 symmetry
- RT graded lie groups
- RT group theory
- RT m-theory
- RT quantum field theory
- RT spinors
- RT supergravity
- RT superstring models
- RT superstring theory
- RT unified field theories

**supertankers**

INIS: 2000-04-12; ETDE: 1976-03-31

- USE tanker ships

**SUPER THERM**

INIS: 2000-04-12; ETDE: 1979-08-09

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 iron alloys
- \*BT1 nickel alloys
- \*BT1 silicon alloys
- \*BT1 tungsten alloys

**supervisor codes**

INIS: 1988-11-16; ETDE: 2002-06-13

- USE executive codes

**supervoltage radiotherapy**

- USE radiotherapy

**SUPO REACTOR**

LASL, Los Alamos, New Mexico, USA. Shut down in 1974.

- UF los alamos water boiler reactor
- UF super power water boiler
- \*BT1 aqueous homogeneous reactors
- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**supply**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE availability

**SUPPLY AND DEMAND**

INIS: 1991-10-11; ETDE: 1978-03-08  
Relationship between the quantity that producers wish to sell at various prices and the quantity of a commodity that consumers wish to buy.

- RT demand
- RT demand factors
- RT domestic supplies
- RT economics
- RT energy demand
- RT energy supplies
- RT market
- RT spot market
- RT supply disruption
- RT trade

**SUPPLY DISRUPTION**

INIS: 1991-12-17; ETDE: 1979-10-23

- RT embargoes
- RT energy security
- RT energy supplies
- RT shortages
- RT supply and demand

**SUPPORT PILLARS**

INIS: 2000-04-12; ETDE: 1979-06-06

- RT supports

**SUPPORTED LIQUID MEMBRANES**

INIS: 1998-10-21; ETDE: 1985-09-24

- BT1 membranes
- RT membrane transport
- RT separation processes

**SUPPORTS**

- UF columns (structural)
- BT1 mechanical structures
- NT1 foundations
- NT1 fuel racks
- NT1 powered supports
- NT2 shield supports
- RT catalyst supports
- RT mining equipment
- RT reactor core restraints
- RT restraints
- RT roof bolts
- RT support pillars

**supports (catalyst)**

INIS: 1992-01-16; ETDE: 1980-10-07

- USE catalyst supports

**suppression**

INIS: 2000-04-12; ETDE: 1976-01-26

- USE inhibition

**supra-thermal electrons**

1994-02-28

- USE tail electrons

**supra-thermal ions**

INIS: 1994-02-28; ETDE: 2002-06-13

- USE tail ions

**supralethal doses**

- USE supralethal irradiation

**SUPRALETHAL IRRADIATION**

- UF supralethal doses
- BT1 irradiation
- RT death
- RT dose-response relationships
- RT lethal irradiation
- RT lethal radiation dose
- RT mortality

**sur-100 aachen**

- USE sur-100 series reactor

**sur-100 berlin**

- USE sur-100 series reactor

**sur-100 bremen**

- USE sur-100 series reactor

**sur-100 darmstadt**

- USE sur-100 series reactor

**sur-100 hamburg**

- USE sur-100 series reactor

**sur-100 karlsruhe**

- USE sur-100 series reactor

**sur-100 kiel**

- USE sur-100 series reactor

**sur-100 muenchen**

- USE sur-100 series reactor

**SUR-100 SERIES REACTOR**

- UF siemens unterrichtsreaktor
- UF sur-100 aachen
- UF sur-100 berlin
- UF sur-100 bremen
- UF sur-100 darmstadt
- UF sur-100 hamburg
- UF sur-100 karlsruhe
- UF sur-100 kiel
- UF sur-100 muenchen
- UF sur-100 stuttgart
- UF sur-100 ulm
- \*BT1 enriched uranium reactors
- \*BT1 organic moderated reactors
- \*BT1 solid homogeneous reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**sur-100 stuttgart**

- USE sur-100 series reactor

**sur-100 ulm**

- USE sur-100 series reactor

**surcharges**

INIS: 2000-04-12; ETDE: 1979-11-23

Extra or additional fees or taxes, usually for some special service.

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE charges

- SEE taxes

**SURF II STORAGE RING**

INIS: 1984-07-20; ETDE: 1984-08-20

NBS Synchrotron Ultraviolet Radiation Facility.

- UF nbs synchrotron ultraviolet radiation facility

- UF synchrotron uv radiation facility (nbs)

- BT1 storage rings

- \*BT1 synchrotron radiation sources

**surface-active agents**

- USE surfactants

**SURFACE AIR**

- \*BT1 air
- RT earth atmosphere
- RT particle resuspension

**SURFACE AREA**

INIS: 1999-10-20; ETDE: 1977-09-19

Extent of the area covered by a surface. See also SPECIFIC SURFACE AREA.

- BT1 surface properties
- RT surfaces

**surface area (specific)**

INIS: 1982-09-21; ETDE: 2002-06-13  
USE specific surface area

**SURFACE BARRIER DETECTORS**

\*BT1 semiconductor detectors  
RT depletion layer  
RT surface barrier transistors

**SURFACE BARRIER TRANSISTORS**

\*BT1 transistors  
RT depletion layer  
RT surface barrier detectors

**surface boiling**

USE subcooled boiling

**SURFACE CLEANING**

BT1 cleaning  
BT1 surface finishing  
RT decontamination  
RT descaling  
RT polishing  
RT scrapers  
RT shot peening

**SURFACE COATING**

UF coating (surface)  
UF coating processes  
BT1 deposition  
NT1 chemical coating  
NT2 chemical vapor deposition  
NT2 electrochemical coating  
NT3 anodization  
NT1 cladding  
NT1 diffusion coating  
NT1 dip coating  
NT2 hot dipping  
NT1 electrodeposition  
NT2 electroplating  
NT1 energy beam deposition  
NT1 physical vapor deposition  
NT1 plating  
NT2 electroplating  
NT2 vapor plating  
NT1 screen printing  
NT1 spin-on coating  
NT1 spray coating  
NT2 flame spraying  
NT2 plasma arc spraying  
NT1 vacuum coating  
RT coatings  
RT corrosion protection  
RT hard facing  
RT liners  
RT lining processes  
RT surface finishing  
RT waterproofing

**SURFACE CONTAMINATION**

For radioactive contamination only; see also POLLUTION.

UF contamination (surface)  
UF soiling  
BT1 contamination  
RT decontamination  
RT radioactivity  
RT surface contamination monitors

**SURFACE CONTAMINATION MONITORS**

\*BT1 radiation monitors  
RT surface contamination

**surface delta interaction**

USE surface delta potential

**SURFACE DELTA POTENTIAL**

1999-10-20  
UF modified surface delta potential  
UF surface delta interaction

\*BT1 nucleon-nucleon potential  
RT surface potential

**surface-effect machines**

INIS: 2000-04-12; ETDE: 1977-08-09  
USE air cushion vehicles

**SURFACE ENERGY**

1999-10-20  
The energy per unit area of an exposed surface of a liquid; generally greater than the surface tension.  
(Prior to June 1986 SURFACE TENSION was used for this concept.)

\*BT1 free energy  
BT1 surface properties  
RT surface tension

**SURFACE EXPLOSIONS**

1996-06-26  
UF bravo event  
UF holly event  
UF middle gust event  
UF mike event  
UF zuni event  
BT1 explosions  
RT castle project  
RT cratering explosions  
RT craters  
RT nuclear excavation  
RT nuclear explosions  
RT plowshare project  
RT redwing project

**SURFACE FINISHING**

UF finishing (surface)  
NT1 descaling  
NT1 etching  
NT1 polishing  
NT2 chemical polishing  
NT2 electropolishing  
NT2 mechanical polishing  
NT1 surface cleaning  
RT coatings  
RT machining  
RT metallography  
RT plasma technology  
RT surface coating  
RT surface hardening

**SURFACE FORCES**

INIS: 2000-04-12; ETDE: 1979-05-31  
External forces which act only on the surfaces of bodies.  
RT mechanics

**SURFACE HARDENING**

BT1 hardening  
BT1 surface treatments  
NT1 carburization  
RT cold working  
RT shot peening  
RT surface finishing

**SURFACE ION SOURCES**

2018-02-26  
BT1 ion sources

**SURFACE IONIZATION**

BT1 ionization  
NT1 adiabatic surface ionization  
RT ion thrusters

**SURFACE MINING**

1991-08-09  
UF cross-ridge mining  
UF open pit mining  
UF quarrying  
UF strip mining  
BT1 mining  
RT auger mining  
RT coal mining

RT contained explosions  
RT cratering explosions  
RT culm  
RT excavation  
RT fracturing  
RT mines  
RT mining engineering  
RT oil sand mining  
RT oil shale mining  
RT slope stability  
RT underground mining

**SURFACE MINING ACTS**

INIS: 1992-02-21; ETDE: 1978-04-27  
\*BT1 mining laws

**SURFACE POTENTIAL**

INIS: 1999-10-20; ETDE: 1979-04-11  
BT1 potentials  
RT surface delta potential  
RT surface properties  
RT work functions

**SURFACE PROPERTIES**

NT1 absorptivity  
NT1 emissivity  
NT1 reflectivity  
NT1 roughness  
NT1 sorptive properties  
NT1 surface area  
NT1 surface energy  
NT1 surface tension  
RT adhesion  
RT adsorption  
RT ceramography  
RT corrosion  
RT physical properties  
RT surface potential  
RT surface treatments  
RT tribology  
RT waterproofing  
RT wettability

**SURFACE TENSION**

The force acting on the surface of a liquid, tending to minimize the area of the surface; it equals the free energy per unit surface.

UF tension (surface)  
SF interfacial tension  
BT1 surface properties  
RT surface energy  
RT surfactants

**SURFACE TREATMENTS**

NT1 pickling  
NT2 corrosion pickling  
NT1 shot peening  
NT1 surface hardening  
NT2 carburization  
RT sample preparation  
RT surface properties  
RT waterproofing

**SURFACE WATERS**

NT1 coastal waters  
NT2 bays  
NT3 bay of biscay  
NT3 bay of fundy  
NT3 biscayne bay  
NT3 chesapeake bay  
NT3 delaware bay  
NT3 galveston bay  
NT3 matagorda bay  
NT3 onslow bay  
NT3 prudhoe bay  
NT3 sequim bay  
NT2 estuaries  
NT3 fiords  
NT3 long island sound  
NT1 inland waterways  
NT2 manivier canal

**NT2** panama canal  
**NT2** suez canal  
**NT1** lakes  
**NT2** ambrosia lake  
**NT2** aral sea  
**NT2** athabasca lake  
**NT2** caspian sea  
**NT2** dead sea  
**NT2** great lakes  
**NT3** lake erie  
**NT3** lake huron  
**NT3** lake michigan  
**NT3** lake ontario  
**NT3** lake superior  
**NT2** great salt lake  
**NT2** lake baikal  
**NT2** lake balaton  
**NT2** lake drukshiai  
**NT2** lake wabamun  
**NT2** salton sea  
**NT1** ponds  
**NT2** cooling ponds  
**NT2** settling ponds  
**NT2** solar ponds  
**NT3** roof ponds  
**NT1** rivers  
**NT2** allegheny river  
**NT2** altamaha river  
**NT2** amazon river  
**NT2** arkansas river  
**NT2** au sable river  
**NT2** blind river  
**NT2** brahmaputra river  
**NT2** brazos river  
**NT2** cape fear river  
**NT2** chattahoochee river  
**NT2** clinch river  
**NT2** colorado river  
**NT2** columbia river  
**NT2** connecticut river  
**NT2** cumberland river  
**NT2** danube river  
**NT2** delaware river  
**NT2** detroit river  
**NT2** dneiper river  
**NT2** dudvah river  
**NT2** euphrates river  
**NT2** fraser river  
**NT2** ganga river  
**NT2** grand river  
**NT2** gunnison river  
**NT2** hron river  
**NT2** hudson river  
**NT2** james river  
**NT2** kennebec river  
**NT2** lewis river  
**NT2** little tennessee river  
**NT2** menominee river  
**NT2** mississippi river  
**NT2** missouri river  
**NT2** mohawk river  
**NT2** nelson river  
**NT2** niagara river  
**NT2** niger river  
**NT2** Nile river  
**NT2** north platte river  
**NT2** ohio river  
**NT2** ottawa river  
**NT2** peace river  
**NT2** piceance creek  
**NT2** po river  
**NT2** potomac river  
**NT2** pripet river  
**NT2** rhine river  
**NT2** rhone river  
**NT2** rio grande river  
**NT2** saginaw river  
**NT2** saint clair river  
**NT2** saint john river  
**NT2** santee river  
**NT2** savannah river  
**NT2** severn river  
**NT2** skagit river  
**NT2** st lawrence river  
**NT2** streams  
**NT2** susquehanna river  
**NT2** techa river  
**NT2** tennessee river  
**NT2** thames river  
**NT2** tigris river  
**NT2** vah river  
**NT2** vltava river  
**NT2** volga river  
**NT2** white river  
**NT2** yangtze river  
**NT2** yellow creek  
**NT2** yellow river  
**NT2** yukon river  
**NT1** seas  
**NT2** antarctic ocean  
**NT3** weddell sea  
**NT2** aral sea  
**NT2** arctic ocean  
**NT3** beaufort sea  
**NT4** prudhoe bay  
**NT3** chukchi sea  
**NT2** atlantic ocean  
**NT3** baltimore canyon  
**NT3** bay of biscay  
**NT3** bay of fundy  
**NT3** biscayne bay  
**NT3** caribbean sea  
**NT4** gulf of mexico  
**NT5** galveston bay  
**NT5** san antonio bay  
**NT3** chesapeake bay  
**NT3** delaware bay  
**NT3** gulf of maine  
**NT3** irish sea  
**NT3** long island sound  
**NT3** mid-atlantic bight  
**NT4** new york bight  
**NT3** north sea  
**NT4** wadden sea  
**NT3** onslow bay  
**NT3** sargasso sea  
**NT3** south atlantic bight  
**NT3** weddell sea  
**NT2** baltic sea  
**NT2** black sea  
**NT2** caspian sea  
**NT2** indian ocean  
**NT3** arabian sea  
**NT4** persian gulf  
**NT5** strait of hormuz  
**NT3** timor sea  
**NT2** mediterranean sea  
**NT3** adriatic sea  
**NT3** aegean sea  
**NT2** pacific ocean  
**NT3** bering sea  
**NT3** china sea  
**NT3** gulf of alaska  
**NT3** gulf of california  
**NT3** puget sound  
**NT3** san francisco bay  
**NT3** santa barbara channel  
**NT3** sequim bay  
**NT3** tasman sea  
**NT2** red sea  
**NT3** gulf of suz  
**NT1** swimming pools  
**NT1** territorial waters  
**NT1** water reservoirs  
**NT2** cooling ponds  
**RT** air-water interactions  
**RT** alluvial deposits  
**RT** atmospheric precipitations

**RT** fishes  
**RT** floods  
**RT** ground water  
**RT** hydrology  
**RT** hydrosphere  
**RT** irrigation  
**RT** liquid wastes  
**RT** marshes  
**RT** photic zone  
**RT** plankton  
**RT** swamps  
**RT** thermocline  
**RT** water  
**RT** water currents  
**RT** water resources  
**RT** watersheds  
**RT** wetlands

### surface waves (plasma)

2001-01-08

USE plasma surface waves

### surface waves (seismic)

INIS: 1980-05-14; ETDE: 1978-07-05

USE seismic surface waves

### SURFACES

**UF** crystal faces  
**NT1** spectrally selective surfaces  
**RT** adsorption  
**RT** blisters  
**RT** interfaces  
**RT** rewetting  
**RT** surface area  
**RT** topological foliation  
**RT** two-dimensional calculations

### surfacing, hard

INIS: 2000-07-24; ETDE: 1978-07-05

USE hard facing

### SURFACTANTS

**UF** dispersants (chemical)  
**UF** surface-active agents  
**NT1** wetting agents  
**NT2** detergents  
**NT3** plurionics  
**RT** surface tension

### SURGERY

**UF** radiosurgery  
**UF** sympathectomy  
**UF** vagotomy  
**BT1** medicine  
**NT1** adrenalectomy  
**NT1** castration  
**NT1** gastrectomy  
**NT1** hepatectomy  
**NT1** hypophysectomy  
**NT1** laryngectomy  
**NT1** nephrectomy  
**NT1** plastic surgery  
**NT1** splenectomy  
**NT1** thymectomy  
**NT1** thyroidectomy  
**RT** anesthesia  
**RT** surgical materials  
**RT** therapy

### SURGES

**RT** electric controllers  
**RT** electric currents  
**RT** electric potential  
**RT** electrical transients  
**RT** fluid flow  
**RT** hydraulics  
**RT** overcurrent  
**RT** overvoltage  
**RT** pulses  
**RT** transients  
**RT** var control systems



RT voltage regulators

## SURGICAL MATERIALS

BT1 materials  
 BT1 medical supplies  
 RT isomed  
 RT prostheses  
 RT surgery

## SURINAM

BT1 developing countries  
 \*BT1 south america

## surmac reactors

INIS: 2000-04-12; ETDE: 1978-01-23  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE surmac tokamak

## SURMAC TOKAMAK

INIS: 1982-11-30; ETDE: 1983-02-09  
 UF surmac reactors  
 \*BT1 tokamak devices

## SURPLUS NUCLEAR FACILITIES

INIS: 1995-04-10; ETDE: 1986-01-15  
 Nuclear facilities, usually radioactively contaminated, that have been declared surplus.  
 BT1 nuclear facilities

## SURPLUS POWER

INIS: 1993-06-09; ETDE: 1984-02-10  
 Electric power generating capacity in excess of firm load requirements.  
 \*BT1 electric power  
 RT electric utilities  
 RT sellback

## SURRY-1 REACTOR

Virginia Electric and Power Co., Surry, Virginia, USA.  
 UF surry power station unit-1  
 \*BT1 pwr type reactors

## SURRY-2 REACTOR

Virginia Electric and Power Co., Surry, Virginia, USA.  
 UF surry power station unit-2  
 \*BT1 pwr type reactors

## SURRY-3 REACTOR

Virginia Electric and Power Co., Surry, Virginia, USA. Canceled in 1977 before construction began.  
 \*BT1 pwr type reactors

## SURRY-4 REACTOR

Virginia Electric and Power Co., Surry, Virginia, USA. Canceled in 1977 before construction began.  
 \*BT1 pwr type reactors

## surry power station unit-1

USE surry-1 reactor

## surry power station unit-2

USE surry-2 reactor

## surveillance

2000-03-29  
 (Prior to May 1996 this was a valid ETDE descriptor.)  
 SEE inspection  
 SEE medical surveillance  
 SEE monitoring  
 SEE security

## surveillance (medical)

ETDE: 2002-06-13  
 USE medical surveillance

## surveillance (radioactivity)

USE radiation monitoring

## survey (radioactivity)

USE radiation monitoring

## SURVEY MONITORS

\*BT1 radiation monitors

## surveys

INIS: 2000-04-12; ETDE: 1980-05-06  
 SEE geochemical surveys  
 SEE geologic surveys  
 SEE geophysical surveys  
 SEE marine surveys  
 SEE public opinion

## SURVIVAL CURVES

UF survival fraction  
 RT biological effects  
 RT dose-response relationships  
 RT lethal irradiation  
 RT mortality  
 RT radiosensitivity

## survival fraction

USE survival curves

## SURVIVAL TIME

RT lethal irradiation  
 RT time dependence

## susceptibility (magnetic)

USE magnetic susceptibility

## suse cyclotron (munich)

INIS: 1984-07-20; ETDE: 1984-08-20  
 USE munich suse cyclotron

## SUSPENSIONS

BT1 dispersions  
 NT1 nanofluids  
 NT1 slurries  
 NT2 fuel slurries  
 RT deflocculating agents  
 RT drilling fluids  
 RT filters  
 RT fluidization  
 RT fluidized beds  
 RT turbidity

## suspensions (fuel)

USE fuel slurries

## SUSQUEHANNA-1 REACTOR

PPL Susquehanna, LLC, Berwick, Pennsylvania, USA.  
 UF susquehanna steam electric station unit-1  
 \*BT1 bwr type reactors

## SUSQUEHANNA-2 REACTOR

PPL Susquehanna, LLC, Berwick, Pennsylvania, USA.  
 UF susquehanna steam electric station unit-2  
 \*BT1 bwr type reactors

## SUSQUEHANNA RIVER

\*BT1 rivers  
 RT maryland  
 RT new york  
 RT pennsylvania

## susquehanna steam electric station unit-1

1993-11-09  
 USE susquehanna-1 reactor

## susquehanna steam electric station unit-2

1993-11-09  
 USE susquehanna-2 reactor

## SUSTAINABILITY

2013-11-27  
 Ability to continue a condition or situation over a considerable period of time without degradation of the environment  
 RT sustainable development

## SUSTAINABLE DEVELOPMENT

2000-09-26  
 Development that meets the needs of the present while still allowing future generations to meet their own needs without shortages or harm to the environment.  
 BT1 resource development  
 RT economic development  
 RT energy policy  
 RT energy source development  
 RT environmental policy  
 RT environmental protection  
 RT resource depletion  
 RT resource exploitation  
 RT resource management  
 RT sustainability

## SUYDAM CRITERION

UF suydam theory  
 RT mercier criterion  
 RT plasma instability

## suydam theory

USE suydam criterion

## sv 40 virus

USE simian virus

## SV PER HOUR RANGE

2013-01-23  
 BT1 radiation dose rate ranges

## SV PER YEAR RANGE

2013-01-23  
 BT1 radiation dose rate ranges

## SV RANGE

2012-05-30  
 \*BT1 equivalent dose range

## sv40 virus

INIS: 1976-03-25; ETDE: 2000-11-24  
 USE oncogenic viruses

## sw-3 groups

1996-07-23  
 (Until July 1996 this was a valid descriptor.)  
 USE sw groups

## SW GROUPS

1996-07-23  
 (From April 1975 till March 1997 SW-3 GROUPS was a valid ETDE descriptor.)  
 UF sw-3 groups  
 \*BT1 lie groups

## SWAGING

\*BT1 materials working  
 RT forging

## SWAMPS

INIS: 1976-10-29; ETDE: 1976-07-07  
 Waterlogged lands supporting a natural vegetation predominantly of shrubs and trees.  
 UF bogs  
 \*BT1 terrestrial ecosystems  
 \*BT1 wetlands  
 RT everglades national park  
 RT marshes  
 RT surface waters

**SWAZILAND**

- BT1 africa  
BT1 developing countries

**SWEAT**

- UF *transpiration (animal)*  
\*BT1 biological wastes  
\*BT1 body fluids  
RT excretion  
RT skin

**sweat glands**

- USE glands  
USE skin

**SWEDEN**

- BT1 developed countries  
\*BT1 scandinavia  
RT oecd  
RT ranstad deposit  
RT sami people

**SWEDISH ORGANIZATIONS**

- INIS: 1976-09-06; ETDE: 1976-11-01  
BT1 national organizations

**swedish reactor r-1**

- USE r-1 reactor

**swedish reactor r-2**

- USE r-2 reactor

**swedish reactor r2-0**

- USE r2-0 reactor

**SWEEP CIRCUITS**

- BT1 electronic circuits  
RT timing circuits

**SWEEP EFFICIENCY**

- INIS: 2000-04-12; ETDE: 1982-07-08  
*The ratio of the volume of rock contacted by the displacing fluid to the total volume of rock subject to invasion by the displacing fluid.*  
RT enhanced recovery

**SWEET GUMS**

- INIS: 1992-01-13; ETDE: 1987-03-24  
*Liquidambar styraciflua.*  
\*BT1 magnoliopsida  
\*BT1 trees

**SWEETALLOY**

- 2000-04-12  
\*BT1 chromium alloys  
\*BT1 nickel steels  
\*BT1 stainless steels

**SWELLING**

- BT1 deformation  
RT blisters  
RT expansion  
RT thermal expansion

**SWESSAR STANDARD PLANT**

- Stone and Webster reference PWR nuclear power plant.*  
UF *stone-webster reference pwr*  
\*BT1 nuclear power plants

**swierk agata reactor**

- USE agata reactor

**swierk anna reactor**

- USE anna reactor

**swierk ewa reactor**

- USE ewa reactor

**SWIERK LINAC**

- \*BT1 linear accelerators

**swierk maria reactor**

- USE maria reactor

**SWIERK R-2 REACTOR**

- 2000-04-12  
UF *r-ii swierk reactor*  
\*BT1 pool type reactors  
\*BT1 research reactors

**swierk research reactor maryla**

- USE maryla reactor

**swimming**

- USE exercise

**swimming pool reactors**

- USE pool type reactors

**swimming pool tank reactor austria**

- 1993-11-09  
USE astra reactor

**SWIMMING POOLS**

- INIS: 2000-04-12; ETDE: 1975-10-28  
BT1 surface waters

**SWINE**

- UF *pigs*  
\*BT1 domestic animals  
\*BT1 mammals  
NT1 miniature swine  
RT meat

**swirl flow**

- INIS: 1984-04-04; ETDE: 1976-11-01  
(Prior to October 1981, this was a valid ETDE descriptor.)  
USE vortex flow

**swiss institute nuclear research cyclotron**

- 1993-11-09  
USE sin cyclotron

**SWISS LIGHT SOURCE**

- 2000-06-02  
*Paul Scherrer Institute, Villigen, Switzerland.*  
UF *sls (swiss synchrotron light source)*  
\*BT1 synchrotron radiation sources  
RT light sources  
RT x-ray sources

**SWISS ORGANIZATIONS**

- INIS: 1980-09-12; ETDE: 1980-10-07  
BT1 national organizations

**SWISS SPALLATION NEUTRON SOURCE**

- 2016-06-09  
*Paul Scherrer Institute, Villigen, Switzerland*  
UF *sq*  
\*BT1 spallation neutron source facilities

**SWITCHES**

- UF *contactors*  
UF *electric contactors*  
UF *electric switches*  
\*BT1 electrical equipment  
NT1 cryotrons  
NT1 plasma switches  
NT1 semiconductor switches  
RT bimetals  
RT circuit breakers  
RT connectors  
RT electric contacts  
RT electric discharges  
RT electric fuses  
RT equipment protection devices  
RT insulating oils  
RT interlocks  
RT q-switching  
RT relays  
RT switching circuits

**SWITCHGRASS**

- 2009-04-22  
\*BT1 gramineae  
RT biomass  
RT cellulosic ethanol

**SWITCHING CIRCUITS**

- BT1 electronic circuits  
NT1 transistor switching circuits  
RT circuit breakers  
RT counting circuits  
RT gating circuits  
RT relays  
RT switches  
RT thyratrons  
RT thyristors

**SWITCHING DIODES**

- \*BT1 semiconductor diodes  
RT transistor switching circuits

**SWITZERLAND**

- 1995-04-03  
BT1 developed countries  
\*BT1 western europe  
RT alps  
RT oecd  
RT rhine river  
RT rhone river

**swordfish event**

- 1994-10-14  
*A test made during PROJECT DOMINIC.*  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE nuclear explosions  
USE underwater explosions

**swpa**

- INIS: 2000-04-12; ETDE: 1980-03-29  
USE southwestern power administration

**SYCAMORES**

- INIS: 1992-01-13; ETDE: 1979-03-27  
\*BT1 magnoliopsida  
\*BT1 trees

**sydsvenska kraft ab reactor 1**

- USE barsebaeck-1 reactor

**sydsvenska kraft ab reactor 2**

- INIS: 1978-04-21; ETDE: 1978-07-06  
USE barsebaeck-2 reactor

**SYENITES**

- INIS: 1984-11-30; ETDE: 1980-08-12  
\*BT1 plutonic rocks  
RT feldspars

**SYMBIOSIS**

- INIS: 1999-10-21; ETDE: 1976-05-13  
*Limited to biology.*

- UF *commensalism*  
UF *mutualism*  
NT1 mycorrhizas  
RT animals  
RT biology  
RT ecology  
RT frankia  
RT plants  
RT predator-prey interactions  
RT rhizobium

**SYMBIOTIC STARS**

- 1983-03-15  
*Objects whose spectra have characteristics of disparate spectral classes.*  
BT1 stars  
RT accretion disks  
RT binary stars

**symbolic logic**

INIS: 1986-07-10; ETDE: 1975-11-11

USE mathematical logic

**SYMMETRY**

NT1 axial symmetry  
 NT1 boson-fermion symmetry  
 NT1 chiral symmetry  
 NT1 crossing symmetry  
 NT1 supersymmetry  
 NT1 unitary symmetry  
 RT asymmetry  
 RT configuration  
 RT distribution  
 RT invariance principles  
 RT orientation  
 RT symmetry breaking  
 RT symmetry groups

**SYMMETRY BREAKING**

RT compactification  
 RT higgs bosons  
 RT instantons  
 RT symmetry  
 RT symmetry groups

**SYMMETRY GROUPS**

1997-08-20

NT1 dynamical groups  
 NT2 o groups  
 NT1 lie groups  
 NT2 anti de sitter group  
 NT2 conformal groups  
 NT2 de sitter group  
 NT2 graded lie groups  
 NT2 o groups  
 NT2 poincare groups  
 NT3 lorentz groups  
 NT2 sl groups  
 NT2 so groups  
 NT3 so-10 groups  
 NT3 so-12 groups  
 NT3 so-2 groups  
 NT3 so-3 groups  
 NT3 so-4 groups  
 NT3 so-5 groups  
 NT3 so-6 groups  
 NT3 so-8 groups  
 NT2 sp groups  
 NT2 su groups  
 NT3 su-2 groups  
 NT3 su-3 groups  
 NT3 su-4 groups  
 NT3 su-5 groups  
 NT3 su-6 groups  
 NT3 su-7 groups  
 NT3 su-8 groups  
 NT3 su-9 groups  
 NT2 sw groups  
 NT2 u groups  
 NT3 u-1 groups  
 NT3 u-12 groups  
 NT3 u-2 groups  
 NT3 u-3 groups  
 NT3 u-4 groups  
 NT3 u-5 groups  
 NT3 u-6 groups  
 NT1 quantum groups  
 NT1 space groups  
 RT casimir operators  
 RT current algebra  
 RT group theory  
 RT irreducible representations  
 RT nonunitary representations  
 RT symmetry  
 RT symmetry breaking

**sympathectomy**

USE autonomic nervous system  
 USE surgery

**sympathetic nervous system**

USE autonomic nervous system

**SYMPATHOLYTICS**

UF *adrenergics-blocking agents*  
 \*BT1 autonomic nervous system agents  
 NT1 ergotamine  
 NT1 reserpine  
 RT autonomic nervous system  
 RT neuroregulators  
 RT parasympatholytics  
 RT parasympathomimetics  
 RT sympathomimetics

**SYMPATHOMIMETICS**

UF *adrenergics*  
 \*BT1 autonomic nervous system agents  
 NT1 adrenaline  
 NT1 amphetamines  
 NT2 benzedrine  
 NT1 dopamine  
 NT1 ephedrine  
 NT1 noradrenaline  
 NT1 serotonin  
 NT2 bufotenine  
 NT1 tyramine  
 RT autonomic nervous system  
 RT neuroregulators  
 RT parasympatholytics  
 RT parasympathomimetics  
 RT sympatholytics  
 RT vasoconstriction  
 RT vasodilation

**symplectic groups**

USE sp groups

**symposia**

USE meetings

**SYMPTOMS**

NT1 anemias  
 NT2 ischemia  
 NT2 megaloblastic anemia  
 NT2 sickle cell anemia  
 NT2 thalassemia  
 NT1 ascites  
 NT1 constipation  
 NT1 diarrhea  
 NT1 edema  
 NT1 erythema  
 NT1 fever  
 NT1 heart failure  
 NT1 hemorrhage  
 NT1 hypertension  
 NT1 inflammation  
 NT1 jaundice  
 NT1 leukopenia  
 NT2 lymphopenia  
 NT1 nausea  
 NT1 pain  
 NT1 splenomegaly  
 NT1 uremia  
 NT1 vomiting  
 RT chlorosis  
 RT diagnosis  
 RT diseases  
 RT pathological changes  
 RT peritonitis

**SYNCHROCYCLOTRONS**

1996-07-18

(Prior to March 1997 CHICAGO

SYNCHROCYCLOTRON was a valid ETDE descriptor.)

UF *chicago synchrocyclotron*  
 UF *fm cyclotrons*  
 UF *frequency modulated cyclotrons*  
 UF *phasotrons*  
 \*BT1 cyclic accelerators

NT1 berkeley synchrocyclotron  
 NT1 cern synchrocyclotron  
 NT1 harvard synchrocyclotron  
 NT1 harwell synchrocyclotron  
 NT1 iko synchrocyclotron  
 NT1 jinr phasotron  
 NT1 leningrad synchrocyclotron  
 NT1 mcgill synchrocyclotron  
 NT1 orsay synchrocyclotron  
 NT1 uppsala synchrocyclotron  
 RT cyclotrons  
 RT synchrotrons

**SYNCHRONIZATION**

INIS: 1977-10-17; ETDE: 1976-12-16

RT antimetabolites  
 RT cell cycle  
 RT coincidence methods  
 RT resonance  
 RT synchronous cultures  
 RT tuning

**SYNCHRONOUS CULTURES**

BT1 cell cultures  
 RT antimetabolites  
 RT cell cycle  
 RT synchronization

**synchrophasotrons**

USE synchrotrons

**SYNCHROTRON OSCILLATIONS**

\*BT1 beam dynamics  
 BT1 oscillations

**SYNCHROTRON RADIATION**

UF *bremsstrahlung (magnetic)*  
 UF *magnetic bremsstrahlung*  
 \*BT1 bremsstrahlung  
 RT cyclotron radiation  
 RT synchrotron radiation sources  
 RT wiggler magnets

**SYNCHROTRON RADIATION SOURCES**

INIS: 1981-07-06; ETDE: 1979-05-31

BT1 radiation sources  
 NT1 advanced light source  
 NT1 advanced photon source  
 NT1 european synchrotron radiation facility  
 NT1 indus-1  
 NT1 indus-2  
 NT1 kek photon factory  
 NT1 lnls storage ring  
 NT1 nsls  
 NT1 pohang light source  
 NT1 spring-8 storage ring  
 NT1 surf ii storage ring  
 NT1 swiss light source  
 RT light sources  
 RT sesame synchrotron laboratory  
 RT storage rings  
 RT synchrotron radiation  
 RT x-ray sources

**synchrotron uv radiation facility (nbs)**

INIS: 1993-11-09; ETDE: 2002-06-13

USE surf ii storage ring

**SYNCHROTRONS**

1996-07-18

(BIRMINGHAM SYNCHROTRON, CALTECH SYNCHROTRON, and OMNITRON have been valid ETDE descriptors.)

UF *birmingham synchrotron*  
 UF *caltech synchrotron*  
 UF *cit synchrotron*  
 UF *omnitron*

UF *synchrophasotrons*  
 \*BT1 cyclic accelerators  
 NT1 bevatron  
 NT1 bonn synchrotron  
 NT1 brookhaven ags  
 NT1 cambridge electron accelerator  
 NT1 cern lhc  
 NT1 cern ps synchrotron  
 NT1 cern sps synchrotron  
 NT1 cornell 10-gev synchrotron  
 NT1 cosmotron  
 NT1 cosy storage ring  
 NT1 desy  
 NT1 erivan synchrotron  
 NT1 escar storage ring  
 NT1 fermilab accelerator  
 NT1 fermilab tevatron  
 NT1 fian synchrotron  
 NT1 frascati synchrotron  
 NT1 himac accelerator  
 NT1 itep synchrotron  
 NT1 j-parc synchrotrons  
 NT1 jefferson lab meic  
 NT1 jinr nuclotron  
 NT1 kek synchrotron  
 NT1 lampf ii synchrotron  
 NT1 lep storage rings  
 NT1 lusy  
 NT1 mura synchrotron  
 NT1 nimrod  
 NT1 nina  
 NT1 pakhra synchrotron  
 NT1 princeton synchrotron  
 NT1 saturne  
 NT1 saturne ii  
 NT1 serpukhov synchrotron  
 NT1 serpukhov tevatron  
 NT1 sesame storage ring  
 NT1 sis synchrotron  
 NT1 superconducting super collider  
 NT1 tokyo synchrotron  
 NT1 tomsk synchrotron  
 NT1 zgs  
 RT nsls  
 RT synchrocyclotrons

**syncrude**

1994-09-29

USE synthetic petroleum

**SYNERGISM**

RT biochemistry  
 RT biological effects

**SYNGAS PROCESS**

INIS: 2000-04-12; ETDE: 1981-08-04

\*BT1 waste processing  
 RT intermediate btu gas  
 RT materials recovery  
 RT pyrolysis

**synovia**

USE bone joints

**synroc**

INIS: 1981-02-27; ETDE: 1981-03-13

USE synthetic rocks

**SYNROC PROCESS**

INIS: 1981-11-27; ETDE: 1980-03-29

RT hollandite  
 RT perovskite  
 RT radioactive waste processing  
 RT zirconolite

**syntans**

INIS: 2000-04-12; ETDE: 1976-09-28

Any class of synthetic tanning materials that are sulfonated condensation products of aromatic compounds with formaldehyde or some other aldehyde.

(Prior to April 1994, this was a valid ETDE descriptor.)

SEE aromatics  
 SEE sulfonic acids

**SYNTHANE PROCESS**

2000-04-12

U.S. Bureau of mines process for producing intermediate- or high-btu gas by reacting coal with steam and oxygen in a fluidized-bed gasifier at 1800 degrees F and 500-1000 psi pressure.

\*BT1 coal gasification  
 RT sng processes

**SYNTHESIS**

1999-03-09

UF formation (synthesis)

NT1 biosynthesis  
 NT2 post-translation modification  
 NT1 chemical preparation  
 NT1 hydrothermal synthesis  
 NT1 nucleosynthesis  
 NT2 heavy ion fusion reactions  
 NT2 thermonuclear reactions  
 NT3 controlled thermonuclear fusion  
 NT3 impact fusion  
 NT3 muon-catalyzed fusion  
 NT1 photosynthesis

**SYNTHESIS GAS**

1997-06-17

A mixture of gases specifically for use in a synthesis process.

\*BT1 gases  
 RT beacon process  
 RT htw process  
 RT methanation

**synthetases**

USE ligases

**synthetic-aperture radar**

INIS: 2000-04-12; ETDE: 1980-03-29

A radar system in which an aircraft moving along a straight path emits microwave pulses continuously at a frequency constant enough to be coherent for a period during which the aircraft may have traveled one kilometer; all echoes returned during the period can then be processed as if a single antenna as long as the flight path had been used.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE radar

**synthetic crude oil**

1994-09-29

USE synthetic petroleum

**SYNTHETIC FUELS**

No natural occurrence; produced by chemical techniques.

SF alternate fuels  
 SF m-gas process  
 \*BT1 alternative fuels  
 BT1 fuels  
 NT1 alcohol fuels  
 NT2 ethanol fuels  
 NT2 methanol fuels  
 NT1 hydrogen fuels  
 NT1 pyrolytic oils  
 NT1 synthetic petroleum  
 RT anaerobic digestion  
 RT autotrophs

RT biomass conversion plants  
 RT coal gasification  
 RT coal liquefaction  
 RT crg processes  
 RT fuel gas  
 RT gasohol program  
 RT mobil m-gasoline process  
 RT pyrolysis products  
 RT pyrolytic gases  
 RT refuse derived fuels  
 RT synthetic fuels corporation  
 RT synthetic fuels industry  
 RT synthetic fuels refineries  
 RT wood oils

**SYNTHETIC FUELS CORPORATION**

INIS: 2000-04-12; ETDE: 1980-07-23

Federally funded corporation to finance and expedite development of alternative energy sources.

UF energy security corporation  
 UF national energy security corporation  
 \*BT1 us organizations  
 RT energy policy  
 RT energy source development  
 RT renewable energy sources  
 RT synthetic fuels  
 RT us energy security act

**SYNTHETIC FUELS INDUSTRY**

INIS: 1992-07-16; ETDE: 1976-10-13

BT1 industry  
 RT synthetic fuels  
 RT synthetic fuels refineries

**SYNTHETIC FUELS REFINERIES**

INIS: 1992-07-16; ETDE: 1981-03-16

BT1 industrial plants  
 RT synthetic fuels  
 RT synthetic fuels industry

**synthetic lubricants**

INIS: 2000-04-12; ETDE: 1981-06-16

(Prior to March 1997 this was a valid ETDE descriptor.)

USE lubricants  
 USE synthetic materials

**SYNTHETIC MATERIALS**

INIS: 1999-03-04; ETDE: 1981-05-18

UF synthetic lubricants  
 BT1 materials  
 NT1 plastics  
 NT2 aramids  
 NT2 bakelite  
 NT2 formvar  
 NT2 lucite  
 NT2 mylar  
 NT2 nylon  
 NT2 perspex  
 NT2 plexiglas  
 NT2 polystyrene  
 NT2 polyurethanes  
 NT3 halthane  
 NT2 reinforced plastics  
 NT2 tedlar  
 NT2 teflon  
 NT2 thermoplastics  
 NT1 synthetic rocks  
 RT fibers  
 RT petrochemicals  
 RT rubbers

**synthetic natural gas**

2000-04-12

USE high btu gas

**SYNTHETIC PETROLEUM**

1994-09-29

UF syncrude  
 UF synthetic crude oil

\*BT1 synthetic fuels  
 RT coal liquids  
 RT mobil m-gasoline process  
 RT petroleum  
 RT shale oil

**SYNTHETIC ROCKS**

INIS: 1981-02-27; ETDE: 1981-03-13

UF synroc  
 BT1 rocks  
 \*BT1 synthetic materials

**synthine process**

2000-04-12  
 USE fischer-tropsch synthesis

**SYNTHOIL PROCESS**

2000-04-12  
 U.S. Bureau of mines process for converting coal to fuel oil by feeding coal slurry into a fixed-bed catalytic reactor with turbulently flowing hydrogen. The operating conditions are 2000 to 4000 psig and the coal is liquefied and desulfurized.

\*BT1 coal liquefaction

**SYNTHOL PROCESS**

2000-04-12  
 A reaction of carbon monoxide and hydrogen with an iron and sodium carbonate catalyst to produce synthetic gasoline.

\*BT1 coal liquefaction

**SYPHILIS**

\*BT1 bacterial diseases  
 RT spirochaetes  
 RT urogenital system diseases

**syracuse chemical comminution process**

INIS: 2000-04-12; ETDE: 1982-07-27  
 The process is based on the phenomenon that certain low molecular weight compounds, such as anhydrous ammonia, fracture coal along its natural macerol boundaries and mineral matter grain boundaries.  
 (Prior to March 1994, this was a valid ETDE descriptor.)

SEE coal preparation  
 SEE desulfurization

**SYRIA**

BT1 arab countries  
 BT1 asia  
 BT1 developing countries  
 BT1 middle east  
 RT euphrates river  
 RT oapec

**syrian hamster**

USE hamsters

**syrian miniature neutron source reactor**

2004-03-15  
 USE srr-1 reactor

**SYRIAN ORGANIZATIONS**

2004-03-31  
 BT1 national organizations

**syrups**

INIS: 2000-04-12; ETDE: 1985-03-12  
 USE molasses

**SYSTEM FAILURE ANALYSIS**

Techniques for analysing the events leading to, or following from, a potential, or actual, system failure.

SF failure propagation  
 BT1 systems analysis  
 NT1 failure mode analysis

NT1 fault tree analysis  
 RT mathematical logic

**systeme accerateur rhone-alpes**

INIS: 1993-11-09; ETDE: 2002-06-13  
 USE sara cyclotron

**SYSTEMS ANALYSIS**

1975-11-11  
 Used in the fields of technology research and management for problems such as the calculation of failure probabilities and for reliability studies of systems and components.

NT1 system failure analysis  
 NT2 failure mode analysis  
 NT2 fault tree analysis  
 RT control systems  
 RT energy analysis  
 RT failures  
 RT man-machine systems  
 RT ncsr  
 RT parametric analysis  
 RT reactor protection systems  
 RT reactor safety  
 RT reliability  
 RT safety engineering  
 RT simulation  
 RT statistical models  
 RT statistics

**SZILARD-CHALMERS REACTION**

\*BT1 hot atom chemistry

**SZR TYPE REACTORS**

UF sodium cooled zirconium hydride moderated reactors  
 \*BT1 hydride moderated reactors  
 \*BT1 liquid metal cooled reactors  
 NT1 knk-2 reactor  
 NT1 knk reactor  
 RT hydride moderators  
 RT power reactors

**T-10 TOKAMAK**

INIS: 1983-10-14; ETDE: 1983-11-09  
 \*BT1 tokamak devices

**T-14 TOKAMAK**

1993-08-09  
 UF tsp tokamak  
 \*BT1 tokamak devices

**T-15 TOKAMAK**

INIS: 1984-06-21; ETDE: 1984-07-10  
 \*BT1 tokamak devices

**t-2200 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE rho3-2250 mesons

**T-7 TOKAMAK**

INIS: 1983-10-14; ETDE: 1983-11-09  
 \*BT1 tokamak devices

**T ANTIQUARKS**

2007-06-26  
 \*BT1 antiquarks  
 \*BT1 t quarks

**T CHANNEL**

RT mandelstam representation  
 RT particle interactions  
 RT s channel  
 RT u channel

**T CODES**

BT1 computer codes

**T INVARIANCE**

UF time-reversal invariance  
 BT1 invariance principles

NT1 detailed balance principle

**t matrix**

USE s matrix

**T QUARKS**

INIS: 1995-09-14; ETDE: 1995-10-03  
 UF top quarks  
 \*BT1 quarks  
 \*BT1 top particles  
 NT1 t antiquarks  
 RT toponium

**T TAURI STARS**

\*BT1 eruptive variable stars

**t2ehp**

INIS: 2000-04-12; ETDE: 1982-12-01  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE phosphoric acid esters

**t2k experiment**

2016-12-12  
 SEE super-kamiokande neutrino detector

**t3 hormone**

INIS: 2000-04-12; ETDE: 1975-09-11  
 USE triiodothyronine

**T3 PROCESS**

INIS: 2000-04-12; ETDE: 1982-08-24  
 Semi-continuous surface oil shale retorting process based on N-T-U batch process with added improvements.  
 RT oil shales  
 RT retorting

**t4 hormone**

INIS: 2000-04-12; ETDE: 1975-09-11  
 USE thyroxine

**TABAKIN POTENTIAL**

BT1 potentials  
 RT nuclear potential  
 RT nucleon-nucleon potential  
 RT nucleons

**TABLE MOUNTAIN AREA**

2000-04-12  
 \*BT1 south dakota

**tables**

2000-04-12  
 (Prior to December 1991 this was a valid ETDE descriptor.)  
 SEE data

**TACHYONS**

Hypothesized particles that travel faster than the velocity of light; they have an imaginary rest mass.  
 \*BT1 postulated particles

**tadpoles**

USE amphibians  
 USE larvae

**TAGGED PHOTON METHOD**

\*BT1 coincidence methods  
 RT bremsstrahlung  
 RT photons  
 RT polarization

**TAIL ELECTRONS**

1994-02-28  
 Electrons that are not runaway but are in the high-energy tail of the kinetic energy distribution.  
 UF energetic electrons  
 UF supra-thermal electrons  
 \*BT1 electrons  
 RT distribution functions

- RT non-equilibrium plasma  
 RT runaway electrons  
 RT tail ions

**TAIL IONS**

1994-02-28

Ions in the high-energy tail of the kinetic energy distribution.

- UF energetic ions  
 UF supra-thermal ions  
 \*BT1 ions  
 RT distribution functions  
 RT non-equilibrium plasma  
 RT tail electrons

**TAILINGS**

INIS: 1981-02-27; ETDE: 1979-05-31

Solid residue separated in the preparation of various products.

- UF mine tailings  
 \*BT1 solid wastes  
 NT1 mill tailings  
 NT1 oil sand tailings  
 RT mineral wastes  
 RT ore processing  
 RT remedial action  
 RT separation processes

**TAIWAN**

1993-01-27

- UF formosa  
 \*BT1 china  
 BT1 islands

**TAIWAN RESEARCH REACTOR**

- \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**TAJIKISTAN**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

- SF soviet union  
 SF union of soviet socialist republics  
 SF ussr  
 BT1 asia

**TAKAHAMA-1 REACTOR**

KEPCO, Takahama, Fukui, Japan.

- UF kansai-3 reactor  
 \*BT1 pwr type reactors

**TAKAHAMA-2 REACTOR**

KEPCO, Takahama, Fukui, Japan.

- UF kansai-4 reactor  
 \*BT1 pwr type reactors

**TAKAHAMA-3 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04

KEPCO, Takahama, Fukui, Japan.

- \*BT1 pwr type reactors

**TAKAHAMA-4 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04

KEPCO, Takahama, Fukui, Japan.

- \*BT1 pwr type reactors

**TAKAHAX PROCESS**

2000-04-12

Process for removal of up to 99.9% of hydrogen sulfide from gas streams particularly those with low initial hydrogen sulfide concentration and/or high carbon dioxide/hydrogen sulfide ratios.

- \*BT1 desulfurization

**TAKENOYU GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1977-08-09

- BT1 geothermal fields  
 RT japan

**TAKINOUE GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1978-04-27

- BT1 geothermal fields  
 RT hachimantai  
 RT japan

**TALC**

- \*BT1 silicate minerals  
 RT magnesium silicates

**TALL OIL**

INIS: 1999-05-03; ETDE: 1980-11-08

A yellow-black, malodorous, resinous admixture derived from wood pulping waste liquors. It is used in lubricants and greases.

- \*BT1 oils

**TALMI INTEGRALS**

- BT1 integrals  
 RT shell models

**TALSPEAK PROCESS**

INIS: 1979-01-18; ETDE: 1978-08-07

- \*BT1 reprocessing  
 RT solvent extraction

**tam**

INIS: 1981-05-11; ETDE: 1981-06-13

- USE tamoxifen

**TAMM-DANCOFF METHOD**

- BT1 calculation methods  
 RT boson expansion  
 RT quantum mechanics

**tammuz-1 reactor**

INIS: 1985-06-07; ETDE: 1985-07-18

- USE tz1 reactor

**tammuz-2 reactor**

INIS: 1985-06-07; ETDE: 1985-07-18

- USE tz2 reactor

**TAMOXIFEN**

INIS: 1981-05-11; ETDE: 1981-06-13

- UF tam  
 \*BT1 organic nitrogen compounds  
 RT estrogens  
 RT receptors

**tan (triacetoneamine-n-oxyl)**

(Prior to July 1985 this was a valid ETDE descriptor.)

- USE triacetoneamine-n-oxyl

**TANDEM ELECTROSTATIC ACCELERATORS**

INIS: 1996-07-18; ETDE: 1979-08-09

(Prior to February 1979 this information was indexed to VAN DE GRAAFF ACCELERATORS.)

- UF learn tandem accelerator  
 \*BT1 electrostatic accelerators  
 NT1 antares tandem accelerator  
 NT1 crnl mp tandem accelerator  
 NT1 jaeri tandem accelerator  
 NT1 orsay tandem accelerator  
 NT1 vivitron tandem accelerator  
 RT dynamitrons  
 RT van de graaff accelerators

**tandem mirror devices**

INIS: 2000-04-12; ETDE: 1981-04-17

- SEE tmr reactors  
 SEE tmx devices

**tandem mirror experiment at uclll**

INIS: 1984-06-21; ETDE: 2002-06-13

- USE tmx devices

**tandem mirror type reactors**

INIS: 1981-07-06; ETDE: 1981-08-04

- USE tmr reactors

**TANDEM MIRRORS**

1983-09-06

(Prior to September 1983 this concept in ETDE was indexed to TMX DEVICES.)

- \*BT1 magnetic mirrors  
 NT1 gamma 10 devices  
 NT1 phaedrus mirror devices  
 NT1 tara devices  
 NT1 tmx devices  
 RT tlm configurations  
 RT tmr reactors

**TANK CIRCUITS**

- BT1 electronic circuits  
 RT stored energy

**tank farms**

INIS: 2000-04-12; ETDE: 1979-12-10

- USE storage facilities

**tank type critical assembly**

- USE tca reactor

**TANK TYPE REACTORS**

- UF br-3-vn reactor  
 BT1 reactors  
 NT1 aarr reactor  
 NT1 alrr reactor  
 NT1 aquilon reactor  
 NT1 atr reactor  
 NT1 atsr reactor  
 NT1 borax-1 reactor  
 NT1 borax-2 reactor  
 NT1 borax-3 reactor  
 NT1 borax-4 reactor  
 NT1 borax-5 reactor  
 NT1 br-02 reactor  
 NT1 br-1 reactor  
 NT1 br-2 reactor  
 NT1 cirus reactor  
 NT1 cp-3 reactor  
 NT1 cp-3m reactor  
 NT1 cp-5 reactor  
 NT1 dca reactor  
 NT1 dido reactor  
 NT1 diorit reactor  
 NT1 dmtr reactor  
 NT1 dr-3 reactor  
 NT1 eco reactor  
 NT1 el-1 reactor  
 NT1 el-2 reactor  
 NT1 el-3 reactor  
 NT1 eocr reactor  
 NT1 eole reactor  
 NT1 esada-vesr reactor  
 NT1 essor reactor  
 NT1 etr reactor  
 NT1 etrr-1 reactor  
 NT1 ewa reactor  
 NT1 ewg-1 reactor  
 NT1 fir-1 reactor  
 NT1 fr-2 reactor  
 NT1 frj-2 reactor  
 NT1 getr reactor  
 NT1 grenoble reactor  
 NT1 gtrr reactor  
 NT1 hbwr reactor  
 NT1 hfbr reactor  
 NT1 hfir reactor  
 NT1 hfr reactor  
 NT1 hifar reactor  
 NT1 hwctr reactor

NT1 igr reactor  
 NT1 irr-2 reactor  
 NT1 ispra-1 reactor  
 NT1 janus reactor  
 NT1 jeep-2 reactor  
 NT1 jmtr reactor  
 NT1 jrr-2 reactor  
 NT1 jrr-3 reactor  
 NT1 juno reactor  
 NT1 kamini reactor  
 NT1 litr reactor  
 NT1 loft reactor  
 NT1 lptr reactor  
 NT1 mir reactor  
 NT1 mitr reactor  
 NT1 mnsr type reactors  
   NT2 entc mnsr reactor  
   NT2 gharr-1 reactor  
   NT2 mnsr-ciae reactor  
   NT2 mnsr-sd reactor  
   NT2 mnsr-sh reactor  
   NT2 mnsr-sz reactor  
   NT2 nirr-1 reactor  
   NT2 parr-2 reactor  
   NT2 srr-1 reactor  
 NT1 mrr reactor  
 NT1 mtr reactor  
 NT1 murr reactor  
 NT1 nbsr reactor  
 NT1 netr reactor  
 NT1 nora reactor  
 NT1 nru reactor  
 NT1 nrx reactor  
 NT1 ntr reactor  
 NT1 nuclear furnace reactor  
 NT1 orphee reactor  
 NT1 orr reactor  
 NT1 osiris reactor  
 NT1 owr reactor  
 NT1 pbf reactor  
 NT1 pbr reactor  
 NT1 pegase reactor  
 NT1 pelinduna reactor  
 NT1 pik reactor  
 NT1 pluto reactor  
 NT1 prcf reactor  
 NT1 prr reactor  
 NT1 pse reactor  
 NT1 purnima-3 reactor  
 NT1 r-1 reactor  
 NT1 r-2 reactor  
 NT1 r-a reactor  
 NT1 ra-0 reactor  
 NT1 ra-2 reactor  
 NT1 ra-3 reactor  
 NT1 ra-4 reactor  
 NT1 ra-5 reactor  
 NT1 rake-2 reactor  
 NT1 rb-3 reactor  
 NT1 rospo reactor  
 NT1 rpt reactor  
 NT1 safari-1 reactor  
 NT1 sm-2 reactor  
 NT1 spert-1 reactor  
 NT1 spert-2 reactor  
 NT1 spert-3 reactor  
 NT1 sr-1 reactor  
 NT1 sr-oa reactor  
 NT1 taiwan research reactor  
 NT1 tca reactor  
 NT1 thermos reactor  
 NT1 triga-1-michigan reactor  
 NT1 tsr-1 reactor  
 NT1 wntr reactor  
 NT1 wr-1 reactor  
 NT1 wtr reactor  
 NT1 wwr type reactors  
   NT2 budapest training reactor  
   NT2 irt-1 libya reactor

NT2 irt-baghdad reactor  
 NT2 lvr-15 reactor  
 NT2 wwr-2 reactor  
 NT2 wwr-k-almaty reactor  
 NT2 wwr-m-kiev reactor  
 NT2 wwr-m-leningrad reactor  
 NT2 wwr-s-bucharest reactor  
 NT2 wwr-s-budapest reactor  
 NT2 wwr-s-cairo reactor  
 NT2 wwr-s-moscow reactor  
 NT2 wwr-s-prague reactor  
 NT2 wwr-s-tashkent reactor  
 NT2 wwr-sm rossendorf reactor  
 NT2 wwr-z reactor  
 NT1 zed-2 reactor  
 NT1 zeep reactor  
 NT1 zlfr reactor  
 NT1 zpr reactor

**TANKER SHIPS**

*INIS: 1992-05-22; ETDE: 1976-03-11*

UF crude carriers  
 UF supertankers  
 UF ulcc  
 UF vlcc  
 BT1 ships  
 RT deep water oil terminals  
 RT lightering  
 RT maritime transport  
 RT petroleum

**TANKS**

(From April 1975 till February 1997 ACCUMULATORS was a valid ETDE descriptor.)

UF accumulators  
 BT1 containers  
 NT1 floating roof tanks  
 NT1 hydraulic accumulators  
 RT hydrogen storage  
 RT liners  
 RT sensible heat storage

**TANNIC ACID**

UF digallic acid  
 UF gallotannic acid  
 UF tannin  
 \*BT1 carboxylic acids  
 \*BT1 polyphenols

**tannin**

USE tannic acid

**TANTALATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 oxygen compounds  
 \*BT1 tantalum compounds  
 RT tantalum oxides

**TANTALITE**

\*BT1 oxide minerals  
 RT iron oxides  
 RT manganese oxides  
 RT tantalum oxides

**TANTALUM**

\*BT1 refractory metals  
 \*BT1 transition elements

**TANTALUM 155**

*2008-01-16*

\*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 tantalum isotopes

**TANTALUM 156**

*INIS: 1989-07-19; ETDE: 1989-08-01*

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 tantalum isotopes

**TANTALUM 157**

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 tantalum isotopes

**TANTALUM 158**

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 tantalum isotopes

**TANTALUM 159**

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 tantalum isotopes

**TANTALUM 160**

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tantalum isotopes

**TANTALUM 161**

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tantalum isotopes

**TANTALUM 162**

*INIS: 1985-10-23; ETDE: 1985-11-13*

\*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tantalum isotopes

**TANTALUM 163**

*INIS: 1980-12-01; ETDE: 1980-08-25*

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tantalum isotopes

**TANTALUM 164**

*INIS: 1982-08-27; ETDE: 1982-09-10*

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tantalum isotopes

**TANTALUM 165**

*INIS: 1982-08-27; ETDE: 1982-09-10*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tantalum isotopes

**TANTALUM 166**

1975-08-22

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tantalum isotopes

**TANTALUM 167**

INIS: 1976-07-06; ETDE: 1976-04-19

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 tantalum isotopes

**TANTALUM 168**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM 169**

INIS: 1975-10-23; ETDE: 1975-08-19

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 tantalum isotopes

**TANTALUM 170**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM 171**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 tantalum isotopes

**TANTALUM 172**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM 173**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 tantalum isotopes

**TANTALUM 174**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM 175**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 tantalum isotopes

**TANTALUM 176**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM 177**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 tantalum isotopes

**TANTALUM 178**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM 179**

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 tantalum isotopes
- \*BT1 years living radioisotopes

**TANTALUM 179 TARGET**INIS: 1986-04-02; ETDE: 1985-12-11  
BT1 targets**TANTALUM 180**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM 180 TARGET**INIS: 1976-02-11; ETDE: 1976-07-12  
BT1 targets**TANTALUM 181**

- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- \*BT1 tantalum isotopes

**TANTALUM 181 TARGET**ETDE: 1976-07-09  
BT1 targets**TANTALUM 182**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM 182 TARGET**INIS: 1976-08-17; ETDE: 1976-11-01  
BT1 targets**TANTALUM 183**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 tantalum isotopes

**TANTALUM 184**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei

- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM 185**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 tantalum isotopes

**TANTALUM 186**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM 187**

2008-01-16

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 tantalum isotopes

**TANTALUM 188**

2008-01-16

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tantalum isotopes

**TANTALUM 189**

2008-01-16

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 tantalum isotopes

**TANTALUM 190**

2008-01-16

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM ADDITIONS**

1996-07-16

*Alloys containing not more than 1% Ta are listed here.*

- \*BT1 tantalum alloys
- NT1 alloy-n-10m

**TANTALUM ALLOY-T111**

1993-10-03

- \*BT1 alloy-ta90w8hf

**TANTALUM ALLOY-T222**

2000-04-12

- \*BT1 tantalum base alloys

**TANTALUM ALLOYS**

1995-02-27

*Alloys containing more than 1% Ta.*

- \*BT1 transition element alloys
- NT1 alloy-b-1900
- NT1 alloy-c-103
- NT1 alloy-mar-m246
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-s-816
- NT1 alloy-v-36
- NT1 carboloy
- NT1 tantalum additions
- NT2 alloy-n-10m
- NT1 tantalum base alloys
- NT2 alloy-ta90w8hf
- NT3 tantalum alloy-t111



**NT2** astar 811c  
**NT2** tantalum alloy-t222  
**TANTALUM ARSENIDES**  
 2013-05-15  
 \*BT1 arsenides  
 \*BT1 tantalum compounds  
**TANTALUM BASE ALLOYS**  
*SF alloy-ta-10v*  
 \*BT1 tantalum alloys  
**NT1** alloy-ta90w8hf  
**NT2** tantalum alloy-t111  
**NT1** astar 811c  
**NT1** tantalum alloy-t222  
**TANTALUM BORIDES**  
 \*BT1 borides  
 \*BT1 tantalum compounds  
**TANTALUM BROMIDES**  
 \*BT1 bromides  
 \*BT1 tantalum halides  
**TANTALUM CARBIDES**  
 \*BT1 carbides  
 \*BT1 tantalum compounds  
**TANTALUM CHLORIDES**  
 \*BT1 chlorides  
 \*BT1 tantalum halides  
**TANTALUM COMPLEXES**  
 \*BT1 transition element complexes  
**TANTALUM COMPOUNDS**  
 1997-06-19  
 BT1 refractory metal compounds  
 BT1 transition element compounds  
**NT1** tantalates  
**NT1** tantalum arsenides  
**NT1** tantalum borides  
**NT1** tantalum carbides  
**NT1** tantalum halides  
**NT2** tantalum bromides  
**NT2** tantalum chlorides  
**NT2** tantalum fluorides  
**NT2** tantalum iodides  
**NT1** tantalum hydrides  
**NT1** tantalum hydroxides  
**NT1** tantalum nitrides  
**NT1** tantalum oxides  
**NT1** tantalum phosphates  
**NT1** tantalum phosphides  
**NT1** tantalum selenides  
**NT1** tantalum silicates  
**NT1** tantalum silicides  
**NT1** tantalum sulfates  
**NT1** tantalum sulfides  
**NT1** tantalum tellurides  
**NT1** tantalum tungstates  
**TANTALUM FLUORIDES**  
 \*BT1 fluorides  
 \*BT1 tantalum halides  
**TANTALUM HALIDES**  
 2012-07-25  
 \*BT1 halides  
 \*BT1 tantalum compounds  
**NT1** tantalum bromides  
**NT1** tantalum chlorides  
**NT1** tantalum fluorides  
**NT1** tantalum iodides  
**TANTALUM HYDRIDES**  
 \*BT1 hydrides  
 \*BT1 tantalum compounds  
**TANTALUM HYDROXIDES**  
 \*BT1 hydroxides  
 \*BT1 tantalum compounds

**TANTALUM IODIDES**  
 \*BT1 iodides  
 \*BT1 tantalum halides  
**TANTALUM IONS**  
 \*BT1 ions  
**TANTALUM ISOTOPES**  
 1999-07-16  
 BT1 isotopes  
**NT1** tantalum 155  
**NT1** tantalum 156  
**NT1** tantalum 157  
**NT1** tantalum 158  
**NT1** tantalum 159  
**NT1** tantalum 160  
**NT1** tantalum 161  
**NT1** tantalum 162  
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**NT1** tantalum 181  
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**NT1** tantalum 185  
**NT1** tantalum 186  
**NT1** tantalum 187  
**NT1** tantalum 188  
**NT1** tantalum 189  
**NT1** tantalum 190  
**TANTALUM NITRIDES**  
 \*BT1 nitrides  
 \*BT1 tantalum compounds  
**TANTALUM ORES**  
 BT1 ores  
**TANTALUM OXIDES**  
 1996-06-28  
 \*BT1 oxides  
 \*BT1 tantalum compounds  
*RT oxide minerals*  
*RT tantalates*  
*RT tantalite*  
*RT tapiolite*  
**TANTALUM PHOSPHATES**  
 1984-01-18  
 \*BT1 phosphates  
 \*BT1 tantalum compounds  
**TANTALUM PHOSPHIDES**  
*INIS: 2000-04-12; ETDE: 1976-09-14*  
 \*BT1 phosphides  
 \*BT1 tantalum compounds  
**TANTALUM SELENIDES**  
 1976-02-05  
 \*BT1 selenides  
 \*BT1 tantalum compounds  
**TANTALUM SILICATES**  
*INIS: 2000-04-12; ETDE: 1979-03-27*  
 \*BT1 silicates  
 \*BT1 tantalum compounds

**TANTALUM SILICIDES**  
 1979-01-18  
 \*BT1 silicides  
 \*BT1 tantalum compounds  
**TANTALUM SULFATES**  
 1982-02-10  
 \*BT1 sulfates  
 \*BT1 tantalum compounds  
**TANTALUM SULFIDES**  
 \*BT1 sulfides  
 \*BT1 tantalum compounds  
**TANTALUM TELLURIDES**  
*INIS: 1980-07-24; ETDE: 1975-11-11*  
 \*BT1 tantalum compounds  
 \*BT1 tellurides  
**TANTALUM TUNGSTATES**  
*INIS: 1979-09-18; ETDE: 1976-04-19*  
 \*BT1 tantalum compounds  
 \*BT1 tungstates  
**tanzania (united republic of)**  
 2003-07-09  
 USE united republic of tanzania  
**tapeworms**  
 USE cestodes  
**TAPIOLITE**  
 2000-04-12  
 \*BT1 oxide minerals  
*RT iron oxides*  
*RT niobium oxides*  
*RT tantalum oxides*  
**TAPIRO REACTOR**  
*CNEN, Casaccia Center, Rome, Italy.*  
 \*BT1 fast reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
**TAR**  
 \*BT1 other organic compounds  
**NT1** bitumens  
**NT2** asphalts  
**NT2** coal tar  
**NT2** thucholite  
**NT1** shale tar  
*RT pitches*  
**tar sand oil**  
*INIS: 2000-04-12; ETDE: 1976-07-07*  
 USE bitumens  
**tar sand tailings**  
 1992-05-04  
 USE oil sand tailings  
**TAR SAND TRIANGLE DEPOSIT**  
*INIS: 2000-04-12; ETDE: 1977-05-07*  
 \*BT1 oil sand deposits  
*RT oil sands*  
*RT utah*  
**tar sands**  
 1975-09-01  
 USE oil sands  
**TARA DEVICES**  
*INIS: 1984-07-20; ETDE: 1984-02-23*  
*Tandem mirror experiment at MIT.*  
 \*BT1 tandem mirrors  
**TARAPUR-1 REACTOR**  
*Boisar, Maharashtra, India.*  
 \*BT1 bwr type reactors  
**TARAPUR-2 REACTOR**  
*Boisar, Maharashtra, India.*  
 \*BT1 bwr type reactors

**TARAPUR-3 REACTOR**

2005-07-22

*Nuclear Power Corporation of India Ltd.,  
Boisar, Maharashtra, India.*

- \*BT1 phwr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**TARAPUR-4 REACTOR**

2005-07-22

*Nuclear Power Corporation of India Ltd.,  
Boisar, Maharashtra, India.*

- \*BT1 phwr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**TARGET CHAMBERS**

- BT1 accelerator experimental facilities
- RT accelerators
- RT targets

**target holders***INIS: 1976-03-25; ETDE: 2002-06-13*

- USE sample holders

**TARGETS**

1998-01-29

- NT1 actinium 227 target
- NT1 aluminium 25 target
- NT1 aluminium 26 target
- NT1 aluminium 27 target
- NT1 aluminium 28 target
- NT1 americium 241 target
- NT1 americium 242 target
- NT1 americium 243 target
- NT1 antimony 118 target
- NT1 antimony 120 target
- NT1 antimony 121 target
- NT1 antimony 123 target
- NT1 antimony 127 target
- NT1 argon 36 target
- NT1 argon 37 target
- NT1 argon 38 target
- NT1 argon 40 target
- NT1 arsenic 75 target
- NT1 astatine 212 target
- NT1 barium 127 target
- NT1 barium 130 target
- NT1 barium 134 target
- NT1 barium 135 target
- NT1 barium 136 target
- NT1 barium 137 target
- NT1 barium 138 target
- NT1 barium 139 target
- NT1 berkelium 249 target
- NT1 beryllium 10 target
- NT1 beryllium 11 target
- NT1 beryllium 6 target
- NT1 beryllium 7 target
- NT1 beryllium 8 target
- NT1 beryllium 9 target
- NT1 bismuth 207 target
- NT1 bismuth 208 target
- NT1 bismuth 209 target
- NT1 bismuth 210 target
- NT1 boron 10 target
- NT1 boron 11 target
- NT1 boron 12 target
- NT1 boron 13 target
- NT1 boron 8 target
- NT1 bromine 71 target
- NT1 bromine 76 target
- NT1 bromine 79 target
- NT1 bromine 81 target
- NT1 cadmium 106 target
- NT1 cadmium 108 target
- NT1 cadmium 109 target
- NT1 cadmium 110 target
- NT1 cadmium 111 target
- NT1 cadmium 112 target

- NT1 cadmium 113 target
- NT1 cadmium 114 target
- NT1 cadmium 116 target
- NT1 calcium 39 target
- NT1 calcium 40 target
- NT1 calcium 41 target
- NT1 calcium 42 target
- NT1 calcium 43 target
- NT1 calcium 44 target
- NT1 calcium 46 target
- NT1 calcium 48 target
- NT1 calcium 49 target
- NT1 californium 244 target
- NT1 californium 246 target
- NT1 californium 249 target
- NT1 californium 250 target
- NT1 californium 251 target
- NT1 californium 252 target
- NT1 californium 254 target
- NT1 carbon 11 target
- NT1 carbon 12 target
- NT1 carbon 13 target
- NT1 carbon 14 target
- NT1 carbon 16 target
- NT1 cerium 136 target
- NT1 cerium 138 target
- NT1 cerium 140 target
- NT1 cerium 141 target
- NT1 cerium 142 target
- NT1 cerium 144 target
- NT1 cesium 131 target
- NT1 cesium 132 target
- NT1 cesium 133 target
- NT1 cesium 134 target
- NT1 cesium 135 target
- NT1 cesium 137 target
- NT1 chlorine 35 target
- NT1 chlorine 36 target
- NT1 chlorine 37 target
- NT1 chromium 50 target
- NT1 chromium 52 target
- NT1 chromium 53 target
- NT1 chromium 54 target
- NT1 chromium 56 target
- NT1 cobalt 56 target
- NT1 cobalt 57 target
- NT1 cobalt 58 target
- NT1 cobalt 59 target
- NT1 cobalt 60 target
- NT1 copper 61 target
- NT1 copper 63 target
- NT1 copper 64 target
- NT1 copper 65 target
- NT1 curium 242 target
- NT1 curium 243 target
- NT1 curium 244 target
- NT1 curium 245 target
- NT1 curium 246 target
- NT1 curium 247 target
- NT1 curium 248 target
- NT1 curium 249 target
- NT1 curium 250 target
- NT1 deuterium target
- NT1 dysprosium 154 target
- NT1 dysprosium 156 target
- NT1 dysprosium 158 target
- NT1 dysprosium 160 target
- NT1 dysprosium 161 target
- NT1 dysprosium 162 target
- NT1 dysprosium 163 target
- NT1 dysprosium 164 target
- NT1 dysprosium 165 target
- NT1 einsteinium 253 target
- NT1 einsteinium 254 target
- NT1 einsteinium 255 target
- NT1 electron beam targets
- NT1 erbium 162 target
- NT1 erbium 163 target
- NT1 erbium 164 target

- NT1 erbium 165 target
- NT1 erbium 166 target
- NT1 erbium 167 target
- NT1 erbium 168 target
- NT1 erbium 170 target
- NT1 europium 151 target
- NT1 europium 152 target
- NT1 europium 153 target
- NT1 europium 154 target
- NT1 europium 155 target
- NT1 fermium 253 target
- NT1 fermium 254 target
- NT1 fermium 255 target
- NT1 fermium 256 target
- NT1 fermium 257 target
- NT1 fermium 258 target
- NT1 fermium 259 target
- NT1 fermium 260 target
- NT1 fluorine 16 target
- NT1 fluorine 17 target
- NT1 fluorine 18 target
- NT1 fluorine 19 target
- NT1 gadolinium 142 target
- NT1 gadolinium 148 target
- NT1 gadolinium 152 target
- NT1 gadolinium 154 target
- NT1 gadolinium 155 target
- NT1 gadolinium 156 target
- NT1 gadolinium 157 target
- NT1 gadolinium 158 target
- NT1 gadolinium 159 target
- NT1 gadolinium 160 target
- NT1 gallium 65 target
- NT1 gallium 67 target
- NT1 gallium 69 target
- NT1 gallium 71 target
- NT1 germanium 70 target
- NT1 germanium 71 target
- NT1 germanium 72 target
- NT1 germanium 73 target
- NT1 germanium 74 target
- NT1 germanium 75 target
- NT1 germanium 76 target
- NT1 germanium 86 target
- NT1 gold 187 target
- NT1 gold 193 target
- NT1 gold 194 target
- NT1 gold 195 target
- NT1 gold 196 target
- NT1 gold 197 target
- NT1 gold 198 target
- NT1 gold 199 target
- NT1 hafnium 174 target
- NT1 hafnium 176 target
- NT1 hafnium 177 target
- NT1 hafnium 178 target
- NT1 hafnium 179 target
- NT1 hafnium 180 target
- NT1 helium 3 target
- NT1 helium 4 target
- NT1 helium 6 target
- NT1 holmium 165 target
- NT1 hydrogen 1 target
- NT1 indium 110 target
- NT1 indium 113 target
- NT1 indium 115 target
- NT1 indium 127 target
- NT1 iodine 127 target
- NT1 iodine 128 target
- NT1 iodine 129 target
- NT1 ion beam targets
- NT1 iridium 189 target
- NT1 iridium 190 target
- NT1 iridium 191 target
- NT1 iridium 193 target
- NT1 iridium 194 target
- NT1 iron 54 target
- NT1 iron 55 target
- NT1 iron 56 target

NT1	iron 57 target	NT1	nickel 62 target	NT1	ruthenium 100 target
NT1	iron 58 target	NT1	nickel 63 target	NT1	ruthenium 101 target
NT1	krypton 76 target	NT1	nickel 64 target	NT1	ruthenium 102 target
NT1	krypton 77 target	NT1	niobium 91 target	NT1	ruthenium 103 target
NT1	krypton 78 target	NT1	niobium 92 target	NT1	ruthenium 104 target
NT1	krypton 80 target	NT1	niobium 93 target	NT1	ruthenium 96 target
NT1	krypton 82 target	NT1	niobium 94 target	NT1	ruthenium 98 target
NT1	krypton 83 target	NT1	niobium 95 target	NT1	ruthenium 99 target
NT1	krypton 84 target	NT1	niobium 96 target	NT1	samarium 144 target
NT1	krypton 85 target	NT1	nitrogen 12 target	NT1	samarium 145 target
NT1	krypton 86 target	NT1	nitrogen 13 target	NT1	samarium 146 target
NT1	lanthanum 139 target	NT1	nitrogen 14 target	NT1	samarium 147 target
NT1	laser targets	NT1	nitrogen 15 target	NT1	samarium 148 target
NT1	lead 200 target	NT1	nitrogen 16 target	NT1	samarium 149 target
NT1	lead 202 target	NT1	osmium 184 target	NT1	samarium 150 target
NT1	lead 204 target	NT1	osmium 186 target	NT1	samarium 151 target
NT1	lead 205 target	NT1	osmium 187 target	NT1	samarium 152 target
NT1	lead 206 target	NT1	osmium 188 target	NT1	samarium 154 target
NT1	lead 207 target	NT1	osmium 189 target	NT1	scandium 45 target
NT1	lead 208 target	NT1	osmium 190 target	NT1	scandium 47 target
NT1	lead 209 target	NT1	osmium 191 target	NT1	selenium 72 target
NT1	lead 210 target	NT1	osmium 192 target	NT1	selenium 74 target
NT1	lithium 11 target	NT1	osmium 193 target	NT1	selenium 75 target
NT1	lithium 6 target	NT1	oxygen 14 target	NT1	selenium 76 target
NT1	lithium 7 target	NT1	oxygen 15 target	NT1	selenium 77 target
NT1	lithium 8 target	NT1	oxygen 16 target	NT1	selenium 78 target
NT1	lithium 9 target	NT1	oxygen 17 target	NT1	selenium 80 target
NT1	lutetium 174 target	NT1	oxygen 18 target	NT1	selenium 82 target
NT1	lutetium 175 target	NT1	palladium 102 target	NT1	silicon 28 target
NT1	lutetium 176 target	NT1	palladium 104 target	NT1	silicon 29 target
NT1	magnesium 23 target	NT1	palladium 105 target	NT1	silicon 30 target
NT1	magnesium 24 target	NT1	palladium 106 target	NT1	silicon 32 target
NT1	magnesium 25 target	NT1	palladium 107 target	NT1	silicon 34 target
NT1	magnesium 26 target	NT1	palladium 108 target	NT1	silver 106 target
NT1	magnesium 27 target	NT1	palladium 110 target	NT1	silver 107 target
NT1	manganese 51 target	NT1	palladium 118 target	NT1	silver 108 target
NT1	manganese 52 target	NT1	phosphorus 30 target	NT1	silver 109 target
NT1	manganese 53 target	NT1	phosphorus 31 target	NT1	silver 110 target
NT1	manganese 54 target	NT1	phosphorus 32 target	NT1	sodium 21 target
NT1	manganese 55 target	NT1	platinum 190 target	NT1	sodium 22 target
NT1	mercury 193 target	NT1	platinum 192 target	NT1	sodium 23 target
NT1	mercury 196 target	NT1	platinum 194 target	NT1	strontium 84 target
NT1	mercury 198 target	NT1	platinum 195 target	NT1	strontium 86 target
NT1	mercury 199 target	NT1	platinum 196 target	NT1	strontium 87 target
NT1	mercury 200 target	NT1	platinum 198 target	NT1	strontium 88 target
NT1	mercury 201 target	NT1	plutonium 235 target	NT1	strontium 90 target
NT1	mercury 202 target	NT1	plutonium 236 target	NT1	sulfur 32 target
NT1	mercury 204 target	NT1	plutonium 237 target	NT1	sulfur 33 target
NT1	mercury 206 target	NT1	plutonium 238 target	NT1	sulfur 34 target
NT1	molybdenum 100 target	NT1	plutonium 239 target	NT1	sulfur 36 target
NT1	molybdenum 92 target	NT1	plutonium 240 target	NT1	tantalum 179 target
NT1	molybdenum 94 target	NT1	plutonium 241 target	NT1	tantalum 180 target
NT1	molybdenum 95 target	NT1	plutonium 242 target	NT1	tantalum 181 target
NT1	molybdenum 96 target	NT1	plutonium 243 target	NT1	tantalum 182 target
NT1	molybdenum 97 target	NT1	plutonium 244 target	NT1	technetium 99 target
NT1	molybdenum 98 target	NT1	polarized targets	NT1	tellurium 119 target
NT1	neodymium 142 target	NT1	polonium 208 target	NT1	tellurium 120 target
NT1	neodymium 143 target	NT1	polonium 210 target	NT1	tellurium 122 target
NT1	neodymium 144 target	NT1	potassium 39 target	NT1	tellurium 123 target
NT1	neodymium 145 target	NT1	potassium 40 target	NT1	tellurium 124 target
NT1	neodymium 146 target	NT1	potassium 41 target	NT1	tellurium 125 target
NT1	neodymium 147 target	NT1	praseodymium 141 target	NT1	tellurium 126 target
NT1	neodymium 148 target	NT1	promethium 145 target	NT1	tellurium 128 target
NT1	neodymium 149 target	NT1	promethium 147 target	NT1	tellurium 130 target
NT1	neodymium 150 target	NT1	promethium 149 target	NT1	terbium 159 target
NT1	neon 20 target	NT1	protactinium 231 target	NT1	terbium 160 target
NT1	neon 21 target	NT1	protactinium 232 target	NT1	thallium 203 target
NT1	neon 22 target	NT1	protactinium 233 target	NT1	thallium 205 target
NT1	neptunium 232 target	NT1	radium 226 target	NT1	thallium 207 target
NT1	neptunium 236 target	NT1	rhenium 184 target	NT1	thallium 209 target
NT1	neptunium 237 target	NT1	rhenium 185 target	NT1	thorium 228 target
NT1	neptunium 238 target	NT1	rhenium 186 target	NT1	thorium 229 target
NT1	neptunium 239 target	NT1	rhenium 187 target	NT1	thorium 230 target
NT1	nickel 56 target	NT1	rhodium 103 target	NT1	thorium 231 target
NT1	nickel 57 target	NT1	rhodium 96 target	NT1	thorium 232 target
NT1	nickel 58 target	NT1	rubidium 84 target	NT1	thorium 233 target
NT1	nickel 59 target	NT1	rubidium 85 target	NT1	thorium 234 target
NT1	nickel 60 target	NT1	rubidium 87 target	NT1	thorium 238 target
NT1	nickel 61 target	NT1	rubidium 88 target	NT1	thorium 239 target

**NT1** thulium 169 target  
**NT1** thulium 171 target  
**NT1** tin 110 target  
**NT1** tin 112 target  
**NT1** tin 114 target  
**NT1** tin 115 target  
**NT1** tin 116 target  
**NT1** tin 117 target  
**NT1** tin 118 target  
**NT1** tin 119 target  
**NT1** tin 120 target  
**NT1** tin 122 target  
**NT1** tin 124 target  
**NT1** tin 125 target  
**NT1** tin 126 target  
**NT1** titanium 44 target  
**NT1** titanium 45 target  
**NT1** titanium 46 target  
**NT1** titanium 47 target  
**NT1** titanium 48 target  
**NT1** titanium 49 target  
**NT1** titanium 50 target  
**NT1** tritium target  
**NT1** tungsten 180 target  
**NT1** tungsten 182 target  
**NT1** tungsten 183 target  
**NT1** tungsten 184 target  
**NT1** tungsten 185 target  
**NT1** tungsten 186 target  
**NT1** uranium 232 target  
**NT1** uranium 233 target  
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**NT1** uranium 235 target  
**NT1** uranium 236 target  
**NT1** uranium 237 target  
**NT1** uranium 238 target  
**NT1** uranium 239 target  
**NT1** uranium 240 target  
**NT1** uranium 243 target  
**NT1** vanadium 48 target  
**NT1** vanadium 49 target  
**NT1** vanadium 50 target  
**NT1** vanadium 51 target  
**NT1** xenon 123 target  
**NT1** xenon 124 target  
**NT1** xenon 125 target  
**NT1** xenon 126 target  
**NT1** xenon 127 target  
**NT1** xenon 128 target  
**NT1** xenon 129 target  
**NT1** xenon 130 target  
**NT1** xenon 131 target  
**NT1** xenon 132 target  
**NT1** xenon 134 target  
**NT1** xenon 136 target  
**NT1** ytterbium 168 target  
**NT1** ytterbium 169 target  
**NT1** ytterbium 170 target  
**NT1** ytterbium 171 target  
**NT1** ytterbium 172 target  
**NT1** ytterbium 173 target  
**NT1** ytterbium 174 target  
**NT1** ytterbium 176 target  
**NT1** yttrium 87 target  
**NT1** yttrium 88 target  
**NT1** yttrium 89 target  
**NT1** zinc 64 target  
**NT1** zinc 65 target  
**NT1** zinc 66 target  
**NT1** zinc 67 target  
**NT1** zinc 68 target  
**NT1** zinc 70 target  
**NT1** zirconium 90 target  
**NT1** zirconium 91 target  
**NT1** zirconium 92 target  
**NT1** zirconium 93 target  
**NT1** zirconium 94 target  
**NT1** zirconium 96 target  
**RT** nuclear reactions

**RT** polarization-asymmetry ratio  
**RT** positioning  
**RT** scattering  
**RT** target chambers

**TARIFFS**

*INIS: 1992-02-23; ETDE: 1978-06-14*  
*Duties imposed by a government on imported or exported goods.*  
**UF** import taxes  
**RT** exports  
**RT** imports  
**RT** taxes  
**RT** trade

**TARTARIC ACID**

**UF** dihydroxysuccinic acid  
**\*BT1** hydroxy acids  
**RT** rochelle salt

**tartaric acid esters**

1996-07-23  
 (Until July 1996 this was a valid descriptor.)  
**USE** carboxylic acid esters

**TARTRATES**

**BT1** carboxylic acid salts  
**NT1** rochelle salt

**tashkent wwr-s reactor**

*INIS: 1984-06-21; ETDE: 2002-06-13*  
**USE** wwr-s-tashkent reactor

**TASK SCHEDULING**

*INIS: 1992-04-02; ETDE: 1985-01-28*  
*The routing of data within a computer.*  
**\*BT1** data processing  
**RT** array processors  
**RT** executive codes  
**RT** parallel processing

**TASMAN SEA**

*INIS: 2000-04-12; ETDE: 1977-04-12*  
**\*BT1** pacific ocean  
**RT** australia  
**RT** new zealand  
**RT** tasmania

**TASMANIA**

**\*BT1** australia  
**BT1** islands  
**RT** indian ocean  
**RT** pacific ocean  
**RT** tasman sea

**TASTE BUDS**

**\*BT1** sense organs  
**RT** flavor

**taste particles**

*INIS: 1978-08-14; ETDE: 1978-10-19*  
*Flavor of quarks proposed in certain U(3) gauge theories of electroweak interactions.*  
 (This was a valid descriptor from August 1978 to March 2006.)  
**SEE** quarks

**TATARIAN REACTOR**

*INIS: 1990-01-29; ETDE: 1990-02-13*  
*Tatar, Russian Federation.*  
**\*BT1** wwer type reactors

**TATB**

*INIS: 2000-04-12; ETDE: 1975-08-19*  
**UF** 1,3,5-triamino-2,4,6-trinitrobenzene  
**\*BT1** chemical explosives

**tau leptons**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
**USE** tau particles

**TAU NEUTRINOS**

*INIS: 1978-08-30; ETDE: 1978-02-14*  
**\*BT1** heavy leptons  
**\*BT1** neutrinos

**TAU PARTICLES**

*INIS: 1978-07-03; ETDE: 1978-02-14*  
**UF** tau leptons  
**UF** tauons  
**\*BT1** heavy leptons  
**RT** electron-muon-tau universality

**tauons**

*INIS: 1978-07-03; ETDE: 1978-08-08*  
**USE** tau particles

**TAURINE**

**UF** aminoethanesulfonic acid  
**\*BT1** amines  
**\*BT1** sulfonic acids

**tautomerism**

*INIS: 2000-04-12; ETDE: 1980-03-04*  
**USE** isomerization

**TAX CREDITS**

*INIS: 2000-07-28; ETDE: 1980-10-27*  
*Forms of tax cancellation or exemption. Taxes are levied but remitted in whole or in part, usually on the basis of other taxes paid.*  
 (Prior to November 1980, this concept in ETDE was indexed by FINANCIAL INCENTIVES.)

**UF** tax offsets  
**BT1** financial incentives  
**RT** charges  
**RT** economics  
**RT** taxes

**TAX LAWS**

*INIS: 1990-12-15; ETDE: 1978-03-08*  
 (Prior to December 1990, this descriptor was spelled TAX LAW.)  
**BT1** laws

**tax offsets**

*INIS: 2000-04-12; ETDE: 1984-03-06*  
**USE** tax credits

**TAXES**

1997-06-19  
 (From November 1979 till March 1997 SURCHARGES was a valid ETDE descriptor.)

**SF** surcharges  
**NT1** emissions tax  
**NT1** severance tax  
**NT1** windfall profits tax  
**RT** charges  
**RT** economic policy  
**RT** economics  
**RT** financial incentives  
**RT** off-highway use  
**RT** on-highway use  
**RT** tariffs  
**RT** tax credits  
**RT** trade  
**RT** us depletion allowances  
**RT** us economic recovery tax act

**TAXICABS**

*INIS: 1992-02-18; ETDE: 1979-11-23*  
**BT1** vehicles  
**RT** automobiles  
**RT** occupants  
**RT** transportation sector  
**RT** transportation systems  
**RT** vans

**TAXONOMY**

1976-05-05

*The study of the general principles of classification.*

RT biology

**TBP**

UF tributyl phosphate

\*BT1 butyl phosphates

**tbpo (tributylphosphine oxide)**

ETDE: 2005-02-01

(Prior to January 2005 TBPO was a valid descriptor.)

USE tributylphosphine oxide

**TBR TOKAMAK**

1983-03-16

\*BT1 tokamak devices

**TCA REACTOR**

JAERI, Tokai, Ibaraki, Japan.

UF tank type critical assembly

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

\*BT1 zero power reactors

**TCA TOKAMAK**

INIS: 1984-04-04; ETDE: 1984-05-08

*Experimental tokamak at Centre de Recherches en Physique des Plasmas, Lausanne.*

UF lausanne tokamak

UF tokamak chauffage alfven

(switzerland)

\*BT1 tokamak devices

**TCABR TOKAMAK**

2004-07-09

*Tokamak Chauffage Alfven, Institute of Physics, University of Sao Paulo, Brazil.*

UF tokamak chauffage alfven (brazil)

\*BT1 tokamak devices

**TCP**

UF tricresyl phosphates

\*BT1 phosphoric acid esters

**tct**

INIS: 1976-03-02; ETDE: 1975-11-26

USE two-component torus

**TCV TOKAMAK**

INIS: 1993-10-01; ETDE: 1993-11-08

*Lausanne, Switzerland.*

\*BT1 tokamak devices

**TD-NICKEL***Ni-ThO<sub>2</sub> dispersion.*

UF nickel-thorium oxide dispersions

\*BT1 cermet

BT1 dispersions

RT nickel

RT thorium oxides

**TD-NICKEL CHROMIUM***Ni-Cr-ThO<sub>2</sub> dispersion.*

UF nickel chromium-td

\*BT1 cermet

\*BT1 chromium alloys

BT1 dispersions

\*BT1 nickel base alloys

RT thorium oxides

**TD-NMR**

1998-09-23

*Time Domain Nuclear Magnetic Resonance.*

\*BT1 nuclear magnetic resonance

**TDA**

UF decylamine-tris

\*BT1 amines

BT1 chelating agents

**tea**

USE beverages

**TEA LEAVES**

BT1 leaves

RT beverages

RT tea plants

**TEA PLANTS**

INIS: 1980-07-24; ETDE: 1980-08-12

UF camellia sinensis

\*BT1 magnoliopsida

RT beverages

RT tea leaves

**teab**

1996-10-23

*Tetraethylammonium bromide.*

(Until October 1996 this was a valid descriptor.)

USE bromides

USE quaternary ammonium compounds

**teaching**

INIS: 1977-03-01; ETDE: 2002-06-13

USE education

**teaching facilities**

INIS: 1983-06-30; ETDE: 2002-06-13

USE educational facilities

**teak event**

1994-10-14

*A test made during project hardtack.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**teal oil**

USE sesame oil

**TEAPOT PROJECT**

RT nuclear weapons

**tear canals**

INIS: 1977-07-05; ETDE: 2002-06-13

USE lacrimal ducts

**TEARING INSTABILITY**

INIS: 1978-11-24; ETDE: 1978-09-11

\*BT1 plasma macroinstabilities

RT plasma disruption

**TECHA RIVER**

1996-06-26

\*BT1 rivers

RT russian federation

**TECHNETATES***Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 oxygen compounds

\*BT1 technetium compounds

RT technetium oxides

**TECHNETIUM**

UF masurium

\*BT1 refractory metals

\*BT1 transition elements

**TECHNETIUM 100**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 101**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 102**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 103**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 104**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 105**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 106**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 107**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 108**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 109**

1976-07-06

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 110**

1976-07-06

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 111**

INIS: 1988-11-16; ETDE: 1988-12-02

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 112***INIS: 1990-12-05; ETDE: 1991-01-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 113***1998-10-21*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 114***2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 115***2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 116***2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 117***2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 118***2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 85***2008-01-16*

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 86***2008-01-16*

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 87***2008-01-16*

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 88***1996-05-14*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 89***INIS: 1992-09-23; ETDE: 1981-03-16*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 90**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 91**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 92**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 93**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 94**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 95**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 96**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 97**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes

- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes
- \*BT1 years living radioisotopes

**TECHNETIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes
- \*BT1 years living radioisotopes

**TECHNETIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes
- \*BT1 years living radioisotopes

**TECHNETIUM 99 TARGET***INIS: 1975-10-23; ETDE: 1976-07-09*

BT1 targets

**TECHNETIUM ADDITIONS***Alloys containing not more than 1% Tc are listed here.*

- \*BT1 technetium alloys

**TECHNETIUM ALLOYS***1995-02-27**Alloys containing more than 1% Tc.*

- \*BT1 transition element alloys
- NT1 technetium additions
- NT1 technetium base alloys

**TECHNETIUM BASE ALLOYS**

- \*BT1 technetium alloys

**TECHNETIUM BROMIDES***1984-08-23*

- \*BT1 bromides
- \*BT1 technetium halides

**TECHNETIUM CARBIDES**

- \*BT1 carbides
- \*BT1 technetium compounds

**TECHNETIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 technetium halides

**TECHNETIUM COMPLEXES**

- \*BT1 transition element complexes

**TECHNETIUM COMPOUNDS**

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 pertechnetates
- NT1 technetates
- NT1 technetium carbides
- NT1 technetium halides
- NT2 technetium bromides
- NT2 technetium chlorides
- NT2 technetium fluorides
- NT2 technetium iodides
- NT1 technetium hydrides
- NT1 technetium oxides
- NT1 technetium phosphates
- NT1 technetium selenides
- NT1 technetium sulfides
- NT1 technetium tellurides

**TECHNETIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 technetium halides

**TECHNETIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 technetium compounds
- NT1 technetium bromides
- NT1 technetium chlorides
- NT1 technetium fluorides
- NT1 technetium iodides

**TECHNETIUM HYDRIDES**

INIS: 1983-03-14; ETDE: 1982-09-10

- \*BT1 hydrides
- \*BT1 technetium compounds

**TECHNETIUM IODIDES**

- \*BT1 iodides
- \*BT1 technetium halides

**TECHNETIUM IONS**

- \*BT1 ions

**TECHNETIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 technetium 100
- NT1 technetium 101
- NT1 technetium 102
- NT1 technetium 103
- NT1 technetium 104
- NT1 technetium 105
- NT1 technetium 106
- NT1 technetium 107
- NT1 technetium 108
- NT1 technetium 109
- NT1 technetium 110
- NT1 technetium 111
- NT1 technetium 112
- NT1 technetium 113
- NT1 technetium 114
- NT1 technetium 115
- NT1 technetium 116
- NT1 technetium 117
- NT1 technetium 118
- NT1 technetium 85
- NT1 technetium 86
- NT1 technetium 87
- NT1 technetium 88
- NT1 technetium 89
- NT1 technetium 90
- NT1 technetium 91
- NT1 technetium 92
- NT1 technetium 93
- NT1 technetium 94
- NT1 technetium 95
- NT1 technetium 96
- NT1 technetium 97
- NT1 technetium 98
- NT1 technetium 99

**TECHNETIUM OXIDES**

- \*BT1 oxides
- \*BT1 technetium compounds
- RT pertechnetates
- RT technetates

**TECHNETIUM PHOSPHATES**

INIS: 1981-03-10; ETDE: 1980-10-27

- \*BT1 phosphates
- \*BT1 technetium compounds

**TECHNETIUM SELENIDES**

1992-09-17

- \*BT1 selenides
- \*BT1 technetium compounds

**TECHNETIUM SULFIDES**

- \*BT1 sulfides
- \*BT1 technetium compounds

**TECHNETIUM TELLURIDES**

2000-04-12

(From January 1993 to February 2008  
TECHNETIUM COMPOUNDS +  
TELLURIDES was used for this concept.)

- \*BT1 technetium compounds
- \*BT1 tellurides

**technical information center**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to June 1994, this was a valid ETDE  
descriptor.)

- USE information centers
- USE us doe

**technical specifications**

- USE specifications

**technical writing**

INIS: 2000-04-12; ETDE: 1981-11-24

(Prior to June 1992 this was a valid ETDE  
descriptor.)

- SEE document types
- SEE information

**TECHNOLOGY ASSESSMENT**

INIS: 1991-08-16; ETDE: 1976-07-07

- RT appropriate technology
- RT best available technology
- RT delphi method
- RT feasibility studies
- RT industry

**technology development**

INIS: 1984-10-23; ETDE: 2002-06-13

- SEE commercialization

**TECHNOLOGY IMPACTS**

INIS: 1986-05-26; ETDE: 1983-08-25

- RT appropriate technology
- RT commercialization
- RT cost benefit analysis
- RT diversification
- RT economic impact
- RT economy
- RT industry
- RT social impact
- RT socio-economic factors
- RT technology transfer

**TECHNOLOGY TRANSFER**

1977-11-21

- UF spin-off
- UF transfer of knowledge
- RT commercialization
- RT developing countries
- RT dual-use technologies
- RT education
- RT industry
- RT information
- RT information dissemination
- RT international cooperation
- RT inventions
- RT nuclear engineering
- RT technology impacts
- RT us ota

**TECHNOLOGY UTILIZATION**

INIS: 1999-07-21; ETDE: 1993-08-31

(Prior to June 1992 this was a valid ETDE  
descriptor. From June 1992 to August 1993  
this concept in ETDE was indexed by  
COMMERCIALIZATION.)

- UF mission analysis
- RT appropriate technology
- RT best available technology
- RT commercialization
- RT developed countries
- RT feasibility studies
- RT industry

**TECTONICS**

A branch of geology dealing with the broad  
architecture of the upper part of the earth's  
crust, that is, the regional assembling of  
structural or deformational features, a study  
of their mutual relations, their origin, and  
their historical evolution.

- NT1 plate tectonics
- RT ground uplift
- RT metamorphism
- RT petrogenesis
- RT rocks

**TEDLAR**

INIS: 2000-04-12; ETDE: 1979-05-03

- \*BT1 fluorinated aliphatic hydrocarbons
- \*BT1 plastics
- \*BT1 polyvinyls

**teel oil**

- USE sesame oil

**TEETH**

- \*BT1 oral cavity
- RT bone tissues
- RT calcium
- RT caries
- RT dentin
- RT dentistry
- RT jaw

**TEFLON**

- \*BT1 plastics
- \*BT1 polytetrafluoroethylene

**teheran university research reactor**

INIS: 1993-11-09; ETDE: 2002-06-13

- USE utrr reactor

**TEHRAN NUCLEAR RESEARCH CENTRE**

INIS: 1976-10-07; ETDE: 1976-11-01

- UF nuclear research centre, tehran
- \*BT1 iranian organizations

**TEKTITES**

- UF australites
- UF billitonites
- UF moldavites
- UF obsidianites
- RT meteorites
- RT minerals

**tel (tetraethyl lead)**

ETDE: 2005-02-01

(Prior to January 2005 TEL was a valid  
descriptor.)

- USE tetraethyl lead

**TELANGIECTASIS**

- \*BT1 skin diseases
- \*BT1 vascular diseases
- RT blood vessels

**TELEMETRY**

- \*BT1 data transmission
- RT mwd systems

**TELEPHONES**

INIS: 1999-07-05; ETDE: 1976-08-24

- NT1 mobile phones
- RT communications
- RT data transmission
- RT public utilities

**TELESCOPE COUNTERS**

- RT coincidence circuits
- RT cosmic ray detection
- RT counting techniques
- RT hodoscopes
- RT radiation detectors

**TELESCOPES**

- NT1 pyrhelimeters
- NT1 radio telescopes
- RT borescopes
- RT mirrors
- RT optical systems

**teletherapy**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE radiotherapy

**TELEVISION**

- RT camera tubes
- RT communications
- RT radiation protection
- RT radio equipment
- RT remote viewing equipment
- RT television cameras
- RT video tapes
- RT x radiation

**TELEVISION CAMERAS**

INIS: 1992-05-22; ETDE: 1977-03-04

- BT1 cameras
- RT television
- RT vidicons

**TELLURATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 oxygen compounds
- BT1 tellurium compounds
- RT tellurium oxides

**TELLURIC ACID**

- \*BT1 inorganic acids
- BT1 oxygen compounds
- BT1 tellurium compounds

**TELLURIC SURVEYS**

INIS: 2000-04-12; ETDE: 1976-08-26

*Electrical surveys in which the earth's natural electric field is measured at two or more stations simultaneously and a quantitative estimate of the geoelectric section obtained thereby.*

- \*BT1 electrical surveys
- RT geothermal exploration

**TELLURIDES**

1997-06-19

- BT1 chalcogenides
- BT1 tellurium compounds
- NT1 aluminium tellurides
- NT1 americium tellurides
- NT1 antimony tellurides
- NT1 arsenic tellurides
- NT1 berkelium tellurides
- NT1 beryllium tellurides
- NT1 bismuth tellurides
- NT1 cadmium tellurides
- NT1 californium tellurides
- NT1 cerium tellurides
- NT1 cesium tellurides
- NT1 chromium tellurides
- NT1 cobalt tellurides
- NT1 copper tellurides
- NT1 curium tellurides
- NT1 dysprosium tellurides
- NT1 erbium tellurides
- NT1 europium tellurides
- NT1 gadolinium tellurides
- NT1 gallium tellurides
- NT1 germanium tellurides
- NT1 gold tellurides
- NT1 hafnium tellurides
- NT1 holmium tellurides
- NT1 indium tellurides
- NT1 iridium tellurides

- NT1 iron tellurides
- NT1 lanthanum tellurides
- NT1 lead tellurides
- NT1 lithium tellurides
- NT1 magnesium tellurides
- NT1 manganese tellurides
- NT1 mercury tellurides
- NT1 molybdenum tellurides
- NT1 neodymium tellurides
- NT1 neptunium tellurides
- NT1 nickel tellurides
- NT1 niobium tellurides
- NT1 palladium tellurides
- NT1 platinum tellurides
- NT1 plutonium tellurides
- NT1 potassium tellurides
- NT1 praseodymium tellurides
- NT1 rhenium tellurides
- NT1 rhodium tellurides
- NT1 rubidium tellurides
- NT1 ruthenium tellurides
- NT1 samarium tellurides
- NT1 selenium tellurides
- NT1 silicon tellurides
- NT1 silver tellurides
- NT1 sodium tellurides
- NT1 tantalum tellurides
- NT1 technetium tellurides
- NT1 terbium tellurides
- NT1 thallium tellurides
- NT1 thorium tellurides
- NT1 thulium tellurides
- NT1 tin tellurides
- NT1 titanium tellurides
- NT1 tungsten tellurides
- NT1 uranium tellurides
- NT1 vanadium tellurides
- NT1 ytterbium tellurides
- NT1 yttrium tellurides
- NT1 zinc tellurides
- NT1 zirconium tellurides
- RT intermetallic compounds
- RT oxytellurides
- RT tellurium alloys

**TELLURIUM**

- \*BT1 semimetals

**TELLURIUM 105**

2007-04-19

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 106**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 107**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 108**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 109**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 110**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 111**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 112**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 113**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 114**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 115**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 116**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 117**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 118**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes



**TELLURIUM 119**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 119 TARGET**

*INIS: 1975-09-01; ETDE: 1976-07-09*

- BT1 targets

**TELLURIUM 120**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 120 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**TELLURIUM 121**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 122**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 122 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**TELLURIUM 123**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes
- \*BT1 years living radioisotopes

**TELLURIUM 123 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**TELLURIUM 124**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 124 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**TELLURIUM 125**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 125 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**TELLURIUM 126**

- \*BT1 even-even nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 126 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**TELLURIUM 127**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 128**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 128 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**TELLURIUM 129**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 130**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 130 REACTIONS**

*INIS: 1980-12-01; ETDE: 1981-01-09*

- \*BT1 heavy ion reactions

**TELLURIUM 130 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**TELLURIUM 131**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes
- RT* radioisotope generators

**TELLURIUM 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 134**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 135**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 136**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 138**

*1976-03-17*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 139**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 140**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 141**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 142**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM ADDITIONS**

- \*BT1 tellurium alloys

**TELLURIUM ALLOYS**

*Alloys containing more than 1% Te.*

- BT1 alloys
- NT1 tellurium additions
- RT tellurides

**TELLURIUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1976-02-19*

- \*BT1 arsenides
- BT1 tellurium compounds

**TELLURIUM BROMIDES**

*1975-12-09*

- \*BT1 bromides
- \*BT1 tellurium halides

**TELLURIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 tellurium halides

**TELLURIUM COMPLEXES**

- BT1 complexes

**TELLURIUM COMPOUNDS**

1997-06-19

**NT1** oxytellurides  
**NT1** tellurates  
**NT1** telluric acid  
**NT1** tellurides  
**NT2** aluminium tellurides  
**NT2** americium tellurides  
**NT2** antimony tellurides  
**NT2** arsenic tellurides  
**NT2** berkelium tellurides  
**NT2** beryllium tellurides  
**NT2** bismuth tellurides  
**NT2** cadmium tellurides  
**NT2** californium tellurides  
**NT2** cerium tellurides  
**NT2** cesium tellurides  
**NT2** chromium tellurides  
**NT2** cobalt tellurides  
**NT2** copper tellurides  
**NT2** curium tellurides  
**NT2** dysprosium tellurides  
**NT2** erbium tellurides  
**NT2** europium tellurides  
**NT2** gadolinium tellurides  
**NT2** gallium tellurides  
**NT2** germanium tellurides  
**NT2** gold tellurides  
**NT2** hafnium tellurides  
**NT2** holmium tellurides  
**NT2** indium tellurides  
**NT2** iridium tellurides  
**NT2** iron tellurides  
**NT2** lanthanum tellurides  
**NT2** lead tellurides  
**NT2** lithium tellurides  
**NT2** magnesium tellurides  
**NT2** manganese tellurides  
**NT2** mercury tellurides  
**NT2** molybdenum tellurides  
**NT2** neodymium tellurides  
**NT2** neptunium tellurides  
**NT2** nickel tellurides  
**NT2** niobium tellurides  
**NT2** palladium tellurides  
**NT2** platinum tellurides  
**NT2** plutonium tellurides  
**NT2** potassium tellurides  
**NT2** praseodymium tellurides  
**NT2** rhenium tellurides  
**NT2** rhodium tellurides  
**NT2** rubidium tellurides  
**NT2** ruthenium tellurides  
**NT2** samarium tellurides  
**NT2** selenium tellurides  
**NT2** silicon tellurides  
**NT2** silver tellurides  
**NT2** sodium tellurides  
**NT2** tantalum tellurides  
**NT2** technetium tellurides  
**NT2** terbium tellurides  
**NT2** thallium tellurides  
**NT2** thorium tellurides  
**NT2** thulium tellurides  
**NT2** tin tellurides  
**NT2** titanium tellurides  
**NT2** tungsten tellurides  
**NT2** uranium tellurides  
**NT2** vanadium tellurides  
**NT2** ytterbium tellurides  
**NT2** yttrium tellurides  
**NT2** zinc tellurides  
**NT2** zirconium tellurides  
**NT1** tellurium arsenides  
**NT1** tellurium halides  
**NT2** tellurium bromides  
**NT2** tellurium chlorides  
**NT2** tellurium fluorides  
**NT2** tellurium iodides

**NT1** tellurium hydrides  
**NT1** tellurium hydroxides  
**NT1** tellurium nitrates  
**NT1** tellurium oxides  
**NT1** tellurium sulfides

**TELLURIUM FLUORIDES**

**\*BT1** fluorides  
**\*BT1** tellurium halides

**TELLURIUM HALIDES**

INIS: 1991-09-16; ETDE: 1975-10-01

**\*BT1** halides  
**BT1** tellurium compounds  
**NT1** tellurium bromides  
**NT1** tellurium chlorides  
**NT1** tellurium fluorides  
**NT1** tellurium iodides

**TELLURIUM HYDRIDES**

INIS: 1977-06-14; ETDE: 1977-01-10

**\*BT1** hydrides  
**BT1** tellurium compounds

**TELLURIUM HYDROXIDES**

INIS: 1978-02-23; ETDE: 1978-04-06

**\*BT1** hydroxides  
**BT1** tellurium compounds

**TELLURIUM IODIDES**

**\*BT1** iodides  
**\*BT1** tellurium halides

**TELLURIUM IONS****\*BT1** ions**TELLURIUM ISOTOPES**

1999-07-16

**BT1** isotopes  
**NT1** tellurium 105  
**NT1** tellurium 106  
**NT1** tellurium 107  
**NT1** tellurium 108  
**NT1** tellurium 109  
**NT1** tellurium 110  
**NT1** tellurium 111  
**NT1** tellurium 112  
**NT1** tellurium 113  
**NT1** tellurium 114  
**NT1** tellurium 115  
**NT1** tellurium 116  
**NT1** tellurium 117  
**NT1** tellurium 118  
**NT1** tellurium 119  
**NT1** tellurium 120  
**NT1** tellurium 121  
**NT1** tellurium 122  
**NT1** tellurium 123  
**NT1** tellurium 124  
**NT1** tellurium 125  
**NT1** tellurium 126  
**NT1** tellurium 127  
**NT1** tellurium 128  
**NT1** tellurium 129  
**NT1** tellurium 130  
**NT1** tellurium 131  
**NT1** tellurium 132  
**NT1** tellurium 133  
**NT1** tellurium 134  
**NT1** tellurium 135  
**NT1** tellurium 136  
**NT1** tellurium 137  
**NT1** tellurium 138  
**NT1** tellurium 139  
**NT1** tellurium 140  
**NT1** tellurium 141  
**NT1** tellurium 142

**TELLURIUM NITRATES**

INIS: 1978-05-19; ETDE: 1978-07-05

**\*BT1** nitrates  
**BT1** tellurium compounds

**TELLURIUM ORES****BT1** ores**TELLURIUM OXIDES**

**\*BT1** oxides  
**BT1** tellurium compounds  
*RT* moctezumite  
*RT* oxide minerals  
*RT* tellurates

**TELLURIUM SULFIDES**

**\*BT1** sulfides  
**BT1** tellurium compounds

**TELOMERES**

1995-01-27

*Specialized end portions of chromosomes.*

*RT* chromosomal aberrations  
*RT* chromosomes  
*RT* dna replication

**TELOMERIZATION****\*BT1** polymerization**telophase**

USE mitosis

**tem (microscopy)**

INIS: 1982-12-07; ETDE: 1979-01-30

USE transmission electron microscopy

**tem (triethylenemelamine)**

USE alkylating agents

**TEMELIN-1 REACTOR**

INIS: 1986-09-26; ETDE: 1988-02-09

**\*BT1** wwer type reactors**TEMELIN-2 REACTOR**

2003-03-10

**\*BT1** wwer type reactors**TEMPERATE ZONES**

INIS: 1993-03-25; ETDE: 1980-02-11

*Areas or regions between the Tropic of Cancer and the Arctic Circle or between the Tropic of Capricorn and the Antarctic Circle.*

*UF* zones (temperate)  
*RT* boreal regions  
*RT* climates

**temperature (0 k)**

2000-04-12

USE temperature zero k

**temperature (0000-0013 k)**

2000-04-12

USE temperature range 0000-0013 k

**temperature (0013-0065 k)**

2000-04-12

USE temperature range 0013-0065 k

**temperature (0065-0273 k)**

2000-04-12

USE temperature range 0065-0273 k

**temperature (0273-0400 k)**

2000-04-12

USE temperature range 0273-0400 k

**temperature (0400-1000 k)**

2000-04-12

USE temperature range 0400-1000 k

**temperature (1000-4000 k)**

2000-04-12

USE temperature range 1000-4000 k

**temperature (4000 k and above)**

2000-04-12

USE temperature range over 4000 k

**temperature (ambient)**

INIS: 2000-04-12; ETDE: 1976-05-17

USE ambient temperature

**temperature (atmospheric)**

INIS: 1993-07-06; ETDE: 2002-06-13

USE ambient temperature

**temperature (body)**

USE body temperature

**temperature (debye)**

USE debye temperature

**temperature (electron)**

USE electron temperature

**temperature (global)**

INIS: 1993-07-06; ETDE: 2002-06-13

USE ambient temperature

**temperature (ion)**

USE ion temperature

**temperature (neutron)**

USE neutron temperature

**temperature (nuclear)**

USE nuclear temperature

**temperature (photon)**

USE photon temperature

**temperature (proton)**

USE proton temperature

**temperature (transition)**

USE transition temperature

**TEMPERATURE COEFFICIENT**

BT1 reactivity coefficients

RT doppler coefficient

RT temperature dependence

**TEMPERATURE CONTROL**

1999-04-07

BT1 control

RT air conditioning

RT ambient temperature

RT building technology suite

RT cooling

RT heating

RT temperature measurement

RT temperature monitoring

RT thermal comfort

RT thermal insulation

RT thermostats

**TEMPERATURE DEPENDENCE**

UF heat effects

UF pyroelectricity

UF temperature effects

UF thermal effects

RT ambient temperature

RT bowing

RT temperature coefficient

RT temperature distribution

RT temperature range

RT thermal hydraulics

RT thermochemical diagrams

RT thermoelasticity

RT vernalization

**TEMPERATURE DISTRIBUTION**

1982-12-01

Coordinate with the descriptor for the appropriate temperature range.

(Prior to January 1983, the temperature range was coordinated with SPATIAL DISTRIBUTION.)

RT ambient temperature

RT isotherms

RT spatial distribution

RT temperature dependence

RT temperature gradients

RT thermal hydraulics

**temperature effects**

ETDE: 1975-10-28

(Prior to June 1993, this was a valid ETDE descriptor.)

USE temperature dependence

**TEMPERATURE GRADIENTS**

1986-05-26

Coordinate with the descriptor for the temperature range involved.

(Prior to June 1986 this concept was expressed with the aid of TEMPERATURE DISTRIBUTION or SPATIAL DISTRIBUTION.)

DISTRIBUTION or SPATIAL DISTRIBUTION.)

UF thermal gradients

NT1 geothermal gradients

RT ambient temperature

RT onsager relations

RT temperature distribution

RT thermocline

**TEMPERATURE INVERSIONS**

INIS: 1976-10-29; ETDE: 1976-12-16

Meteorological phenomena whereby warmer air layers at higher altitudes produce a closed stable air layer at lower altitudes.

UF atmospheric inversion

UF inversions (temperature)

UF thermal inversion

RT air pollution

RT earth atmosphere

RT meteorology

**TEMPERATURE LOGGING**

INIS: 2000-04-12; ETDE: 1977-11-29

Measurement of well temperature as a function of depth in order to ascertain the presence of anomalies.

BT1 well logging

RT temperature measurement

**TEMPERATURE MEASUREMENT**

RT ambient temperature

RT bolometers

RT calorimeters

RT calorimetry

RT degree days

RT geothermometers

RT geothermometry

RT isotherms

RT measuring instruments

RT noise thermometers

RT optical pyrometers

RT paleotemperature

RT pyrometers

RT reservoir temperature

RT temperature control

RT temperature logging

RT temperature monitoring

RT temperature surveys

RT thermocouples

RT thermography

RT thermometers

RT well temperature

**TEMPERATURE MONITORING**

BT1 monitoring

RT in core instruments

RT infrared thermography

RT reactor monitoring systems

RT temperature control

RT temperature measurement

**TEMPERATURE NOISE**

BT1 noise

RT cooling

RT transients

RT variations

**temperature programmed desorption**

2017-06-12

USE thermal desorption spectroscopy

**TEMPERATURE RANGE**

INIS: 1992-01-23; ETDE: 1992-02-10

NT1 temperature range 0000-0013 k

NT1 temperature range 0013-0065 k

NT1 temperature range 0065-0273 k

NT1 temperature range 0273-0400 k

NT1 temperature range 0400-1000 k

NT1 temperature range 1000-4000 k

NT1 temperature range over 4000 k

RT ambient temperature

RT temperature dependence

RT temperature zero k

**TEMPERATURE RANGE 0000-0013 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to ULTRALOW TEMPERATURE.)

UF milli k range

UF temperature (0000-0013 k)

UF ultralow temperature

BT1 temperature range

RT cryogenics

**TEMPERATURE RANGE 0013-0065 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to VERY LOW TEMPERATURE.)

UF temperature (0013-0065 k)

UF very low temperature

BT1 temperature range

RT cryogenics

**TEMPERATURE RANGE 0065-0273 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to LOW TEMPERATURE.)

UF low temperature

UF temperature (0065-0273 k)

BT1 temperature range

RT cryogenics

RT freezing out

**TEMPERATURE RANGE 0273-0400 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to MEDIUM TEMPERATURE.)

UF medium temperature

UF temperature (0273-0400 k)

BT1 temperature range

**TEMPERATURE RANGE 0400-1000 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to HIGH TEMPERATURE.)

UF high temperature

UF temperature (0400-1000 k)

BT1 temperature range

**TEMPERATURE RANGE 1000-4000 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to VERY HIGH TEMPERATURE.)

UF temperature (1000-4000 k)

UF very high temperature

BT1 temperature range

**TEMPERATURE RANGE OVER 4000 K**

INIS: 1992-07-03; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to ULTRAHIGH TEMPERATURE.)

UF temperature (4000 k and above)

UF ultrahigh temperature

BT1 temperature range

**TEMPERATURE SURVEYS**

INIS: 2000-01-21; ETDE: 1980-02-11

UF thermal surveys

\*BT1 geophysical surveys

RT geothermal exploration

RT temperature measurement

**TEMPERATURE ZERO K**

INIS: 1992-09-30; ETDE: 1992-02-10

(Until September 1992, this concept was indexed by ABSOLUTE ZERO TEMPERATURE.)

UF absolute zero temperature

UF temperature (0 k)

RT cryogenics

RT temperature range

**TEMPERING**

BT1 heat treatments

**TEMPORAL DOSE DISTRIBUTIONS**

BT1 radiation dose distributions

RT chronic irradiation

RT cumulative radiation effects

RT dose rates

RT fractionated irradiation

RT integral doses

RT irradiation procedures

RT pulsed irradiation

RT radiation dose rate ranges

RT time dependence

**TENDONS**

INIS: 1992-01-16; ETDE: 1992-02-14

\*BT1 connective tissue

RT muscles

**tendons (structural)**

INIS: 2000-04-12; ETDE: 1978-09-11

USE cables

**tenelon**

INIS: 1996-07-23; ETDE: 1978-12-20

(Prior to March 1997 this was a valid ETDE descriptor.)

USE stainless steels

**TENNESSEE**

1997-06-19

\*BT1 usa

NT1 chattanooga

NT1 oak ridge

RT chattanooga formation

RT clinch river

RT cumberland river

RT kingston steam plant

RT little tennessee river

RT mississippi river

RT nuclear fuel recovery and recycling center

RT oak ridge reservation

RT orgdp

RT ornl

RT tennessee river

RT tennessee valley region

RT y-12 plant

**TENNESSEE RIVER**

1997-06-19

\*BT1 rivers

RT alabama

RT kentucky

RT tennessee

RT tennessee valley region

**tennessee tokamak**

INIS: 2000-04-12; ETDE: 1984-05-08

USE tentok reactors

**TENNESSEE VALLEY AUTHORITY**

INIS: 1997-06-19; ETDE: 1976-01-07

UF tva

\*BT1 us organizations

RT kingston steam plant

RT little tennessee river

RT paradise steam plant

RT shawnee steam plant

RT tennessee valley region

RT widows creek steam plant

**tennessee valley authority reactor-1**

ETDE: 2002-06-13

USE tva-1 reactor

**tennessee valley authority reactor-2**

ETDE: 2002-06-13

USE tva-2 reactor

**TENNESSEE VALLEY REGION**

INIS: 2000-04-12; ETDE: 1978-09-13

BT1 watersheds

RT alabama

RT clinch river

RT kentucky

RT little tennessee river

RT tennessee

RT tennessee river

RT tennessee valley authority

**TENNESSINE**

2017-04-11

Prior to March 2017 ELEMENT 117 was used for this element.

UF eka-astatine

UF ununseptium

\*BT1 transactinide elements

**TENNESSINE IONS**

2018-01-24

\*BT1 ions

**TENNESSINE ISOTOPES**

2017-04-11

Prior to March 2017 ELEMENT 117 ISOTOPES was used for this concept.

UF element 117 isotopes

BT1 isotopes

**TENSILE PROPERTIES**

UF strength (tensile)

UF tensile strength

BT1 mechanical properties

NT1 ductility

NT1 flexibility

RT compression strength

RT shear

RT strain rate

RT strains

RT stresses

RT ultimate strength

RT yield strength

**tensile strength**

USE tensile properties

**tensiometers**

INIS: 2000-04-12; ETDE: 1976-09-28

Use descriptor below along with descriptors for what is being measured, e.g. SURFACE TENSION, SOILS + GROUND WATER, if appropriate.

(Prior to March 1997 this was a valid descriptor.)

SEE measuring instruments

SEE moisture gages

SEE strain gages

**tension (surface)**

USE surface tension

**TENSOR DOMINANCE MODEL**

UF tensor meson dominance

\*BT1 particle models

RT tensor mesons

**TENSOR FIELDS**

INIS: 1992-10-19; ETDE: 1992-11-04

RT quantum field theory

**TENSOR FORCES**

RT nuclear forces

RT potentials

RT tensors

RT vectors

**tensor meson dominance**

USE tensor dominance model

**TENSOR MESONS**

1995-08-07

Mesons with spin higher than 1.

\*BT1 mesons

NT1 a2-1320 mesons

NT1 a4-2040 mesons

NT1 a6-2450 mesons

NT1 chi b2-9915 mesons

NT1 chi2-3555 mesons

NT1 d\*2-2460 mesons

NT1 f2-1270 mesons

NT1 f2-1430 mesons

NT1 f2-1720 mesons

NT1 f2-1810 mesons

NT1 f2-2010 mesons

NT1 f2-2300 mesons

NT1 f2-2340 mesons

NT1 f2 prime-1525 mesons

NT1 f4-2050 mesons

NT1 f4-2300 mesons

NT1 f6-2510 mesons

NT1 k\*2-1430 mesons

NT1 k\*3-1780 mesons

NT1 k\*4-2045 mesons

NT1 k2-1770 mesons

NT1 k2-1820 mesons

NT1 omega3-1670 mesons

NT1 phi3-1850 mesons

NT1 pi2-1670 mesons

NT1 pi2-2100 mesons

NT1 rho3-1690 mesons

NT1 rho3-2250 mesons

NT1 rho5-2350 mesons

RT meson nonets

RT noncentral forces

RT tensor dominance model

**TENSORS**

NT1 dielectric tensor

NT1 energy-momentum tensor

NT1 ricci tensor

NT1 vectors

NT2 isovectors

RT mathematics

RT metrics

RT scalars

RT tensor forces

**TENTOK REACTORS**

INIS: 2000-04-12; ETDE: 1984-05-08

3000-mw(t) plants fueled with D-T in D-shaped plasma with double-null poloidal divertor.

UF tennessee tokamak

\*BT1 tokamak type reactors

**teollisuuden voima oy-1 reactor**

INIS: 1993-11-09; ETDE: 2002-06-13

USE olkiluoto-1 reactor

**teollisuuden voima oy-2 reactor**

INIS: 1993-11-09; ETDE: 2002-06-13

USE olkiluoto-2 reactor

**teollisuuden voima oy-3 reactor**

2005-09-08

USE olkiluoto-3 reactor

**TERA BQ RANGE**

2012-05-31

BT1 radioactivity range

**terahertz frequency range**

2003-03-21

USE thz range

**TERATOGEN SCREENING**

INIS: 2000-04-12; ETDE: 1981-12-14

UF screening (teratogen)

RT mutagen screening

RT teratogenesis

RT teratogens

RT testing

**TERATOGENESIS**

RT biological radiation effects

RT congenital malformations

RT growth

RT teratogen screening

RT teratogens

**TERATOGENS**

INIS: 1983-09-06; ETDE: 1980-08-25

RT atrazine

RT carcinogens

RT congenital malformations

RT drugs

RT fetuses

RT genetic effects

RT ionizing radiations

RT mutagens

RT neonates

RT teratogen screening

RT teratogenesis

**TERAWATT POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-09-18

BT1 power range

NT1 power range 01-10 tw

NT1 power range 10-100 tw

NT1 power range 100-1000 tw

**TERBIUM**

\*BT1 rare earths

**TERBIUM 135**

2007-04-23

\*BT1 microseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 136**

2007-04-23

\*BT1 electron capture radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 137**

2007-04-23

\*BT1 electron capture radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 138**

2007-04-23

\*BT1 electron capture radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 139**

INIS: 1999-12-23; ETDE: 2000-07-14

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 terbium isotopes

**TERBIUM 140**

INIS: 1987-02-25; ETDE: 1987-05-01

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 terbium isotopes

**TERBIUM 141**

INIS: 1988-04-15; ETDE: 1988-05-23

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 terbium isotopes

**TERBIUM 142**

2007-04-23

\*BT1 electron capture radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 143**

1985-06-07

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 terbium isotopes

**TERBIUM 144**

INIS: 1982-06-09; ETDE: 1982-03-10

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 terbium isotopes

**TERBIUM 145**

INIS: 1982-06-09; ETDE: 1982-03-29

\*BT1 beta-plus decay radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 terbium isotopes

**TERBIUM 146**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 terbium isotopes

**TERBIUM 147**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 148**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 149**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 150**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 151**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 terbium isotopes

**TERBIUM 152**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 153**

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 154**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 155**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 156**

\*BT1 beta-minus decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 157**

- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes
- \*BT1 years living radioisotopes

**TERBIUM 158**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes
- \*BT1 years living radioisotopes

**TERBIUM 159**

- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 terbium isotopes

**TERBIUM 159 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TERBIUM 160**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 160 TARGET**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
BT1 targets

**TERBIUM 161**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 162**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 163**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 164**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 165**

*INIS: 1986-04-28; ETDE: 1986-07-03*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

**TERBIUM 166**

*1996-11-27*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

\*BT1 terbium isotopes

**TERBIUM 167**

*2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes

**TERBIUM 168**

*2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes

**TERBIUM 169**

*2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes

**TERBIUM 170**

*2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes

**TERBIUM 171**

*2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM ADDITIONS**

*Alloys containing not more than 1% Tb are listed here.*

- \*BT1 rare earth additions
- \*BT1 terbium alloys

**TERBIUM ALLOYS**

*Alloys containing more than 1% Tb.*

- \*BT1 rare earth alloys
- NT1 terbium additions
- NT1 terbium base alloys

**TERBIUM ARSENIDES**

*INIS: 1996-07-08; ETDE: 1976-09-14*  
(From June 1996 to February 2008 TERBIUM COMPOUNDS + ARSENIDES was used for this concept.)

- \*BT1 arsenides
- \*BT1 terbium compounds

**TERBIUM BASE ALLOYS**

- \*BT1 terbium alloys

**TERBIUM BORIDES**

- \*BT1 borides
- \*BT1 terbium compounds

**TERBIUM BROMIDES**

- \*BT1 bromides
- \*BT1 terbium halides

**TERBIUM CARBIDES**

- \*BT1 carbides
- \*BT1 terbium compounds

**TERBIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 terbium compounds

**TERBIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 terbium halides

**TERBIUM COMPLEXES**

- \*BT1 rare earth complexes

**TERBIUM COMPOUNDS**

*1996-07-08*

- BT1 rare earth compounds
- NT1 terbium arsenides
- NT1 terbium borides
- NT1 terbium carbides
- NT1 terbium carbonates
- NT1 terbium halides
- NT2 terbium bromides
- NT2 terbium chlorides
- NT2 terbium fluorides
- NT2 terbium iodides
- NT1 terbium hydrides
- NT1 terbium hydroxides
- NT1 terbium nitrates
- NT1 terbium nitrides
- NT1 terbium oxides
- NT1 terbium perchlorates
- NT1 terbium phosphates
- NT1 terbium phosphides
- NT1 terbium selenides
- NT1 terbium silicides
- NT1 terbium sulfates
- NT1 terbium sulfides
- NT1 terbium tellurides

**TERBIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 terbium halides

**TERBIUM HALIDES**

*2012-07-25*

- \*BT1 halides
- \*BT1 terbium compounds
- NT1 terbium bromides
- NT1 terbium chlorides
- NT1 terbium fluorides
- NT1 terbium iodides

**TERBIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 terbium compounds

**TERBIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 terbium compounds

**TERBIUM IODIDES**

- \*BT1 iodides
- \*BT1 terbium halides

**TERBIUM IONS**

- \*BT1 ions

**TERBIUM ISOTOPES**

- BT1 isotopes
- NT1 terbium 135
- NT1 terbium 136
- NT1 terbium 137
- NT1 terbium 138
- NT1 terbium 139
- NT1 terbium 140
- NT1 terbium 141
- NT1 terbium 142
- NT1 terbium 143
- NT1 terbium 144
- NT1 terbium 145
- NT1 terbium 146
- NT1 terbium 147
- NT1 terbium 148
- NT1 terbium 149
- NT1 terbium 150
- NT1 terbium 151
- NT1 terbium 152
- NT1 terbium 153
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- NT1 terbium 155
- NT1 terbium 156

NT1 terbium 157  
 NT1 terbium 158  
 NT1 terbium 159  
 NT1 terbium 160  
 NT1 terbium 161  
 NT1 terbium 162  
 NT1 terbium 163  
 NT1 terbium 164  
 NT1 terbium 165  
 NT1 terbium 166  
 NT1 terbium 167  
 NT1 terbium 168  
 NT1 terbium 169  
 NT1 terbium 170  
 NT1 terbium 171

**TERBIUM NITRATES**

\*BT1 nitrates  
 \*BT1 terbium compounds

**TERBIUM NITRIDES**

\*BT1 nitrides  
 \*BT1 terbium compounds

**TERBIUM OXIDES**

\*BT1 oxides  
 \*BT1 terbium compounds

**TERBIUM PERCHLORATES**

\*BT1 perchlorates  
 \*BT1 terbium compounds

**TERBIUM PHOSPHATES**

\*BT1 phosphates  
 \*BT1 terbium compounds

**TERBIUM PHOSPHIDES**

INIS: 1977-01-25; ETDE: 1976-08-04

\*BT1 phosphides  
 \*BT1 terbium compounds

**TERBIUM SELENIDES**

INIS: 1985-03-15; ETDE: 1978-09-13

\*BT1 selenides  
 \*BT1 terbium compounds

**TERBIUM SILICIDES**

\*BT1 silicides  
 \*BT1 terbium compounds

**TERBIUM SULFATES**

\*BT1 sulfates  
 \*BT1 terbium compounds

**TERBIUM SULFIDES**

\*BT1 sulfides  
 \*BT1 terbium compounds

**TERBIUM TELLURIDES**

INIS: 1978-02-23; ETDE: 1977-10-20

\*BT1 tellurides  
 \*BT1 terbium compounds

**TEREPHTHALIC ACID**

UF benzenedicarboxylic acid-para  
 \*BT1 dicarboxylic acids  
 RT dacron  
 RT polyethylene terephthalate

**TERMINAL FACILITIES**

INIS: 1999-03-16; ETDE: 1977-03-04

UF facilities (terminal)  
 NT1 deep water oil terminals  
 RT energy facilities  
 RT liquefied natural gas  
 RT maintenance facilities  
 RT storage facilities

**TERNARY ALLOY SYSTEMS**

BT1 alloy systems

**TERNARY FISSION**

\*BT1 fission

**TERNE-METAL**

2000-04-12

\*BT1 antimony alloys  
 \*BT1 lead base alloys  
 \*BT1 tin alloys

**TERPENES**

1996-10-23

UF camphene  
 UF geraniol  
 BT1 organic compounds  
 NT1 camphor  
 NT1 carotenoids  
 NT1 squalene  
 NT1 turpentine  
 RT oils

**terphenyl-meta**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE terphenyls

**TERPHENYL-ORTHO**

\*BT1 terphenyls

**TERPHENYL-PARA**

\*BT1 terphenyls

**TERPHENYLS**

1996-10-23

(Prior to March 1997 TERPHENYL-META was a valid ETDE descriptor.)

UF terphenyl-meta  
 \*BT1 polyphenyls  
 NT1 terphenyl-ortho  
 NT1 terphenyl-para  
 RT liquid scintillators  
 RT plastic scintillators

**terramycin**

USE oxytetracycline

**terrestrial background**

USE background radiation

**TERRESTRIAL ECOSYSTEMS**

2000-05-24

BT1 ecosystems  
 NT1 rangelands  
 NT1 savannas  
 NT1 swamps  
 RT arid lands  
 RT deserts  
 RT forests  
 RT islands  
 RT land resources  
 RT soils  
 RT tundra

**territorial seas**

INIS: 1976-12-08; ETDE: 2002-06-13

USE territorial waters

**TERRITORIAL WATERS**

1999-10-21

Waters under the sovereign jurisdiction of a nation or state including both marginal sea and inland waters.

UF territorial seas  
 BT1 surface waters  
 RT coastal waters  
 RT continental shelf  
 RT fishery laws  
 RT government policies  
 RT high seas  
 RT inland waterways  
 RT maritime laws  
 RT nuclear ship visits  
 RT seas

**terrorism**

INIS: 2000-04-12; ETDE: 1987-05-06

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE proliferation  
 SEE sabotage  
 SEE security  
 SEE vulnerability

**TERTIARY COOLANT CIRCUITS**

2018-03-19

UF tertiary coolant loops  
 \*BT1 reactor cooling systems

**tertiary coolant loops**

2018-03-19

USE tertiary coolant circuits

**TERTIARY PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

UF neogene period  
 UF oligocene epoch  
 UF paleocene epoch  
 UF paleogene period  
 \*BT1 cenozoic era  
 NT1 eocene epoch  
 NT1 miocene epoch  
 NT1 pliocene epoch

**tertiary recovery**

INIS: 1991-10-22; ETDE: 1976-02-23

USE enhanced recovery

**terylene**

USE dacron

**tesi devices**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE pinch devices

**TESLA LINEAR COLLIDER**

INIS: 2005-10-27; ETDE: 2002-09-17

TeV Energy Superconducting Linear Accelerator.

\*BT1 linear colliders

**TEST FACILITIES**

1997-06-17

Facilities to test the technical feasibility of a concept or to provide the technical basis for similar facilities in larger sizes.

UF facilities (test)  
 UF international fusion superconducting magnet test facility  
 UF liquid metal test facilities  
 NT1 advanced components test facility  
 NT1 central receiver test facility  
 NT1 cnrs solar facility  
 NT1 felix facility  
 NT1 msstf  
 NT1 test reactors

NT2 aipfr reactor  
 NT2 arbus reactor  
 NT2 astr reactor  
 NT2 astra reactor  
 NT2 atrp reactor  
 NT2 atr reactor  
 NT2 barn reactor  
 NT2 bawtr reactor  
 NT2 bgrr reactor  
 NT2 borax-5 reactor  
 NT2 br-02 reactor  
 NT2 brr reactor  
 NT2 cesnef reactor  
 NT2 cirus reactor  
 NT2 cp-5 reactor  
 NT2 dhruva reactor  
 NT2 dimple reactor  
 NT2 diorit reactor

NT2 ebor reactor  
 NT2 ebr-1 reactor  
 NT2 eco reactor  
 NT2 eocr reactor  
 NT2 esada-vesr reactor  
 NT2 essor reactor  
 NT2 etr reactor  
 NT2 etrc reactor  
 NT2 fftf reactor  
 NT2 fir-1 reactor  
 NT2 fmr reactor  
 NT2 fnr reactor  
 NT2 fr-2 reactor  
 NT2 frctf reactor  
 NT2 frg-1 reactor  
 NT2 frm reactor  
 NT2 getr reactor  
 NT2 grenoble reactor  
 NT2 gtr reactor  
 NT2 gtrr reactor  
 NT2 hanaro reactor  
 NT2 harmonie reactor  
 NT2 herald reactor  
 NT2 hero reactor  
 NT2 hew-305 reactor  
 NT2 hfir reactor  
 NT2 hifar reactor  
 NT2 hre-2 reactor  
 NT2 htlt reactor  
 NT2 htr-10 reactor  
 NT2 irl reactor  
 NT2 irr-1 reactor  
 NT2 irt-2000 djakarta reactor  
 NT2 irt-2000 moscow reactor  
 NT2 irt-baghdad reactor  
 NT2 ispra-1 reactor  
 NT2 jmtr reactor  
 NT2 kalpakkam lmfr reactor  
 NT2 loft reactor  
 NT2 mzfr reactor  
 NT2 netr reactor  
 NT2 nru reactor  
 NT2 ntr reactor  
 NT2 orphee reactor  
 NT2 ovr reactor  
 NT2 pat reactor  
 NT2 pegase reactor  
 NT2 proteus reactor  
 NT2 ra-3 reactor  
 NT2 ra-4 reactor  
 NT2 ra-5 reactor  
 NT2 ra-6 reactor  
 NT2 ra-8 reactor  
 NT2 rapsodie reactor  
 NT2 rts-1 reactor  
 NT2 s1c prototype reactor  
 NT2 safari-1 reactor  
 NT2 sbr-5 reactor  
 NT2 snaptran reactors  
 NT2 stf reactor  
 NT2 tapiro reactor  
 NT2 tory-2a reactor  
 NT2 tory-2c reactor  
 NT2 treat reactor  
 NT2 triga-1-michigan reactor  
 NT2 triga-2-pavia reactor  
 NT2 tsr-1 reactor  
 NT2 tsr-2 reactor  
 NT2 urr reactor  
 NT2 uvar reactor  
 NT2 viper reactor  
 NT2 wr-1 reactor  
 NT2 wtr reactor  
 NT1 tonopah test range  
 NT1 tritium systems test assembly  
 NT1 white sands solar facility  
 RT distributed structures  
 RT laboratory equipment  
 RT mockup

RT nuclear facilities  
 RT sttfua  
 RT testing

### test fast breeder reactor kalpakkam

1993-11-10

USE kalpakkam lmfr reactor

### TEST PARTICLES

RT charged particles

### TEST REACTORS

1998-01-29

Reactors to test the technical feasibility of a concept or to provide the technical basis for a similar facility in a larger size.

\*BT1 research and test reactors

BT1 test facilities

NT1 aipfr reactor

NT1 arbus reactor

NT1 astr reactor

NT1 astra reactor

NT1 atrp reactor

NT1 atr reactor

NT1 barn reactor

NT1 bawtr reactor

NT1 bgrr reactor

NT1 borax-5 reactor

NT1 br-02 reactor

NT1 brr reactor

NT1 cesnef reactor

NT1 cirus reactor

NT1 cp-5 reactor

NT1 dhruva reactor

NT1 dimple reactor

NT1 diorit reactor

NT1 ebor reactor

NT1 ebr-1 reactor

NT1 eco reactor

NT1 eocr reactor

NT1 esada-vesr reactor

NT1 essor reactor

NT1 etr reactor

NT1 etrc reactor

NT1 fftf reactor

NT1 fir-1 reactor

NT1 fmr reactor

NT1 fnr reactor

NT1 fr-2 reactor

NT1 frctf reactor

NT1 frg-1 reactor

NT1 frm reactor

NT1 getr reactor

NT1 grenoble reactor

NT1 gtr reactor

NT1 gtrr reactor

NT1 hanaro reactor

NT1 harmonie reactor

NT1 herald reactor

NT1 hero reactor

NT1 hew-305 reactor

NT1 hfir reactor

NT1 hifar reactor

NT1 hre-2 reactor

NT1 htlt reactor

NT1 htr-10 reactor

NT1 irl reactor

NT1 irr-1 reactor

NT1 irt-2000 djakarta reactor

NT1 irt-2000 moscow reactor

NT1 irt-baghdad reactor

NT1 ispra-1 reactor

NT1 jmtr reactor

NT1 kalpakkam lmfr reactor

NT1 loft reactor

NT1 mzfr reactor

NT1 netr reactor

NT1 nru reactor

NT1 ntr reactor

NT1 orphee reactor

NT1 ovr reactor

NT1 pat reactor

NT1 pegase reactor

NT1 proteus reactor

NT1 ra-3 reactor

NT1 ra-4 reactor

NT1 ra-5 reactor

NT1 ra-6 reactor

NT1 ra-8 reactor

NT1 rapsodie reactor

NT1 rts-1 reactor

NT1 s1c prototype reactor

NT1 safari-1 reactor

NT1 sbr-5 reactor

NT1 snaptran reactors

NT1 stf reactor

NT1 tapiro reactor

NT1 tory-2a reactor

NT1 tory-2c reactor

NT1 treat reactor

NT1 triga-1-michigan reactor

NT1 triga-2-pavia reactor

NT1 tsr-1 reactor

NT1 tsr-2 reactor

NT1 urr reactor

NT1 uvar reactor

NT1 viper reactor

NT1 wr-1 reactor

NT1 wtr reactor

### test wells

INIS: 2000-04-12; ETDE: 1979-01-30

USE exploratory wells

### TESTES

BT1 gonads

\*BT1 male genitals

RT androgens

RT spermatogenesis

### TESTING

1995-04-09

Subjection to specific planned procedures calculated to reveal any deficiencies.

NT1 clinical trials

NT1 drill stem testing

NT1 field tests

NT1 flight testing

NT1 frequency response testing

NT1 leak testing

NT1 materials testing

NT2 destructive testing

NT3 charpy test

NT2 indentation testing

NT2 mechanical tests

NT3 impact tests

NT4 charpy test

NT2 nondestructive testing

NT3 acoustic testing

NT4 acoustic emission testing

NT4 ultrasonic testing

NT3 electrical testing

NT3 electromagnetic testing

NT4 eddy current testing

NT3 industrial radiography

NT4 beta radiography

NT4 gamma radiography

NT5 gamma fuel scanning

NT4 neutron radiography

NT4 proton radiography

NT4 x-ray radiography

NT3 liquid penetrant inspection

NT3 magnetic testing

NT3 radiation attenuation testing

NT3 thermal testing

NT4 frost tests

NT1 performance testing

NT1 road tests

NT1 validation

RT bench-scale experiments



RT carcinogen screening  
 RT certification  
 RT evaluation  
 RT feasibility studies  
 RT inspection  
 RT mutagen screening  
 RT sampling  
 RT teratogen screening  
 RT test facilities

**testing (biological)**

USE bioassay

**testing (materials)**

2000-04-12

USE materials testing

**TESTOSTERONE**

\*BT1 androgens  
 \*BT1 hydroxy compounds  
 \*BT1 ketones

**TETA**

UF triethylenetetramine  
 \*BT1 amines

**TETAHA**

Triethylenetetraaminehexaacetic acid.  
 UF triethylenetetraaminehexaacetic acid  
 \*BT1 amino acids  
 BT1 chelating agents

**TETANUS**

\*BT1 bacterial diseases

**TETRACENE**

\*BT1 polycyclic aromatic hydrocarbons

**tetrachlorobenzoquinone**

USE chloranil

**tetrachloromethane**

1985-07-22

(Prior to August 1985 this was a valid descriptor.)

USE carbon tetrachloride

**TETRACYCLINES**

1996-10-22

(Prior to March 1997

CHLORTETRACYCLINE was a valid ETDE descriptor.)

UF chlortetracycline  
 \*BT1 antibiotics  
 NT1 oxytetracycline

**TETRADECANOIC ACID**

UF myristic acid  
 \*BT1 monocarboxylic acids

**TETRAETHYL LEAD**

ETDE: 2005-02-01

(Prior to January 2005 TEL was used for this concept.)

UF tel (tetraethyl lead)  
 BT1 lead compounds  
 \*BT1 organometallic compounds  
 RT fuel additives

**tetraethylammonium bromide**

1996-10-23

(Prior to March 1997 TEAB was used for this concept in ETDE.)

USE bromides  
 USE quaternary ammonium compounds

**tetrafluoromethane**

INIS: 1985-07-22; ETDE: 1976-08-24

(Prior to August 1985 this was a valid descriptor.)

USE carbon tetrafluoride

**TETRAGONAL LATTICES**

\*BT1 three-dimensional lattices

**TETRAHYDROFURAN**

INIS: 2000-04-04; ETDE: 1979-11-23

UF thf  
 \*BT1 furans  
 NT1 mthf

**tetrahydronaphthalene**

USE tetralin

**TETRAHYDROPYRAN**

\*BT1 pyrans  
 RT ethers

**tetrahydropyrroles**

USE pyrrolidines

**tetrahydroxybutane**

USE erythritol

**TETRAHYMENA**

\*BT1 ciliata

**TETRALIN**

UF tetrahydronaphthalene  
 \*BT1 aromatics  
 \*BT1 hydroaromatics  
 RT naphthalene

**tetramethyl-4-piperidone-n-oxyl**

2000-04-12

USE triacetoneamine-n-oxyl

**tetramethylenediamine**

USE putrescine

**tetramethylethylene glycol**

USE pinacol

**tetramethyltetraselenafulvalene**

INIS: 1983-10-14; ETDE: 1983-04-07

USE tmtsf

**TETRANEUTRONS**

Bound state of four neutrons.

\*BT1 polyneutrons

**tetraphenylethylene glycol**

2000-04-12

(Prior to February 1996 BENZOPINACOL

was used for this concept in ETDE.)

USE ethylene glycols

**tetraploidy**

USE polyploidy

**TETRATHIAFULVALENE**

INIS: 2000-03-29; ETDE: 2005-02-01

(Prior to January 2005 TTF was used for this concept.)

UF ttf (tetrathiafulvalene)  
 \*BT1 heterocyclic compounds  
 \*BT1 organic sulfur compounds

**tetrathiafulvalene**

tetracyanoquinodimethane

INIS: 2000-05-02; ETDE: 1975-10-01

USE ttf-tcnq

**TETRAZOLES**

Compounds that contain a five-membered heterocyclic ring containing four nitrogen atoms.

\*BT1 azoles  
 NT1 tetrazolium

**TETRAZOLIUM**

\*BT1 chlorides  
 \*BT1 tetrazoles

**TETRYL**

2000-04-12

\*BT1 amines  
 \*BT1 chemical explosives  
 \*BT1 nitro compounds

**TEV RANGE**

From 10 exp 12 to 10 exp 15 eV.

BT1 energy range  
 NT1 tev range 01-10  
 NT1 tev range 10-100  
 NT1 tev range 100-1000

**TEV RANGE 01-10**

INIS: 1977-10-17; ETDE: 1977-11-10

\*BT1 tev range

**TEV RANGE 10-100**

INIS: 1977-10-17; ETDE: 1977-11-10

\*BT1 tev range

**TEV RANGE 100-1000**

INIS: 1977-10-17; ETDE: 1977-11-10

\*BT1 tev range

**tevatron**

INIS: 2000-04-12; ETDE: 1983-09-15  
 (Prior to July 1985 this was a valid ETDE descriptor.)

USE fermilab tevatron

**tevatron (fermilab)**

INIS: 1984-02-22; ETDE: 2002-06-13

USE fermilab tevatron

**tewa event**

INIS: 1994-10-14; ETDE: 1984-05-23

A test made during PROJECT REDWING.  
 (Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions  
 USE nuclear explosions

**TEXACO GASIFICATION PROCESS**

INIS: 1992-07-21; ETDE: 1977-05-07

Coal, or any carbonaceous fuel, and oxygen are reacted in carbon monoxide and hydrogen at temperatures of 1200-2200 degrees F and pressures of 300-4500 psi. Steam may be used optionally. Hydrogen and carbon monoxide are recycled to the reactor to optimize methane yield. The high-btu off gas is suitable for upgrading to pipeline quality.

\*BT1 coal gasification

**TEXAS**

1997-06-19

\*BT1 usa  
 RT brazos river  
 RT dalhart basin  
 RT galveston bay  
 RT matagorda bay  
 RT palo duro basin  
 RT pantex plant  
 RT permian basin  
 RT rio grande river  
 RT san antonio bay  
 RT us gulf coast  
 RT uvalde deposit

**TEXAS A AND M CYCLOTRON**

UF texas a and m variable energy cyclotron

\*BT1 isochronous cyclotrons

**texas a and m k500 cyclotron**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

USE texas superconducting cyclotron

**texas a and m variable energy cyclotron**

INIS: 1993-11-10; ETDE: 2002-06-13  
USE texas a and m cyclotron

**texas college station training reactor**

1993-11-10  
USE nscr reactor

**texas experimental tokamak**

INIS: 1978-07-17; ETDE: 1978-03-08  
USE text devices

**TEXAS SUPERCONDUCTING CYCLOTRON**

INIS: 1990-12-15; ETDE: 1983-03-24  
(Prior to December 1990, this concept was indexed by TEXASA AND M K500 CYCLOTRON.)  
UF texas a and m k500 cyclotron  
\*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons  
\*BT1 superconducting cyclotrons

**texas university triga reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE triga-texas reactor

**TEXT DEVICES**

INIS: 1978-07-17; ETDE: 1978-03-08  
Text is intended for diagnostic development and basic physics experiments including rf heating.  
UF texas experimental tokamak  
\*BT1 tokamak devices

**text editors**

INIS: 2000-04-12; ETDE: 1978-06-14  
Means, often computer codes, to create or modify any sort of text, report, or computer code. Use the descriptor below and/or MODIFICATIONS, as appropriate.  
(Prior to May 1996 this was a valid ETDE descriptor.)  
SEE computer codes

**TEXTILE INDUSTRY**

INIS: 1998-10-13; ETDE: 1977-06-24  
BT1 industry  
RT textiles

**TEXTILES**

RT clothing  
RT cotton  
RT dacron  
RT fibers  
RT jute  
RT rayon  
RT textile industry  
RT wool

**TEXTOLITE**

\*BT1 organic polymers

**TEXTOR TOKAMAK**

INIS: 1977-09-15; ETDE: 1977-11-10  
Torus EXperiment for Technology Oriented Research.  
UF torus experiment for technology oriented research  
\*BT1 tokamak devices

**TEXTURE**

RT crystal structure  
RT grain orientation  
RT schulz method

**TFCX REACTORS**

INIS: 1994-04-11; ETDE: 1984-10-24  
UF tokamak fusion core experiment  
\*BT1 tokamak type reactors

**TFR TOKAMAK**

UF tokamak fontenay-aux-roses  
\*BT1 tokamak devices

**tfr device**

INIS: 1985-07-22; ETDE: 1979-05-03  
(Prior to August 1985 this was a valid descriptor.)  
USE tfr tokamak

**tfr reactors**

INIS: 2000-04-12; ETDE: 1978-04-06  
(Prior to July 1985 this was a valid ETDE descriptor.)  
USE tfr tokamak

**TFTR TOKAMAK**

1985-07-22  
(Prior to August 1985 TFTR DEVICE was used.)  
UF tfr device  
UF tfr reactors  
UF tokamak fusion test reactor  
\*BT1 tokamak devices

**THAI ORGANIZATIONS**

2004-03-31  
BT1 national organizations

**thai research reactor-1**

USE trr-1 reactor

**THAILAND**

BT1 asia  
BT1 developing countries

**THALAMUS**

\*BT1 brain  
RT ganglions

**THALASSEMIA**

\*BT1 anemias

**THALLIUM**

\*BT1 metals

**THALLIUM 176**

2007-04-23  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 thallium isotopes

**THALLIUM 177**

2007-04-23  
\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 thallium isotopes

**THALLIUM 178**

2007-04-23  
\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 thallium isotopes

**THALLIUM 179**

INIS: 1983-09-01; ETDE: 1983-08-25  
\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 thallium isotopes

**THALLIUM 180**

2007-04-23  
\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thallium isotopes

**THALLIUM 181**

2007-04-23  
\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thallium isotopes

**THALLIUM 182**

INIS: 1986-07-09; ETDE: 1981-09-08  
\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thallium isotopes

**THALLIUM 183**

INIS: 1992-09-23; ETDE: 1981-09-22  
\*BT1 alpha decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 thallium isotopes

**THALLIUM 184**

1977-01-25  
\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thallium isotopes

**THALLIUM 185**

INIS: 1977-01-25; ETDE: 1977-04-13  
\*BT1 alpha decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thallium isotopes

**THALLIUM 186**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thallium isotopes

**THALLIUM 187**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thallium isotopes

**THALLIUM 188**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 thallium isotopes

**THALLIUM 189**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 190**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 191**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 192**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 193**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 194**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 195**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thallium isotopes

**THALLIUM 196**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 197**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thallium isotopes

**THALLIUM 198**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei

- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 199**

- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 200**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 201**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 202**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 203**

- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- \*BT1 thallium isotopes

**THALLIUM 203 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**THALLIUM 204**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes
- \*BT1 years living radioisotopes

**THALLIUM 205**

- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- \*BT1 thallium isotopes

**THALLIUM 205 REACTIONS**

*INIS: 1978-04-21; ETDE: 1978-07-06*  
\*BT1 heavy ion reactions

**THALLIUM 205 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**THALLIUM 206**

- UF radium e//*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 207**

- UF actinium c//*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes

- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thallium isotopes

**THALLIUM 207 TARGET**

*1980-05-14*

- BT1 targets

**THALLIUM 208**

*UF thorium c//*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 209**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 209 TARGET**

*INIS: 1984-06-21; ETDE: 1984-07-10*  
BT1 targets

**THALLIUM 210**

*UF radium c//*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 211**

*2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 212**

*2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM ADDITIONS**

*Alloys containing not more than 1% Tl are listed here.*

- \*BT1 thallium alloys

**THALLIUM ALLOYS**

*Alloys containing more than 1% Tl.*

- BT1 alloys
- NT1 thallium additions
- NT1 thallium base alloys

**THALLIUM BASE ALLOYS**

- \*BT1 thallium alloys

**THALLIUM BROMIDES**

- \*BT1 bromides
- \*BT1 thallium halides

**THALLIUM CARBIDES**

*INIS: 1977-09-06; ETDE: 1975-12-16*

- \*BT1 carbides
- BT1 thallium compounds

**THALLIUM CARBONATES**

*INIS: 1977-01-25; ETDE: 1977-10-20*

- \*BT1 carbonates
- BT1 thallium compounds

**THALLIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 thallium halides

**THALLIUM COMPLEXES**

- BT1 complexes

**THALLIUM COMPOUNDS**

1997-06-19

- NT1 thallium carbides
- NT1 thallium carbonates
- NT1 thallium halides
- NT2 thallium bromides
- NT2 thallium chlorides
- NT2 thallium fluorides
- NT2 thallium iodides
- NT1 thallium hydrides
- NT1 thallium hydroxides
- NT1 thallium nitrates
- NT1 thallium oxides
- NT1 thallium perchlorates
- NT1 thallium phosphates
- NT1 thallium selenides
- NT1 thallium sulfates
- NT1 thallium sulfides
- NT1 thallium tellurides
- NT1 thallium tungstates
- NT1 thallium uranates

**THALLIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 thallium halides

**THALLIUM HALIDES**

INIS: 1985-01-17; ETDE: 1976-05-13

- \*BT1 halides
- BT1 thallium compounds
- NT1 thallium bromides
- NT1 thallium chlorides
- NT1 thallium fluorides
- NT1 thallium iodides

**THALLIUM HYDRIDES**

INIS: 1981-06-19; ETDE: 1980-08-12

- \*BT1 hydrides
- BT1 thallium compounds

**THALLIUM HYDROXIDES**

1996-07-08

(From June 1996 to November 2007

THALLIUM COMPOUNDS + HYDROXIDES was used for this concept.)

- \*BT1 hydroxides
- BT1 thallium compounds

**THALLIUM IODIDES**

- \*BT1 iodides
- \*BT1 thallium halides

**THALLIUM IONS**

- \*BT1 ions

**THALLIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 thallium 176
- NT1 thallium 177
- NT1 thallium 178
- NT1 thallium 179
- NT1 thallium 180
- NT1 thallium 181
- NT1 thallium 182
- NT1 thallium 183
- NT1 thallium 184
- NT1 thallium 185
- NT1 thallium 186
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- NT1 thallium 189
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- NT1 thallium 197
- NT1 thallium 198

- NT1 thallium 199
- NT1 thallium 200
- NT1 thallium 201
- NT1 thallium 202
- NT1 thallium 203
- NT1 thallium 204
- NT1 thallium 205
- NT1 thallium 206
- NT1 thallium 207
- NT1 thallium 208
- NT1 thallium 209
- NT1 thallium 210
- NT1 thallium 211
- NT1 thallium 212

**THALLIUM NITRATES**

- \*BT1 nitrates
- BT1 thallium compounds

**THALLIUM OXIDES**

- \*BT1 oxides
- BT1 thallium compounds

**THALLIUM PERCHLORATES**

1996-07-23

(From July 1996 to November 2007

THALLIUM COMPOUNDS + PERCHLORATES was used for this concept.)

- \*BT1 perchlorates
- BT1 thallium compounds

**THALLIUM PHOSPHATES**

INIS: 1979-01-18; ETDE: 1979-02-23

- \*BT1 phosphates
- BT1 thallium compounds

**THALLIUM SELENIDES**

INIS: 1980-09-12; ETDE: 1975-08-19

- \*BT1 selenides
- BT1 thallium compounds

**THALLIUM SULFATES**

- \*BT1 sulfates
- BT1 thallium compounds

**THALLIUM SULFIDES**

- \*BT1 sulfides
- BT1 thallium compounds

**THALLIUM TELLURIDES**

INIS: 1979-09-18; ETDE: 1975-11-28

- \*BT1 tellurides
- BT1 thallium compounds

**THALLIUM TUNGSTATES**

INIS: 2000-04-12; ETDE: 1976-11-17

- BT1 thallium compounds
- \*BT1 tungstates

**THALLIUM URANATES**

1996-07-23

(From July 1996 to February 2008

THALLIUM COMPOUNDS + URANATES was used for this concept.)

- BT1 thallium compounds
- \*BT1 uranates

**THAMES RIVER**

INIS: 1976-02-11; ETDE: 1976-04-19

- \*BT1 rivers

**THAWING**

INIS: 2000-04-12; ETDE: 1976-03-11

Process of bringing a frozen material to an unfrozen state.

- BT1 phase transformations
- RT cryobiology
- RT defrosting
- RT freezing
- RT melting

**THE FORMER YUGOSLAV****REPUBLIC OF MACEDONIA**

INIS: 1997-06-05; ETDE: 1998-04-10

UF former yugoslav republic of macedonia

UF macedonia (the former yugoslav republic of)

UF yugoslavia (macedonia)

SF yugoslavia

BT1 developing countries

\*BT1 eastern europe

**the geysers**

1992-06-04

USE geysers geothermal field

**the next step device**

INIS: 2000-04-12; ETDE: 1978-03-03

USE tns reactors

**the next step thermonuclear reactor**

INIS: 1993-11-10; ETDE: 2002-06-13

USE tns reactors

**THEBAINE**

1996-07-08

\*BT1 morphine

**THEFT**

INIS: 1993-02-18; ETDE: 1976-02-19

UF embezzlement

BT1 crime

RT physical protection devices

RT sabotage

RT security

RT vulnerability

**thematic mapping**

INIS: 2000-04-12; ETDE: 1991-02-22

USE multispectral photography

**thenoyltrifluoroacetone**

USE tta

**theobroma**

1977-04-07

USE cacao trees

**THEOBROMINE**

UF 3,7-dimethylxanthine

\*BT1 diuretics

\*BT1 vasodilators

\*BT1 xanthines

**THEOPHYLLINE**

UF 1,3-dimethylxanthine

\*BT1 diuretics

\*BT1 vasodilators

\*BT1 xanthines

**THEORETICAL DATA**

INIS: 1996-03-12; ETDE: 1979-02-27

Use only in conjunction with literary indicator N for data flagging.

\*BT1 numerical data

**therapeutic agents**

INIS: 1984-05-24; ETDE: 1981-04-20

USE drugs

**THERAPEUTIC DOSES**

2018-02-22

The amount of a medication or level of radiation required to produce the desired clinical outcome.

BT1 doses

RT drugs

RT side effects

RT toxicity

**THERAPEUTIC USES**

INIS: 1994-01-07; ETDE: 1985-09-24

- BT1 uses  
RT therapy

**THERAPY**

- UF *treatment (therapy)*  
BT1 medicine  
NT1 chemotherapy  
NT1 combined therapy  
NT1 first aid  
NT1 gene therapy  
NT1 immunotherapy  
NT2 radioimmunotherapy  
NT1 post-irradiation therapy  
NT1 radiotherapy  
NT2 afterloading  
NT2 brachytherapy  
NT3 radioembolization  
NT2 ct-guided radiotherapy  
NT2 external beam radiation therapy  
NT2 neutron therapy  
NT3 neutron capture therapy  
NT2 radioimmunotherapy  
NT1 transfusions  
RT balneology  
RT biological recovery  
RT bleomycin  
RT castration  
RT diet  
RT drug delivery  
RT drugs  
RT injection  
RT patients  
RT radioimmunology  
RT side effects  
RT surgery  
RT therapeutic uses

**thermal alteration**

INIS: 2000-07-24; ETDE: 1977-08-09

- USE maturation

**THERMAL ANALYSIS**

- UF *analysis (thermal)*  
NT1 differential thermal analysis  
NT1 dilatometry  
NT1 emanation thermal analysis  
NT1 thermal gravimetric analysis  
RT phase diagrams  
RT phase transformations  
RT structural chemical analysis  
RT thermal expansion  
RT thermal hydraulics

**THERMAL BARRIERS**

INIS: 1983-03-16; ETDE: 1982-10-05

*Localized depressions of field, particle density and potential which reduce thermal-energy transfer between plug and central-cell electrons in mirror devices.*

- RT plasma confinement  
RT tmr reactors  
RT tmx devices

**THERMAL BATTERIES**

2000-04-12

- \*BT1 electric batteries  
RT electrolytic cells  
RT thermoelectric conversion

**THERMAL BOUNDARY RESISTANCE**

*Thermal impedance at an interface at ultralow temperatures.*

- NT1 kapitza resistance  
RT heat transfer

**THERMAL BRIDGES**

2005-07-05

*Pathways, usually undesirable, through which heat is transferred much more readily than through adjacent materials.*

- RT building materials  
RT heat gain  
RT heat losses  
RT thermal conduction  
RT thermal insulation

**THERMAL COLUMNS**

- UF *columns (thermal)*  
UF *reactor thermal columns*  
RT moderators  
RT neutron sources  
RT thermal neutrons

**THERMAL COMFORT**

INIS: 2000-04-12; ETDE: 1980-12-08

*That condition which expresses satisfaction with the thermal environment and which is measured by such factors as air temperature, relative humidity, air velocity, etc.*

- SF *mean radiant temperature*  
RT architecture  
RT environment  
RT humidity control  
RT microclimates  
RT temperature control

**THERMAL CONDUCTION**

*Heat transfer by conduction.*

- UF *conduction (thermal)*  
\*BT1 heat transfer  
RT thermal bridges  
RT thermal conductivity  
RT thermal insulation

**THERMAL CONDUCTIVITY**

- UF *conductivity (thermal)*  
\*BT1 thermodynamic properties  
RT heat transfer  
RT liquid flow  
RT matthiessen rule  
RT nusselt number  
RT righi-leduc effect  
RT thermal conduction  
RT thermal diffusivity  
RT thermoelasticity  
RT umklapp processes  
RT wiedemann-franz law

**THERMAL CRACKING**

INIS: 1998-01-28; ETDE: 1976-12-15

- \*BT1 cracking  
RT catalytic cracking  
RT hydrocracking

**THERMAL CYCLING**

- RT mechanical tests  
RT thermal shock

**thermal decay time log**

INIS: 2000-04-12; ETDE: 1979-03-27

- USE neutron-gamma logging

**thermal decomposition**

- USE pyrolysis

**THERMAL DEGRADATION**

1975-10-09

*Impairment of properties caused by exposure to heat.*

- UF *degradation (thermal)*  
UF *heat stability*  
RT chemical properties  
RT heating  
RT mechanical properties  
RT physical properties  
RT pyrolysis

**THERMAL DESORPTION SPECTROSCOPY**

2017-06-12

*A method of observing desorbed molecules from a surface when the surface temperature is increased.*

- UF *temperature programmed desorption*  
BT1 spectroscopy  
RT desorption  
RT mass spectrometers

**THERMAL DIFFUSION**

*Phenomenon in which a temperature gradient in a mixture of fluids gives rise to a flow of one constituent relative to the mixture as a whole.*

- UF *thermodiffusion*  
BT1 diffusion  
RT heat transfer  
RT isotope separation  
RT separation processes  
RT thermal diffusivity

**THERMAL DIFFUSIVITY**

*The quantity of heat passing normally through a unit area per unit time divided by the product of specific heat, density, and temperature gradient.*

- SF *heat dissipation*  
\*BT1 thermodynamic properties  
RT prandtl number  
RT thermal conductivity  
RT thermal diffusion  
RT thermal insulation

**thermal effects**

INIS: 2000-04-12; ETDE: 1975-10-28

- USE temperature dependence

**THERMAL EFFICIENCY**

- BT1 efficiency  
RT heat rate  
RT thermodynamics

**THERMAL EFFLUENTS**

- UF *effluents (thermal)*  
UF *heated effluents*  
SF *emissions (industrial)*  
SF *heat dissipation*  
RT cold effluents  
RT emissions tax  
RT heat sinks  
RT thermal pollution  
RT waste heat

**THERMAL ENERGY STORAGE EQUIPMENT**

INIS: 1992-08-20; ETDE: 1975-11-28

- UF *heat storage devices*  
UF *heat storage systems*  
\*BT1 energy storage systems  
BT1 equipment  
RT heat storage  
RT latent heat storage  
RT peaking power plants  
RT sensible heat storage  
RT solar-assisted power systems  
RT solar equipment  
RT thermochemical heat storage

**thermal envelope houses**

INIS: 1992-08-25; ETDE: 1981-06-13

- USE double envelope buildings

**THERMAL EQUILIBRIUM**

- BT1 equilibrium  
RT thermodynamic properties

**THERMAL EXPANSION**

- BT1 expansion  
RT contraction

RT dilatometry  
 RT elongation  
 RT expansion joints  
 RT grueneisen constant  
 RT swelling  
 RT thermal analysis  
 RT thermodynamic properties  
 RT thermoelasticity

**THERMAL FATIGUE**

\*BT1 fatigue

**THERMAL FISSION**

\*BT1 fission  
 \*BT1 neutron reactions  
 RT thermal neutrons  
 RT watt fission spectrum

**THERMAL FISSION FACTOR**

BT1 dimensionless numbers  
 RT fission  
 RT multiplication factors

**THERMAL FRACTURES**

INIS: 1995-09-08; ETDE: 1980-07-09

\*BT1 fractures  
 RT cracks  
 RT thermal fracturing  
 RT thermal stresses

**THERMAL FRACTURING**

INIS: 2000-04-12; ETDE: 1980-07-09

*The formation or disintegration of a fracture or crack as a result of sudden temperature changes.*

BT1 fracturing  
 RT thermal fractures  
 RT thermal stresses

**thermal gradients**

1982-12-01

*Coordinate the descriptor below with the descriptor for the temperature range involved. (Prior to June 1986, the temperature range was coordinated with TEMPERATURE DISTRIBUTION.)*

USE temperature gradients

**THERMAL GRAVIMETRIC ANALYSIS**

UF thermogravimetric analysis  
 UF thermogravimetry  
 \*BT1 gravimetric analysis  
 BT1 thermal analysis  
 RT decomposition

**THERMAL HYDRAULICS**

2003-10-21

UF thermohydraulics  
 \*BT1 hydraulics  
 RT flow models  
 RT fluid flow  
 RT temperature dependence  
 RT temperature distribution  
 RT thermal analysis  
 RT thermodynamics

**thermal insulating glass**

INIS: 2000-04-12; ETDE: 1983-03-23

SEE double glazing  
 SEE triple glazing

**THERMAL INSULATION**

1997-06-17

UF insulation (thermal)  
 UF vacuum insulation panels  
 RT air conditioning  
 RT bead walls  
 RT curtains  
 RT earth berms  
 RT energy conservation  
 RT fire resistance

RT heat mirrors  
 RT heat transfer  
 RT mineral wool  
 RT r factors  
 RT shielding  
 RT shutters  
 RT storm doors  
 RT storm windows  
 RT temperature control  
 RT thermal bridges  
 RT thermal conduction  
 RT thermal diffusivity  
 RT thermal shields  
 RT urea-formaldehyde foams  
 RT weatherization  
 RT weatherstripping

**thermal inversion**

INIS: 2000-04-12; ETDE: 1980-09-04  
 USE temperature inversions

**THERMAL MASS**

INIS: 2000-04-12; ETDE: 1978-07-05

UF mass (thermal)  
 BT1 mass  
 RT sensible heat storage

**thermal-nelson model**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE mathematical models  
 USE thermal spikes

**THERMAL NEUTRONS**

1996-07-08

*Neutrons in thermal equilibrium with the medium in which they exist.*

SF zemach-glauber formalism  
 \*BT1 neutrons  
 RT neutron temperature  
 RT thermal columns  
 RT thermal fission  
 RT watt fission spectrum

**thermal photography**

INIS: 1978-07-03; ETDE: 1977-09-19  
 USE infrared thermography

**THERMAL POLLUTION**

*Environmental temperature rise due to waste heat disposal.*

UF pollution (thermal)  
 UF thermal pollution (air)  
 UF thermal pollution (water)  
 BT1 pollution  
 RT environmental effects  
 RT plumes  
 RT thermal effluents  
 RT waste heat

**thermal pollution (air)**

USE air pollution  
 USE thermal pollution

**thermal pollution (water)**

USE thermal pollution  
 USE water pollution

**THERMAL POWER PLANTS**

BT1 power plants  
 NT1 combined-cycle power plants  
 NT2 mhd generator etf  
 NT1 fossil-fuel power plants  
 NT2 kingston steam plant  
 NT2 paradise steam plant  
 NT2 shawnee steam plant  
 NT2 widows creek steam plant  
 NT1 geothermal power plants  
 NT1 nuclear power plants  
 NT2 bopssar standard plant  
 NT2 ebasco standard plant

NT2 gibbsar standard plant  
 NT2 offshore nuclear power plants  
 NT2 swessar standard plant  
 NT2 underground nuclear stations  
 NT1 ocean thermal power plants  
 NT1 refuse-fueled power plants  
 NT1 solar thermal power plants  
 NT2 distributed collector power plants  
 NT2 tower focus power plants  
 NT3 barstow solar pilot plant  
 NT1 thermonuclear power plants  
 NT1 wood-fuel power plants  
 RT district heating  
 RT heat rate  
 RT peaking power plants

**thermal properties**

USE thermodynamic properties

**THERMAL RADIATION**

\*BT1 electromagnetic radiation  
 RT blackbody radiation  
 RT heat transfer  
 RT infrared radiation  
 RT radiant heat transfer  
 RT rosseland approximation  
 RT thermodynamic properties

**THERMAL REACTORS**

1996-02-09

BT1 reactors  
 NT1 aeg-pr-10 reactor  
 NT1 aerojet-general nucleonics reactors  
 NT2 agn 201 costanza  
 NT1 afri reactor  
 NT1 agesta reactor  
 NT1 ai-1-77 reactor  
 NT1 akr-1 reactor  
 NT1 alrr reactor  
 NT1 anex reactor  
 NT1 anna reactor  
 NT1 aps reactor  
 NT1 apsar reactor  
 NT1 aquilon reactor  
 NT1 arbi reactor  
 NT1 arbus reactor  
 NT1 argonaut reactor  
 NT1 argos reactor  
 NT1 argus reactor  
 NT1 armf-1 reactor  
 NT1 astra reactor  
 NT1 athene reactor  
 NT1 atrp reactor  
 NT1 atr reactor  
 NT1 atrc reactor  
 NT1 atrs reactor  
 NT1 atucha-1 reactor  
 NT1 atucha-2 reactor  
 NT1 avogadro rs-1 reactor  
 NT1 avr reactor  
 NT1 bawtr reactor  
 NT1 beloyarsk-1 reactor  
 NT1 beloyarsk-2 reactor  
 NT1 bepo reactor  
 NT1 ber-2 reactor  
 NT1 berkeley reactor  
 NT1 bgrr reactor  
 NT1 bilibin reactor  
 NT1 bohunice a-1 reactor  
 NT1 bohunice a-2 reactor  
 NT1 borax-1 reactor  
 NT1 borax-2 reactor  
 NT1 borax-3 reactor  
 NT1 borax-4 reactor  
 NT1 borax-5 reactor  
 NT1 br-02 reactor  
 NT1 br-1 reactor  
 NT1 br-2 reactor  
 NT1 bradwell reactor  
 NT1 brr reactor

NT1	bsr-1 reactor	NT2	higashidori-1 reactor	NT2	tullnerfeld reactor
NT1	bsr-2 reactor	NT2	hope creek-1 reactor	NT2	vak reactor
NT1	budapest training reactor	NT2	hope creek-2 reactor	NT2	vbwr reactor
NT1	bugey-1 reactor	NT2	humboldt bay reactor	NT2	vermont yankee reactor
NT1	bwr type reactors	NT2	isar reactor	NT2	verplanck-1 reactor
NT2	allens creek-1 reactor	NT2	jpdr-2 reactor	NT2	verplanck-2 reactor
NT2	allens creek-2 reactor	NT2	jpdr reactor	NT2	vk-50 reactor
NT2	bailly-1 reactor	NT2	kaiseraugst reactor	NT2	wnp-2 reactor
NT2	barsebaeck-1 reactor	NT2	kashiwazaki-kariwa-1 reactor	NT2	wuergassen reactor
NT2	barsebaeck-2 reactor	NT2	kashiwazaki-kariwa-2 reactor	NT2	zimmer-1 reactor
NT2	barton-1 reactor	NT2	kashiwazaki-kariwa-3 reactor	NT2	zimmer-2 reactor
NT2	barton-2 reactor	NT2	kashiwazaki-kariwa-4 reactor	NT1	byu 1-77 reactor
NT2	barton-3 reactor	NT2	kashiwazaki-kariwa-5 reactor	NT1	cabri reactor
NT2	barton-4 reactor	NT2	kashiwazaki-kariwa-6 reactor	NT1	calder hall a-1 reactor
NT2	bell reactor	NT2	kashiwazaki-kariwa-7 reactor	NT1	calder hall a-2 reactor
NT2	big rock point reactor	NT2	krummel reactor	NT1	calder hall b-3 reactor
NT2	black fox-1 reactor	NT2	kuosheng-1 reactor	NT1	calder hall b-4 reactor
NT2	black fox-2 reactor	NT2	kuosheng-2 reactor	NT1	candu type reactors
NT2	bolsa chica-1 reactor	NT2	la salle county-1 reactor	NT2	bruce-1 reactor
NT2	bolsa chica-2 reactor	NT2	la salle county-2 reactor	NT2	bruce-2 reactor
NT2	bonus reactor	NT2	lacbwr reactor	NT2	bruce-3 reactor
NT2	browns ferry-1 reactor	NT2	laguna verde-1 reactor	NT2	bruce-4 reactor
NT2	browns ferry-2 reactor	NT2	laguna verde-2 reactor	NT2	bruce-5 reactor
NT2	browns ferry-3 reactor	NT2	leibstadt reactor	NT2	bruce-6 reactor
NT2	brunsbuettel reactor	NT2	limerick-1 reactor	NT2	bruce-7 reactor
NT2	brunswick-1 reactor	NT2	limerick-2 reactor	NT2	bruce-8 reactor
NT2	brunswick-2 reactor	NT2	lingen reactor	NT2	cernavoda-1 reactor
NT2	chinshan-1 reactor	NT2	lungmen-1 reactor	NT2	cernavoda-2 reactor
NT2	chinshan-2 reactor	NT2	lungmen-2 reactor	NT2	cordoba reactor
NT2	clinton-1 reactor	NT2	mendocino-1 reactor	NT2	darlington-1 reactor
NT2	clinton-2 reactor	NT2	mendocino-2 reactor	NT2	darlington-2 reactor
NT2	cofrentes reactor	NT2	millstone-1 reactor	NT2	darlington-3 reactor
NT2	cooper reactor	NT2	montague-1 reactor	NT2	darlington-4 reactor
NT2	dodewaard reactor	NT2	montague-2 reactor	NT2	douglas point ontario reactor
NT2	douglas point-1 reactor	NT2	montalto di castro-1 reactor	NT2	embalse reactor
NT2	douglas point-2 reactor	NT2	montalto di castro-2 reactor	NT2	gentilly-1 reactor
NT2	dresden-1 reactor	NT2	monticello reactor	NT2	gentilly-2 reactor
NT2	dresden-2 reactor	NT2	muehleberg reactor	NT2	kaiga-1 reactor
NT2	dresden-3 reactor	NT2	nine mile point-1 reactor	NT2	kaiga-2 reactor
NT2	duane arnold-1 reactor	NT2	nine mile point-2 reactor	NT2	kakrapar-1 reactor
NT2	ebwr reactor	NT2	okg-1 reactor	NT2	kakrapar-2 reactor
NT2	enel-4 reactor	NT2	okg-2 reactor	NT2	kanupp reactor
NT2	enrico fermi-2 reactor	NT2	okg-3 reactor	NT2	npd reactor
NT2	err reactor	NT2	olkiluoto-1 reactor	NT2	pickering-1 reactor
NT2	fitzpatrick reactor	NT2	olkiluoto-2 reactor	NT2	pickering-2 reactor
NT2	forsmark-1 reactor	NT2	onagawa-1 reactor	NT2	pickering-3 reactor
NT2	forsmark-2 reactor	NT2	onagawa-2 reactor	NT2	pickering-4 reactor
NT2	forsmark-3 reactor	NT2	onagawa-3 reactor	NT2	pickering-5 reactor
NT2	fukushima-1 reactor	NT2	oyster creek-1 reactor	NT2	pickering-6 reactor
NT2	fukushima-2 reactor	NT2	pathfinder reactor	NT2	pickering-7 reactor
NT2	fukushima-3 reactor	NT2	peach bottom-2 reactor	NT2	pickering-8 reactor
NT2	fukushima-4 reactor	NT2	peach bottom-3 reactor	NT2	point lepreau-1 reactor
NT2	fukushima-5 reactor	NT2	perry-1 reactor	NT2	point lepreau-2 reactor
NT2	fukushima-6 reactor	NT2	perry-2 reactor	NT2	qinshan-3-1 reactor
NT2	fukushima-ii-1 reactor	NT2	philippsburg-1 reactor	NT2	qinshan-3-2 reactor
NT2	fukushima-ii-2 reactor	NT2	phippis bend-1 reactor	NT2	rajasthan-1 reactor
NT2	fukushima-ii-3 reactor	NT2	phippis bend-2 reactor	NT2	rajasthan-2 reactor
NT2	fukushima-ii-4 reactor	NT2	pilgrim-1 reactor	NT2	rajasthan-3 reactor
NT2	garigliano reactor	NT2	quad cities-1 reactor	NT2	rajasthan-4 reactor
NT2	garona reactor	NT2	quad cities-2 reactor	NT2	wolsung-1 reactor
NT2	ge standard reactor	NT2	ringhals-1 reactor	NT2	wolsung-2 reactor
NT2	graben-1 reactor	NT2	river bend-1 reactor	NT2	wolsung-3 reactor
NT2	graben-2 reactor	NT2	river bend-2 reactor	NT2	wolsung-4 reactor
NT2	grand gulf-1 reactor	NT2	rwe-bayernwerk reactor	NT1	carem 25 reactor
NT2	grand gulf-2 reactor	NT2	shika-1 reactor	NT1	cesar reactor
NT2	gundremmingen-2 reactor	NT2	shika-2 reactor	NT1	cesnef reactor
NT2	gundremmingen-3 reactor	NT2	shimane-1 reactor	NT1	chapelcross-1 reactor
NT2	hamaoka-1 reactor	NT2	shimane-2 reactor	NT1	chapelcross-2 reactor
NT2	hamaoka-2 reactor	NT2	shimane-3 reactor	NT1	chapelcross-3 reactor
NT2	hamaoka-3 reactor	NT2	shoreham reactor	NT1	chapelcross-4 reactor
NT2	hamaoka-4 reactor	NT2	skagit-1 reactor	NT1	chernobylsk-1 reactor
NT2	hamaoka-5 reactor	NT2	skagit-2 reactor	NT1	chernobylsk-2 reactor
NT2	hartsville-1 reactor	NT2	sl-1 reactor	NT1	chernobylsk-3 reactor
NT2	hartsville-2 reactor	NT2	susquehanna-1 reactor	NT1	chernobylsk-4 reactor
NT2	hartsville-3 reactor	NT2	susquehanna-2 reactor	NT1	chinon-a1 reactor
NT2	hartsville-4 reactor	NT2	tarapur-1 reactor	NT1	chinon-a2 reactor
NT2	hatch-1 reactor	NT2	tarapur-2 reactor	NT1	chinon-a3 reactor
NT2	hatch-2 reactor	NT2	tokai-2 reactor	NT1	cirene reactor
NT2	hdr reactor	NT2	tsuruga reactor	NT1	cirus reactor

NT1	consort-2 reactor	NT1	irt-c reactor	NT1	pik reactor
NT1	cp-2 reactor	NT1	irt-f reactor	NT1	pluto reactor
NT1	cp-3 reactor	NT1	irt reactor	NT1	pnpf reactor
NT1	cp-3m reactor	NT1	irt-sofia reactor	NT1	prr reactor
NT1	cp-5 reactor	NT1	isis reactor	NT1	psbr reactor
NT1	cvtr reactor	NT1	ivv-2m reactor	NT1	pse reactor
NT1	democritus reactor	NT1	janus reactor	NT1	pur-1 reactor
NT1	dhruva reactor	NT1	jatr reactor	NT1	pumima-3 reactor
NT1	dido reactor	NT1	jen-1 reactor	NT1	pwr type reactors
NT1	dimple reactor	NT1	jen reactor	NT2	aguirre reactor
NT1	dmtr reactor	NT1	jules horowitz reactor	NT2	almaraz-1 reactor
NT1	dow triga-mk-1 reactor	NT1	juno reactor	NT2	almaraz-2 reactor
NT1	dr-1 reactor	NT1	kaiga-3 reactor	NT2	angra-1 reactor
NT1	dr-2 reactor	NT1	kaiga-4 reactor	NT2	angra-2 reactor
NT1	dr-3 reactor	NT1	kamini reactor	NT2	angra-3 reactor
NT1	dragon reactor	NT1	knk reactor	NT2	arkansas-1 reactor
NT1	dungeness-a reactor	NT1	kuhfr reactor	NT2	arkansas-2 reactor
NT1	dungeness-b reactor	NT1	kursk-1 reactor	NT2	asco-1 reactor
NT1	ebor reactor	NT1	kursk-2 reactor	NT2	asco-2 reactor
NT1	egcr reactor	NT1	kursk-3 reactor	NT2	atlantic-1 reactor
NT1	el-1 reactor	NT1	kursk-4 reactor	NT2	atlantic-2 reactor
NT1	el-2 reactor	NT1	latina reactor	NT2	basf-1 reactor
NT1	el-4 reactor	NT1	leningrad-1 reactor	NT2	basf-2 reactor
NT1	eocr reactor	NT1	leningrad-2 reactor	NT2	beaver valley-1 reactor
NT1	es-salam reactor	NT1	leningrad-3 reactor	NT2	beaver valley-2 reactor
NT1	esada-vesr reactor	NT1	leningrad-4 reactor	NT2	bellefonte-1 reactor
NT1	essor reactor	NT1	lfr reactor	NT2	bellefonte-2 reactor
NT1	etr reactor	NT1	lido reactor	NT2	belleville-1 reactor
NT1	etrc reactor	NT1	litr reactor	NT2	belleville-2 reactor
NT1	etrr-2 reactor	NT1	lpr reactor	NT2	beznau-1 reactor
NT1	ewg-1 reactor	NT1	lptr reactor	NT2	beznau-2 reactor
NT1	fir-1 reactor	NT1	lucens reactor	NT2	biblis-1 reactor
NT1	fmr reactor	NT1	lvr-15 reactor	NT2	biblis-2 reactor
NT1	fr-2 reactor	NT1	lwbr type reactors	NT2	biblis-3 reactor
NT1	frg-1 reactor	NT1	maria reactor	NT2	biblis-4 reactor
NT1	frm-ii reactor	NT1	marius reactor	NT2	blayais-1 reactor
NT1	fulton-1 reactor	NT1	melusine-1 reactor	NT2	blayais-2 reactor
NT1	fulton-2 reactor	NT1	merlin reactor	NT2	blayais-3 reactor
NT1	g-1 reactor	NT1	minerve reactor	NT2	blayais-4 reactor
NT1	g-2 reactor	NT1	mir reactor	NT2	blue hills-1 reactor
NT1	g-3 reactor	NT1	mitr reactor	NT2	blue hills-2 reactor
NT1	ga siwabessy reactor	NT1	mnsr type reactors	NT2	borsele reactor
NT1	ga standard reactor	NT2	entc mnsr reactor	NT2	br-3 reactor
NT1	getr reactor	NT2	gharr-1 reactor	NT2	braidwood-1 reactor
NT1	gidra reactor	NT2	mnsr-ciae reactor	NT2	braidwood-2 reactor
NT1	gleep reactor	NT2	mnsr-sd reactor	NT2	brokdorf reactor
NT1	hartlepool reactor	NT2	mnsr-sh reactor	NT2	bugey-2 reactor
NT1	hbwr reactor	NT2	mnsr-sz reactor	NT2	bugey-3 reactor
NT1	hector reactor	NT2	nirr-1 reactor	NT2	bugey-4 reactor
NT1	herald reactor	NT2	parr-2 reactor	NT2	bugey-5 reactor
NT1	hew-305 reactor	NT2	srr-1 reactor	NT2	bw standard reactor
NT1	heysham-a reactor	NT1	mrr reactor	NT2	byron-1 reactor
NT1	heysham-b reactor	NT1	msre reactor	NT2	byron-2 reactor
NT1	hfbr reactor	NT1	mtr reactor	NT2	calhoun-1 reactor
NT1	hfetr reactor	NT1	mzfr reactor	NT2	calhoun-2 reactor
NT1	hfir reactor	NT1	nbsr reactor	NT2	callaway-1 reactor
NT1	hfr reactor	NT1	nscr-1 reactor	NT2	callaway-2 reactor
NT1	hifar reactor	NT1	nestor reactor	NT2	calvert cliffs-1 reactor
NT1	hinkley point-a reactor	NT1	netr reactor	NT2	calvert cliffs-2 reactor
NT1	hinkley point-b reactor	NT1	nevada university reactor	NT2	carem 25 reactor
NT1	hitrex-1 reactor	NT1	nhr-5 reactor	NT2	catawba-1 reactor
NT1	hnpf reactor	NT1	niederaichbach reactor	NT2	catawba-2 reactor
NT1	hor reactor	NT1	nora reactor	NT2	cattenom-1 reactor
NT1	htr reactor	NT1	nrx reactor	NT2	cattenom-2 reactor
NT1	hunterston-a reactor	NT1	ntr reactor	NT2	cattenom-3 reactor
NT1	hunterston-b reactor	NT1	nur reactor	NT2	cattenom-4 reactor
NT1	hwctr reactor	NT1	oldbury-a reactor	NT2	ce standard reactor
NT1	hwzpr reactor	NT1	oldbury-b reactor	NT2	changjiang-1 reactor
NT1	ian-r1 reactor	NT1	opal reactor	NT2	changjiang-2 reactor
NT1	iear-1 reactor	NT1	osiris reactor	NT2	chasnupp-1 reactor
NT1	ignalina-1 reactor	NT1	owr reactor	NT2	chasnupp-2 reactor
NT1	ignalina-2 reactor	NT1	pctr reactor	NT2	chasnupp-3 reactor
NT1	igr reactor	NT1	peach bottom-1 reactor	NT2	cherokee-1 reactor
NT1	irl reactor	NT1	pegase reactor	NT2	cherokee-2 reactor
NT1	irr-1 reactor	NT1	pelinduna reactor	NT2	cherokee-3 reactor
NT1	irt-1 libya reactor	NT1	perryman-1 reactor	NT2	chinon-b1 reactor
NT1	irt-2000 djakarta reactor	NT1	perryman-2 reactor	NT2	chinon-b2 reactor
NT1	irt-2000 moscow reactor	NT1	phebus reactor	NT2	chinon-b3 reactor
NT1	irt-baghdad reactor	NT1	pik physical model reactor	NT2	chinon-b4 reactor



NT2	chooz-a reactor	NT2	harris-1 reactor	NT2	oconee-2 reactor
NT2	chooz-b1 reactor	NT2	harris-2 reactor	NT2	oconee-3 reactor
NT2	chooz-b2 reactor	NT2	harris-3 reactor	NT2	oi-1 reactor
NT2	civaux-1 reactor	NT2	harris-4 reactor	NT2	oi-2 reactor
NT2	civaux-2 reactor	NT2	haven-1 reactor	NT2	oi-3 reactor
NT2	comanche peak-1 reactor	NT3	koshkonong-1 reactor	NT2	oi-4 reactor
NT2	comanche peak-2 reactor	NT2	haven-2 reactor	NT2	oktemberyan-2 reactor
NT2	connecticut yankee reactor	NT3	koshkonong-2 reactor	NT2	olkiluoto-3 reactor
NT2	cook-1 reactor	NT2	hongyanhe-1 reactor	NT2	otto hahn reactor
NT2	cook-2 reactor	NT2	hongyanhe-2 reactor	NT2	palisades-1 reactor
NT2	cruas-1 reactor	NT2	hongyanhe-3 reactor	NT2	palo verde-1 reactor
NT2	cruas-2 reactor	NT2	hongyanhe-4 reactor	NT2	palo verde-2 reactor
NT2	cruas-3 reactor	NT2	ikata-2 reactor	NT2	palo verde-3 reactor
NT2	cruas-4 reactor	NT2	ikata-3 reactor	NT2	palo verde-4 reactor
NT2	crystal river-3 reactor	NT2	ikata reactor	NT2	palo verde-5 reactor
NT2	crystal river-4 reactor	NT2	indian point-1 reactor	NT2	paluel-1 reactor
NT2	dampierre-1 reactor	NT2	indian point-2 reactor	NT2	paluel-2 reactor
NT2	dampierre-2 reactor	NT2	indian point-3 reactor	NT2	paluel-3 reactor
NT2	dampierre-3 reactor	NT2	iran-1 reactor	NT2	paluel-4 reactor
NT2	dampierre-4 reactor	NT2	iran-2 reactor	NT2	pat reactor
NT2	davis besse-1 reactor	NT2	isar-2 reactor	NT2	pebble springs-1 reactor
NT2	davis besse-2 reactor	NT2	jamesport-1 reactor	NT2	pebble springs-2 reactor
NT2	davis besse-3 reactor	NT2	jamesport-2 reactor	NT2	penly-1 reactor
NT2	daya bay-1 reactor	NT2	kewaunee reactor	NT2	penly-2 reactor
NT2	daya bay-2 reactor	NT2	koeberg-1 reactor	NT2	penly-3 reactor
NT2	diablo canyon-1 reactor	NT2	koeberg-2 reactor	NT2	perkins-1 reactor
NT2	diablo canyon-2 reactor	NT2	kori-1 reactor	NT2	perkins-2 reactor
NT2	doel-1 reactor	NT2	kori-2 reactor	NT2	perkins-3 reactor
NT2	doel-2 reactor	NT2	kori-3 reactor	NT2	philippsburg-2 reactor
NT2	doel-3 reactor	NT2	kori-4 reactor	NT2	pilgrim-2 reactor
NT2	doel-4 reactor	NT2	krsko reactor	NT2	pilgrim-3 reactor
NT2	efdr-50 reactor	NT2	lemoniz-1 reactor	NT2	pm-2a reactor
NT2	emsland reactor	NT2	lemoniz-2 reactor	NT2	pm-3a reactor
NT2	erie-1 reactor	NT2	lenin reactor	NT2	pnp-1 reactor
NT2	erie-2 reactor	NT2	leonid brezhnev reactor	NT2	point beach-1 reactor
NT2	fangchenggang-1 reactor	NT2	lingao-1 reactor	NT2	point beach-2 reactor
NT2	fangchenggang-2 reactor	NT2	lingao-2 reactor	NT2	prairie island-1 reactor
NT2	fangjiashan-1 reactor	NT2	lingao-3 reactor	NT2	prairie island-2 reactor
NT2	fangjiashan-2 reactor	NT2	lingao-4 reactor	NT2	qinshan-1 reactor
NT2	farley-1 reactor	NT2	loft reactor	NT2	qinshan-2-1 reactor
NT2	farley-2 reactor	NT2	lucie-1 reactor	NT2	qinshan-2-2 reactor
NT2	fessenheim-1 reactor	NT2	lucie-2 reactor	NT2	qinshan-2-3 reactor
NT2	fessenheim-2 reactor	NT2	maanshan-1 reactor	NT2	qinshan-2-4 reactor
NT2	flamanville-1 reactor	NT2	maanshan-2 reactor	NT2	quanicassee-1 reactor
NT2	flamanville-2 reactor	NT2	maine yankee reactor	NT2	quanicassee-2 reactor
NT2	flamanville-3 reactor	NT2	malibu-1 reactor	NT2	rancho seco-1 reactor
NT2	forked river-1 reactor	NT2	marble hill-1 reactor	NT2	remerschen reactor
NT2	fuqing-1 reactor	NT2	marble hill-2 reactor	NT2	rheinsberg akw1 reactor
NT2	fuqing-2 reactor	NT2	mc guire-1 reactor	NT2	ringhals-2 reactor
NT2	fuqing-3 reactor	NT2	mc guire-2 reactor	NT2	ringhals-3 reactor
NT2	fuqing-4 reactor	NT2	mh-1a reactor	NT2	ringhals-4 reactor
NT2	fuqing-5 reactor	NT2	midland-1 reactor	NT2	robinson-2 reactor
NT2	fuqing-6 reactor	NT2	midland-2 reactor	NT2	rooppur reactor
NT2	genkai-1 reactor	NT2	mihama-1 reactor	NT2	rowe yankee reactor
NT2	genkai-2 reactor	NT2	mihama-2 reactor	NT2	s1c prototype reactor
NT2	genkai-3 reactor	NT2	mihama-3 reactor	NT2	saint alban-1 reactor
NT2	genkai-4 reactor	NT2	millstone-2 reactor	NT2	saint alban-2 reactor
NT2	ginna-1 reactor	NT2	millstone-3 reactor	NT2	saint laurent-b1 reactor
NT2	goesgen reactor	NT2	muelheim-kaerlich reactor	NT2	saint laurent-b2 reactor
NT2	golfech-1 reactor	NT2	mutsu reactor	NT2	salem-1 reactor
NT2	golfech-2 reactor	NT2	neckar-1 reactor	NT2	salem-2 reactor
NT2	grafenrheinfeld reactor	NT2	neckar-2 reactor	NT2	san onofre-1 reactor
NT2	gravelines-1 reactor	NT2	nep-1 reactor	NT2	san onofre-2 reactor
NT2	gravelines-2 reactor	NT2	nep-2 reactor	NT2	san onofre-3 reactor
NT2	gravelines-3 reactor	NT2	neupotz-1 reactor	NT2	savannah reactor
NT2	gravelines-4 reactor	NT2	neupotz-2 reactor	NT2	saxton reactor
NT2	gravelines-5 reactor	NT2	ningde-1 reactor	NT2	seabrook-1 reactor
NT2	gravelines-6 reactor	NT2	ningde-2 reactor	NT2	seabrook-2 reactor
NT2	greene county reactor	NT2	ningde-3 reactor	NT2	selni reactor
NT2	greenwood-2 reactor	NT2	ningde-4 reactor	NT2	sendai-1 reactor
NT2	greenwood-3 reactor	NT2	nogent-1 reactor	NT2	sendai-2 reactor
NT2	grohnde reactor	NT2	nogent-2 reactor	NT2	sequoyah-1 reactor
NT2	hamm-uentrop reactor	NT2	north anna-1 reactor	NT2	sequoyah-2 reactor
NT2	hanbit-1 reactor	NT2	north anna-2 reactor	NT2	shin-kori-1 reactor
NT2	hanbit-2 reactor	NT2	north anna-3 reactor	NT2	shin-kori-2 reactor
NT2	hanbit-3 reactor	NT2	north anna-4 reactor	NT2	shin-kori-3 reactor
NT2	hanbit-4 reactor	NT2	north coast-1 reactor	NT2	shin-wolsong-1 reactor
NT2	hanbit-5 reactor	NT2	obrigheim reactor	NT2	shippingport reactor
NT2	hanbit-6 reactor	NT2	oconee-1 reactor	NT2	sizewell-b reactor

NT2	sm-1 reactor	NT3	dukovany-3 reactor	NT1	ra-6 reactor
NT2	sm-1a reactor	NT3	dukovany-4 reactor	NT1	ra-8 reactor
NT2	south texas project-1 reactor	NT3	greifswald-1 reactor	NT1	rajasthan-5 reactor
NT2	south texas project-2 reactor	NT3	greifswald-2 reactor	NT1	rajasthan-6 reactor
NT2	stade reactor	NT3	greifswald-3 reactor	NT1	rb-1 reactor
NT2	sterling-1 reactor	NT3	greifswald-4 reactor	NT1	rb-2 reactor
NT2	sterling-2 reactor	NT3	greifswald-5 reactor	NT1	rg-1m reactor
NT2	summer-1 reactor	NT3	greifswald-6 reactor	NT1	ritmo reactor
NT2	sundesert-1 reactor	NT3	juragua-1 reactor	NT1	rts-1 reactor
NT2	sundesert-2 reactor	NT3	kalinin-1 reactor	NT1	safari-1 reactor
NT2	surry-1 reactor	NT3	kalinin-2 reactor	NT1	saint laurent-a1 reactor
NT2	surry-2 reactor	NT3	kalinin-3 reactor	NT1	saint laurent-a2 reactor
NT2	surry-3 reactor	NT3	kalinin-4 reactor	NT1	saphir reactor
NT2	surry-4 reactor	NT3	kecerovce-1 reactor	NT1	scarabee reactor
NT2	takahama-1 reactor	NT3	khmelnitskij-1 reactor	NT1	sghwr reactor
NT2	takahama-2 reactor	NT3	khmelnitskij-2 reactor	NT1	shca reactor
NT2	takahama-3 reactor	NT3	kola-1 reactor	NT1	siloe reactor
NT2	takahama-4 reactor	NT3	kola-2 reactor	NT1	siloette reactor
NT2	three mile island-1 reactor	NT3	kola-3 reactor	NT1	sizewell-a reactor
NT2	three mile island-2 reactor	NT3	kola-4 reactor	NT1	sm-2 reactor
NT2	tihange-2 reactor	NT3	kozloduy-1 reactor	NT1	smolensk-1 reactor
NT2	tihange-3 reactor	NT3	kozloduy-2 reactor	NT1	smolensk-2 reactor
NT2	tihange reactor	NT3	kozloduy-3 reactor	NT1	smolensk-3 reactor
NT2	tomari-1 reactor	NT3	kozloduy-4 reactor	NT1	spert-1 reactor
NT2	tomari-2 reactor	NT3	kozloduy-5 reactor	NT1	spert-2 reactor
NT2	tomari-3 reactor	NT3	kozloduy-6 reactor	NT1	spert-3 reactor
NT2	tricastin-1 reactor	NT3	kudankulam-1 reactor	NT1	spert-4 reactor
NT2	tricastin-2 reactor	NT3	kudankulam-2 reactor	NT1	spr-2 reactor
NT2	tricastin-3 reactor	NT3	loviisa-1 reactor	NT1	sr-1 reactor
NT2	tricastin-4 reactor	NT3	loviisa-2 reactor	NT1	sr-305 reactor
NT2	trillo-1 reactor	NT3	mochovce-1 reactor	NT1	sr-3p reactor
NT2	trojan reactor	NT3	mochovce-2 reactor	NT1	sre reactor
NT2	tsuruga-2 reactor	NT3	novovoronezh-1 reactor	NT1	srcc-utr-100 reactor
NT2	turkey point-3 reactor	NT3	novovoronezh-2 reactor	NT1	stark reactor
NT2	turkey point-4 reactor	NT3	novovoronezh-3 reactor	NT1	stek reactor
NT2	tva-1 reactor	NT3	novovoronezh-4 reactor	NT1	stir reactor
NT2	tva-2 reactor	NT3	novovoronezh-5 reactor	NT1	supo reactor
NT2	tyrone-1 reactor	NT3	paks-1 reactor	NT1	sur-100 series reactor
NT2	tyrone-2 reactor	NT3	paks-2 reactor	NT1	taiwan research reactor
NT2	ulchin-1 reactor	NT3	paks-3 reactor	NT1	tarapur-3 reactor
NT2	ulchin-2 reactor	NT3	paks-4 reactor	NT1	tarapur-4 reactor
NT2	ulchin-3 reactor	NT3	rostov-1 reactor	NT1	thermos reactor
NT2	ulchin-4 reactor	NT3	rostov-2 reactor	NT1	thetis reactor
NT2	ulchin-5 reactor	NT3	rostov-3 reactor	NT1	thtr-300 reactor
NT2	ulchin-6 reactor	NT3	rovno-1 reactor	NT1	tokai-mura reactor
NT2	unterweser reactor	NT3	rovno-2 reactor	NT1	torness reactor
NT2	vahnum-1 reactor	NT3	rovno-3 reactor	NT1	toshiba reactor
NT2	vahnum-2 reactor	NT3	rovno-4 reactor	NT1	tr-1 reactor
NT2	vandellos-2 reactor	NT3	rovno-5 reactor	NT1	tr-2 reactor
NT2	vogtle-1 reactor	NT3	south ukrainian-1 reactor	NT1	trawsfynydd reactor
NT2	vogtle-2 reactor	NT3	south ukrainian-2 reactor	NT1	treat reactor
NT2	vogtle-3 reactor	NT3	south ukrainian-3 reactor	NT1	trico ii reactor
NT2	vogtle-4 reactor	NT3	stendal-1 reactor	NT1	trico reactor
NT2	waterford-3 reactor	NT3	tatarian reactor	NT1	triga-1-california reactor
NT2	waterford-4 reactor	NT3	temelin-1 reactor	NT1	triga-1-hanover reactor
NT2	watts bar-1 reactor	NT3	temelin-2 reactor	NT1	triga-1-heidelberg reactor
NT2	watts bar-2 reactor	NT3	tianwan-1 reactor	NT1	triga-1-michigan reactor
NT2	westinghouse standard reactor	NT3	tianwan-2 reactor	NT1	triga-2-bandung reactor
NT2	wnp-1 reactor	NT3	zaporozhe-1 reactor	NT1	triga-2-bangladesh reactor
NT2	wnp-3 reactor	NT3	zaporozhe-2 reactor	NT1	triga-2-dalat reactor
NT2	wnp-4 reactor	NT3	zaporozhe-3 reactor	NT1	triga-2-illinois reactor
NT2	wnp-5 reactor	NT3	zaporozhe-4 reactor	NT1	triga-2-kansas reactor
NT2	wolf creek-1 reactor	NT3	zaporozhe-5 reactor	NT1	triga-2-ljubljana reactor
NT2	wup-3 reactor	NT3	zaporozhe-6 reactor	NT1	triga-2-mainz reactor
NT2	wup-4 reactor	NT2	wyhl-1 reactor	NT1	triga-2-musashi reactor
NT2	wup-5 reactor	NT2	wyhl-2 reactor	NT1	triga-2-pavia reactor
NT2	wup-6 reactor	NT2	yangjiang-1 reactor	NT1	triga-2-pitesti reactor
NT2	wwer type reactors	NT2	yangjiang-2 reactor	NT1	triga-2 reactor
NT3	armenian-1 reactor	NT2	yangjiang-3 reactor	NT1	triga-2-rikkyo reactor
NT3	armenian-2 reactor	NT2	yangjiang-4 reactor	NT1	triga-2-rome reactor
NT3	balakovo-1 reactor	NT2	yellow creek-1 reactor	NT1	triga-2-seoul reactor
NT3	balakovo-2 reactor	NT2	yellow creek-2 reactor	NT1	triga-2-vienna reactor
NT3	balakovo-3 reactor	NT2	zion-1 reactor	NT1	triga-3-munich reactor
NT3	balakovo-4 reactor	NT2	zion-2 reactor	NT1	triga-3-salazar reactor
NT3	blahutovice-1 reactor	NT2	zorita-1 reactor	NT1	triga-3-seoul reactor
NT3	bohunice v-1 reactor	NT1	r-1 reactor	NT1	triga-brazil reactor
NT3	bohunice v-2 reactor	NT1	r-a reactor	NT1	triga-texas reactor
NT3	dukovany-1 reactor	NT1	ra-10 reactor	NT1	triga-veterans reactor
NT3	dukovany-2 reactor	NT1	ra-5 reactor	NT1	triton reactor

**NT1** trr-1 reactor  
**NT1** tz1 reactor  
**NT1** tz2 reactor  
**NT1** ucbr reactor  
**NT1** ufr reactor  
**NT1** uhtrex reactor  
**NT1** uknr reactor  
**NT1** ulyse reactor  
**NT1** umne-1 reactor  
**NT1** umrr reactor  
**NT1** urr reactor  
**NT1** utr-10-kinki reactor  
**NT1** utr reactor  
**NT1** uvar reactor  
**NT1** uwnr reactor  
**NT1** uwtr reactor  
**NT1** vandellos reactor  
**NT1** venus reactor  
**NT1** vg-400 reactor  
**NT1** vgr-50 reactor  
**NT1** vhtr reactor  
**NT1** vidal-1 reactor  
**NT1** vidal-2 reactor  
**NT1** voronezh ast-500 reactor  
**NT1** vpi-utr-10 reactor  
**NT1** vr-1 reactor  
**NT1** wagr reactor  
**NT1** windscale production reactors  
**NT1** wpir reactor  
**NT1** wr-1 reactor  
**NT1** wrrr reactor  
**NT1** wsur reactor  
**NT1** wtr reactor  
**NT1** wwr-2 reactor  
**NT1** wwr-k-almaty reactor  
**NT1** wwr-m-kiev reactor  
**NT1** wwr-m-leningrad reactor  
**NT1** wwr-s-bucharest reactor  
**NT1** wwr-s-budapest reactor  
**NT1** wwr-s-cairo reactor  
**NT1** wwr-s-moscow reactor  
**NT1** wwr-s-prague reactor  
**NT1** wwr-s-tashkent reactor  
**NT1** wwr-sm rossendorf reactor  
**NT1** wwr-z reactor  
**NT1** wylfa reactor  
**NT1** x-10 reactor  
**NT1** zed-2 reactor  
**NT1** zenith reactor  
**NT1** zerlina reactor  
**NT1** zlfr reactor  
**NT1** zpr reactor  
**RT** lwgr type reactors

**THERMAL RECOVERY**

*INIS: 1992-04-06; ETDE: 1981-05-18*

**BT1** enhanced recovery  
**RT** in-situ combustion  
**RT** steam injection

**THERMAL SHIELDS**

**BT1** shields  
**RT** thermal insulation

**THERMAL SHOCK**

**UF** shock (thermal)  
**RT** heat treatments  
**RT** thermal cycling  
**RT** thermal stresses

**THERMAL SPIKES**

*1996-07-23*

**UF** spikes (thermal)  
**UF** thermal-nelson model  
**RT** crystal defects  
**RT** radiation effects

**THERMAL SPRINGS**

*INIS: 2000-01-26; ETDE: 1976-01-23*

*Springs whose water temperature is appreciably higher than the local mean*

*annual atmospheric temperature. A thermal spring may be a hot spring or a warm spring.*

**SF** geothermal springs  
**SF** thermal waters  
**BT1** water springs  
**NT1** hot springs  
**NT2** geysers  
**NT1** warm springs  
**RT** geothermal energy  
**RT** geothermal fields  
**RT** hydrothermal systems  
**RT** mineral springs

**thermal storage**

*INIS: 1979-01-18; ETDE: 1979-02-05*

**USE** heat storage

**THERMAL STRESSES**

**BT1** stresses  
**RT** thermal fractures  
**RT** thermal fracturing  
**RT** thermal shock  
**RT** thermoelasticity

**thermal surveys**

*INIS: 2000-01-21; ETDE: 1980-02-11*

**USE** temperature surveys

**THERMAL TESTING**

**\*BT1** nondestructive testing  
**NT1** frost tests  
**RT** thermography

**THERMAL TRANSMISSION ICES**

*INIS: 2000-04-12; ETDE: 1978-10-23*

*High-quality thermal energy generated remotely and transmitted in thermal form to final cogeneration site.*

**\*BT1** ices program  
**RT** cogeneration  
**RT** district heating

**THERMAL UTILIZATION**

**RT** multiplication factors

**thermal waters**

*2000-03-29*

*Waters, generally of a spring or geyser, whose temperature is appreciably above the local mean annual air temperature.*

*(Prior to April 1994, this was a valid ETDE descriptor.)*

**SEE** geothermal fluids  
**SEE** geysers  
**SEE** hot springs  
**SEE** thermal springs

**THERMALIZATION**

*Establishment of thermal equilibrium between neutrons and their surroundings.*

**BT1** slowing-down

**thermally active structural components**

*2005-12-19*

*Use a descriptor for the specific structural component, e.g. FLOORS, WALLS, and one or more of the descriptors below.*

**SEE** cooling systems  
**SEE** heating systems  
**SEE** space hvac systems

**THERMIC DIODE SOLAR PANELS**

*INIS: 2000-04-12; ETDE: 1979-07-18*

**\*BT1** passive solar heating systems  
**\*BT1** passive solar water heaters  
**RT** heat storage  
**RT** solar collectors

**thermionic cells**

**USE** thermionic converters

**THERMIONIC COLLECTORS**

*INIS: 1978-08-30; ETDE: 1976-01-07*

**RT** anodes  
**RT** thermionic converters  
**RT** thermionic diodes

**THERMIONIC CONVERSION**

**\*BT1** direct energy conversion  
**RT** thermionic converters  
**RT** thermionic diodes

**THERMIONIC CONVERTERS**

**UF** thermionic cells  
**UF** thermionic generators  
**BT1** direct energy converters  
**RT** thermionic collectors  
**RT** thermionic conversion  
**RT** thermionic diodes  
**RT** thermionic emitters  
**RT** thermionic fuel elements  
**RT** thermionic reactors  
**RT** topaz reactor

**THERMIONIC DIODES**

**UF** plasma diodes  
**\*BT1** diode tubes  
**\*BT1** thermionic tubes  
**RT** magnetic insulation  
**RT** semiconductor diodes  
**RT** thermionic collectors  
**RT** thermionic conversion  
**RT** thermionic converters  
**RT** thermionic emission  
**RT** thermionic emitters

**THERMIONIC EMISSION**

**BT1** emission  
**RT** electron emission  
**RT** electron tubes  
**RT** thermionic diodes  
**RT** thermionic emitters

**THERMIONIC EMITTERS**

*INIS: 1978-07-31; ETDE: 1976-01-07*

**RT** cathodes  
**RT** electron sources  
**RT** thermionic converters  
**RT** thermionic diodes  
**RT** thermionic emission

**THERMIONIC FUEL ELEMENTS**

**\*BT1** fuel elements  
**RT** thermionic converters  
**RT** thermionic reactors

**thermionic generators**

**USE** thermionic converters

**thermionic reactor critical experiments**

*2000-04-12*

*(Prior to February 1995, this was a valid ETDE descriptor.)*

**USE** thermionic reactors  
**USE** zero power reactors

**thermionic reactor experiment (trex)**

*2000-04-12*

**USE** thermionic reactors

**THERMIONIC REACTORS**

*Limited to reactors with in-core thermionic cells.*

**UF** in-core thermionic reactor  
**UF** itr reactor  
**UF** thermionic reactor critical experiments  
**UF** thermionic reactor experiment (trex)  
**UF** trex(thermionic reactor critical experiments)  
**\*BT1** power reactors

RT mobile reactors  
 RT snap reactors  
 RT thermionic converters  
 RT thermionic fuel elements

**THERMIONIC TUBES**

BT1 electron tubes  
 NT1 thermionic diodes  
 RT microwave tubes

**THERMIONICS**

RT richardson equation  
 RT schottky effect

**THERMISTORS**

BT1 semiconductor devices  
 RT resistors

**THERMITE PROCESS**

\*BT1 reduction  
 RT welding

**THERMOACTINOMYCES**

INIS: 2000-04-12; ETDE: 1979-03-29

\*BT1 bacteria  
 RT enzymatic hydrolysis

**THERMOCHEMICAL DIAGRAMS**

INIS: 1992-02-24; ETDE: 1982-02-23

\*BT1 diagrams  
 RT corrosion  
 RT phase studies  
 RT temperature dependence

**THERMOCHEMICAL HEAT****STORAGE**

INIS: 1993-06-04; ETDE: 1977-06-30  
*Storage of thermal energy in the heat of decomposition and recombination of reversible chemical reactions.*

UF chemical heat storage  
 \*BT1 heat storage  
 RT chemical heat pumps  
 RT dissociation heat  
 RT formation heat  
 RT reaction heat  
 RT thermal energy storage equipment  
 RT thermochemical processes

**THERMOCHEMICAL PROCESSES**

1999-02-01

UF *biothermohol process*  
 NT1 combustion  
 NT2 cocombustion  
 NT2 fluidized-bed combustion  
 NT2 in-situ combustion  
 NT2 oxyfuel combustion process  
 NT2 pulse combustion  
 NT2 reverse combustion  
 NT2 spontaneous combustion  
 NT2 staged combustion  
 NT1 gasification  
 NT2 biothermegas process  
 NT2 coal gasification  
 NT3 agglomerating ash process  
 NT3 arc coal process  
 NT3 babcock and wilcox-dupont process  
 NT3 beacon process  
 NT3 bgc-lurgi slagging process  
 NT3 bi-gas process  
 NT3 ce entrained fuel process  
 NT3 coalcon process  
 NT3 cogas process  
 NT3 combined-cycle fw process  
 NT3 consol synthetic gas process  
 NT3 cs-r process  
 NT3 dow gasification process  
 NT3 exxon gasification process  
 NT3 flash hydrolysis process  
 NT3 gegas process  
 NT3 gkt process

NT3 htw process  
 NT3 humboldt gasification process  
 NT3 hydrane process  
 NT3 hygas process  
 NT3 i g process  
 NT3 kbw gasification process  
 NT3 kellogg process  
 NT3 kilngas process  
 NT3 kloekner-iron bath coal gasification process  
 NT3 koppers process  
 NT3 koppers-totzek process  
 NT3 krw gasification process  
 NT3 lurgi cfb gasification process  
 NT3 lurgi process  
 NT3 lurgi slagging process  
 NT3 molten iron puregas process  
 NT3 molten salt coal gasification process  
 NT3 moving-burden process  
 NT3 occidental flash pyrolysis process  
 NT3 otto rummel slag bath process  
 NT3 peatgas process  
 NT3 prenflo process  
 NT3 ruhr 100 gasification process  
 NT3 saarberg-otto gasification process  
 NT3 seacoke process  
 NT3 shell-koppers gasification process  
 NT3 synthane process  
 NT3 texaco gasification process  
 NT3 tosco-dyne process  
 NT3 toscoal process  
 NT3 u-gas process  
 NT3 wellman-galusha process  
 NT3 wellman-incandescent process  
 NT3 westinghouse gasification process  
 NT3 woodall-duckham process  
 NT2 fluidized bed refuse gasification  
 NT2 in-situ gasification  
 NT1 liquefaction  
 NT2 coal liquefaction  
 NT3 bcl process  
 NT3 bergius process  
 NT3 catalytic hydrosolvation process  
 NT3 cffc process  
 NT3 coed process  
 NT3 costeam process  
 NT3 dow liquefaction process  
 NT3 Exxon liquefaction process  
 NT3 flash hydrolysis process  
 NT3 h-coal process  
 NT3 liquid phase methanol process  
 NT3 occidental flash pyrolysis process  
 NT3 pamco process  
 NT3 pyrosol process  
 NT3 sasol-ii process  
 NT3 sasol process  
 NT3 src-ii process  
 NT3 synthoil process  
 NT3 synthol process  
 NT3 tsl process  
 NT2 in-situ liquefaction  
 NT1 partial oxidation processes  
 NT1 pyrolysis  
 NT2 calcination  
 NT2 cracking  
 NT3 catalytic cracking  
 NT3 hydrocracking  
 NT3 thermal cracking  
 NT2 flash hydrolysis process  
 RT hydrogen production  
 RT thermochemical heat storage

**THERMOCHROMATOGRAPHY**

INIS: 1977-01-26; ETDE: 1977-04-13

\*BT1 chromatography

**THERMOCLINE**

2013-12-13

RT surface waters

RT temperature gradients

**THERMOCOUPLES**

UF *thermopiles*  
 BT1 measuring instruments  
 RT calorimetric dosimeters  
 RT fission thermocouple detectors  
 RT reactor control systems  
 RT temperature measurement  
 RT thermoelectric generators  
 RT thermoelectricity

**thermodiffusion**

INIS: 1984-12-04; ETDE: 2002-06-13

USE thermal diffusion

**THERMODYNAMIC ACTIVITY**

INIS: 1976-10-07; ETDE: 1976-11-01

*Used instead of molar fractions in non-ideal solutions.*

UF activity coefficient  
 UF chemical activity  
 RT chemical reactions  
 RT concentration ratio  
 RT equilibrium  
 RT phase studies  
 RT thermodynamics

**THERMODYNAMIC CYCLES**

1996-08-05

UF cycles (thermodynamic)  
 NT1 absorption refrigeration cycle  
 NT1 bottoming cycles  
 NT1 brayton cycle  
 NT1 carnot cycle  
 NT1 combined cycles  
 NT1 ericsson cycle  
 NT1 lift cycles  
 NT2 mist-lift cycles  
 NT1 otto cycle  
 NT1 rankine cycle  
 NT1 stirling cycle  
 NT1 vapor compression refrigeration cycle  
 NT1 vuilleumier cycle  
 RT binary-fluid systems  
 RT flashed steam systems  
 RT heat engines  
 RT thermodynamics  
 RT topping cycles  
 RT total flow systems

**THERMODYNAMIC MODEL**

\*BT1 particle models  
 \*BT1 statistical models  
 NT1 hydrodynamic model

**THERMODYNAMIC MOLECULAR MODEL**

\*BT1 molecular models

**THERMODYNAMIC PROPERTIES**

UF heat transfer properties  
 UF thermal properties  
 SF mean radiant temperature  
 BT1 physical properties  
 NT1 critical pressure  
 NT1 enthalpy  
 NT2 absorption heat  
 NT2 adsorption heat  
 NT2 mixing heat  
 NT2 reaction heat  
 NT3 combustion heat  
 NT3 dissociation heat  
 NT3 formation heat  
 NT2 solution heat  
 NT2 transition heat  
 NT3 fusion heat  
 NT3 sublimation heat  
 NT3 vaporization heat  
 NT1 entropy  
 NT1 free energy

NT2 formation free energy  
 NT2 surface energy  
 NT1 free enthalpy  
 NT2 formation free enthalpy  
 NT2 oxygen potential  
 NT1 partial pressure  
 NT1 specific heat  
 NT2 electronic specific heat  
 NT2 magnetic specific heat  
 NT2 nuclear specific heat  
 NT1 stored energy  
 NT1 thermal conductivity  
 NT1 thermal diffusivity  
 NT1 transition temperature  
 NT2 boiling points  
 NT2 critical temperature  
 NT2 curie point  
 NT2 dew point  
 NT2 lambda point  
 NT2 melting points  
 NT2 neel temperature  
 NT1 vapor pressure  
 RT apparent molal volume  
 RT combustion properties  
 RT limiting values  
 RT partial molal volume  
 RT prandtl number  
 RT thermal equilibrium  
 RT thermal expansion  
 RT thermal radiation  
 RT thermodynamics

**THERMODYNAMICS**

(From September 1978 to March 1997  
 JOULE-THOMSON EFFECT was a valid  
 ETDE descriptor.)

SF *joule-thomson effect*  
 RT adiabatic processes  
 RT brayton cycle  
 RT carnot cycle  
 RT coefficient of performance  
 RT degrees of freedom  
 RT energy  
 RT enthalpy  
 RT entropy  
 RT equations of state  
 RT ericsson cycle  
 RT exergy  
 RT heat sinks  
 RT heat transfer  
 RT irreversible processes  
 RT isentropic processes  
 RT isothermal processes  
 RT khalatnikov theory  
 RT lte  
 RT mollier diagrams  
 RT nernst heat theorem  
 RT onsager relations  
 RT partition functions  
 RT physical metallurgy  
 RT planck radiation formula  
 RT rankine cycle  
 RT saha equation  
 RT steam quality  
 RT stirling cycle  
 RT thermal efficiency  
 RT thermal hydraulics  
 RT thermodynamic activity  
 RT thermodynamic cycles  
 RT thermodynamic properties  
 RT virial equation  
 RT wigner distribution

**THERMOELASTICITY**

INIS: 1979-02-21; ETDE: 1977-04-12  
*Dependence of the stress distribution of an  
 elastic solid on its thermal state, or of its  
 thermal conductivity on the stress distribution.*  
 \*BT1 elasticity  
 RT bowing

RT stresses  
 RT temperature dependence  
 RT thermal conductivity  
 RT thermal expansion  
 RT thermal stresses

**thermoelectric cells**

USE thermoelectric generators

**THERMOELECTRIC CONVERSION**

\*BT1 direct energy conversion  
 RT thermal batteries  
 RT thermoelectric generators  
 RT thermoelectric heaters  
 RT thermoelectric refrigerators

**thermoelectric converters**

USE thermoelectric generators

**THERMOELECTRIC COOLERS**

INIS: 1999-05-26; ETDE: 1976-11-17  
 (Until May 1999 this information was indexed  
 by THERMOELECTRIC  
 REFRIGERATORS.)  
 RT thermoelectric refrigerators

**THERMOELECTRIC GENERATORS**

UF *thermoelectric cells*  
 UF *thermoelectric converters*  
 BT1 direct energy converters  
 RT radioisotope batteries  
 RT radioisotope heat sources  
 RT thermocouples  
 RT thermoelectric conversion  
 RT thermoelectric materials  
 RT thermoelectricity

**thermoelectric heat pumps**

INIS: 2000-04-12; ETDE: 1976-11-17  
 SEE thermoelectric heaters  
 SEE thermoelectric refrigerators

**THERMOELECTRIC HEATERS**

INIS: 2000-04-12; ETDE: 1976-11-17  
 SF *thermoelectric heat pumps*  
 BT1 direct energy converters  
 BT1 heaters  
 RT thermoelectric conversion

**THERMOELECTRIC MATERIALS**

1993-01-22  
 BT1 materials  
 RT semiconductor materials  
 RT thermoelectric generators  
 RT thermoelectricity

**THERMOELECTRIC PROPERTIES**

\*BT1 electrical properties

**THERMOELECTRIC REACTORS**

INIS: 1995-01-10; ETDE: 1986-06-12  
 \*BT1 power reactors

**THERMOELECTRIC REFRIGERATORS**

INIS: 1980-04-02; ETDE: 1976-11-17  
 SF *thermoelectric heat pumps*  
 BT1 direct energy converters  
 BT1 refrigerators  
 RT thermoelectric conversion  
 RT thermoelectric coolers

**THERMOELECTRICITY**

BT1 electricity  
 RT seebeck effect  
 RT thermocouples  
 RT thermoelectric generators  
 RT thermoelectric materials

**THERMOGRAPHY**

INIS: 1978-07-31; ETDE: 1978-09-11  
*Technique employing heat transfer transients.*  
 BT1 measuring methods

NT1 infrared thermography  
 RT infrared radiation  
 RT remote sensing  
 RT temperature measurement  
 RT thermal testing

**thermogravimetric analysis**

INIS: 1975-11-11; ETDE: 2002-06-13  
 USE thermal gravimetric analysis

**thermogravimetry**

USE thermal gravimetric analysis

**thermohydraulics**

2003-10-21  
 USE thermal hydraulics

**THERMOLUMINESCENCE**

\*BT1 luminescence  
 NT1 radiothermoluminescence  
 RT thermoluminescent dosimeters

**THERMOLUMINESCENT DOSEMETERS**

UF *ild (dosimeters)*  
 UF *ild systems*  
 \*BT1 luminescent dosimeters  
 RT calcium fluorides  
 RT calcium sulfates  
 RT lithium fluorides  
 RT thermoluminescence  
 RT thermoluminescent dosimetry

**THERMOLUMINESCENT DOSIMETRY**

UF *ild (dosimetry)*  
 BT1 dosimetry  
 RT personnel dosimetry  
 RT thermoluminescent dosimeters

**THERMOMAGNETIC CONVERSION**

\*BT1 direct energy conversion

**THERMOMAGNETISM**

BT1 magnetism

**THERMOMECHANICAL TREATMENTS**

INIS: 1992-04-13; ETDE: 1982-11-08  
*Combination of material-forming processes  
 with heat treatments in order to obtain  
 specific material properties.*  
 BT1 heat treatments  
 \*BT1 materials working

**THERMOMETERS**

BT1 measuring instruments  
 NT1 geothermometers  
 NT1 noise thermometers  
 RT bolometers  
 RT temperature measurement

**THERMOMETRIC TITRATION**

2000-04-12  
 \*BT1 titration

**THERMONUCLEAR DEVICES**

1996-04-16  
 (From January 1975 till June 1991  
 HARMONICA DEVICES was a valid ETDE  
 descriptor.)

UF *harmonica devices*  
 NT1 closed plasma devices  
 NT2 astron  
 NT2 blascon devices  
 NT2 compact torus  
 NT3 field-reversed theta pinch devices  
 NT3 rotamak devices  
 NT2 heliotron  
 NT2 internal ring devices  
 NT3 fm devices  
 NT3 levitron devices

- NT3 lm devices  
 NT3 spherator  
 NT3 tokapole devices  
 NT3 tornado devices  
 NT2 lhd device  
 NT2 stellarators  
 NT3 cleo stellarator  
 NT3 heliac stellarators  
 NT4 h-1 heliac  
 NT4 hsx stellarator  
 NT4 sheila heliac  
 NT4 tj-ii heliac  
 NT3 heliotron-e stellarator  
 NT3 ims stellarator  
 NT3 jipp stellarator  
 NT3 jippt-2 device  
 NT3 l-2 stellarator  
 NT3 proto-cleo stellarators  
 NT3 sirius device  
 NT3 stellarator model c  
 NT3 torsatron stellarators  
 NT4 atf torsatron  
 NT4 chs torsatron  
 NT4 tj-ii torsatron  
 NT4 vint torsatron  
 NT3 uragan stellarator  
 NT3 wega stellarator  
 NT3 wendelstein-2b stellarator  
 NT3 wendelstein-7 stellarator  
 NT2 tokamak devices  
 NT3 act devices  
 NT3 aditya tokamak  
 NT3 alcator device  
 NT3 asdex tokamak  
 NT3 atc devices  
 NT3 castor tokamak  
 NT3 columbia high-beta tokamak  
 NT3 compact ignition tokamak  
 NT3 compass-d tokamak  
 NT3 continuous current tokamak  
 NT3 ct-6b tokamak  
 NT3 dante tokamak  
 NT3 dite tokamak  
 NT3 doublet-2 device  
 NT3 doublet-3 device  
 NT3 etf tokamak  
 NT3 ft tokamak  
 NT3 hl-1 tokamak  
 NT3 hl-1m tokamak  
 NT3 hl-2 tokamak  
 NT3 hl-2a tokamak  
 NT3 ht-2 tokamak  
 NT3 ht-6b tokamak  
 NT3 ht-6m tokamak  
 NT3 ht-7 tokamak  
 NT3 ht-7u tokamak  
 NT3 hybtok tokamaks  
 NT3 ignition spherical torus  
 NT3 intor tokamak  
 NT3 isttok tokamak  
 NT3 isx tokamak  
 NT3 iter tokamak  
 NT3 jet tokamak  
 NT3 jft-2 tokamak  
 NT3 jft-2a tokamak  
 NT3 jft-2m tokamak  
 NT3 jippt-2 device  
 NT3 jt-60 tokamak  
 NT3 jt-60u tokamak  
 NT3 jxfr tokamak  
 NT3 kt-2 tokamak  
 NT3 lt-3 tokamak  
 NT3 lt-4 tokamak  
 NT3 mt-1 tokamak  
 NT3 mtx tokamak  
 NT3 net tokamak  
 NT3 ormak devices  
 NT3 pbx devices  
 NT3 pdx devices  
 NT3 petula tokamak  
 NT3 phaedrus-t tokamak  
 NT3 plt devices  
 NT3 pulsator devices  
 NT3 rtp tokamak  
 NT3 simp tokamak  
 NT3 spheromak devices  
 NT4 cdx-u spheromak  
 NT4 ctx spheromak  
 NT4 globus-m spheromak  
 NT4 mast tokamak  
 NT4 nstx device  
 NT4 sspcx device  
 NT4 sunist spheromak  
 NT4 ts-3 device  
 NT3 st tokamak  
 NT3 starfire tokamak  
 NT3 start tokamak  
 NT3 stor-m tokamak  
 NT3 stx devices  
 NT3 surmac tokamak  
 NT3 t-10 tokamak  
 NT3 t-14 tokamak  
 NT3 t-15 tokamak  
 NT3 t-7 tokamak  
 NT3 tbr tokamak  
 NT3 tca tokamak  
 NT3 tcabr tokamak  
 NT3 tev tokamak  
 NT3 text devices  
 NT3 textor tokamak  
 NT3 tfr tokamak  
 NT3 tftr tokamak  
 NT3 tiber-x tokamak  
 NT3 tj-1 tokamak  
 NT3 tnt-a tokamak  
 NT3 tokapole devices  
 NT3 tokoloshe tokamak  
 NT3 tore supra tokamak  
 NT3 tormac devices  
 NT3 tortus tokamak  
 NT3 torus-ii tokamak  
 NT3 toscia tokamak  
 NT3 tpx device  
 NT3 triam-1 tokamak  
 NT3 tuman devices  
 NT3 two-component torus  
 NT3 uwmak devices  
 NT3 varennes tokamak  
 NT3 versator tokamak  
 NT3 wt-3 tokamak  
 NT2 toroidal pinch devices  
 NT3 reversed-field pinch devices  
 NT4 artemis device  
 NT4 extrap-t2 device  
 NT4 hbt devices  
 NT4 mst device  
 NT4 rfx device  
 NT4 tpe-1rm15 device  
 NT4 tpe-rx device  
 NT4 zt-40 devices  
 NT4 zt-p devices  
 NT3 tlp devices  
 NT4 zeta devices  
 NT3 toroidal screw pinch devices  
 NT4 stp-3m device  
 NT4 tpe-2 device  
 NT3 toroidal theta pinch devices  
 NT4 scyllac devices  
 NT1 controlled thermonuclear fusion  
 NT1 icf devices  
 NT2 angara-5 device  
 NT1 migma devices  
 NT1 open plasma devices  
 NT2 baseball devices  
 NT2 gdt device  
 NT2 linear pinch devices  
 NT3 linear hard core pinch devices  
 NT3 linear screw pinch devices  
 NT3 linear theta pinch devices  
 NT4 isar devices  
 NT4 scylla devices  
 NT3 linear z pinch devices  
 NT2 magnetic mirrors  
 NT3 2x devices  
 NT3 alice  
 NT3 beta ii devices  
 NT3 bumpy tori  
 NT4 elmo bumpy torus  
 NT3 burnout devices  
 NT3 circe devices  
 NT3 deca devices  
 NT3 elmo devices  
 NT4 elmo bumpy torus  
 NT3 gdt device  
 NT3 gol-3 device  
 NT3 imp device  
 NT3 mftf devices  
 NT3 ogra  
 NT3 phoenix devices  
 NT3 pleiade device  
 NT3 reversed-field mirrors  
 NT3 tandem mirrors  
 NT4 gamma 10 devices  
 NT4 phaedrus mirror devices  
 NT4 tara devices  
 NT4 tmx devices  
 NT2 plasma focus devices  
 NT3 pf-1000 device  
 NT3 pf-3 device  
 NT2 q devices  
 NT3 helios devices  
 NT3 qp devices  
 NT1 pinch devices  
 NT2 field-reversed theta pinch devices  
 NT2 linear pinch devices  
 NT3 linear hard core pinch devices  
 NT3 linear screw pinch devices  
 NT3 linear theta pinch devices  
 NT4 isar devices  
 NT4 scylla devices  
 NT3 linear z pinch devices  
 NT2 toroidal pinch devices  
 NT3 reversed-field pinch devices  
 NT4 artemis device  
 NT4 extrap-t2 device  
 NT4 hbt devices  
 NT4 mst device  
 NT4 rfx device  
 NT4 tpe-1rm15 device  
 NT4 tpe-rx device  
 NT4 zt-40 devices  
 NT4 zt-p devices  
 NT3 tlp devices  
 NT4 zeta devices  
 NT3 toroidal screw pinch devices  
 NT4 stp-3m device  
 NT4 tpe-2 device  
 NT3 toroidal theta pinch devices  
 NT4 scyllac devices  
 NT1 vintotron devices  
 RT beam injection  
 RT breeding blankets  
 RT confinement time  
 RT d-t operation  
 RT discharge quenching  
 RT lawson criterion  
 RT limiters  
 RT magnetic field configurations  
 RT mass balance  
 RT plasma heating  
 RT plasma production  
 RT rotational transform  
 RT thermonuclear reactors  
 RT tritium recovery  
**THERMONUCLEAR EXPLOSIONS**  
 UF *bravo event*

UF *mike event*  
 UF *schooner event*  
 \*BT1 nuclear explosions  
 RT castle project  
 RT thermonuclear reactions

**THERMONUCLEAR FUELS**

1996-03-04

UF *fusion fuels*  
 UF *reactor fuels (fusion)*  
 BT1 fuels  
 RT d-t operation  
 RT deuterium  
 RT electron beam targets  
 RT fuel feeding systems  
 RT fusion yield  
 RT gas injection  
 RT ion beam targets  
 RT laser targets  
 RT particle influx  
 RT pellet injection  
 RT recycling  
 RT thermonuclear reactor fueling  
 RT tritium  
 RT tritium systems test assembly

**THERMONUCLEAR IGNITION**

UF *ignition (thermonuclear)*  
 UF *reactor start-up (thermonuclear ignition)*  
 RT compact ignition tokamak  
 RT reactor start-up  
 RT thermonuclear reactors  
 RT tiber-x tokamak

**thermonuclear implosions (laser)**

INIS: 1993-11-10; ETDE: 2002-06-13  
 USE laser implosions

**THERMONUCLEAR POWER PLANTS**

INIS: 1979-04-27; ETDE: 1978-08-08  
 \*BT1 thermal power plants  
 RT nuclear power plants  
 RT thermonuclear reactors

**THERMONUCLEAR REACTIONS**

1996-07-23

*Exoenergetic fusion reactions between light nuclei; are always accompanied by release of the excess binding energy.*

UF *fusion (nuclear)*  
 UF *fusion reactions (exoenergetic)*  
 UF *fusion reactions (thermonuclear)*  
 SF *fusion reactions*  
 SF *sherwood project*  
 BT1 nuclear reactions  
 \*BT1 nucleosynthesis  
 NT1 controlled thermonuclear fusion  
 NT1 impact fusion  
 NT1 muon-catalyzed fusion  
 RT chain reactions  
 RT cold fusion  
 RT fusion yield  
 RT heavy ion fusion reactions  
 RT helium ash  
 RT thermonuclear explosions

**THERMONUCLEAR REACTOR COOLING SYSTEMS**

1997-06-05

UF *cooling systems (fusion reactor)*  
 UF *reactor cooling systems (fusion)*  
 \*BT1 cooling systems  
 RT heat transfer  
 RT thermonuclear reactors

**THERMONUCLEAR REACTOR FUELING**

INIS: 1982-11-30; ETDE: 1989-02-13  
 UF *charging (fusion reactor)*

UF *reactor fueling (fusion reactors)*  
 RT fuel feeding systems  
 RT gas injection  
 RT pellet injection  
 RT thermonuclear fuels  
 RT thermonuclear reactors  
 RT tritium systems test assembly

**THERMONUCLEAR REACTOR MATERIALS**

1975-09-25

*To be assigned in conjunction with the specific descriptor for the material used.*

UF *fusion-reactor materials*  
 UF *reactor materials (fusion reactors)*  
 BT1 materials  
 RT fimit linac  
 RT thermonuclear reactors

**THERMONUCLEAR REACTOR WALLS**

UF *walls (thermonuclear reactor)*  
 NT1 first wall  
 RT flibe  
 RT thermonuclear reactors

**THERMONUCLEAR REACTORS**

1995-02-15

*For conceptual design studies; coordinate with descriptor for existing thermonuclear device if appropriate.*

UF *fusion energy*  
 UF *fusion reactors*  
 NT1 d-d reactors  
 NT1 d-he reactors  
 NT1 d-t reactors  
 NT2 pulsed d-t reactors  
 NT3 reference theta pinch reactor  
 NT2 steady-state d-t reactors  
 NT1 electron beam fusion reactors  
 NT1 ion beam fusion reactors  
 NT1 laser fusion reactors  
 NT2 cascade reactors  
 NT2 hylife converter  
 NT1 linear pinch type reactors  
 NT1 linus reactors  
 NT1 magnetic mirror type reactors  
 NT2 mars reactor  
 NT2 minimars reactor  
 NT2 tmr reactors  
 NT1 pulsed fusion reactors  
 NT2 pulsed d-t reactors  
 NT3 reference theta pinch reactor  
 NT1 steady-state fusion reactors  
 NT2 steady-state d-t reactors  
 NT1 stellarator type reactors  
 NT1 tokamak type reactors  
 NT2 compact ignition tokamak  
 NT2 doublet reactors  
 NT2 iter tokamak  
 NT2 tentok reactors  
 NT2 tfcx reactors  
 NT2 tns reactors

RT breakeven  
 RT breeding pellets  
 RT confinement time  
 RT felix facility  
 RT fuel injection systems  
 RT fusion yield  
 RT hybrid reactors  
 RT hybrid systems  
 RT mass balance  
 RT power  
 RT thermonuclear devices  
 RT thermonuclear ignition  
 RT thermonuclear power plants  
 RT thermonuclear reactor cooling systems  
 RT thermonuclear reactor fueling  
 RT thermonuclear reactor materials

RT thermonuclear reactor walls  
 RT tritium recovery

**thermonuclear weapons**

USE nuclear weapons

**THERMOPHILIC CONDITIONS**

INIS: 1992-03-10; ETDE: 1977-05-09

*Temperature range centered at 70 degrees C favoring the growth of certain bacteria.*

RT anaerobic digestion  
 RT fermentation  
 RT mesophilic conditions

**THERMOPHORESIS**

INIS: 1986-09-26; ETDE: 1980-05-06

*A process in which particles migrate in a gas under the influence of forces created by a temperature gradient.*

RT electrophoresis

**THERMOPHOTOVOLTAIC CONVERSION**

2000-04-12

\*BT1 direct energy conversion  
 RT photovoltaic conversion  
 RT thermophotovoltaic converters

**THERMOPHOTOVOLTAIC CONVERTERS**

1999-08-04

BT1 direct energy converters  
 RT photovoltaic cells  
 RT thermophotovoltaic conversion

**thermopiles**

INIS: 2000-04-12; ETDE: 1979-05-09  
 USE thermocouples

**THERMOPLASTICS**

\*BT1 plastics

**THERMOREGULATION**

INIS: 1999-04-07; ETDE: 1977-07-23

*Mechanism by which mammals and birds attempt to balance heat gain and heat loss in order to maintain a constant body temperature when exposed to variations in temperature of the surroundings.*

(Until April 1999 this concept was indexed by BODY TEMPERATURE and TEMPERATURE CONTROL.)

RT body temperature  
 RT metabolism  
 RT physiology

**THERMOS REACTOR**

INIS: 1979-02-21; ETDE: 1979-03-28

\*BT1 process heat reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**THERMOSPHERE**

BT1 earth atmosphere

**THERMOSTATS**

\*BT1 control equipment  
 NT1 cryostats  
 RT temperature control

**THERMOSYPHON EFFECT**

INIS: 1993-02-16; ETDE: 1977-07-23

*The flow of fluid due to the density differential created by temperature gradients.*

\*BT1 convection  
 RT circulating systems  
 RT passive solar water heaters  
 RT self-pumping systems

**THERMOSYPHONS**

*INIS: 1983-06-30; ETDE: 1979-04-11*

*Systems of natural circulation in a fluid caused by the difference between hot and cold portions.*

- RT heat transfer
- RT natural convection

**thermo process**

*1996-07-08*

(Until June 1996 this was a valid descriptor.)

- USE reprocessing

**thesauri**

*INIS: 1977-09-06; ETDE: 1977-11-28*

- USE standardized terminology

**theta-1640 resonances**

*INIS: 2000-04-12; ETDE: 1984-12-26*

(Prior to February 1988 this was a valid ETDE descriptor.)

- USE f2-1720 mesons

**theta-1690 resonances**

*INIS: 1987-12-21; ETDE: 2002-06-13*

(Prior to December 1987 this was a valid descriptor.)

- USE f2-1720 mesons

**THETA PINCH**

- BT1 pinch effect
- RT linear theta pinch devices
- RT reference theta pinch reactor
- RT toroidal theta pinch devices

**THE TIS REACTOR**

*Univ. Gent, Institute for Nuclear Sciences, Pietersnieuwstraat, Belgium. Shut down in 2003, decommissioned.*

UF *iisnr reactor*

- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**thf**

*INIS: 1980-09-12; ETDE: 1979-11-23*

- USE tetrahydrofuran

**THIADIAZOLES**

*Compounds that contain a five-membered heterocyclic ring containing one sulfur and two nitrogen atoms.*

- \*BT1 azoles
- \*BT1 organic sulfur compounds

**THIAMINE**

UF *vitamin b-1*

- \*BT1 amines
- \*BT1 hydroxy compounds
- \*BT1 pyrimidines
- \*BT1 thiazoles
- \*BT1 vitamin b group

**THIAZOLES**

*Compounds that contain a five-membered heterocyclic ring containing one sulfur and one nitrogen atom.*

UF *thiazolidines*

- \*BT1 azoles
- \*BT1 organic sulfur compounds
- NT1 benzothiazoles
- NT1 saccharin
- NT1 thiamine

**thiazolidines**

*INIS: 1984-04-04; ETDE: 2002-06-13*

- USE thiazoles

**THICKNESS**

*2000-04-10*

*Index only if essential.*

- BT1 dimensions
- RT distance
- RT half-thickness
- RT radiation length
- RT shielding
- RT size

**THICKNESS GAGES**

- BT1 measuring instruments
- RT radiometric gages

**thielavia**

*INIS: 2000-04-12; ETDE: 1981-01-09*

*Thermophilic fungus capable of degrading cellulose to glucose.*

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE eumycota

**THIN FILM STORAGE DEVICES**

- BT1 memory devices

**THIN FILMS**

*INIS: 1983-12-01; ETDE: 1982-11-08*

*Films a few molecules thick deposited on a substrate.*

- UF *ebd films*
- UF *energy beam deposition films*
- BT1 films
- RT coatings
- RT deposition
- RT substrates

**THIN-LAYER CHROMATOGRAPHY**

- \*BT1 chromatography

**thio compounds**

- USE organic sulfur compounds

**thioalcohols**

- USE thiols

**THIOBACILLUS FERROXIDANS**

- \*BT1 bacillus
- \*BT1 sulfur-oxidizing bacteria
- RT leaching
- RT oxidation
- RT uranium ores

**THIOBACILLUS OXIDANS**

- \*BT1 bacillus
- \*BT1 sulfur-oxidizing bacteria
- RT desulfurization
- RT leaching
- RT ore processing
- RT oxidation

**thiocarbamides**

- USE thioureas

**THIOCTIC ACID**

UF *lipoic acid (alpha)*

- \*BT1 disulfides
- \*BT1 heterocyclic acids
- \*BT1 lipotropic factors

**THIOCYANATES**

*1995-01-11*

UF *rhodanates*

UF *rhodamides*

UF *sulfocyanides*

UF *thiocyanides*

- \*BT1 antithyroid drugs
- \*BT1 carbonic acid derivatives
- \*BT1 organic sulfur compounds
- NT1 ammonium thiocyanates
- RT isothiocyanates
- RT thiocyanic acid

**THIOCYANIC ACID**

- RT thiocyanates

**thiocyanides**

- USE thiocyanates

**thioethers**

*1995-11-22*

- USE organic sulfur compounds

**thioglycolicaminonaphthalide**

- USE thionalide

**THIOIC ACIDS**

- \*BT1 organic acids
- \*BT1 organic sulfur compounds
- RT cystaphos

**THIOLS**

- UF *mercaptans*
- UF *sulfhydryl compounds*
- UF *thioalcohols*
- \*BT1 organic sulfur compounds
- NT1 cysteamine
- NT1 cysteine
- NT1 dithiols
- NT2 dimercaprol
- NT2 unithiol
- NT1 malathion
- NT1 mercaptoethylguanidine
- NT1 mercaptopurine
- NT1 mpg
- NT1 penicillamine
- NT1 thionalide
- NT1 thiouracil

**THIONALIDE**

UF *thioglycolicaminonaphthalide*

- \*BT1 amides
- BT1 reagents
- \*BT1 thiols
- RT glycolic acid

**THIONAPHTHENES**

UF *benzothiophenes*

- \*BT1 heterocyclic compounds
- \*BT1 organic sulfur compounds
- RT polycyclic sulfur heterocycles

**THIONATES**

*ETDE: 1976-11-17*

- \*BT1 organic sulfur compounds

**THIONINE**

- \*BT1 amines
- \*BT1 heterocyclic compounds
- \*BT1 organic nitrogen compounds
- \*BT1 organic sulfur compounds
- RT phenothiazines

**THONYL CHLORIDES**

*INIS: 2000-04-12; ETDE: 1985-06-04*

- \*BT1 chlorides
- \*BT1 thionyl halides

**THONYL HALIDES**

*2012-07-25*

- \*BT1 halides
- \*BT1 organic sulfur compounds
- NT1 thionyl chlorides

**thiopental**

*1996-10-23*

(Until October 1996 this was a valid descriptor.)

- USE barbiturates
- USE organic sulfur compounds

**THIOPHENE**

- \*BT1 heterocyclic compounds
- \*BT1 organic sulfur compounds
- RT polycyclic sulfur heterocycles
- RT tta



**thiophenes**

INIS: 2000-04-12; ETDE: 1983-11-23  
USE polycyclic sulfur heterocycles

**THIOPHENOLS**

\*BT1 organic sulfur compounds

**thiophosgene**

INIS: 2000-04-12; ETDE: 1981-06-13  
(Prior to April 1994, this was a valid ETDE descriptor.)

USE organic chlorine compounds  
USE organic sulfur compounds

**THIOPHOSPHORIC ACID ESTERS**

\*BT1 esters  
NT1 cystaphos  
NT1 gammaphos  
NT1 parathion  
RT organic phosphorus compounds  
RT organic sulfur compounds

**THIOSORBIC PROCESS**

INIS: 2000-04-12; ETDE: 1977-08-24  
Sulfur dioxide converts magnesium sulfite to bisulfite in the scrubber, which is regenerated to soluble magnesium sulfite and precipitated calcium sulfite.

\*BT1 desulfurization  
RT scrubbers  
RT waste processing

**THIOSULFATES**

RT sulfates

**THIOURACIL**

\*BT1 antimetabolites  
\*BT1 antithyroid drugs  
\*BT1 thiols  
\*BT1 uracils

**THIOUREA**

\*BT1 antithyroid drugs  
\*BT1 thioureas

**THIOUREAS**

UF thiocarbamides  
\*BT1 carbonic acid derivatives  
\*BT1 organic sulfur compounds  
NT1 beta-aminoethyl isothiourea  
NT1 thiourea  
RT amides

**third-harmonic generation**

INIS: 2000-04-12; ETDE: 1986-01-14  
USE harmonic generation

**third party liability convention, brussels**

INIS: 1993-11-10; ETDE: 2002-06-13  
USE bcstpc

**third party liability convention, paris**

INIS: 1993-11-10; ETDE: 2001-01-23  
USE pctopl

**THIRD-PARTY USE**

2004-09-17  
BT1 uses  
RT agreements  
RT contracts  
RT leasing

**THIRD SOUND**

RT sound waves  
RT superfluidity

**THIRRING MODEL**

RT merons  
RT quantum field theory

**THIXOTROPY**

INIS: 1992-07-21; ETDE: 1976-07-07  
Property of certain gels which liquefy when subjected to vibratory forces.

RT gels  
RT plasticity  
RT rheology  
RT stability  
RT viscosity

**THIYL RADICALS**

For RS- radicals where R is organic component.

BT1 radicals

**thomas-fermi-dirac model**

USE thomas-fermi model

**THOMAS-FERMI MODEL**

1999-03-17  
UF fermi-thomas model  
UF thomas-fermi-dirac model  
\*BT1 atomic models  
RT nuclear models

**thomas jefferson national accelerator facility**

INIS: 1999-09-23; ETDE: 1997-03-28  
USE cebaf accelerator

**thomason collectors**

INIS: 2000-04-12; ETDE: 1978-09-11  
USE trickle-type collectors

**THOMSON SCATTERING**

\*BT1 inelastic scattering

**THOR REACTOR**

Hsin-Chu, Taiwan.  
UF topr reactor  
\*BT1 enriched uranium reactors  
\*BT1 intermediate reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 training reactors

**thoracic duct**

USE lymph vessels

**thorax**

USE chest

**THOREX PROCESS**

\*BT1 reprocessing  
RT solvent extraction

**THORIANITE**

\*BT1 oxide minerals  
\*BT1 thorium minerals  
\*BT1 uranium minerals  
RT black sands  
RT thorium oxides  
RT uranium oxides

**THORIN**

BT1 arsenic compounds  
\*BT1 diazo compounds  
\*BT1 naphthols  
BT1 reagents  
\*BT1 sulfonic acids

**THORITE**

\*BT1 silicate minerals  
\*BT1 thorium minerals  
NT1 jiningite  
RT black sands  
RT thorium silicates

**THORIUM**

\*BT1 actinides  
NT1 thorium-alpha  
NT1 thorium-beta

RT natural radioactivity

**THORIUM 208**

2008-01-25  
\*BT1 actinide nuclei  
\*BT1 even-even nuclei  
\*BT1 thorium isotopes

**THORIUM 209**

2008-01-25  
\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 thorium isotopes

**THORIUM 210**

2008-01-25  
\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 thorium isotopes

**THORIUM 211**

2008-01-25  
\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 thorium isotopes

**THORIUM 212**

INIS: 1979-09-18; ETDE: 1979-10-23  
\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 thorium isotopes

**THORIUM 213**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 thorium isotopes

**THORIUM 214**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 thorium isotopes

**THORIUM 215**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thorium isotopes

**THORIUM 216**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 thorium isotopes

**THORIUM 217**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 thorium isotopes

**THORIUM 218**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 thorium isotopes

**THORIUM 219**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 220**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 221**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 222**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 223**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 224**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 225**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 226**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 227**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 thorium isotopes

**THORIUM 228**

- UF radiothorium*
- \*BT1 actinide nuclei
  - \*BT1 alpha decay radioisotopes
  - \*BT1 even-even nuclei
  - \*BT1 thorium isotopes
  - \*BT1 years living radioisotopes

**THORIUM 228 TARGET**

*INIS: 1986-10-29; ETDE: 1984-09-21*  
BT1 targets

**THORIUM 229**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 thorium isotopes

- \*BT1 years living radioisotopes

**THORIUM 229 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**THORIUM 230**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 neon 24 decay radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 thorium isotopes
- \*BT1 years living radioisotopes

**THORIUM 230 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**THORIUM 231**

- UF uranium x 2*
- \*BT1 actinide nuclei
  - \*BT1 beta-minus decay radioisotopes
  - \*BT1 days living radioisotopes
  - \*BT1 even-odd nuclei
  - \*BT1 thorium isotopes

**THORIUM 231 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
BT1 targets

**THORIUM 232**

- \*BT1 actinide nuclei
  - \*BT1 alpha decay radioisotopes
  - \*BT1 even-even nuclei
  - \*BT1 spontaneous fission radioisotopes
  - \*BT1 thorium isotopes
  - \*BT1 years living radioisotopes
- RT thorium cycle*

**THORIUM 232 REACTIONS**

*INIS: 1987-08-27; ETDE: 1987-10-26*  
\*BT1 heavy ion reactions

**THORIUM 232 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**THORIUM 233**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 233 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
BT1 targets

**THORIUM 234**

- UF uranium x 1*
- \*BT1 actinide nuclei
  - \*BT1 beta-minus decay radioisotopes
  - \*BT1 days living radioisotopes
  - \*BT1 even-even nuclei
  - \*BT1 internal conversion radioisotopes
  - \*BT1 thorium isotopes

**THORIUM 234 TARGET**

*INIS: 1992-09-23; ETDE: 1984-09-21*  
BT1 targets

**THORIUM 235**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 236**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes

- \*BT1 thorium isotopes

**THORIUM 237**

*1994-04-11*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 238**

*INIS: 1980-12-01; ETDE: 1981-01-09*

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 thorium isotopes

**THORIUM 238 TARGET**

*INIS: 1992-09-23; ETDE: 1980-06-22*  
BT1 targets

**THORIUM 239 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**thorium a**

USE polonium 216

**THORIUM ADDITIONS**

*Alloys containing not more than 1% Th are listed here.*

- \*BT1 thorium alloys

**THORIUM ALLOYS**

*Alloys containing more than 1% Th.*

- \*BT1 actinide alloys
- NT1** magnesium alloy-hk31a
- NT1** thorium additions
- NT1** thorium base alloys

**THORIUM-ALPHA**

- \*BT1 thorium

**THORIUM ARSENIDES**

*INIS: 1980-12-02; ETDE: 1976-08-04*

- \*BT1 arsenides
- \*BT1 thorium compounds

**thorium b**

USE lead 212

**THORIUM BASE ALLOYS**

- \*BT1 thorium alloys

**THORIUM-BETA**

- \*BT1 thorium

**THORIUM BORIDES**

- \*BT1 borides
- \*BT1 thorium compounds

**THORIUM BROMIDES**

- \*BT1 bromides
- \*BT1 thorium halides

**thorium c**

USE bismuth 212

**thorium c/**

USE polonium 212

**thorium c//**

USE thallium 208

**THORIUM CARBIDES**

- \*BT1 carbides
- \*BT1 thorium compounds

**THORIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 thorium compounds

**THORIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 thorium halides

**THORIUM COMPLEXES**

\*BT1 actinide complexes

**THORIUM COMPOUNDS**

1996-11-13

BT1 actinide compounds  
 NT1 thorium arsenides  
 NT1 thorium borides  
 NT1 thorium carbides  
 NT1 thorium carbonates  
 NT1 thorium halides  
 NT2 thorium bromides  
 NT2 thorium chlorides  
 NT2 thorium fluorides  
 NT2 thorium iodides  
 NT1 thorium hydrides  
 NT1 thorium hydroxides  
 NT1 thorium nitrates  
 NT1 thorium nitrides  
 NT1 thorium oxides  
 NT2 thorotrast  
 NT1 thorium perchlorates  
 NT1 thorium phosphates  
 NT1 thorium phosphides  
 NT1 thorium selenides  
 NT1 thorium silicates  
 NT1 thorium silicides  
 NT1 thorium sulfates  
 NT1 thorium sulfides  
 NT1 thorium tellurides  
 NT1 thorium tungstates

**THORIUM CYCLE**

INIS: 1978-02-23; ETDE: 1977-09-19

Use of thorium as the fertile material in reactor fuels.

BT1 fuel cycle  
 RT nuclear fuels  
 RT thorium 232

**thorium d**

USE lead 208

**THORIUM DEPOSITS**

INIS: 1986-05-26; ETDE: 1986-11-18

BT1 geologic deposits  
 RT thorium ores

**THORIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 thorium halides

**THORIUM HALIDES**

2012-07-25

\*BT1 halides  
 \*BT1 thorium compounds  
 NT1 thorium bromides  
 NT1 thorium chlorides  
 NT1 thorium fluorides  
 NT1 thorium iodides

**thorium-hochtemperatur prototype reactor**

1993-11-10

USE thtr-300 reactor

**THORIUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 thorium compounds

**THORIUM HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 thorium compounds

**THORIUM IODIDES**

\*BT1 iodides  
 \*BT1 thorium halides

**THORIUM IONS**

\*BT1 ions

**THORIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 thorium 208  
 NT1 thorium 209  
 NT1 thorium 210  
 NT1 thorium 211  
 NT1 thorium 212  
 NT1 thorium 213  
 NT1 thorium 214  
 NT1 thorium 215  
 NT1 thorium 216  
 NT1 thorium 217  
 NT1 thorium 218  
 NT1 thorium 219  
 NT1 thorium 220  
 NT1 thorium 221  
 NT1 thorium 222  
 NT1 thorium 223  
 NT1 thorium 224  
 NT1 thorium 225  
 NT1 thorium 226  
 NT1 thorium 227  
 NT1 thorium 228  
 NT1 thorium 229  
 NT1 thorium 230  
 NT1 thorium 231  
 NT1 thorium 232  
 NT1 thorium 233  
 NT1 thorium 234  
 NT1 thorium 235  
 NT1 thorium 236  
 NT1 thorium 237  
 NT1 thorium 238

**THORIUM MINERALS**

1996-11-13

UF aeschynite  
 UF cerianite  
 UF huttonite  
 UF steenstrupine  
 UF thorogummite  
 UF uranothorianite  
 UF yttrialite  
 \*BT1 radioactive minerals  
 NT1 allanite  
 NT1 bastnaesite  
 NT1 brannerite  
 NT1 ekanite  
 NT1 freyalite  
 NT1 hydrothorite  
 NT1 lodochnikite  
 NT1 lyndochite  
 NT1 mackintoshite  
 NT1 maitlandite  
 NT1 monazites  
 NT1 naegite  
 NT1 thorianite  
 NT1 thorite  
 NT2 jiningite  
 NT1 thucholite  
 NT1 uranothorite  
 RT thorium oxides  
 RT thorium phosphates  
 RT thorium silicates

**THORIUM NITRATES**

\*BT1 nitrates  
 \*BT1 thorium compounds

**THORIUM NITRIDES**

\*BT1 nitrides  
 \*BT1 thorium compounds

**THORIUM ORES**

BT1 ores  
 RT thorium deposits  
 RT thorium reserves

**THORIUM OXIDES**

1996-11-13

\*BT1 oxides  
 \*BT1 thorium compounds  
 NT1 thorotrast  
 RT bastnaesite  
 RT brannerite  
 RT lodochnikite  
 RT lyndochite  
 RT naegite  
 RT oxide minerals  
 RT td-nickel  
 RT td-nickel chromium  
 RT thorianite  
 RT thorium minerals

**THORIUM PERCHLORATES**

1997-01-28

(From November 1996 to November 2007

THORIUM COMPOUNDS + PERCHLORATES was used for this concept.)

\*BT1 perchlorates  
 \*BT1 thorium compounds

**THORIUM PHOSPHATES**

\*BT1 phosphates  
 \*BT1 thorium compounds  
 RT monazites  
 RT thorium minerals

**THORIUM PHOSPHIDES**

\*BT1 phosphides  
 \*BT1 thorium compounds

**THORIUM REACTORS**

BT1 reactors  
 NT1 avr reactor  
 NT1 borax-4 reactor  
 NT1 dragon reactor  
 NT1 err reactor  
 NT1 sre reactor  
 NT1 thtr-300 reactor  
 RT ica-zpr reactor  
 RT zenith reactor

**THORIUM RESERVES**

INIS: 1986-05-26; ETDE: 1976-04-19

\*BT1 reserves  
 RT thorium ores

**THORIUM SELENIDES**

1975-10-23

\*BT1 selenides  
 \*BT1 thorium compounds

**THORIUM SILICATES**

1996-11-13

\*BT1 silicates  
 \*BT1 thorium compounds  
 RT allanite  
 RT ekanite  
 RT freyalite  
 RT hydrothorite  
 RT mackintoshite  
 RT maitlandite  
 RT silicate minerals  
 RT thorite  
 RT thorium minerals  
 RT uranothorite

**THORIUM SILICIDES**

INIS: 1977-07-05; ETDE: 1976-03-11

\*BT1 silicides  
 \*BT1 thorium compounds

**THORIUM SULFATES**

\*BT1 sulfates  
 \*BT1 thorium compounds

**THORIUM SULFIDES**

\*BT1 sulfides  
 \*BT1 thorium compounds

**THORIUM TELLURIDES**

INIS: 1976-02-24; ETDE: 1976-04-19

- \*BT1 tellurides
- \*BT1 thorium compounds

**THORIUM TUNGSTATES**

1997-01-28

(From October 1996 to February 2008

THORIUM COMPOUNDS + TUNGSTATES was used for this concept.)

- \*BT1 thorium compounds
- \*BT1 tungstates

**thorium x**

USE radium 224

**thorogummite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE silicate minerals
- USE thorium minerals

**thoron**

USE radon 220

**THOROTRAST**

- BT1 contrast media
- \*BT1 radiocolloids
- \*BT1 thorium oxides

**thr reactor**

INIS: 1991-09-17; ETDE: 1991-11-22

Test Heating Reactor, Tsinghua University, Beijing, China.

(Prior to January 2003 this was a valid descriptor.)

USE nhr-5 reactor

**THREADED JOINTS**

INIS: 1988-11-16; ETDE: 1982-10-05

BT1 joints

**threatened species**

2013-11-13

USE endangered species

**THREE-BODY PROBLEM**

- BT1 many-body problem
- RT efimov effect
- RT faddeev equations

**THREE-DIMENSIONAL CALCULATIONS**

- UF 3-dimensional calculations
- UF calculations (3-dimensional)
- RT adjoint difference method
- RT general circulation models
- RT many-dimensional calculations
- RT mathematics

**THREE-DIMENSIONAL LATTICES**

2015-06-22

- \*BT1 crystal lattices
- NT1 cubic lattices
- NT2 bcc lattices
- NT2 fcc lattices
- NT1 hexagonal lattices
- NT2 hcp lattices
- NT1 monoclinic lattices
- NT1 orthorhombic lattices
- NT1 pentagonal lattices
- NT1 tetragonal lattices
- NT1 triclinic lattices
- NT1 trigonal lattices

**THREE MILE ISLAND-1 REACTOR**

AmerGen Energy Co., LLC, Middletown, Pennsylvania, USA.

\*BT1 pwr type reactors

**THREE MILE ISLAND-2 REACTOR**

GPU Nuclear Corp., Middletown, Pennsylvania, USA. Permanently shut down in 1979 due to accident.

\*BT1 pwr type reactors

**THREE-NUCLEON TRANSFER REACTIONS**

\*BT1 multi-nucleon transfer reactions

**THREONINE**

- \*BT1 amino acids
- \*BT1 hydroxy acids

**THRESHOLD CURRENT**

INIS: 1999-03-08; ETDE: 1981-10-24

The minimum current necessary to initiate the desired response.

- \*BT1 electric currents
- RT current limiters

**THRESHOLD DETECTORS**

- \*BT1 neutron detectors
- RT activation detectors
- RT fission chambers
- RT fission foil detectors

**THRESHOLD DOSE**

\*BT1 radiation doses

**THRESHOLD ENERGY**

- BT1 energy
- RT interactions
- RT nuclear reactions
- RT scattering

**THRESHOLD RIGIDITY**

- UF geomagnetic cut-off rigidity
- RT cosmic radiation
- RT geomagnetic field

**throat**

USE pharynx

**THROMBIN**

Code number 3.4.21.5.

- \*BT1 blood coagulation factors
- \*BT1 serine proteinases
- RT thrombosis

**thrombocytes**

USE blood platelets

**THROMBOPLASTIN**

\*BT1 blood coagulation factors

**THROMBOPOIESIS**

- BT1 blood formation
- RT blood platelets

**THROMBOSIS**

- \*BT1 cardiovascular diseases
- \*BT1 vascular diseases
- RT blood coagulation
- RT blood vessels
- RT fibrinolysin
- RT streptococcal proteinase
- RT thrombin

**THROUGHFALL**

INIS: 1992-08-17; ETDE: 1984-12-10

Rain water that passes through a vegetative canopy and reaches the soil.

- \*BT1 rain water
- RT acid rain
- RT atmospheric precipitations
- RT canopies
- RT evaporation
- RT forests
- RT interception
- RT plants
- RT runoff

**THRUSTERS**

1996-07-16

- NT1 ion thrusters
- RT missiles
- RT positioning
- RT propulsion
- RT propulsion systems
- RT ships
- RT space vehicles

**THTR-300 REACTOR**

1995-05-02

Uentrop, Hamm, North Rhine-Westphalia, Federal Republic of Germany.

- UF schmehausen reactor
- UF schmehausen thtr reactor
- UF thorium-hochtemperatur prototype reactor

- \*BT1 enriched uranium reactors
- \*BT1 helium cooled reactors
- \*BT1 htgr type reactors
- \*BT1 pebble bed reactors
- \*BT1 power reactors
- \*BT1 thermal reactors
- \*BT1 thorium reactors

**THUCHOLITE**

1996-06-26

- \*BT1 bitumens
- \*BT1 thorium minerals
- \*BT1 uranium minerals
- RT rare earths
- RT uraninites

**THULIUM**

\*BT1 rare earths

**THULIUM 144**

2005-11-22

- \*BT1 microseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 145**

INIS: 2003-01-03; ETDE: 2002-12-26

- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 146**

INIS: 2003-01-03; ETDE: 2002-12-26

- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 147**

1982-06-09

- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 148**

1982-06-09

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 149**

INIS: 1985-04-22; ETDE: 1985-05-07

- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 150**

1981-09-17

- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 151**

INIS: 1982-08-27; ETDE: 1976-11-17

- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 152**

INIS: 1980-12-01; ETDE: 1980-09-05

- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 153**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 154**

INIS: 1977-02-08; ETDE: 1977-04-13

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 155**

1976-01-28

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 156**

1976-03-02

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 157**

1977-01-25

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 158**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 159**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes

- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 160**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 161**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 162**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 163**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 164**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 165**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 166**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 167**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 168**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 169**

- \*BT1 odd-even nuclei

- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 thulium isotopes

**THULIUM 169 TARGET**

ETDE: 1976-07-09

- BT1 targets

**THULIUM 170**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 171**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes
- \*BT1 years living radioisotopes

**THULIUM 171 TARGET**

INIS: 1992-09-23; ETDE: 1982-01-21

- BT1 targets

**THULIUM 172**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 173**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 174**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 175**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 176**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 177**

INIS: 1984-06-21; ETDE: 1984-07-10

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 178**

2008-01-25

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 179**

2008-01-25

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM ADDITIONS**

*Alloys containing not more than 1% Tm are listed here.*

- \*BT1 rare earth additions
- \*BT1 thulium alloys

**THULIUM ALLOYS**

*Alloys containing more than 1% Tm.*

- \*BT1 rare earth alloys
- NT1 thulium additions
- NT1 thulium base alloys

**THULIUM ARSENIDES**

*INIS: 1996-07-15; ETDE: 1975-10-28*

(From June 1996 to February 2008

THULIUM COMPOUNDS + ARSENIDES was used for this concept.)

- \*BT1 arsenides
- \*BT1 thulium compounds

**THULIUM BASE ALLOYS**

- \*BT1 thulium alloys

**THULIUM BORIDES**

- \*BT1 borides
- \*BT1 thulium compounds

**THULIUM BROMIDES**

- \*BT1 bromides
- \*BT1 thulium halides

**THULIUM CARBIDES**

- \*BT1 carbides
- \*BT1 thulium compounds

**THULIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 thulium halides

**THULIUM COMPLEXES**

- \*BT1 rare earth complexes

**THULIUM COMPOUNDS**

*1997-06-19*

- BT1 rare earth compounds
- NT1 thulium arsenides
- NT1 thulium borides
- NT1 thulium carbides
- NT1 thulium halides
  - NT2 thulium bromides
  - NT2 thulium chlorides
  - NT2 thulium fluorides
  - NT2 thulium iodides
- NT1 thulium hydrides
- NT1 thulium hydroxides
- NT1 thulium nitrates
- NT1 thulium nitrides
- NT1 thulium oxides
- NT1 thulium perchlorates
- NT1 thulium phosphates
- NT1 thulium phosphides
- NT1 thulium selenides
- NT1 thulium silicates
- NT1 thulium silicides
- NT1 thulium sulfates
- NT1 thulium sulfides
- NT1 thulium tellurides

**THULIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 thulium halides

**THULIUM HALIDES**

*2012-07-25*

- \*BT1 halides
- \*BT1 thulium compounds
- NT1 thulium bromides
- NT1 thulium chlorides
- NT1 thulium fluorides
- NT1 thulium iodides

**THULIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 thulium compounds

**THULIUM HYDROXIDES**

*2000-04-12*

- \*BT1 hydroxides
- \*BT1 thulium compounds

**THULIUM IODIDES**

- \*BT1 iodides
- \*BT1 thulium halides

**THULIUM IONS**

- \*BT1 ions

**THULIUM ISOTOPES**

- BT1 isotopes
- NT1 thulium 144
- NT1 thulium 145
- NT1 thulium 146
- NT1 thulium 147
- NT1 thulium 148
- NT1 thulium 149
- NT1 thulium 150
- NT1 thulium 151
- NT1 thulium 152
- NT1 thulium 153
- NT1 thulium 154
- NT1 thulium 155
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- NT1 thulium 172
- NT1 thulium 173
- NT1 thulium 174
- NT1 thulium 175
- NT1 thulium 176
- NT1 thulium 177
- NT1 thulium 178
- NT1 thulium 179

**THULIUM NITRATES**

- \*BT1 nitrates
- \*BT1 thulium compounds

**THULIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 thulium compounds

**THULIUM OXIDES**

- \*BT1 oxides
- \*BT1 thulium compounds

**THULIUM PERCHLORATES**

*INIS: 2000-04-12; ETDE: 1975-10-28*

- \*BT1 perchlorates
- \*BT1 thulium compounds

**THULIUM PHOSPHATES**

*INIS: 1975-10-23; ETDE: 1975-12-16*

- \*BT1 phosphates
- \*BT1 thulium compounds

**THULIUM PHOSPHIDES**

*INIS: 1996-07-23; ETDE: 1975-11-28*

(From July 1996 to November 2007

THULIUM COMPOUNDS + PHOSPHIDES was used for this concept.)

- \*BT1 phosphides
- \*BT1 thulium compounds

**THULIUM SELENIDES**

- \*BT1 selenides
- \*BT1 thulium compounds

**THULIUM SILICATES**

*INIS: 2000-04-12; ETDE: 1977-11-09*

- \*BT1 silicates
- \*BT1 thulium compounds

**THULIUM SILICIDES**

*INIS: 1978-07-31; ETDE: 1976-01-23*

- \*BT1 silicides
- \*BT1 thulium compounds

**THULIUM SULFATES**

- \*BT1 sulfates
- \*BT1 thulium compounds

**THULIUM SULFIDES**

- \*BT1 sulfides
- \*BT1 thulium compounds

**THULIUM TELLURIDES**

- \*BT1 tellurides
- \*BT1 thulium compounds

**THUNDERBIRD PROJECT**

*INIS: 1983-09-05; ETDE: 1975-11-26*

*In-situ gasification of coal following nuclear fragmentation of rock seams.*

*UF project thunderbird*

*RT coal gasification*

*RT nuclear explosions*

*RT underground explosions*

**THYLAKOID MEMBRANE****PROTEINS**

*INIS: 1993-08-05; ETDE: 1987-07-31*

\*BT1 membrane proteins

NT1 phycobiliproteins

NT2 phycocyanin

RT photosynthesis

RT photosynthetic membranes

**thylox process**

*2000-04-12*

*Wet scrubbing process for the removal of hydrogen sulfide using ammonium thioarsenate.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**thyme camphor**

USE thymol

**THYMECTOMY**

\*BT1 surgery

RT immunity

RT thymus

**thymic acid**

USE thymol

**THYMIDINE**

\*BT1 nucleosides

\*BT1 pyrimidines

NT1 fluorothymidine

RT thymine

**THYMIDYLIC ACID**

\*BT1 nucleotides

RT thymine

**THYMININE**

1996-07-08

UF 5-methyl uracil  
 UF 5-methyluracil  
 \*BT1 uracils  
 RT thymidine  
 RT thymidylic acid

**THYMOCYTES**

\*BT1 somatic cells  
 RT thymus

**THYMOL**

UF hydroxy-para-cymene  
 UF isopropyl cresol  
 UF thyme camphor  
 UF thymic acid  
 \*BT1 phenols  
 RT cymene

**thymonucleic acid**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE nucleic acids

**THYMUS**

BT1 lymphatic system  
 \*BT1 organs  
 RT calcitonin  
 RT chest  
 RT immune system diseases  
 RT lymphocytes  
 RT mediastinum  
 RT thymectomy  
 RT thymocytes  
 RT thymus cells

**THYMUS CELLS**

\*BT1 somatic cells  
 RT thymus

**THYRATRONS**

\*BT1 gas discharge tubes  
 RT rectifier tubes  
 RT switching circuits

**THYRISTORS**

BT1 semiconductor devices  
 RT rectifiers  
 RT switching circuits

**THYROCALCITONIN**

\*BT1 thyroid hormones  
 RT calcium

**THYROGLOBULIN**

\*BT1 globulins  
 RT iodine  
 RT thyroid  
 RT thyroid hormones  
 RT thyroxine

**THYROID**

\*BT1 endocrine glands  
 RT antithyroid drugs  
 RT blood-plasma clearance  
 RT calcitonin  
 RT goiter  
 RT iodine  
 RT neck  
 RT parathyroid glands  
 RT thyroglobulin  
 RT thyroid cells  
 RT thyroid hormones  
 RT thyroidectomy  
 RT thyroiditis

**thyroid antagonists**

USE antithyroid drugs

**THYROID CELLS**

INIS: 1981-07-08; ETDE: 1980-10-27

\*BT1 somatic cells  
 RT thyroid

**THYROID HORMONES**

\*BT1 peptide hormones  
 NT1 diiodothyronine  
 NT1 thyrocalcitonin  
 NT1 thyroxine  
 NT1 triiodothyronine  
 RT hyperthyroidism  
 RT hypothyroidism  
 RT iodine  
 RT metabolism  
 RT pbi  
 RT thyroglobulin  
 RT thyroid  
 RT thyronine  
 RT tsh

**thyroid stimulating hormone**

USE tsh

**THYROIDECTOMY**

\*BT1 surgery  
 RT thyroid

**THYROIDITIS**

\*BT1 endocrine diseases  
 RT thyroid

**THYRONINE**

UF desiodothyroxine  
 \*BT1 amino acids  
 \*BT1 hydroxy acids  
 \*BT1 peptide hormones  
 RT diiodothyronine  
 RT ethers  
 RT thyroid hormones  
 RT thyroxine  
 RT triiodothyronine

**thyrotoxicosis**

USE hyperthyroidism

**thyrotropin-releasing hormone**

USE trh

**THYROXINE**

UF t4 hormone  
 \*BT1 amino acids  
 \*BT1 organic iodine compounds  
 \*BT1 thyroid hormones  
 RT ethers  
 RT thyroglobulin  
 RT thyronine

**thyssen-galocsy process**

2000-04-12

(Prior to July 1993, this was a valid ETDE descriptor.)

SEE coal gasification

**THZ RANGE**

2003-03-21

UF terahertz frequency range  
 BT1 frequency range  
 NT1 thz range 01-100  
 NT1 thz range 100-1000

**THZ RANGE 01-100**

2003-03-21

\*BT1 thz range

**THZ RANGE 100-1000**

2003-03-21

\*BT1 thz range

**TIANWAN-1 REACTOR**

INIS: 2001-03-15; ETDE: 2001-02-05

Tianwan, Jiangsu, China.

\*BT1 wwer type reactors

**TIANWAN-2 REACTOR**

2014-07-11

Tianwan, Jiangsu, China

\*BT1 wwer type reactors

**TIBER-X TOKAMAK**

INIS: 1987-09-23; ETDE: 1987-04-08

Compact, 3-m radius, steady-state tokamak with ECH/IH current drive and profile control.

\*BT1 tokamak devices

RT thermonuclear ignition

**TIBET**

2000-04-12

\*BT1 china

**TIBIA**

\*BT1 skeleton  
 RT legs

**TIBR REACTOR**

INIS: 1986-12-09; ETDE: 1987-03-09

\*BT1 enriched uranium reactors

\*BT1 fast reactors

\*BT1 pulsed reactors

\*BT1 research reactors

\*BT1 transportable reactors

**TICKS**

\*BT1 arachnids

**tid**

USE travelling ionospheric disturbance

**TIDAL POWER**

1982-10-29

\*BT1 renewable energy sources

RT tidal power plants

RT tide

RT water current power generators

**TIDAL POWER PLANTS**

1997-06-19

BT1 power plants

NT1 kislogubsk power plant

NT1 passamaquoddy power plant

NT1 rance power plant

RT tidal power

**tidal waves**

USE tsunamis

**TIDE**

1985-07-19

(Prior to August 1985 TIDES was a valid INIS descriptor.)

RT seas

RT tidal power

RT water currents

RT water waves

**tight sands**

INIS: 2000-04-12; ETDE: 1980-12-08

USE permeability

USE sandstones

**tiglium oil**

1996-10-22

(Prior to March 1997 CROTON OIL was used for this concept in ETDE.)

USE triglycerides

USE vegetable oils

**TIGRIS RIVER**

INIS: 1988-05-13; ETDE: 1988-06-24

\*BT1 rivers

RT iraq

RT turkey

**tihange-1 reactor**

INIS: 1982-04-14; ETDE: 1982-05-07

USE tihange reactor

**TIHANGE-2 REACTOR**

INIS: 1982-04-14; ETDE: 1982-05-07  
\*BT1 pwr type reactors

**TIHANGE-3 REACTOR**

INIS: 1982-04-14; ETDE: 1982-05-07  
\*BT1 pwr type reactors

**TIHANGE REACTOR**

Tihange, Liege, Belgium.  
UF tihange-1 reactor  
\*BT1 pwr type reactors

**tikonol**

INIS: 1997-01-28; ETDE: 1975-12-16  
(Until October 1996 this was a valid descriptor.)  
USE iron base alloys

**til oil**

USE sesame oil

**tillage**

2013-11-27  
USE cultivation techniques

**TILT MECHANISMS**

INIS: 2000-04-12; ETDE: 1981-07-18  
RT inclination  
RT orientation  
RT solar tracking  
RT wind turbines

**tilt meters**

2017-03-23  
USE inclinometers

**tilting (neutron flux)**

USE neutron flux tilting

**TILTING INSTABILITY**

INIS: 1984-02-22; ETDE: 1984-03-06  
\*BT1 plasma macroinstabilities

**TIME DELAY**

INIS: 1992-01-31; ETDE: 1983-03-23  
UF timeliness  
RT administrative procedures  
RT contracts  
RT legal aspects  
RT management  
RT procurement  
RT schedules  
RT time measurement

**TIME DEPENDENCE**

RT blood-plasma clearance  
RT confinement time  
RT delayed radiation effects  
RT differential pac  
RT dose rates  
RT early radiation effects  
RT evolution equations  
RT flow rate  
RT heating rate  
RT incubation  
RT instability growth rates  
RT mortality  
RT quarantine  
RT radiation dose rate ranges  
RT relaxation time  
RT retention functions  
RT survival time  
RT temporal dose distributions

**TIME INTERVAL ANALYZERS**

BT1 measuring instruments  
NT1 chronotrons  
RT atomic clocks  
RT time measurement

**TIME LIMITATIONS**

INIS: 1976-12-08; ETDE: 1994-08-10  
For time limitations on liability for damages.  
RT liabilities  
RT liability limitations  
RT nuclear liability

**TIME MEASUREMENT**

(From February 1976 till March 1997  
PENDULUMS was a valid ETDE descriptor.)  
SF pendulums  
RT atomic clocks  
RT calendars  
RT coincidence circuits  
RT dead time  
RT measuring instruments  
RT pulse rise time  
RT time delay  
RT time interval analyzers  
RT timing circuits  
RT timing properties

**time-of-day pricing**

INIS: 2000-04-12; ETDE: 1979-05-03  
USE time-of-use pricing

**TIME-OF-FLIGHT MASS SPECTROMETERS**

INIS: 1976-01-28; ETDE: 1988-09-21  
\*BT1 dynamic mass spectrometers  
\*BT1 time-of-flight spectrometers

**TIME-OF-FLIGHT METHOD**

RT charge plunger method  
RT time-of-flight spectrometers

**TIME-OF-FLIGHT SPECTROMETERS**

\*BT1 spectrometers  
NT1 time-of-flight mass spectrometers  
RT time-of-flight method

**time-of-season pricing**

INIS: 2000-04-12; ETDE: 1980-05-06  
USE seasonal variations  
USE time-of-use pricing

**TIME-OF-USE PRICING**

INIS: 2000-04-12; ETDE: 1980-05-06  
Pricing of service during periods of the day or during different seasons of the year based on cost of supplying the service during the time of day or season.

UF time-of-day pricing  
UF time-of-season pricing  
BT1 prices  
RT electric power  
RT load management  
RT off-peak power  
RT peak-load pricing  
RT seasonal variations

**TIME PROJECTION CHAMBERS**

INIS: 1988-08-02; ETDE: 1979-02-23  
(Prior to August, 1988, this concept was indexed by PROJECTION SPARK CHAMBERS.)  
UF tpc  
\*BT1 drift chambers  
RT projection spark chambers

**TIME RESOLUTION**

Minimum time interval between events to be detected.  
BT1 resolution  
BT1 timing properties  
RT pulse pileup

**time-reversal invariance**

USE t invariance

**TIME-SERIES ANALYSIS**

INIS: 1996-05-06; ETDE: 1978-02-14  
\*BT1 statistics  
RT decision making  
RT forecasting  
RT mathematical models

**TIME-TO-AMPLITUDE CONVERTERS**

\*BT1 pulse converters

**TIME-TO-DIGITAL CONVERTERS**

2017-11-01  
\*BT1 pulse converters  
RT digital systems  
RT digitizers

**timeliness**

INIS: 2000-04-12; ETDE: 1983-03-23  
USE time delay

**TIMING CIRCUITS**

BT1 electronic circuits  
RT dead time  
RT discriminators  
RT sweep circuits  
RT time measurement  
RT timing properties

**TIMING PROPERTIES**

Properties of a detector, circuit or other component related to time measurement, such as its pulse rise time or time resolution, etc.

NT1 dead time  
NT1 pulse rise time  
NT1 time resolution  
RT pulse pileup  
RT time measurement  
RT timing circuits

**TIMKEN ALLOYS**

2000-04-12  
\*BT1 chromium-nickel steels  
\*BT1 cobalt alloys  
\*BT1 molybdenum alloys

**TIMOR SEA**

INIS: 2000-04-12; ETDE: 1995-10-03  
\*BT1 indian ocean  
RT australia  
RT indonesia

**TIN**

\*BT1 metals

**TIN 100**

INIS: 1985-09-06; ETDE: 1985-03-12  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 tin isotopes

**TIN 101**

INIS: 1992-09-23; ETDE: 1985-10-25  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 tin isotopes

**TIN 102**

INIS: 1997-02-07; ETDE: 1985-03-12  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 microseconds living radioisotopes  
\*BT1 seconds living radioisotopes  
\*BT1 tin isotopes



**TIN 103***INIS: 1980-07-24; ETDE: 1980-08-12*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 104***INIS: 1976-11-08; ETDE: 1976-09-15*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tin isotopes

**TIN 105***INIS: 1980-07-24; ETDE: 1980-08-12*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 106**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 107**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 108**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 109**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 110**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 tin isotopes

**TIN 110 TARGET***INIS: 1980-07-24; ETDE: 1980-08-12*

- BT1 targets

**TIN 111**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 112**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 112 REACTIONS***INIS: 1991-10-22; ETDE: 1991-11-26*

- \*BT1 heavy ion reactions

**TIN 112 TARGET***ETDE: 1976-07-09*

- BT1 targets

**TIN 113**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes
- RT radioisotope generators

**TIN 114**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 114 TARGET***ETDE: 1976-07-09*

- BT1 targets

**TIN 115**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 115 TARGET***INIS: 1976-10-29; ETDE: 1976-12-16*

- BT1 targets

**TIN 116**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 116 REACTIONS***INIS: 1987-11-02; ETDE: 1987-12-23*

- \*BT1 heavy ion reactions

**TIN 116 TARGET***ETDE: 1976-07-09*

- BT1 targets

**TIN 117**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 117 TARGET***ETDE: 1976-07-09*

- BT1 targets

**TIN 118**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 118 REACTIONS***INIS: 1987-06-29; ETDE: 1987-07-09*

- \*BT1 heavy ion reactions

**TIN 118 TARGET***ETDE: 1976-07-09*

- BT1 targets

**TIN 119**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 119 TARGET***ETDE: 1976-07-09*

- BT1 targets

**TIN 120**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 120 BEAMS***INIS: 1984-05-24; ETDE: 1984-06-29*

- \*BT1 ion beams

**TIN 120 REACTIONS***INIS: 1978-07-03; ETDE: 1978-08-07*

- \*BT1 heavy ion reactions

**TIN 120 TARGET***ETDE: 1976-07-09*

- BT1 targets

**TIN 121**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 tin isotopes
- \*BT1 years living radioisotopes

**TIN 122**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 122 REACTIONS***INIS: 1980-09-12; ETDE: 1980-10-07*

- \*BT1 heavy ion reactions

**TIN 122 TARGET***ETDE: 1976-07-09*

- BT1 targets

**TIN 123**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 124**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 124 REACTIONS***INIS: 1980-12-01; ETDE: 1981-01-09*

- \*BT1 heavy ion reactions

**TIN 124 TARGET***ETDE: 1976-07-09*

- BT1 targets

**TIN 125**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 125 TARGET***INIS: 1992-09-23; ETDE: 1984-10-10*

- BT1 targets

**TIN 126**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

- \*BT1 tin isotopes
- \*BT1 years living radioisotopes

**TIN 126 TARGET**

*INIS: 1980-04-02; ETDE: 1980-05-06*

- BT1 targets

**TIN 127**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 128**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 129**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 130**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 131**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 134**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 135**

*2004-12-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 tin isotopes

**TIN 136**

*2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 tin isotopes

**TIN 137**

*2004-12-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 tin isotopes

**TIN 99**

*2007-04-23*

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 tin isotopes

**TIN ADDITIONS**

*Alloys containing not more than 1% Sn are listed here.*

- \*BT1 tin alloys
- NT1 zamak

**TIN ALLOYS**

*Alloys containing more than 1% Sn.*

- UF transage 175
- BT1 alloys
- NT1 alloy-bi50pb25cd12sn12
- NT2 wood metal
- NT1 alloy-zr98sn-2
- NT2 zircaloy 2
- NT1 alloy-zr98sn-4
- NT2 zircaloy 4
- NT1 bronze
- NT1 cerrobend alloys
- NT1 lichtenberg alloy
- NT1 newton-metal
- NT1 ounce metal
- NT1 rose-metal
- NT1 terne-metal
- NT1 tin additions
- NT2 zamak
- NT1 tin base alloys

**TIN ARSENIDES**

*INIS: 2000-04-12; ETDE: 1975-11-11*

- \*BT1 arsenides
- BT1 tin compounds

**TIN BASE ALLOYS**

- \*BT1 tin alloys

**TIN BORIDES**

*1996-07-15*

(From June 1996 to February 2008 TIN COMPOUNDS + BORIDES was used for this concept.)

- \*BT1 borides
- BT1 tin compounds

**TIN BROMIDES**

- \*BT1 bromides
- \*BT1 tin halides

**TIN CARBIDES**

*INIS: 2000-04-12; ETDE: 1975-12-16*

- \*BT1 carbides
- BT1 tin compounds

**TIN CHLORIDES**

- \*BT1 chlorides
- \*BT1 tin halides

**TIN COMPLEXES**

- BT1 complexes

**TIN COMPOUNDS**

*1997-06-19*

- NT1 stannates
- NT2 cadmium stannates
- NT1 stannides
- NT1 tin arsenides
- NT1 tin borides

- NT1 tin carbides
- NT1 tin halides
- NT2 tin bromides
- NT2 tin chlorides
- NT2 tin fluorides
- NT2 tin iodides
- NT1 tin hydrides
- NT1 tin hydroxides
- NT1 tin nitrides
- NT1 tin oxides
- NT1 tin phosphates
- NT1 tin phosphides
- NT1 tin selenides
- NT1 tin sulfates
- NT1 tin sulfides
- NT1 tin tellurides
- NT1 tin tungstates

**TIN FLUORIDES**

- \*BT1 fluorides
- \*BT1 tin halides

**TIN HALIDES**

*INIS: 1991-09-16; ETDE: 1977-06-24*

- \*BT1 halides
- BT1 tin compounds
- NT1 tin bromides
- NT1 tin chlorides
- NT1 tin fluorides
- NT1 tin iodides

**TIN HYDRIDES**

- \*BT1 hydrides
- BT1 tin compounds

**TIN HYDROXIDES**

- \*BT1 hydroxides
- BT1 tin compounds

**TIN IODIDES**

- \*BT1 iodides
- \*BT1 tin halides

**TIN IONS**

- \*BT1 ions

**TIN ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 tin 100
- NT1 tin 101
- NT1 tin 102
- NT1 tin 103
- NT1 tin 104
- NT1 tin 105
- NT1 tin 106
- NT1 tin 107
- NT1 tin 108
- NT1 tin 109
- NT1 tin 110
- NT1 tin 111
- NT1 tin 112
- NT1 tin 113
- NT1 tin 114
- NT1 tin 115
- NT1 tin 116
- NT1 tin 117
- NT1 tin 118
- NT1 tin 119
- NT1 tin 120
- NT1 tin 121
- NT1 tin 122
- NT1 tin 123
- NT1 tin 124
- NT1 tin 125
- NT1 tin 126
- NT1 tin 127
- NT1 tin 128
- NT1 tin 129
- NT1 tin 130
- NT1 tin 131

NT1 tin 132  
 NT1 tin 133  
 NT1 tin 134  
 NT1 tin 135  
 NT1 tin 136  
 NT1 tin 137  
 NT1 tin 99

**TIN NITRIDES**

1976-06-23

\*BT1 nitrides  
 BT1 tin compounds

**TIN ORES**

INIS: 1978-08-30; ETDE: 1975-10-01

BT1 ores

**TIN OXIDES**

\*BT1 oxides  
 BT1 tin compounds  
 RT stannates

**TIN PHOSPHATES**

\*BT1 phosphates  
 BT1 tin compounds

**TIN PHOSPHIDES**

INIS: 1977-01-25; ETDE: 1975-11-11

\*BT1 phosphides  
 BT1 tin compounds

**TIN SELENIDES**

1976-07-16

\*BT1 selenides  
 BT1 tin compounds

**TIN SULFATES**

\*BT1 sulfates  
 BT1 tin compounds

**TIN SULFIDES**

\*BT1 sulfides  
 BT1 tin compounds

**TIN TELLURIDES**

\*BT1 tellurides  
 BT1 tin compounds

**TIN TUNGSTATES**

2000-04-12

BT1 tin compounds  
 \*BT1 tungstates

**TINEA**

INIS: 2000-04-12; ETDE: 1979-07-18

\*BT1 fungal diseases  
 RT fungi

**tioga nitrogen removal process**

INIS: 2000-04-12; ETDE: 1976-03-22

(Prior to February 1995, this was a valid ETDE descriptor.)

USE nitrogen  
 USE removal

**TIPVANE ROTORS**

INIS: 2000-04-12; ETDE: 1978-09-13

Horizontal axis turbines with small wings attached at right angles to the rotor tips.

UF dynamic inducer rotors  
 BT1 rotors  
 RT horizontal axis turbines  
 RT wind turbines

**TIRES**

1992-03-16

RT vehicles  
 RT wheels

**TIRON**

\*BT1 polyphenols  
 BT1 reagents  
 \*BT1 sodium compounds  
 \*BT1 sulfonic acids

**TISSUE CULTURES**

UF cultures (tissue)  
 UF organ cultures  
 RT animal tissues  
 RT cell cultures  
 RT culture media  
 RT in vitro

**TISSUE DISTRIBUTION**

1985-12-11

BT1 distribution  
 RT animal tissues  
 RT biological localization  
 RT radionuclide kinetics

**tissue equivalent chambers**

USE bragg gray chambers

**TISSUE-EQUIVALENT DETECTORS**

\*BT1 radiation detectors  
 RT dose equivalents

**TISSUE-EQUIVALENT MATERIALS**

BT1 materials  
 RT animal tissues  
 RT phantoms

**TISSUE EXTRACTS**

\*BT1 biological materials  
 RT animal tissues  
 RT cell constituents  
 RT mitogens

**tissues**

1996-03-12

(Until March 1996 this was a valid term with its meaning restricted to ANIMAL TISSUES.)

SEE animal tissues  
 SEE plant tissues

**TITANATES**

1997-06-17

BT1 oxygen compounds  
 \*BT1 titanium compounds  
 NT1 cadmium titanates  
 NT1 lithium titanates  
 NT1 plzt  
 NT1 pzt  
 NT1 strontium titanates  
 RT titanium oxides

**TITANIDES**

2013-06-03

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 titanium compounds

**TITANITE**

UF sphene  
 \*BT1 silicate minerals  
 RT titanium silicates

**TITANIUM**

\*BT1 transition elements  
 NT1 titanium-alpha  
 NT1 titanium-beta  
 RT kroll process

**TITANIUM 38**

2008-01-28

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 titanium isotopes

**TITANIUM 39**

1988-11-16

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei

\*BT1 milliseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 40**

INIS: 1990-05-16; ETDE: 1990-06-01

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 41**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 42**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 43**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 44**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes  
 \*BT1 years living radioisotopes

**TITANIUM 44 TARGET**

INIS: 1978-11-24; ETDE: 1978-09-11

BT1 targets

**TITANIUM 45**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes

**TITANIUM 45 TARGET**

INIS: 1977-11-21; ETDE: 1978-03-08

BT1 targets

**TITANIUM 46**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 titanium isotopes

**TITANIUM 46 REACTIONS**

INIS: 1985-11-18; ETDE: 1981-06-13

\*BT1 heavy ion reactions

**TITANIUM 46 TARGET**

ETDE: 1976-07-09

BT1 targets

**TITANIUM 47**

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 titanium isotopes

**TITANIUM 47 TARGET**

ETDE: 1976-07-09

BT1 targets

**TITANIUM 48**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 titanium isotopes

**TITANIUM 48 BEAMS***INIS: 1989-05-29; ETDE: 1989-06-21*

\*BT1 ion beams

**TITANIUM 48 REACTIONS***INIS: 1977-09-15; ETDE: 1978-03-08*

\*BT1 heavy ion reactions

**TITANIUM 48 TARGET***ETDE: 1976-07-09*

BT1 targets

**TITANIUM 49**

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 titanium isotopes  
*RT* titanium 49 reactions

**TITANIUM 49 REACTIONS***INIS: 1992-09-23; ETDE: 1985-09-24*

\*BT1 heavy ion reactions

*RT* titanium 49**TITANIUM 49 TARGET***ETDE: 1976-07-09*

BT1 targets

**TITANIUM 50**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 titanium isotopes  
*RT* titanium 50 reactions

**TITANIUM 50 BEAMS***INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 ion beams

**TITANIUM 50 REACTIONS**

\*BT1 heavy ion reactions

*RT* titanium 50**TITANIUM 50 TARGET***ETDE: 1976-07-09*

BT1 targets

**TITANIUM 51**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 52**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 53***INIS: 1976-11-08; ETDE: 1976-09-15*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 54***1980-11-07*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes

**TITANIUM 55***INIS: 1991-02-11; ETDE: 1981-01-30*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes

**TITANIUM 56***INIS: 1986-08-19; ETDE: 1981-01-30*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes

**TITANIUM 57***INIS: 1986-08-19; ETDE: 1986-09-05*

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes

**TITANIUM 58***2005-03-11*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 59***2005-03-11*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 60***2005-03-11*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 61***2008-01-28*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 62***2008-01-28*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes

**TITANIUM 63***2008-01-28*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes

**TITANIUM ADDITIONS***1996-11-13**Alloys containing not more than 1% Ti are listed here.*

\*BT1 titanium alloys  
**NT1** alloy-fe44ni33cr21  
**NT2** incoloy 800h  
**NT1** alloy-fe46ni33cr21  
**NT2** incoloy 800  
**NT2** incoloy 802  
**NT1** alloy-in-102  
**NT1** alloy-mo99  
**NT2** alloy-tzm  
**NT2** alloy-zm-2a  
**NT1** alloy-n-10m  
**NT1** alloy-ni43fe30cr22mo3  
**NT2** incoloy 825  
**NT1** alloy-ni51cr48  
**NT2** inconel 671  
**NT1** alloy-ni53cr19fe19nb5mo3

**NT2** inconel 718  
**NT1** alloy-ni59cr30fe9  
**NT2** inconel 690  
**NT1** alloy-ni61cr22mo9nb4fe3  
**NT2** inconel 625  
**NT1** alloy-ni70mo17cr7fe5  
**NT2** hastelloy n  
**NT2** inor-8  
**NT1** alloy-ni73cr20mn3nb3  
**NT2** inconel 82  
**NT1** alloy-ni74cr13al6mo4  
**NT2** inconel 713c  
**NT1** alloy-ni75cr12al6mo5  
**NT2** inconel 713lc  
**NT1** alloy-ni76cr15fe8  
**NT2** inconel 600  
**NT1** alloy-ni78cr21  
**NT1** duranickel  
**NT1** steel-cr15ni15motib  
**NT1** steel-cr17ni13mo2ti  
**NT1** steel-cr17ni13mo3ti  
**NT1** steel-cr18ni10ti  
**NT2** stainless steel-321  
**NT1** steel-cr18ni12ti  
**NT1** steel-cr18ni9ti

**TITANIUM ALLOYS***1996-11-13**Alloys containing more than 1% Ti.**UF nitinol*

\*BT1 transition element alloys

**NT1** alloy-b-1900  
**NT1** alloy-c-103  
**NT1** alloy-d-979  
**NT1** alloy-in-853  
**NT1** alloy-m-813  
**NT1** alloy-mar-m246  
**NT1** alloy-n28t3  
**NT1** alloy-ni41fe40cr16nb3  
**NT2** inconel 706  
**NT1** alloy-ni43fe33cr16mo3  
**NT2** nimonic pe16  
**NT1** alloy-ni46cr23co19ti5al4  
**NT2** alloy-in-939  
**NT1** alloy-ni50co20cr15al5mo5  
**NT2** nimonic 105  
**NT1** alloy-ni55co17cr15mo5al4ti4  
**NT2** astroloy  
**NT1** alloy-ni55cr19co11mo10ti3  
**NT2** rene 41  
**NT1** alloy-ni58cr20co14mo4ti3  
**NT2** waspaloy  
**NT1** alloy-ni59cr20co17ti2  
**NT1** alloy-ni60co15cr10al6ti5mo3  
**NT2** alloy-in-100  
**NT1** alloy-ni61cr16co9al3ti3w3  
**NT2** alloy-in-738  
**NT1** alloy-ni73cr15fe7ti3  
**NT2** inconel x750  
**NT1** alloy-ni76cr20ti2  
**NT2** nimonic 80a  
**NT1** alloy-ni77cr20ti2  
**NT1** alloy-nt25a5  
**NT1** carboloy  
**NT1** discaloy  
**NT1** incoloy 901  
**NT1** konel  
**NT1** ni-o-nel  
**NT1** rene-100  
**NT1** rene 80  
**NT1** rene 95  
**NT1** stainless steel-jbk-75  
**NT1** steel-cr11ni10mo2ti-1  
**NT1** steel-ni26cr15ti2movalb  
**NT2** alloy-a-286  
**NT1** steel-ni36cr12ti3al-1  
**NT1** titanium additions  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h

**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-in-102  
**NT2** alloy-mo99  
**NT3** alloy-tzm  
**NT3** alloy-zm-2a  
**NT2** alloy-n-10m  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni51cr48  
**NT3** inconel 671  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713c  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni78cr21  
**NT2** duranickel  
**NT2** steel-cr15ni15motib  
**NT2** steel-cr17ni13mo2ti  
**NT2** steel-cr17ni13mo3ti  
**NT2** steel-cr18ni10ti  
**NT3** stainless steel-321  
**NT2** steel-cr18ni12ti  
**NT2** steel-cr18ni9ti  
**NT1** titanium base alloys  
**NT2** alloy-ti78cr11mo7al3  
**NT2** alloy-ti88mo8al3  
**NT2** alloy-ti89al6mo3  
**NT2** alloy-ti90al6  
**NT2** alloy-ti90al6mo3  
**NT2** alloy-ti90al6v4  
**NT2** alloy-ti90mo7al2  
**NT2** alloy-ti91al4mo3  
**NT2** alloy-ti91al5cr2  
**NT2** alloy-ti99  
**NT1** udimet alloys  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** udimet 500

**TITANIUM-ALPHA**

\*BT1 titanium

**TITANIUM ARSENIDES***INIS: 2000-04-12; ETDE: 1984-06-14*

(From January 1993 to February 2008

TITANIUM COMPOUNDS + ARSENIDES was used for this concept.)

\*BT1 arsenides

\*BT1 titanium compounds

**TITANIUM BASE ALLOYS***UF alloy-60t**UF alloy-vt30**UF transage 117**UF transage 120**UF transage 129**UF transage 134**UF transage 175**SF alloy-ts5*

\*BT1 titanium alloys

**NT1** alloy-ti78cr11mo7al3**NT1** alloy-ti88mo8al3**NT1** alloy-ti89al6mo3**NT1** alloy-ti90al6**NT1** alloy-ti90al6mo3**NT1** alloy-ti90al6v4**NT1** alloy-ti90mo7al2**NT1** alloy-ti91al4mo3**NT1** alloy-ti91al5cr2**NT1** alloy-ti99**TITANIUM-BETA**

\*BT1 titanium

**TITANIUM BORIDES**

\*BT1 borides

\*BT1 titanium compounds

**TITANIUM BROMIDES**

\*BT1 bromides

\*BT1 titanium halides

**TITANIUM CARBIDES**

\*BT1 carbides

\*BT1 titanium compounds

**TITANIUM CHLORIDES**

\*BT1 chlorides

\*BT1 titanium halides

**TITANIUM COMPLEXES**

\*BT1 transition element complexes

**TITANIUM COMPOUNDS***1997-06-19*

BT1 transition element compounds

**NT1** titanates**NT2** cadmium titanates**NT2** lithium titanates**NT2** plzt**NT2** pzt**NT2** strontium titanates**NT1** titanides**NT1** titanium arsenides**NT1** titanium borides**NT1** titanium carbides**NT1** titanium halides**NT2** titanium bromides**NT2** titanium chlorides**NT2** titanium fluorides**NT2** titanium iodides**NT1** titanium hydrides**NT1** titanium hydroxides**NT1** titanium nitrates**NT1** titanium nitrides**NT1** titanium oxides**NT1** titanium phosphates**NT1** titanium phosphides**NT1** titanium selenides**NT1** titanium silicates**NT1** titanium silicides**NT1** titanium sulfates**NT1** titanium sulfides**NT1** titanium tellurides**NT1** titanium tungstates**TITANIUM FLUORIDES**

\*BT1 fluorides

\*BT1 titanium halides

**TITANIUM HALIDES***2012-07-25*

\*BT1 halides

\*BT1 titanium compounds

**NT1** titanium bromides**NT1** titanium chlorides**NT1** titanium fluorides**NT1** titanium iodides**TITANIUM HYDRIDES**

\*BT1 hydrides

\*BT1 titanium compounds

**TITANIUM HYDROXIDES**

\*BT1 hydroxides

\*BT1 titanium compounds

**TITANIUM IODIDES**

\*BT1 iodides

\*BT1 titanium halides

**TITANIUM IONS**

\*BT1 ions

**TITANIUM ISOTOPES***1999-07-16*

BT1 isotopes

**NT1** titanium 38**NT1** titanium 39**NT1** titanium 40**NT1** titanium 41**NT1** titanium 42**NT1** titanium 43**NT1** titanium 44**NT1** titanium 45**NT1** titanium 46**NT1** titanium 47**NT1** titanium 48**NT1** titanium 49**NT1** titanium 50**NT1** titanium 51**NT1** titanium 52**NT1** titanium 53**NT1** titanium 54**NT1** titanium 55**NT1** titanium 56**NT1** titanium 57**NT1** titanium 58**NT1** titanium 59**NT1** titanium 60**NT1** titanium 61**NT1** titanium 62**NT1** titanium 63**TITANIUM NITRATES**

\*BT1 nitrates

\*BT1 titanium compounds

**TITANIUM NITRIDES**

\*BT1 nitrides

\*BT1 titanium compounds

**TITANIUM ORES***INIS: 1993-01-13; ETDE: 1992-09-14*

BT1 ores

**TITANIUM OXIDES***1996-06-26*

\*BT1 oxides

\*BT1 titanium compounds

*RT* brannerite*RT* hollandite*RT* ilmenite*RT* lodochnikite*RT* marignacite*RT* oxide minerals*RT* perovskite*RT* rutile*RT* titanates*RT* zirconolite**TITANIUM PHOSPHATES**

\*BT1 phosphates

\*BT1 titanium compounds

**TITANIUM PHOSPHIDES***INIS: 1991-09-16; ETDE: 1985-12-13*

\*BT1 phosphides

\*BT1 titanium compounds

**TITANIUM SELENIDES***INIS: 1978-07-03; ETDE: 1978-02-15*

\*BT1 selenides

\*BT1 titanium compounds

**TITANIUM SILICATES**

\*BT1 silicates

\*BT1 titanium compounds

*RT* silicate minerals

RT titanite

## TITANIUM SILICIDES

1979-04-27

- \*BT1 silicides
- \*BT1 titanium compounds

## TITANIUM SULFATES

- \*BT1 sulfates
- \*BT1 titanium compounds

## TITANIUM SULFIDES

- \*BT1 sulfides
- \*BT1 titanium compounds

## TITANIUM TELLURIDES

INIS: 1979-09-18; ETDE: 1978-09-11

- \*BT1 tellurides
- \*BT1 titanium compounds

## TITANIUM TUNGSTATES

2000-04-12

- \*BT1 titanium compounds
- \*BT1 tungstates

## TITRATION

1995-11-22

- \*BT1 volumetric analysis
- NT1 amperometry
- NT1 iodometry
- NT1 potentiometry
- NT1 thermometric titration
- RT acid neutralizing capacity
- RT potentiostats

## TIWI GEOTHERMAL FIELD

INIS: 2000-04-12; ETDE: 1977-07-23

- BT1 geothermal fields
- RT philippines

## TJ-1 TOKAMAK

INIS: 1996-03-04; ETDE: 1991-09-13

CIEMAT, Madrid, Spain.

- \*BT1 tokamak devices
- RT tj-iu torsatron

## TJ-II HELIAC

INIS: 1999-01-26; ETDE: 1999-09-03

CIEMAT, Madrid, Spain.

- \*BT1 heliac stellarators

## TJ-IU TORSATRON

INIS: 1996-03-04; ETDE: 1996-02-26

Torsatron stellarator at CIEMAT, Madrid, Spain, which started operation in April 1994.

- \*BT1 torsatron stellarators
- RT tj-1 tokamak

## TLATELOLCO TREATY

INIS: 1975-12-09; ETDE: 1976-01-26

Treaty for the Prohibition of Nuclear Weapons in Latin America.

- UF latin america nuclear weapons prohibition treaty
- UF nuclear weapons, latin american prohibition treaty
- UF prohibition of nuclear weapons (latin american treaty)
- UF treaty for prohibition of nuclear weapons in latin america
- BT1 treaties
- RT arms control
- RT nuclear weapons

## tld (dosemeters)

- USE thermoluminescent dosemeters

## tld (dosimetry)

- USE thermoluminescent dosimetry

## tld systems

- USE thermoluminescent dosemeters

## TLM CONFIGURATIONS

INIS: 1975-08-20; ETDE: 1975-10-01

Toroidally Linked Mirror configurations.

- \*BT1 magnetic mirror configurations
- RT magnetic fields
- RT magnetic mirrors
- RT minimum-b configurations
- RT tandem mirrors
- RT toroidal configuration

## TLP DEVICES

1996-07-16

(Prior to August 1996 ALPHA DEVICE was a valid ETDE descriptor.)

- UF alpha device
- UF longitudinal pinch devices (toroidal)
- UF toroidal longitudinal pinch device
- \*BT1 toroidal pinch devices
- NT1 zeta devices
- RT longitudinal pinch

## tmpn

INIS: 1994-08-22; ETDE: 1980-01-15

2, 2, 6, 6-tetramethyl-4-piperidinol-N-oxyl.

- (Until August 1994 this was a valid descriptor.)
- USE hydroxy compounds
- USE organic oxygen compounds
- USE piperidines

## TMR REACTORS

INIS: 1981-07-06; ETDE: 1978-04-27

- UF tandem mirror type reactors
- SF tandem mirror devices
- \*BT1 magnetic mirror type reactors
- RT magnetic mirrors
- RT tandem mirrors
- RT thermal barriers

## TMTSF

INIS: 1983-10-14; ETDE: 1983-04-07

- UF tetramethyltetraselenafulvalene
- \*BT1 heterocyclic compounds
- \*BT1 organic superconductors
- BT1 selenium compounds

## TMX DEVICES

INIS: 1978-04-21; ETDE: 1977-08-25

Tandem Mirror Experiment at Lawrence Livermore Laboratory.

- UF tandem mirror experiment at uclll
- SF tandem mirror devices
- \*BT1 tandem mirrors
- RT lawrence livermore laboratory
- RT magnetic mirror type reactors
- RT thermal barriers

## tna

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor; it was used for the concept TRINONYLAMINE.)

- USE amines
- USE chelating agents

## tnp

2, 4, 6-trinitro phenol.

- USE picric acid

## TNS REACTORS

INIS: 1978-09-28; ETDE: 1978-03-03

The next tokamak confinement device beyond TFTR.

- UF the next step device
- UF the next step thermonuclear reactor
- \*BT1 tokamak type reactors

## TNT

- UF trinitrotoluene
- \*BT1 chemical explosives
- \*BT1 nitro compounds

RT toluene

## TNT-A TOKAMAK

INIS: 1985-03-19; ETDE: 1985-04-09

- UF tokyo non-circular tokamak
- \*BT1 tokamak devices

## tntr-kiwi

2000-04-12

- USE kiwi-tnt reactor

## toa (trioctylamine)

ETDE: 2005-02-01

(Prior to January 2005 TOA was a valid descriptor.)

- USE trioctylamine

## TOADS

INIS: 1993-07-19; ETDE: 1977-09-19

(Until July 1993, this concept was indexed by FROGS.)

- \*BT1 amphibians
- RT frogs

## TOBACCO

- RT crops
- RT nicotiana
- RT tobacco smokes

## TOBACCO MOSAIC VIRUS

- \*BT1 viruses
- RT plant diseases

## tobacco plant

- USE nicotiana

## TOBACCO PRODUCTS

2000-04-12

- SF cigarettes
- RT nicotiana
- RT tobacco smokes

## TOBACCO SMOKES

- \*BT1 smokes
- RT tobacco
- RT tobacco products

## tocopherols

- USE vitamin e

## TOGGLE OPERATION

INIS: 2000-04-12; ETDE: 1979-11-23

- \*BT1 nuclear explosions
- \*BT1 underground explosions
- NT1 rio blanco event
- RT contained explosions

## TOGO

INIS: 1981-02-27; ETDE: 1980-08-12

- BT1 africa
- BT1 developing countries

## tohoku-1 reactor

- USE onagawa-1 reactor

## tohoku avf cyclotron

INIS: 1983-06-30; ETDE: 2000-09-20

- USE tohoku cyclotron

## TOHOKU CYCLOTRON

INIS: 1983-06-30; ETDE: 1995-02-13

At Cyclotron and Radioisotope Center, Tohoku University, Sendai, Japan.

- UF cyric cyclotron
- UF sendai cyclotron
- UF tohoku avf cyclotron
- UF tohoku university cyclotron
- \*BT1 heavy ion accelerators
- \*BT1 isochronous cyclotrons

## tohoku university cyclotron

INIS: 1983-06-30; ETDE: 2000-09-20

- USE tohoku cyclotron

**TOILETS**

INIS: 2000-04-12; ETDE: 1977-06-21  
RT residential buildings

**tokai-1 reactor**

ETDE: 2002-06-13  
USE tokai-mura reactor

**TOKAI-2 REACTOR**

JAPCO, Tokai, Ibaraki, Japan.  
UF japco-3 reactor  
\*BT1 bwr type reactors

**tokai-mura fast critical assembly**

USE fca reactor

**TOKAI-MURA REACTOR**

JAPCO, Tokai, Ibaraki, Japan. Permanently shut down since 1998.  
UF japco-1 reactor  
UF tokai-1 reactor  
\*BT1 carbon dioxide cooled reactors  
\*BT1 magnox type reactors  
\*BT1 thermal reactors

**TOKAI REPROCESSING PLANT**

2006-04-19  
\*BT1 fuel reprocessing plants

**tokai-to-kamioka**

2016-12-12  
SEE super-kamiokande neutrino detector

**tokamak chauffage alfvén (brazil)**

2004-07-09  
USE tcabr tokamak

**tokamak chauffage alfvén (switzerland)**

INIS: 1984-04-04; ETDE: 1984-05-08  
USE tca tokamak

**tokamak de varenes**

1983-09-06  
USE varenes tokamak

**TOKAMAK DEVICES**

1998-01-28  
UF flux conserving tokamaks  
UF smartor device  
\*BT1 closed plasma devices  
NT1 act devices  
NT1 aditya tokamak  
NT1 alcator device  
NT1 asdex tokamak  
NT1 atc devices  
NT1 castor tokamak  
NT1 columbia high-beta tokamak  
NT1 compact ignition tokamak  
NT1 compass-d tokamak  
NT1 continuous current tokamak  
NT1 ct-6b tokamak  
NT1 dante tokamak  
NT1 dite tokamak  
NT1 doublet-2 device  
NT1 doublet-3 device  
NT1 etf tokamak  
NT1 ft tokamak  
NT1 hl-1 tokamak  
NT1 hl-1m tokamak  
NT1 hl-2 tokamak  
NT1 hl-2a tokamak  
NT1 ht-2 tokamak  
NT1 ht-6b tokamak  
NT1 ht-6m tokamak  
NT1 ht-7 tokamak  
NT1 ht-7u tokamak  
NT1 hybtok tokamaks  
NT1 ignition spherical torus  
NT1 intor tokamak  
NT1 isttok tokamak

NT1 isx tokamak  
NT1 iter tokamak  
NT1 jet tokamak  
NT1 jft-2 tokamak  
NT1 jft-2a tokamak  
NT1 jft-2m tokamak  
NT1 jippt-2 device  
NT1 jt-60 tokamak  
NT1 jt-60u tokamak  
NT1 jxfr tokamak  
NT1 kt-2 tokamak  
NT1 lt-3 tokamak  
NT1 lt-4 tokamak  
NT1 mt-1 tokamak  
NT1 mtx tokamak  
NT1 net tokamak  
NT1 ormak devices  
NT1 pbx devices  
NT1 pdx devices  
NT1 petula tokamak  
NT1 phaedrus-t tokamak  
NT1 plt devices  
NT1 pulsator devices  
NT1 rtp tokamak  
NT1 sinp tokamak  
NT1 spheromak devices  
NT2 cdx-u spheromak  
NT2 ctx spheromak  
NT2 globus-m spheromak  
NT2 mast tokamak  
NT2 nstx device  
NT2 sspix device  
NT2 sunist spheromak  
NT2 ts-3 device  
NT1 st tokamak  
NT1 starfire tokamak  
NT1 start tokamak  
NT1 stor-m tokamak  
NT1 stx devices  
NT1 surmac tokamak  
NT1 t-10 tokamak  
NT1 t-14 tokamak  
NT1 t-15 tokamak  
NT1 t-7 tokamak  
NT1 tbr tokamak  
NT1 tca tokamak  
NT1 tcabr tokamak  
NT1 tcv tokamak  
NT1 text devices  
NT1 textor tokamak  
NT1 tfr tokamak  
NT1 tfr tokamak  
NT1 tiber-x tokamak  
NT1 tj-1 tokamak  
NT1 tnt-a tokamak  
NT1 tokapole devices  
NT1 tokoloshe tokamak  
NT1 tore supra tokamak  
NT1 tormac devices  
NT1 tortus tokamak  
NT1 torus-ii tokamak  
NT1 toscia tokamak  
NT1 tpx device  
NT1 triam-1 tokamak  
NT1 tuman devices  
NT1 two-component torus  
NT1 uwmak devices  
NT1 varenes tokamak  
NT1 versator tokamak  
NT1 wt-3 tokamak  
RT banana regime  
RT h-mode plasma confinement  
RT magnetic surfaces  
RT marfe  
RT mode rational surfaces  
RT pfirsch-schlueter regime  
RT plasma disruption  
RT plasma radial profiles  
RT plateau regime

RT sawtooth oscillations  
RT tokamak type reactors  
RT wega stellarator

**tokamak etf**

INIS: 2000-04-12; ETDE: 1979-12-17  
(Prior to July 1985, this was a valid ETDE descriptor.)  
USE etf tokamak

**tokamak fontenay-aux-roses**

USE tfr tokamak

**tokamak fusion core experiment**

INIS: 1994-04-11; ETDE: 1984-10-24  
USE tfcx reactors

**tokamak fusion test reactor**

INIS: 1977-11-02; ETDE: 1975-09-11  
USE tfr tokamak

**tokamak model st**

USE st tokamak

**TOKAMAK TYPE REACTORS**

INIS: 1997-06-19; ETDE: 1976-09-15  
BT1 thermonuclear reactors  
NT1 compact ignition tokamak  
NT1 doublet reactors  
NT1 iter tokamak  
NT1 tentok reactors  
NT1 tfcx reactors  
NT1 tns reactors  
RT fusion neutron source facilities  
RT tokamak devices

**TOKAPOLE DEVICES**

INIS: 1981-07-06; ETDE: 1978-12-11  
\*BT1 internal ring devices  
\*BT1 tokamak devices

**TOKOLOSHE TOKAMAK**

INIS: 1991-03-22; ETDE: 1991-04-09  
Pelindaba, Pretoria, South Africa.  
\*BT1 tokamak devices

**tokyo-1 reactor**

USE fukushima-1 reactor

**tokyo-2 reactor**

USE fukushima-2 reactor

**tokyo-3 reactor**

USE fukushima-3 reactor

**tokyo-4 reactor**

USE fukushima-4 reactor

**tokyo-denrioku k-1 reactor**

INIS: 1987-01-28; ETDE: 2002-06-13  
USE kashiwazaki-kariwa-1 reactor

**tokyo-denryoku k-2 reactor**

INIS: 1985-04-22; ETDE: 1985-05-07  
USE kashiwazaki-kariwa-2 reactor

**TOKYO INS CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24  
Sector-focused cyclotron at Institute for Nuclear Studies, University of Tokyo.  
UF ins cyclotron (tokyo)  
UF institute for nuclear studies cyclotron  
\*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons

**tokyo non-circular tokamak**

INIS: 1985-03-19; ETDE: 1985-04-09  
USE tnt-a tokamak

**TOKYO SYNCHROTRON**

1.3-GeV electron synchrotron.  
\*BT1 synchrotrons

**TOLAN**

- UF* diphenylacetylene  
*UF* phenylacetylene  
 \*BT1 aromatics

**TOLERANCE**

- INIS*: 1992-04-13; *ETDE*: 1976-08-24  
*RT* accuracy  
*RT* biological adaptation  
*RT* dimensions  
*RT* errors  
*RT* hysteresis  
*RT* quality control

**toller poles**

- USE lorentz poles

**TOLUENE**

- UF* methylbenzene  
 \*BT1 alkylated aromatics  
*RT* tnt  
*RT* toluidines

**TOLUIDINE BLUE**

- \*BT1 azo dyes  
*RT* toluidines

**TOLUIDINES**

- UF* aminotoluenes  
*UF* tolylamines  
 \*BT1 amines  
*RT* toluene  
*RT* toluidine blue

**toluylene red**

- 1996-10-23  
 (Prior to March 1997 NEUTRAL RED was used for this concept in ETDE.)  
 USE amines  
 USE indicators  
 USE pyrazines

**TOLYL RADICALS**

- \*BT1 aryl radicals

**tolylamines**

- USE toluidines

**TOMARI-1 REACTOR**

- INIS*: 1989-09-14; *ETDE*: 1989-10-16  
 Hokkaido Electric Power Co., Tomari, Hokkaido, Japan.

- \*BT1 pwr type reactors

**TOMARI-2 REACTOR**

- INIS*: 1989-11-24; *ETDE*: 1989-12-08  
 Hokkaido Electric Power Co., Tomari, Hokkaido, Japan.

- \*BT1 pwr type reactors

**TOMARI-3 REACTOR**

- 2010-05-20  
 Hokkaido Electric Power Co., Tomari, Hokkaido, Japan.

- \*BT1 pwr type reactors

**TOMATOES**

- \*BT1 fruits

**TOMOGRAPHY**

A radiographic technique characterized by the movement of two of the three components - source, object, and film - so that a clear image of one plane of the object is registered, while images of all other planes are blurred.

- UF* laminography  
 BT1 diagnostic techniques  
 NT1 compton scattering tomography  
 NT1 computerized tomography  
 NT2 cat scanning  
 NT2 emission computed tomography  
 NT3 ecat scanning  
 NT3 positron computed tomography

- NT3 single photon emission computed tomography

- NT2 photon computed tomography

- NT2 proton computed tomography

- NT1 grazing incidence tomography

- RT* biomedical radiography

- RT* collimators

- RT* focusing

- RT* industrial radiography

- RT* radioisotope scanning

**TOMONAGA APPROXIMATION**

- UF* intermediate coupling approximation  
 \*BT1 approximations  
*RT* intermediate coupling

**tomotherapy**

- 2007-11-22  
 USE ct-guided radiotherapy

**TOMSK SYNCHROTRON**

- UF* sirius synchrotron  
 \*BT1 synchrotrons

**TONGA**

- 2018-07-24  
 BT1 developing countries  
 BT1 islands  
 BT1 oceania  
*RT* pacific ocean

**TONGONAN GEOTHERMAL FIELD**

- INIS*: 1992-06-04; *ETDE*: 1979-09-06  
 BT1 geothermal fields  
*RT* philippines

**TONGUE**

- \*BT1 oral cavity  
 \*BT1 organs  
*RT* muscles

**tonks-dattner resonance**

- 2000-04-12  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 SEE plasma waves

**tonks-langmuir oscillations**

- USE tonks-langmuir theory

**TONKS-LANGMUIR THEORY**

- UF* tonks-langmuir oscillations  
*RT* plasma waves

**TONOPAH TEST RANGE**

- INIS*: 1976-02-05; *ETDE*: 1975-08-19  
 BT1 military facilities  
 \*BT1 nevada  
 BT1 test facilities  
*RT* nevada test site  
*RT* sandia laboratories  
*RT* sandia national laboratories

**tonsils**

- USE lymphatic system  
 USE pharynx

**TOOLS**

- Not for educational tools.  
 BT1 equipment  
 NT1 cutting tools  
 NT1 drill bits  
 NT1 machine tools  
 NT2 grinding machines  
 NT2 lathes  
 NT2 milling machines  
*RT* machining  
*RT* presses

**tools (educational)**

- INIS*: 2000-04-12; *ETDE*: 1980-11-08  
 USE educational tools

**top accidents**

- INIS*: 1979-09-18; *ETDE*: 1979-03-29  
 USE transient overpower accidents

**TOP PARTICLES**

- INIS*: 1985-07-23; *ETDE*: 1985-08-09  
 Particles with *T* quantum number not = 0.  
 \*BT1 postulated particles  
 NT1 t quarks  
 NT2 t antiquarks  
*RT* beauty particles  
*RT* flavor model  
*RT* toponium

**top quark model**

- INIS*: 1984-04-04; *ETDE*: 1979-11-07  
 USE flavor model

**top quarks**

- INIS*: 1995-12-01; *ETDE*: 2002-06-13  
 USE t quarks

**TOPAZ REACTOR**

- \*BT1 experimental reactors  
 \*BT1 hydride moderated reactors  
 \*BT1 power reactors  
*RT* hydride moderators  
*RT* thermionic converters

**TOPHET**

- 2000-04-12  
 \*BT1 chromium alloys  
 \*BT1 heat resisting alloys  
 \*BT1 nickel base alloys

**tophet a**

- INIS*: 1983-11-07; *ETDE*: 2002-06-13  
 USE alloy-ni80cr20

**tophet c**

- INIS*: 1983-11-07; *ETDE*: 2002-06-13  
 USE alloy-ni60fe24cr16

**topo (trioctylphosphine oxide)**

- ETDE*: 2005-02-01  
 (Prior to January 2005 TOPO was a valid descriptor.)  
 USE trioctylphosphine oxide

**TOPOGRAPHY**

- RT* canyons  
*RT* complex terrain  
*RT* earth planet  
*RT* maps  
*RT* site characterization

**TOPOLOGICAL FOLIATION**

- RT* differential topology  
*RT* smooth manifolds  
*RT* surfaces

**TOPOLOGICAL MAPPING**

- UF* mapping (topological)  
 BT1 mapping  
 BT1 transformations  
 NT1 conformal mapping  
*RT* graph theory  
*RT* mapping fibration  
*RT* mathematical manifolds  
*RT* topology

**TOPOLOGY**

- UF* cobordism theory  
 BT1 mathematics  
 NT1 differential topology  
*RT* dimensions  
*RT* fractals  
*RT* global analysis  
*RT* graph theory  
*RT* holographic principle  
*RT* invariant imbedding  
*RT* mathematical manifolds



RT periodicity  
RT topological mapping

**TOPONIUM**

INIS: 1986-05-23; ETDE: 1985-12-11  
A bound state of top and antitop quarks.

\*BT1 mesons  
BT1 quarkonium  
RT bound state  
RT flavor model  
RT t quarks  
RT top particles

**TOPPING CYCLES**

1984-04-04  
RT thermodynamic cycles

**topr reactor**

USE thor reactor

**tops (trioctylphosphine sulfide)**

ETDE: 2005-02-01  
(Prior to January 2005 TOPS was a valid descriptor.)  
USE trioctylphosphine sulfide

**topsoe-snpa process**

INIS: 2000-04-12; ETDE: 1977-12-22  
Dry catalytic oxidation and reduction process for treating Claus tail gas.  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE desulfurization

**tor devices**

2000-04-12  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE stellarators

**TORBANITE**

2000-04-12  
\*BT1 boghead coal  
RT minerals

**TORBERNITE**

\*BT1 phosphate minerals  
\*BT1 uranium minerals  
RT copper phosphates  
RT uranium phosphates

**tore supra**

INIS: 2000-04-12; ETDE: 1983-03-24  
(Prior to July 1985 this was a valid ETDE descriptor.)  
USE tore supra tokamak

**TORE SUPRA TOKAMAK**

INIS: 1983-06-02; ETDE: 1983-07-07  
UF tore supra  
\*BT1 tokamak devices

**TORI**

NT1 compact torus  
NT2 field-reversed theta pinch devices  
NT2 rotamak devices  
RT annular space  
RT aspect ratio  
RT bumpy tori  
RT rings  
RT rotational transform  
RT toroidal configuration

**TORMAC DEVICES**

INIS: 1976-07-30; ETDE: 1975-07-29  
UF tormak devices  
\*BT1 tokamak devices

**tormak devices**

INIS: 1984-06-21; ETDE: 2002-06-13  
(Prior to July 1984 this was a valid descriptor.)  
USE tormak devices

**TORNADO DEVICES**

\*BT1 internal ring devices

**TORNADO TURBINES**

INIS: 2000-04-12; ETDE: 1977-06-02  
Grumman Aerospace Corp. name for vertical axis turbines in bottom of vertical slotted cylinders with large air intake beneath cylinders.  
\*BT1 vertical axis turbines  
RT solar chimneys

**TORNADOES**

BT1 storms  
RT turbulence  
RT weather  
RT wind

**TORNESS REACTOR**

INIS: 1981-02-27; ETDE: 1981-03-13  
Dunbar, East Lothian, United Kingdom.  
\*BT1 agr type reactors  
\*BT1 carbon dioxide cooled reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**TOROIDAL CONFIGURATION**

\*BT1 annular space  
\*BT1 closed configurations  
RT compact torus  
RT reversed-field pinch devices  
RT rotational transform  
RT tlm configurations  
RT tori

**TOROIDAL FIELD DIVERTORS**

INIS: 1981-07-06; ETDE: 1989-09-18  
Divertors that displace the toroidal field lines to form a separatrix in the toroidal field.  
BT1 divertors  
RT bundle divertors

**toroidal longitudinal pinch device**

USE tlp devices

**TOROIDAL PINCH DEVICES**

UF toroidal pinch type reactors  
\*BT1 closed plasma devices  
\*BT1 pinch devices  
NT1 reversed-field pinch devices  
NT2 artemis device  
NT2 extrap-t2 device  
NT2 hbtX devices  
NT2 mst device  
NT2 rfx device  
NT2 tpe-1rm15 device  
NT2 tpe-rx device  
NT2 zt-40 devices  
NT2 zt-p devices  
NT1 tlp devices  
NT2 zeta devices  
NT1 toroidal screw pinch devices  
NT2 stp-3m device  
NT2 tpe-2 device  
NT1 toroidal theta pinch devices  
NT2 scyllac devices  
RT banana regime

**toroidal pinch type reactors**

INIS: 2000-04-12; ETDE: 1976-09-15  
(Prior to July 1985, this was a valid ETDE descriptor.)  
USE toroidal pinch devices

**TOROIDAL SCREW PINCH DEVICES**

\*BT1 toroidal pinch devices  
NT1 stp-3m device  
NT1 tpe-2 device  
RT screw pinch

**TOROIDAL THETA PINCH DEVICES**

\*BT1 toroidal pinch devices  
NT1 scyllac devices  
RT reference theta pinch reactor  
RT theta pinch

**toronto university slowpoke reactor**

INIS: 1993-11-10; ETDE: 2002-06-13  
USE slowpoke-toronto reactor

**TORQUE**

RT torsion

**torrey pines triga-mark-3 reactor**

2000-04-12  
USE triga-3-la jolla reactor

**torrey pines triga-mk-3 reactor**

INIS: 1993-11-10; ETDE: 2002-06-13  
USE triga-3-la jolla reactor

**TORSATRON STELLARATORS**

1996-03-04  
(Prior to December 1990, this was spelled TORSATRON STELLARATOR.)  
UF uragan-3 stellarator  
\*BT1 stellarators  
NT1 atf torsatron  
NT1 chs torsatron  
NT1 tj-iiu torsatron  
NT1 vint torsatron  
RT heliotron  
RT lhd device

**TORSION**

RT deformation  
RT springs  
RT torque

**TORTUS TOKAMAK**

INIS: 1991-03-22; ETDE: 1991-04-09  
Sydney University, Sydney, Australia.  
\*BT1 tokamak devices

**TORULA**

UF torulopsis  
\*BT1 yeasts

**torulopsis**

USE torula

**torus experiment for technology oriented research**

INIS: 1993-11-10; ETDE: 2002-06-13  
USE textor tokamak

**TORUS-II TOKAMAK**

INIS: 1977-02-08; ETDE: 1977-04-13  
Device to be built within the EURATOM-CEA Association.  
\*BT1 tokamak devices

**TORY-2A REACTOR**

2000-04-12  
University of California Lawrence Radiation Laboratory, Mercury Test Site, Mercury, Nevada, USA. Disassembled in 1961.  
SF experimental propulsion test reactor  
\*BT1 air cooled reactors  
\*BT1 experimental reactors  
\*BT1 propulsion reactors  
\*BT1 research reactors  
\*BT1 test reactors

**TORY-2C REACTOR**

University of California Lawrence Radiation Laboratory, Nevada Test Site, Mercury, Nevada, USA.  
SF experimental propulsion test reactor  
\*BT1 air cooled reactors  
\*BT1 experimental reactors  
\*BT1 propulsion reactors

\*BT1 test reactors

### **tosbac computers**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE computers

### **TOSCA TOKAMAK**

INIS: 1987-06-29; ETDE: 1987-07-09

\*BT1 tokamak devices

### **TOSCO-DYNE PROCESS**

INIS: 2000-04-12; ETDE: 1979-01-30

Coal is pyrolyzed to intermediate btu gas, liquid product, and char; the char is converted to low btu gas in fluidized bed gasifier.

\*BT1 coal gasification

RT combined-cycle power plants

RT toscoal process

### **TOSCO PROCESS**

2000-04-12

Crushed raw shale preheated to approx. 400 degrees F is transported to a pyrolysis drum and mixed with ceramic balls preheated to approx. 1100 degrees F when shale reaches a temperature of approx. 900 degrees F, conversion of the kerogen to hydrocarbon vapors is substantially complete. Pyrolysis vapors are then condensed, fractionated and piped to upgrading facility for refining.

RT oil shales

### **TOSCOAL PROCESS**

2000-04-12

The oil shale corporation pyrolysis process that produces char with a high heating value plus oil and gas. Hot ceramic balls are used as a heat source.

\*BT1 coal gasification

RT tosco-dyne process

### **TOSHIBA REACTOR**

Toshiba, Kawasaki, Kanagawa, Japan.

UF toshiba training reactor

UF ttr-1 toshiba reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

### **toshiba training reactor**

USE toshiba reactor

### **total-absorption spectrometers**

2000-04-12

USE shower counters

### **TOTAL CROSS SECTIONS**

Cross sections integrated over all angles and all reaction channels.

BT1 cross sections

RT astrophysical s factor

RT excitation functions

RT pomeranchuk theorem

### **TOTAL ENERGY SYSTEMS**

1982-12-03

Integral energy systems of high efficiency, e.g., a system utilizing gas-fired turbines or engines that produce electrical energy and utilize exhaust heat in applications such as heating and cooling.

UF integrated utility systems

UF ius

BT1 energy systems

RT cogeneration

RT combined cycles

RT energy conservation

RT energy consumption

RT ices program

RT integrated energy utility systems

RT modular integrated utility systems

RT steam generation plants

### **TOTAL FLOW SYSTEMS**

2000-04-12

Systems in which the total hot well head brine-steam mixture is passed through a mixed-phase expander to drive a turbine and an electric generating system.

BT1 energy systems

RT geothermal energy conversion

RT geothermal power plants

RT rotary separator turbines

RT steam

RT thermodynamic cycles

RT water

### **TOTAL LOSS OF FEEDWATER**

2017-07-18

\*BT1 reactor accidents

### **TOTAL SUSPENDED PARTICULATES**

INIS: 1992-07-20; ETDE: 1981-05-18

UF tsp

\*BT1 particulates

RT aerosols

RT air pollution

RT dispersions

### **toughness (fracture)**

USE fracture properties

### **TOURISM**

INIS: 1999-05-03; ETDE: 1980-06-06

RT hotels

RT industry

RT recreational areas

RT transport

### **TOURMALINE**

\*BT1 silicate minerals

RT aluminium silicates

RT boron silicates

RT dielectric track detectors

### **TOWER FOCUS COLLECTORS**

2000-04-12

\*BT1 concentrating collectors

RT advanced components test facility

RT central receiver test facility

RT tower focus power plants

### **TOWER FOCUS POWER PLANTS**

INIS: 1999-10-08; ETDE: 1975-09-11

UF central receiver power plants

UF eurelios solar power plant

\*BT1 solar thermal power plants

NT1 barstow solar pilot plant

RT advanced components test facility

RT central receiver test facility

RT central receivers

RT tower focus collectors

### **tower shielding reactor-1**

USE tsr-1 reactor

### **tower shielding reactor-2**

USE tsr-2 reactor

### **towers**

INIS: 2000-04-12; ETDE: 1981-08-21

(Prior to August 1981, this concept in ETDE was indexed by MECHANICAL STRUCTURES. From August 1981 to June 1992 this was a valid descriptor.)

SEE cooling towers

SEE mechanical structures

SEE power transmission towers

### **towers (extraction)**

USE extraction columns

### **towers (structures)**

ETDE: 2002-06-13

USE mechanical structures

### **TOWN GAS**

1992-07-21

Gas produced by a public utility for general use.

\*BT1 intermediate btu gas

RT coal gas

### **townsend avalanche**

USE townsend discharge

### **TOWNSEND DISCHARGE**

UF avalanche multiplication

UF townsend avalanche

UF townsend formula

UF townsend theory

BT1 electric discharges

RT avalanche quenching

### **townsend formula**

USE townsend discharge

### **townsend process**

2000-04-12

Sweetens natural gas by treating it with solution of sulfur dioxide in hygroscopic organic liquid, e.g., diethylene glycol containing no more than 10% water.

(Prior to March 1994, this was a valid ETDE descriptor.)

SEE desulfurization

### **townsend theory**

USE townsend discharge

### **TOXIC MATERIALS**

INIS: 2000-05-17; ETDE: 1977-06-21

(Until March 1992, this concept was indexed by HAZARDOUS MATERIALS.)

\*BT1 hazardous materials

NT1 toxins

NT2 endotoxins

NT2 mycotoxins

NT3 aflatoxins

RT chemical warfare agents

RT detoxification

RT heavy metals

RT polychlorinated biphenyls

RT toxicity

### **toxic substances control act**

INIS: 2000-04-12; ETDE: 1980-09-05

USE toxic substances control acts

### **TOXIC SUBSTANCES CONTROL ACTS**

INIS: 1993-03-26; ETDE: 1993-08-17

(Prior to August 1993 this concept in ETDE was indexed to TOXIC SUBSTANCES CONTROL ACT.)

UF toxic substances control act

BT1 laws

RT hazardous materials

RT legislation

### **TOXICITY**

RT acute exposure

RT aflatoxins

RT biological effects

RT chronic exposure

RT detoxification

RT dose-response relationships

RT drugs

RT hazardous materials

RT lethal doses

RT mimosine  
 RT mycotoxins  
 RT prenatal exposure  
 RT quality of life  
 RT therapeutic doses  
 RT toxic materials  
 RT toxins  
 RT venoms

**TOXINS**

BT1 antigens  
 \*BT1 toxic materials  
 NT1 endotoxins  
 NT1 mycotoxins  
 NT2 aflatoxins  
 RT antitoxins  
 RT bacteria  
 RT clostridium  
 RT detoxification  
 RT radiotoxins  
 RT toxicity  
 RT toxoids  
 RT venoms

**TOXOIDS**

INIS: 1975-11-07; ETDE: 1975-12-16  
 RT antibodies  
 RT immune reactions  
 RT immunity  
 RT toxins

**tpc**

INIS: 1984-04-04; ETDE: 1979-02-23  
 Time Projection Chambers.  
 USE time projection chambers

**TPE-1RM15 DEVICE**

INIS: 1995-10-03; ETDE: 1990-01-03  
 Electrotechnical Laboratory, Tsukuba,  
 Ibaraki, Japan.  
 \*BT1 reversed-field pinch devices  
 RT reverse-field pinch

**TPE-2 DEVICE**

INIS: 1995-09-07; ETDE: 1990-01-03  
 Electrotechnical Laboratory, Tsukuba,  
 Ibaraki, Japan.  
 \*BT1 toroidal screw pinch devices

**TPE-RX DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03  
 Electrotechnical Laboratory, Tsukuba,  
 Ibaraki, Japan.  
 \*BT1 reversed-field pinch devices

**tpo (triphenylphosphine oxide)**

ETDE: 2005-02-01  
 (Prior to January 2005 TPO was a valid  
 descriptor.)  
 USE triphenylphosphine oxide

**TPX DEVICE**

INIS: 1994-09-29; ETDE: 1994-08-18  
 Tokamak Physics Experiment device,  
 Princeton Plasma Physics Laboratory, USA.  
 \*BT1 tokamak devices

**TR-0 REACTOR**

Tezkovodni Reaktor nuloveho vykonu.  
 Decommissioned since 1982.  
 UF czechoslovak tr-0 reactor  
 UF rez tr-0 reactor  
 \*BT1 heavy water moderated reactors  
 \*BT1 zero power reactors

**TR-1 REACTOR**

Cekmece Nuclear Research and Training  
 Centre, Turkish Atomic Energy Authority,  
 Istanbul, Turkey.  
 UF turkish reactor-1  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors

\*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**TR-2 REACTOR**

1991-07-02  
 Cekmece Nuclear Research and Training  
 Centre, Turkish Atomic Energy Authority,  
 Istanbul, Turkey.

UF turkish reactor-2  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**TRABECULAR BONE**

\*BT1 bone tissues  
 RT bone marrow

**TRACE AMOUNTS**

1995-06-21  
 UF trace elements  
 RT carrier-free isotopes  
 RT crystal doping  
 RT doped materials  
 RT impurities  
 RT inclusions  
 RT ion implantation  
 RT microanalysis

**trace elements**

1995-06-21  
 Coordinate TRACE AMOUNTS with the  
 descriptor ELEMENTS or with descriptors for  
 specific elements.  
 USE elements  
 USE trace amounts

**TRACER TECHNIQUES**

SF radioactive tracers  
 BT1 isotope applications  
 NT1 dual-isotope subtraction technique  
 NT1 isotope dilution  
 NT1 labelled pool techniques  
 NT1 radioactive tracer logging  
 NT1 radioimmunoassay  
 NT2 radioimmunoassay  
 NT2 radioimmunosciintigraphy  
 NT1 radioreceptor assay  
 RT autoradiography  
 RT biological markers  
 RT crime detection  
 RT diagnosis  
 RT diagnostic techniques  
 RT dynamic function studies  
 RT labelled compounds  
 RT nuclear medicine  
 RT radio-release analysis  
 RT radiobiology  
 RT radionuclide kinetics  
 RT radionuclide migration  
 RT radiopharmaceuticals  
 RT renography

**TRACHEA**

BT1 respiratory system  
 RT intratracheal administration  
 RT mediastinum

**TRACHYTES**

INIS: 2000-04-12; ETDE: 1980-08-12  
 \*BT1 volcanic rocks  
 RT perlite

**track detectors (dielectric)**

USE dielectric track detectors

**track detectors (gas)**

USE gas track detectors

**track detectors (photographic)**

USE photographic film detectors

**TRACKLESS VEHICLES**

INIS: 2000-04-12; ETDE: 1979-06-06  
 UF free steered vehicles  
 UF shuttle cars  
 UF trolleybuses  
 BT1 vehicles

**tracks**

USE particle tracks

**tract c-a prototype oil shale project**

INIS: 2000-04-12; ETDE: 1976-03-11  
 USE rio blanco oil shale project

**TRACY REACTOR**

INIS: 2001-09-25; ETDE: 2001-11-30  
 JAERI, Tokai, Ibaraki, Japan.  
 UF transient experiment critical facility  
 \*BT1 enriched uranium reactors  
 \*BT1 plutonium reactors  
 \*BT1 zero power reactors  
 RT stacy reactor

**TRADE**

(From February 1979 till May 1996 NET  
 TRADE was a valid ETDE descriptor.)

UF commerce  
 UF net trade  
 NT1 exports  
 NT1 imports  
 NT1 nuclear trade  
 RT business  
 RT cartels  
 RT commercial sector  
 RT competition  
 RT domestic supplies  
 RT economics  
 RT embargoes  
 RT foreign exchange rate  
 RT globalization  
 RT international relations  
 RT market  
 RT monopolies  
 RT oil-importing countries  
 RT receipts  
 RT sales  
 RT small businesses  
 RT supply and demand  
 RT tariffs  
 RT taxes

**trade (nuclear)**

INIS: 2000-04-12; ETDE: 1978-03-03  
 USE nuclear trade

**TRADESCANTIA**

\*BT1 liliopsida

**TRAFFIC CONTROL**

INIS: 1992-05-04; ETDE: 1978-01-23  
 Control of vehicular traffic.  
 BT1 control  
 RT vehicles

**trailers**

INIS: 2000-04-12; ETDE: 1982-02-11  
 (Prior to March 1997 this was a valid ETDE  
 descriptor.)  
 SEE vehicles

**TRAINING**

INIS: 2000-03-28; ETDE: 1980-10-07  
 Development or upgrading of a particular  
 skill, usually by intensive or specialized  
 methods; for broad, more leisurely  
 instruction, use EDUCATION.  
 UF job training  
 UF vocational training

BT1 education  
 NT1 e-learning  
 RT educational tools  
 RT learning  
 RT manpower

### training facilities

INIS: 1983-06-30; ETDE: 2002-06-13

USE educational facilities

### TRAINING REACTORS

\*BT1 research and test reactors  
 NT1 ill high flux reactor  
 NT1 arojet-general nucleonics reactors  
 NT2 agn 201 costanza  
 NT1 afri reactor  
 NT1 ai-1-77 reactor  
 NT1 akr-1 reactor  
 NT1 apsara reactor  
 NT1 arbi reactor  
 NT1 argonaut reactor  
 NT1 argos reactor  
 NT1 athene reactor  
 NT1 atpr reactor  
 NT1 bgrr reactor  
 NT1 budapest training reactor  
 NT1 byu 1-77 reactor  
 NT1 cesnef reactor  
 NT1 cirus reactor  
 NT1 colorado triga-mk-3 reactor  
 NT1 consort-2 reactor  
 NT1 cornell triga-mk-2 reactor  
 NT1 dow triga-mk-1 reactor  
 NT1 dr-1 reactor  
 NT1 entc lwsr reactor  
 NT1 es-salam reactor  
 NT1 fir-1 reactor  
 NT1 fnr reactor  
 NT1 fr-0 reactor  
 NT1 frf reactor  
 NT1 frg-1 reactor  
 NT1 gleep reactor  
 NT1 gtrr reactor  
 NT1 gulf triga-mk-3 reactor  
 NT1 hor reactor  
 NT1 htr reactor  
 NT1 ian-r1 reactor  
 NT1 iowa utr-10 reactor  
 NT1 ir-100 reactor  
 NT1 jason reactor  
 NT1 jrr-1 reactor  
 NT1 kur reactor  
 NT1 lfr reactor  
 NT1 melusine-1 reactor  
 NT1 merlin reactor  
 NT1 mitr reactor  
 NT1 moata reactor  
 NT1 murr reactor  
 NT1 nscr-1 reactor  
 NT1 nevada university reactor  
 NT1 nscr reactor  
 NT1 ostr reactor  
 NT1 osur reactor  
 NT1 prnc-1-77 reactor  
 NT1 psbr reactor  
 NT1 pur-1 reactor  
 NT1 queen mary college utr-b reactor  
 NT1 r-b reactor  
 NT1 ra-1 reactor  
 NT1 rien-1 reactor  
 NT1 rts-1 reactor  
 NT1 rv-1 reactor  
 NT1 sr-3p reactor  
 NT1 src-utr-100 reactor  
 NT1 stark reactor  
 NT1 strasbourg-cronenbourg reactor  
 NT1 sur-100 series reactor  
 NT1 thetis reactor  
 NT1 thor reactor  
 NT1 toshiba reactor

NT1 tr-1 reactor  
 NT1 trico ii reactor  
 NT1 trico reactor  
 NT1 triga-1-michigan reactor  
 NT1 triga-2-pavia reactor  
 NT1 trr-1 reactor  
 NT1 ucbr reactor  
 NT1 ufr reactor  
 NT1 ulyse reactor  
 NT1 umne-1 reactor  
 NT1 umrr reactor  
 NT1 urr reactor  
 NT1 utr-10-kinki reactor  
 NT1 uvar reactor  
 NT1 uwnr reactor  
 NT1 uwtr reactor  
 NT1 vpi-utr-10 reactor  
 NT1 vr-1 reactor  
 NT1 wntr reactor  
 NT1 wpir reactor  
 NT1 wwr-s-budapest reactor  
 NT1 x-10 reactor  
 NT1 zlfr reactor  
 NT1 zpr reactor

### training-research reactor kyoto

1993-11-10

USE kur reactor

### TRAINS

1993-03-25

BT1 vehicles  
 NT1 levitated trains  
 NT1 locomotives  
 RT electric railways  
 RT occupants  
 RT piston effect  
 RT railroad cars  
 RT railways  
 RT rapid transit systems  
 RT transportation systems

### TRAJECTORIES

RT beam dynamics  
 RT limit cycle  
 RT motion  
 RT orbits  
 RT particle tracks

### TRAMEX PROCESS

\*BT1 reprocessing  
 RT amines  
 RT solvent extraction

### TRANQUILIZERS

UF promazine  
 UF tranquilizers  
 \*BT1 psychotropic drugs  
 NT1 chlorpromazine  
 NT1 reserpine  
 RT hypnotics and sedatives  
 RT phenothiazines

### tranquillizers

USE tranquillizers

### trans 104 element compounds

1996-07-18

(Prior to March 2004 this was a valid descriptor.)

USE transactinide compounds

### trans 104 elements

(Prior to March 2004 this was a valid descriptor.)

USE transactinide elements

### TRANSACTINIDE COMPLEXES

2011-10-25

\*BT1 transplutonium complexes  
 NT1 rutherfordium complexes

### TRANSACTINIDE COMPOUNDS

2004-03-12

(Prior to March 2004 ELEMENT 104 COMPOUNDS + TRANS 104 ELEMENT COMPOUNDS was used for these compounds.)

UF trans 104 element compounds

\*BT1 transplutonium compounds

NT1 bohrium compounds

NT1 copernicium compounds

NT1 darmstadtium compounds

NT1 dubnium compounds

NT1 flerovium compounds

NT1 hassium compounds

NT1 meitnerium compounds

NT1 nihonium compounds

NT1 roentgenium compounds

NT1 rutherfordium compounds

NT2 rutherfordium halides

NT3 rutherfordium chlorides

NT1 seaborgium compounds

### TRANSACTINIDE ELEMENTS

2004-03-12

Elements with  $Z > 103$ .

(Prior to March 2004 ELEMENT 104 + TRANS 104 ELEMENTS was used for these elements.)

UF superheavy elements

UF trans 104 elements

UF transactinides

\*BT1 transplutonium elements

NT1 bohrium

NT1 copernicium

NT1 darmstadtium

NT1 dubnium

NT1 element 119

NT1 element 120

NT1 element 124

NT1 element 126

NT1 element 128

NT1 element 134

NT1 element 145

NT1 element 164

NT1 element 173

NT1 flerovium

NT1 hassium

NT1 livermorium

NT1 meitnerium

NT1 moscovium

NT1 nihonium

NT1 oganesson

NT1 roentgenium

NT1 rutherfordium

NT1 seaborgium

NT1 tennessine

### transactinides

2004-03-12

USE transactinide elements

### transage 117

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE titanium base alloys

### transage 120

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE titanium base alloys

### transage 129

2000-04-12

(Prior to May 2001, this was a valid ETDE descriptor.)

USE titanium base alloys

USE vanadium alloys

USE zirconium alloys

**transage 134**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE titanium base alloys
- USE vanadium alloys
- USE zirconium alloys

**transage 175**

INIS: 2000-04-12; ETDE: 1986-11-20

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE tin alloys
- USE titanium base alloys
- USE vanadium alloys

**transalaska pipeline**

INIS: 1992-06-04; ETDE: 1976-11-17

- USE alaska oil pipeline

**transaminases**

- USE aminotransferases

**transboundary pollution**

INIS: 2000-04-12; ETDE: 1980-03-29

- USE transfrontier pollution

**TRANSCRIPTION**

INIS: 1981-09-18; ETDE: 1976-06-07

The formation of messenger RNA from DNA. The process of transmitting information in a gene into a messenger RNA molecule which can leave the cell nucleus and move to the site of protein synthesis.

- RT dna polymerases
- RT dna replication
- RT gene regulation
- RT gene repressors
- RT genes
- RT messenger-rna
- RT microarray technology
- RT post-translation modification
- RT rna polymerases
- RT transcription factors

**TRANSCRIPTION FACTORS**

INIS: 1991-10-22; ETDE: 1988-06-27

Proteins that govern which genes RNA polymerases can copy.

- \*BT1 proteins
- RT gene regulation
- RT gene repressors
- RT nucleoproteins
- RT rna polymerases
- RT transcription

**TRANSDUCERS**

- NT1 optoelectronic devices
- RT electrical equipment
- RT measuring instruments

**transfer (angular momentum)**

INIS: 1978-09-28; ETDE: 2002-06-13

- USE angular momentum transfer

**transfer (electron)**

- USE electron transfer

**transfer (energy)**

- USE energy transfer

**transfer (environmental radionuclides)**

INIS: 1993-11-10; ETDE: 2002-06-13

- USE radionuclide migration

**transfer (four momentum)**

INIS: 1978-02-23; ETDE: 1978-04-28

- USE four momentum transfer

**transfer (heat)**

- USE heat transfer

**transfer (in environment)**

2000-04-12

- USE radionuclide migration

**transfer (in organism)**

2000-04-12

- USE radionuclide kinetics

**transfer (linear momentum)**

- USE linear momentum transfer

**transfer (mass)**

- USE mass transfer

**transfer (momentum)**

INIS: 1978-02-23; ETDE: 1978-11-14

- USE momentum transfer

**transfer (q-squared)**

INIS: 1978-02-23; ETDE: 1978-04-28

- USE four momentum transfer

**transfer (radionuclides in organisms)**

INIS: 1993-11-10; ETDE: 2002-06-13

- USE radionuclide kinetics

**transfer factors (biological)**

INIS: 1989-12-07; ETDE: 2002-06-13

- USE ecological concentration

**TRANSFER FUNCTIONS**

- BT1 functions
- RT reactor stability
- RT real time systems

**TRANSFER MATRIX METHOD**

- BT1 calculation methods
- RT cross sections
- RT mathematical operators
- RT neutron transport theory

**TRANSFER NUMBERS**

- RT electrophoresis

**transfer of knowledge**

INIS: 1977-11-21; ETDE: 2002-06-13

- USE technology transfer

**TRANSFER REACTIONS**

For nuclear reactions only; see also CHARGE EXCHANGE and ELECTRON TRANSFER.

UF quasi-elastic reactions

- \*BT1 direct reactions
- NT1 multi-nucleon transfer reactions
  - NT2 four-nucleon transfer reactions
    - NT3 alpha-transfer reactions
  - NT2 many-nucleon transfer reactions
  - NT2 three-nucleon transfer reactions
  - NT2 two-nucleon transfer reactions
- NT1 one-nucleon transfer reactions
- NT1 pickup reactions
- NT1 stripping
- RT incomplete fusion reactions
- RT neutron transfer

**TRANSFER RNA**

- \*BT1 rna

**TRANSFERASES**

Code number 2.

- \*BT1 enzymes
- NT1 carbon-group transferases
  - NT2 methyl transferases
- NT1 glycosyl transferases
  - NT2 hexosyl transferases
  - NT2 pentosyl transferases
  - NT3 hypoxanthine phosphoribosyltransferase
- NT1 nitrogen transferases

NT2 aminotransferases

NT1 phosphorus-group transferases

NT2 nucleotidyltransferases

NT3 polymerases

NT4 dna polymerases

NT4 rna polymerases

NT2 phosphotransferases

NT3 hexokinase

**TRANSFERRIN**

\*BT1 globulins-beta

\*BT1 metalloproteins

**TRANSFORMATIONS**

UF translation (mathematics)

NT1 baecklund transformation

NT1 canonical transformations

NT2 bogolyubov transformation

NT2 foldy-wouthuysen transform

NT1 galilei transformations

NT1 integral transformations

NT2 fourier transformation

NT2 hankel transform

NT2 hilbert transformation

NT2 laplace transformation

NT2 mellin transform

NT1 lorentz transformations

NT1 melosh transformation

NT1 orthogonal transformations

NT2 moshinsky transformation

NT1 topological mapping

NT2 conformal mapping

**transformations (oncogenic)**

INIS: 1981-07-06; ETDE: 1981-08-04

- USE oncogenic transformations

**transformations (phase)**

INIS: 2000-04-12; ETDE: 1980-11-08

- USE phase transformations

**transformer oils**

INIS: 2000-04-12; ETDE: 1980-08-12

- USE insulating oils

**TRANSFORMERS**

\*BT1 electrical equipment

NT1 gas-insulated transformers

RT dc to dc converters

RT electric coils

RT insulating oils

**TRANSFRONTIER CONTAMINATION**

INIS: 1976-12-08; ETDE: 1978-03-08

For radioactive contamination only; see also TRANSFRONTIER POLLUTION.

- BT1 contamination
  - RT bilateral agreements
  - RT contamination regulations
  - RT environmental transport
  - RT radionuclide migration
  - RT transfrontier pollution

**TRANSFRONTIER POLLUTION**

INIS: 1976-12-08; ETDE: 1980-03-29

For nonradioactive pollution only; for radioactive pollution use TRANSFRONTIER CONTAMINATION.

- UF transboundary pollution
- BT1 pollution
  - RT bilateral agreements
  - RT long-range transport
  - RT pollution laws
  - RT pollution regulations
  - RT transfrontier contamination

**TRANSFUSIONS**

\*BT1 therapy

RT blood

RT blood groups

RT blood substitutes  
RT transplants

**TRANSGENIC ANIMALS**

1992-03-02

BT1 animals  
NT1 transgenic mice

**TRANSGENIC MICE**

1992-03-02

\*BT1 mice  
\*BT1 transgenic animals

**TRANSGENIC PLANTS**

1996-04-16

*Coordinate with the appropriate descriptor to indicate the transgenic species, when given.*

BT1 plants

**transient experiment critical facility**

INIS: 2001-09-25; ETDE: 2001-11-30

USE tracy reactor

**transient nuclear test reactor-kiwi**

2000-04-12

USE kiwi-tnt reactor

**transient overpower**

2017-07-18

USE transient overpower accidents

**TRANSIENT OVERPOWER****ACCIDENTS**

INIS: 1979-09-18; ETDE: 1979-03-28

*Reactor accidents involving continuous ramp reactivity insertion with steady coolant flow but with loss of protection systems which results in fuel element failure.*

UF top accidents

UF transient overpower

\*BT1 reactor accidents

RT transients

**transient reactor test facility**

1993-11-10

USE treat reactor

**transient species**

INIS: 2000-04-12; ETDE: 1979-08-07

SEE reaction intermediates

**TRANSIENTS**

NT1 electrical transients

RT atws

RT deep level transient spectroscopy

RT overcurrent

RT overvoltage

RT peaks

RT pressurization

RT steady-state conditions

RT sudden approximation

RT surges

RT temperature noise

RT transient overpower accidents

RT variations

**TRANSISTOR AMPLIFIERS**

\*BT1 amplifiers

RT transistors

**TRANSISTOR OSCILLATORS**

\*BT1 oscillators

RT pulse circuits

RT transistors

**TRANSISTOR SWITCHING****CIRCUITS**

\*BT1 switching circuits

RT switching diodes

**TRANSISTOR TRIGGER CIRCUITS**

\*BT1 trigger circuits

**TRANSISTORS**

UF diode transistors

BT1 semiconductor devices

NT1 field effect transistors

NT2 mosfet

NT1 junction transistors

NT1 mis transistors

NT1 mos transistors

NT2 mosfet

NT1 phototransistors

NT1 surface barrier transistors

RT electronic circuits

RT transistor amplifiers

RT transistor oscillators

**transit-time heating**

INIS: 1984-04-04; ETDE: 2002-06-13

USE transit-time magnetic pumping

**TRANSIT-TIME MAGNETIC PUMPING**

*Transit-time magnetic pumping heating.*

UF transit-time heating

UF tmp

\*BT1 magnetic-pumping heating

RT fast magnetoacoustic waves

RT landau damping

**TRANSITION AMPLITUDES**

INIS: 1975-12-09; ETDE: 1976-08-25

BT1 amplitudes

NT1 decay amplitudes

**TRANSITION BOILING**

\*BT1 boiling

**TRANSITION ELEMENT ALLOYS**

1995-10-11

(From November 1983 until March 1992 this was indexed using the descriptors for the specific alloys or the broader term ALLOYS.)

BT1 alloys

NT1 chromium alloys

NT2 alloy-b-1900

NT2 alloy-co36cr22ni22w15fe3

NT3 haynes 188 alloy

NT2 alloy-co43cr20fe18ni13w3

NT3 havar

NT2 alloy-co54cr20w15ni10

NT3 alloy-hs-25

NT3 haynes 25 alloy

NT2 alloy-co60cr30w4

NT3 stellite 6

NT2 alloy-d-979

NT2 alloy-fe40ni35cr22

NT2 alloy-fe44ni33cr21

NT3 incoloy 800h

NT2 alloy-fe46ni33cr21

NT3 incoloy 800

NT3 incoloy 802

NT2 alloy-in-102

NT2 alloy-khn50mbvyu

NT2 alloy-mar-m246

NT2 alloy-mn-21

NT2 alloy-mo-re-1

NT2 alloy-mp35n

NT2 alloy-ni41fe40cr16nb3

NT3 inconel 706

NT2 alloy-ni43fe30cr22mo3

NT3 incoloy 825

NT2 alloy-ni43fe33cr16mo3

NT3 nimonic pe16

NT2 alloy-ni45fe34cr20

NT2 alloy-ni46cr23co19ti5al4

NT3 alloy-in-939

NT2 alloy-ni49cr22fe18mo9

NT3 hastelloy x

NT2 alloy-ni50co20cr15al5mo5

NT3 nimonic 105

NT2 alloy-ni50cr22fe18mo9

NT3 hastelloy xr

NT2 alloy-ni50mo32cr15si3

NT2 alloy-ni51cr48

NT3 inconel 671

NT2 alloy-ni53cr19fe19nb5mo3

NT3 inconel 718

NT2 alloy-ni54cr22co13mo9

NT3 inconel 617

NT2 alloy-ni54mo17cr16fe6w4

NT3 hastelloy c

NT2 alloy-ni55co17cr15mo5al4ti4

NT3 astroloy

NT2 alloy-ni55cr19co11mo10ti3

NT3 rene 41

NT2 alloy-ni58cr20co14mo4ti3

NT3 waspaloy

NT2 alloy-ni59cr20co17ti2

NT2 alloy-ni59cr30fe9

NT3 inconel 690

NT2 alloy-ni60co15cr10al6ti5mo3

NT3 alloy-in-100

NT2 alloy-ni60fe24cr16

NT3 nichrome

NT2 alloy-ni61cr16co9al3ti3w3

NT3 alloy-in-738

NT2 alloy-ni61cr22mo9nb4fe3

NT3 inconel 625

NT2 alloy-ni61cr23fe14

NT2 alloy-ni62cr16mo15fe3

NT3 hastelloy s

NT2 alloy-ni65cr25mo10

NT3 nimonic 86

NT2 alloy-ni70mo17cr7fe5

NT3 hastelloy n

NT3 inor-8

NT2 alloy-ni73cr15fe7ti3

NT3 inconel x750

NT2 alloy-ni73cr20mn3nb3

NT3 inconel 82

NT2 alloy-ni74cr13al6mo4

NT3 inconel 713c

NT2 alloy-ni75cr12al6mo5

NT3 inconel 713lc

NT2 alloy-ni76cr15fe8

NT3 inconel 600

NT2 alloy-ni76cr20ti2

NT3 nimonic 80a

NT2 alloy-ni77cr20ti2

NT2 alloy-ni78cr21

NT2 alloy-ni80cr20

NT2 alloy-ra-333

NT2 alloy-s-590

NT2 alloy-s-816

NT2 alloy-ti78cr11mo7al3

NT2 alloy-ti88mo8al3

NT2 alloy-ti91al5cr2

NT2 alloy-v-36

NT2 alloy-v87cr9fe3

NT2 ascology

NT2 chromium additions

NT3 alloy-ni65mo28fe5

NT4 hastelloy b

NT3 alloy-zr98sn-2

NT4 zircaloy 2

NT3 alloy-zr98sn-4

NT4 zircaloy 4

NT3 steel-crmo

NT3 steel-crni

NT3 steel-mncumo

NT4 steel-astm-a537

NT3 steel-ni3cr

NT3 steel-nicr

NT3 steel-nicrmo

NT3 steel-nimocr

NT2 chromium base alloys

NT3 alloy-mo-re-2

NT2 chromium-nickel steels

NT3 alloy-d-9

NT3 carpenter

- NT3** chromium-nickel-molybdenum steels  
**NT4** alloy-m-813  
**NT4** steel-cr11ni10mo2ti-1  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr16ni9mo2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-l  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-ni26cr15ti2mova1b  
**NT5** alloy-a-286
- NT3** durco  
**NT3** enduro  
**NT3** stainless steel-17-7ph  
**NT3** stainless steel-303  
**NT3** stainless steel-329  
**NT3** stainless steel-ph-15-7-mo  
**NT3** steel-cr17ni13  
**NT3** steel-cr17ni7  
**NT4** stainless steel-301  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr18ni10-l  
**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni11  
**NT4** steel-x6crni1811  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT3** steel-cr18ni12  
**NT4** stainless steel-305  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni8  
**NT4** stainless steel-18-8  
**NT3** steel-cr18ni9  
**NT4** stainless steel-302  
**NT3** steel-cr18ni9ti  
**NT3** steel-cr19ni10  
**NT4** stainless steel-304  
**NT3** steel-cr19ni10-l  
**NT4** stainless steel-304l  
**NT3** steel-cr20ni11  
**NT4** stainless steel-308  
**NT3** steel-cr20ni11-l  
**NT4** stainless steel-308l  
**NT3** steel-cr23ni14  
**NT4** stainless steel-309  
**NT4** stainless steel-309s  
**NT3** steel-cr23ni18  
**NT3** steel-cr25ni20  
**NT4** alloy-hk-40  
**NT4** stainless steel-310  
**NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni36cr12ti3al-1  
**NT3** timken alloys
- NT2** chromium steels  
**NT3** chromium-molybdenum steels  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2
- NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-l  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2mova1b  
**NT6** alloy-a-286
- NT3** magnet steel-ks  
**NT3** miduale  
**NT3** stainless steel-406  
**NT3** steel-cr10mo2  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12moniv  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr16ni  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr18  
**NT3** steel-cr25  
**NT4** stainless steel-446  
**NT3** steel-cr9mo  
**NT3** steel-cr9monbv
- NT2** colmonoy  
**NT2** discaloy  
**NT2** ge 2541  
**NT2** hoskins 875  
**NT2** illium  
**NT2** incoloy 901  
**NT2** kanthal  
**NT2** konel  
**NT2** magnesium alloy-zr  
**NT2** misco metal  
**NT2** ni-hard  
**NT2** ni-o-nel  
**NT2** microbraz 50  
**NT2** nimonic 115  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** sicromo 9m  
**NT2** steel-cd-4mcu  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-cr2mo  
**NT3** steel-astm-a542  
**NT2** steel-cr2moninb  
**NT2** steel-cr2mov  
**NT2** steel-cr2nimov  
**NT2** steel-cr5mo  
**NT2** steel-cralnimo  
**NT2** steel-crmov  
**NT2** steel-ni3crmoo  
**NT3** steel-astm-a543  
**NT2** steel-ni3crmoo  
**NT2** steel-ni4crw  
**NT2** supertherm  
**NT2** sweetalloy  
**NT2** td-nickel chromium  
**NT2** tophet  
**NT2** tribaloy 400  
**NT2** tribaloy 800  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3
- NT4** udimet 700  
**NT3** udimet 500  
**NT2** vitallium  
**NT1** cobalt alloys  
**NT2** alloy-b-1900  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe53ni29co18  
**NT3** kovar  
**NT2** alloy-mar-m246  
**NT2** alloy-mp35n  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni55co17cr15mo5al4ti4  
**NT3** astroloy  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni65mo28fe5  
**NT3** hastelloy b  
**NT2** alloy-ra-333  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** alloy-yundk 25ba  
**NT2** alnico alloys  
**NT2** carboloy  
**NT2** cobalt additions  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT2** cobalt base alloys  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co50fe50  
**NT4** permendur  
**NT3** alloy-co52fe35v10  
**NT3** haynes alloys  
**NT4** alloy-co36cr22ni22w15fe3  
**NT5** haynes 188 alloy  
**NT4** alloy-co54cr20w15ni10  
**NT5** alloy-hs-25  
**NT5** haynes 25 alloy  
**NT4** alloy-co60cr30w4  
**NT5** stellite 6  
**NT3** mar-m509 alloys  
**NT3** stellite  
**NT4** alloy-co54cr20w15ni10  
**NT5** alloy-hs-25  
**NT5** haynes 25 alloy  
**NT4** alloy-co60cr30w4  
**NT5** stellite 6  
**NT4** alloy-hs-31  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT2** cunico  
**NT2** hiperco  
**NT2** kanthal  
**NT2** konel  
**NT2** magnet steel-ks  
**NT2** nimonic 115  
**NT2** rene-100

- NT2** rene 80  
**NT2** rene 95  
**NT2** supertherm  
**NT2** timken alloys  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT2** vitallium  
**NT1** copper alloys  
**NT2** alloy-al95cu4  
**NT3** duralumin  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni66cu32  
**NT3** monel 400  
**NT2** alloy-yundk 25ba  
**NT2** bondur  
**NT2** copper additions  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** duranickel  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-crmov  
**NT3** steel-crmi  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-ni3cr  
**NT3** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT2** copper base alloys  
**NT3** alloy-cu52ni47  
**NT4** constantan  
**NT3** alloy-cu70ni30  
**NT3** alloy-cu90ni10  
**NT3** brass  
**NT4** brass-alpha  
**NT4** brass-beta  
**NT3** bronze  
**NT3** heusler alloys  
**NT3** manganin  
**NT3** muntz metal  
**NT3** nickeline alloy  
**NT3** ounce metal  
**NT3** tungsten bronze  
**NT2** cunico  
**NT2** heddur  
**NT2** illium  
**NT2** lynite  
**NT2** magnalium  
**NT2** ni-o-nel  
**NT2** steel-cd-4mcu  
**NT2** steel-cr17cu4ni4nb-1  
**NT3** stainless steel-17-4ph  
**NT2** steel-in-787  
**NT2** zamak  
**NT1** gold alloys  
**NT2** gold additions  
**NT2** gold base alloys  
**NT3** palau  
**NT1** hafnium alloys  
**NT2** alloy-c-103  
**NT2** alloy-ta90w8hf  
**NT3** tantalum alloy-t111  
**NT2** hafnium additions  
**NT3** astar 811c  
**NT2** hafnium base alloys  
**NT1** iron alloys  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-co52fe35v10  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-hs-31  
**NT2** alloy-in-102  
**NT2** alloy-khn50mbvçu  
**NT2** alloy-mo-re-1  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni45fe34cr20  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni60fe24cr16  
**NT3** nichrome  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni61cr23fe14  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni66cu32  
**NT3** monel 400  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-ni78cr21  
**NT2** alloy-ni79fe16mo4  
**NT2** alloy-ra-333  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** alloy-v87cr9fe3  
**NT2** alloy-yundk 25ba  
**NT2** austenite  
**NT2** colmonoy  
**NT2** ferrite  
**NT2** incoloy 901  
**NT2** iron additions  
**NT3** alloy-al95cu4  
**NT4** duralumin  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni80cr20  
**NT3** alloy-ti88mo8al3  
**NT3** alloy-ti90al6mo3  
**NT3** alloy-ti90al6v4  
**NT3** alloy-ti91al4mo3  
**NT3** alloy-ti91al5cr2  
**NT3** alloy-zr98sn-2  
**NT4** zircaloy 2  
**NT3** alloy-zr98sn-4  
**NT4** zircaloy 4  
**NT3** aludur  
**NT3** duranickel  
**NT3** rene 95  
**NT3** zamak  
**NT2** iron base alloys  
**NT3** alloy-co50fe50  
**NT4** permendur  
**NT3** alloy-fe40ni35cr22  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe46ni33cr21  
**NT4** incoloy 800  
**NT4** incoloy 802  
**NT3** alloy-fe53ni29co18  
**NT4** kovar  
**NT3** alnico alloys  
**NT3** ascology  
**NT3** cast iron  
**NT3** discaloy  
**NT3** duriron  
**NT3** ge 2541  
**NT3** hiperco  
**NT3** hoskins 875  
**NT3** invar  
**NT3** kanthal  
**NT3** sicromo 9m  
**NT3** steel-cd-4mcu  
**NT3** steels  
**NT4** austenitic steels  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-cr17ni7  
**NT6** stainless steel-301  
**NT5** steel-cr18ni10  
**NT6** stainless steel-18-10  
**NT5** steel-cr18ni10-1  
**NT5** steel-cr18ni10ti  
**NT6** stainless steel-321  
**NT5** steel-cr18ni11  
**NT6** steel-x6crni1811  
**NT5** steel-cr18ni11nb  
**NT6** stainless steel-347  
**NT5** steel-cr18ni11nbco  
**NT6** stainless steel-348  
**NT5** steel-cr18ni12  
**NT6** stainless steel-305  
**NT5** steel-cr18ni12ti  
**NT5** steel-cr18ni8  
**NT6** stainless steel-18-8  
**NT5** steel-cr18ni9  
**NT6** stainless steel-302  
**NT5** steel-cr18ni9ti  
**NT5** steel-cr19ni10  
**NT6** stainless steel-304  
**NT5** steel-cr19ni10-1  
**NT6** stainless steel-304l  
**NT5** steel-cr20ni11  
**NT6** stainless steel-308  
**NT5** steel-cr20ni11-1  
**NT6** stainless steel-308l  
**NT5** steel-cr21mn9ni6  
**NT6** stainless steel-21-6-9  
**NT5** steel-cr23ni14  
**NT6** stainless steel-309  
**NT6** stainless steel-309s  
**NT5** steel-cr23ni18  
**NT5** steel-cr25ni20  
**NT6** alloy-hk-40  
**NT6** stainless steel-310



- NT5** steel-ni25cr20  
**NT6** stainless steel-20-25  
**NT5** steel-ni26cr15ti2movalb  
**NT6** alloy-a-286  
**NT4** carbon steels  
**NT5** steel-astm-a105  
**NT5** steel-astm-a106  
**NT5** steel-astm-a212  
**NT5** steel-astm-a285  
**NT5** steel-astm-a516  
**NT5** steel-astm-a533-b  
**NT5** steel-in-787  
**NT5** steel-sae-1045  
**NT4** croloy  
**NT5** steel-cr13  
**NT6** stainless steel-410  
**NT5** steel-cr16  
**NT6** stainless steel-430  
**NT5** steel-cr18ni10  
**NT6** stainless steel-18-10  
**NT5** steel-cr2mo  
**NT6** steel-astm-a542  
**NT5** steel-cr5mo  
**NT4** ferritic steels  
**NT5** steel-cr12moniv  
**NT5** steel-cr13al  
**NT6** stainless steel-405  
**NT5** steel-cr16  
**NT6** stainless steel-430  
**NT5** steel-cr25  
**NT6** stainless steel-446  
**NT5** steel-cr9mo  
**NT5** steel-cr9monbv  
**NT4** high alloy steels  
**NT5** stainless steels  
**NT6** chromium-nickel steels  
**NT7** alloy-d-9  
**NT7** carpenter  
**NT7** chromium-nickel-molybdenum steels  
**NT8** alloy-m-813  
**NT8** steel-cr11ni10mo2ti-1  
**NT8** steel-cr15ni15motib  
**NT8** steel-cr16ni13monbv  
**NT8** steel-cr16ni15mo3nb  
**NT8** steel-cr16ni16monb  
**NT8** steel-cr16ni8mo2  
**NT9** stainless steel-16-8-2  
**NT8** steel-cr16ni9mo2  
**NT8** steel-cr17ni12mo3  
**NT9** stainless steel-316  
**NT8** steel-cr17ni12mo3-1  
**NT9** stainless steel-316l  
**NT9** stainless steel-zcnd17-13  
**NT8** steel-cr17ni12monb  
**NT8** steel-cr17ni13mo2ti  
**NT8** steel-cr17ni13mo3ti  
**NT8** steel-ni26cr15ti2movalb  
**NT9** alloy-a-286  
**NT7** durco  
**NT7** enduro  
**NT7** stainless steel-17-7ph  
**NT7** stainless steel-303  
**NT7** stainless steel-329  
**NT7** stainless steel-ph-15-7-mo  
**NT7** steel-cr17ni13  
**NT7** steel-cr17ni7  
**NT8** stainless steel-301  
**NT7** steel-cr18ni10  
**NT8** stainless steel-18-10  
**NT7** steel-cr18ni10-1  
**NT7** steel-cr18ni10ti  
**NT8** stainless steel-321  
**NT7** steel-cr18ni11  
**NT8** steel-x6crni1811  
**NT7** steel-cr18ni11nb  
**NT8** stainless steel-347  
**NT7** steel-cr18ni11nbco  
**NT8** stainless steel-348  
**NT7** steel-cr18ni12  
**NT8** stainless steel-305  
**NT7** steel-cr18ni12ti  
**NT7** steel-cr18ni8  
**NT8** stainless steel-18-8  
**NT7** steel-cr18ni9  
**NT8** stainless steel-302  
**NT7** steel-cr18ni9ti  
**NT7** steel-cr19ni10  
**NT8** stainless steel-304  
**NT7** steel-cr19ni10-1  
**NT8** stainless steel-304l  
**NT7** steel-cr20ni11  
**NT8** stainless steel-308  
**NT7** steel-cr20ni11-1  
**NT8** stainless steel-308l  
**NT7** steel-cr23ni14  
**NT8** stainless steel-309  
**NT8** stainless steel-309s  
**NT7** steel-cr23ni18  
**NT7** steel-cr25ni20  
**NT8** alloy-hk-40  
**NT8** stainless steel-310  
**NT7** steel-ni25cr20  
**NT8** stainless steel-20-25  
**NT7** steel-ni36cr12ti3al-1  
**NT7** timken alloys  
**NT6** chromium steels  
**NT7** chromium-molybdenum steels  
**NT8** chromium-nickel-molybdenum steels  
**NT9** alloy-m-813  
**NT9** steel-cr11ni10mo2ti-1  
**NT9** steel-cr15ni15motib  
**NT9** steel-cr16ni13monbv  
**NT9** steel-cr16ni15mo3nb  
**NT9** steel-cr16ni16monb  
**NT9** steel-cr16ni8mo2  
**NT10** stainless steel-16-8-2  
**NT9** steel-cr16ni9mo2  
**NT9** steel-cr17ni12mo3  
**NT10** stainless steel-316  
**NT9** steel-cr17ni12mo3-1  
**NT10** stainless steel-316l  
**NT10** stainless steel-zcnd17-13  
**NT9** steel-cr17ni12monb  
**NT9** steel-cr17ni13mo2ti  
**NT9** steel-cr17ni13mo3ti  
**NT9** steel-ni26cr15ti2movalb  
**NT10** alloy-a-286  
**NT7** magnet steel-ks  
**NT7** miduale  
**NT7** stainless steel-406  
**NT7** steel-cr10mo2  
**NT7** steel-cr12  
**NT8** stainless steel-403  
**NT7** steel-cr12moniv  
**NT7** steel-cr12mov  
**NT8** alloy-ht-9  
**NT7** steel-cr13  
**NT8** stainless steel-410  
**NT7** steel-cr13al  
**NT8** stainless steel-405  
**NT7** steel-cr16  
**NT8** stainless steel-430  
**NT7** steel-cr16ni  
**NT7** steel-cr17cu4ni4nb-1  
**NT8** stainless steel-17-4ph  
**NT7** steel-cr17mo  
**NT8** stainless steel-440  
**NT7** steel-cr17ni4mo3  
**NT7** steel-cr18  
**NT7** steel-cr25  
**NT8** stainless steel-446  
**NT7** steel-cr9mo  
**NT7** steel-cr9monbv  
**NT6** low carbon-high alloy steels  
**NT7** steel-cr11ni10mo2ti-1  
**NT7** steel-cr17cu4ni4nb-1  
**NT8** stainless steel-17-4ph  
**NT7** steel-cr17ni12mo3-1  
**NT8** stainless steel-316l  
**NT8** stainless steel-304l  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr18ni10-1  
**NT7** steel-cr19ni10-1  
**NT8** stainless steel-304l  
**NT7** steel-cr20ni11-1  
**NT8** stainless steel-308l  
**NT7** steel-ni36cr12ti3al-1  
**NT6** stainless steel-317  
**NT6** stainless steel-318  
**NT6** stainless steel-422  
**NT6** stainless steel-fv-548  
**NT6** stainless steel-jbk-75  
**NT6** stainless steel-m-50  
**NT6** steel-cr21mn9ni6  
**NT7** stainless steel-21-6-9  
**NT6** sweetalloy  
**NT4** low alloy steels  
**NT5** steel-astm-a350  
**NT5** steel-astm-a387  
**NT5** steel-astm-a508  
**NT5** steel-astm-a533  
**NT5** steel-cr2mo  
**NT6** steel-astm-a542  
**NT5** steel-cr2moninb  
**NT5** steel-cr2mov  
**NT5** steel-cr2nimov  
**NT5** steel-cr5mo  
**NT5** steel-cralnimo  
**NT5** steel-crmo  
**NT5** steel-crmov  
**NT5** steel-crni  
**NT5** steel-mncumo  
**NT6** steel-astm-a537  
**NT5** steel-mnmo  
**NT6** steel-astm-a302  
**NT5** steel-mnnimo  
**NT6** steel-astm-a533-b  
**NT5** steel-mnnimov  
**NT5** steel-ni3cr  
**NT5** steel-ni3crmo  
**NT6** steel-astm-a543  
**NT5** steel-ni3crmov  
**NT5** steel-ni4crw  
**NT5** steel-nicr  
**NT5** steel-nicrmo  
**NT5** steel-nimocr  
**NT4** manganese steels  
**NT4** martensitic steels  
**NT5** maraging steels  
**NT5** steel-cr10mo2  
**NT5** steel-cr12  
**NT6** stainless steel-403  
**NT5** steel-cr12mov  
**NT6** alloy-ht-9  
**NT5** steel-cr13  
**NT6** stainless steel-410  
**NT5** steel-cr16ni  
**NT5** steel-cr17cu4ni4nb-1  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17mo  
**NT6** stainless steel-440  
**NT5** steel-cr18  
**NT4** nickel steels  
**NT5** sweetalloy  
**NT4** steel-astm-a572  
**NT2** konel  
**NT2** lynite  
**NT2** martensite  
**NT2** misco metal  
**NT2** ni-hard  
**NT2** orthonol  
**NT2** permalloy  
**NT2** rene 41  
**NT2** supertherm  
**NT2** tribaloy 400

- NT2** tribaloy 800  
**NT1** manganese alloys  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-mo-re-1  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni94mn3al2  
**NT3** alumul  
**NT2** alloy-s-816  
**NT2** heusler alloys  
**NT2** manganese additions  
**NT3** alloy-al95cu4  
**NT4** duralumin  
**NT3** alloy-fe40ni35cr22  
**NT3** alloy-fe53ni29co18  
**NT4** kovar  
**NT3** alloy-hs-31  
**NT3** alloy-n28t3  
**NT3** alloy-ni66cu32  
**NT4** monel 400  
**NT3** alloy-ni78cr21  
**NT3** alloy-v-36  
**NT3** ascology  
**NT3** bondur  
**NT3** discaloy  
**NT3** duranickel  
**NT3** duriron  
**NT3** magnesium alloy-az31b  
**NT3** miduale  
**NT3** ni-hard  
**NT3** steel-cr16ni9mo2  
**NT2** manganese base alloys  
**NT2** manganese steels  
**NT2** manganin  
**NT2** stainless steel-zcnd17-13  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-mncumo  
**NT3** steel-astm-a537  
**NT2** steel-mnmo  
**NT3** steel-astm-a302  
**NT2** steel-mnnimo  
**NT3** steel-astm-a533-b  
**NT2** steel-mnnimov  
**NT1** molybdenum alloys  
**NT2** alloy-b-1900  
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**NT3** havar  
**NT2** alloy-d-979  
**NT2** alloy-in-102  
**NT2** alloy-khn50mbvyu  
**NT2** alloy-mar-m246  
**NT2** alloy-mn-21  
**NT2** alloy-mp35n  
**NT2** alloy-n-10m  
**NT2** alloy-n-9m  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni50mo32cr15si3  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
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**NT3** astroloy  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni65cr25mo10  
**NT3** nimonic 86  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-ni79fe16mo4  
**NT2** alloy-nx-188  
**NT2** alloy-ra-333  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
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**NT2** alloy-ti88mo8al3  
**NT2** alloy-ti89al6mo3  
**NT2** alloy-ti90al6mo3  
**NT2** alloy-ti90mo7al2  
**NT2** alloy-ti91al4mo3  
**NT2** alloy-ti91al5cr2  
**NT2** alloy-v-36  
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**NT2** chromium-molybdenum steels  
**NT3** chromium-nickel-molybdenum steels  
**NT4** alloy-m-813  
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**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr16ni9mo2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-1  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-ni26cr15ti2movalb  
**NT5** alloy-a-286  
**NT2** discaloy  
**NT2** illium  
**NT2** incoloy 901  
**NT2** molybdenum additions  
**NT3** alloy-ti90al6  
**NT3** steel-cr12moniv  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr5mo  
**NT3** steel-cr9mo  
**NT3** steel-cralnimo  
**NT3** steel-crmov  
**NT3** steel-crmov  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnmo  
**NT4** steel-astm-a302  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-mnnimov  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** sicromo 9m  
**NT2** stainless steel m-50  
**NT2** steel-cd-4mcu  
**NT2** steel-cr10mo2  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr9monbv  
**NT2** steel-in-787  
**NT2** timken alloys  
**NT2** tribaloy 400  
**NT2** tribaloy 800  
**NT2** udimet alloys  
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**NT4** udimet 700  
**NT3** udimet 500  
**NT2** vitallium  
**NT1** nickel alloys  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-cu52ni47  
**NT3** constantan  
**NT2** alloy-d-979  
**NT2** alloy-fe40ni35cr22  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-fe53ni29co18  
**NT3** kovar  
**NT2** alloy-hs-31  
**NT2** alloy-mo-re-1  
**NT2** alloy-mp35n  
**NT2** alloy-n28t3  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** alloy-yundk 25ba  
**NT2** alnico alloys  
**NT2** ascology  
**NT2** chromium-nickel steels  
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**NT3** carpenter  
**NT3** chromium-nickel-molybdenum steels  
**NT4** alloy-m-813  
**NT4** steel-cr11ni10mo2ti-1  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr16ni9mo2  
**NT4** steel-cr17ni12mo3  
**NT4** steel-cr17ni12mo3-1  
**NT5** stainless steel-316  
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**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-ni26cr15ti2movalb  
**NT5** alloy-a-286

- NT4** steel-cr17ni12mo3-1  
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**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-ni26cr15ti2mvalb  
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**NT3** durco  
**NT3** enduro  
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**NT3** stainless steel-303  
**NT3** stainless steel-329  
**NT3** stainless steel-ph-15-7-mo  
**NT3** steel-cr17ni13  
**NT3** steel-cr17ni7  
**NT4** stainless steel-301  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
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**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni11  
**NT4** steel-x6crni1811  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT3** steel-cr18ni12  
**NT4** stainless steel-305  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni8  
**NT4** stainless steel-18-8  
**NT3** steel-cr18ni9  
**NT4** stainless steel-302  
**NT3** steel-cr18ni9ti  
**NT3** steel-cr19ni10  
**NT4** stainless steel-304  
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**NT4** stainless steel-3041  
**NT3** steel-cr20ni11  
**NT4** stainless steel-308  
**NT3** steel-cr20ni11-1  
**NT4** stainless steel-3081  
**NT3** steel-cr23ni14  
**NT4** stainless steel-309  
**NT4** stainless steel-309s  
**NT3** steel-cr23ni18  
**NT3** steel-cr25ni20  
**NT4** alloy-hk-40  
**NT4** stainless steel-310  
**NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni36cr12ti3al-1  
**NT3** timken alloys  
**NT2** cunico  
**NT2** discaloy  
**NT2** invar  
**NT2** manganin  
**NT2** misco metal  
**NT2** ni-hard  
**NT2** ni-o-nel  
**NT2** nickel additions  
**NT3** alloy-zr98sn-2  
**NT4** zircaloy 2  
**NT3** ounce metal  
**NT3** steel-cr12moniv  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cralnimo  
**NT3** steel-crmo  
**NT3** steel-crmo v  
**NT3** steel-crni  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-nimocr  
**NT2** nickel base alloys  
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**NT3** alloy-in-102  
**NT3** alloy-in-853  
**NT3** alloy-mar-m246  
**NT3** alloy-mn-21  
**NT3** alloy-mo-re-2  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni45fe34cr20  
**NT3** alloy-ni50mo32cr15si3  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-ni78cr21  
**NT3** alloy-ni79fe16mo4  
**NT3** alloy-ni94mn3al2  
**NT4** aludel  
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**NT3** alloy-ra-333  
**NT3** chlorimet  
**NT3** chromel  
**NT4** alloy-ni60fe24cr16  
**NT5** nichrome  
**NT4** alloy-ni80cr20  
**NT3** colmonoy  
**NT3** duranickel  
**NT3** hastelloys  
**NT4** alloy-ni49cr22fe18mo9  
**NT5** hastelloy x  
**NT4** alloy-ni50cr22fe18mo9  
**NT5** hastelloy xr  
**NT4** alloy-ni54mo17cr16fe6w4  
**NT5** hastelloy c  
**NT4** alloy-ni62cr16mo15fe3  
**NT5** hastelloy s  
**NT4** alloy-ni65mo28fe5  
**NT5** hastelloy b  
**NT4** alloy-ni70mo17cr7fe5  
**NT5** hastelloy n  
**NT5** inor-8  
**NT3** illium  
**NT3** incoloy 901  
**NT3** inconel alloys  
**NT4** alloy-ni41fe40cr16nb3  
**NT5** inconel 706  
**NT4** alloy-ni46cr23co19ti5al4  
**NT5** alloy-in-939  
**NT4** alloy-ni51cr48  
**NT5** inconel 671  
**NT4** alloy-ni53cr19fe19nb5mo3  
**NT5** inconel 718  
**NT4** alloy-ni54cr22co13mo9  
**NT5** inconel 617  
**NT4** alloy-ni59cr30fe9  
**NT5** inconel 690  
**NT4** alloy-ni60co15cr10al6ti5mo3  
**NT5** alloy-in-100  
**NT4** alloy-ni61cr16co9al3ti3w3  
**NT5** alloy-in-738  
**NT4** alloy-ni61cr22mo9nb4fe3  
**NT5** inconel 625  
**NT4** alloy-ni61cr23fe14  
**NT4** alloy-ni73cr15fe7ti3  
**NT5** inconel x750  
**NT4** alloy-ni73cr20mn3nb3  
**NT5** inconel 82  
**NT4** alloy-ni74cr13al6mo4  
**NT5** inconel 713c  
**NT4** alloy-ni75cr12al6mo5  
**NT5** inconel 713lc  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-u90nb7zr3  
**NT2** alloy-v-36  
**NT2** alloy-zr97nb3  
**NT2** niobium additions  
**NT3** alloy-ni45fe34cr20  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** konel  
**NT3** monel  
**NT4** alloy-ni66cu32  
**NT5** monel 400  
**NT3** microbraz 50  
**NT3** nimonic  
**NT4** alloy-ni43fe33cr16mo3  
**NT5** nimonic pe16  
**NT4** alloy-ni50co20cr15al5mo5  
**NT5** nimonic 105  
**NT4** alloy-ni59cr20co17ti2  
**NT4** alloy-ni65cr25mo10  
**NT5** nimonic 86  
**NT4** alloy-ni76cr15fe8  
**NT5** inconel 600  
**NT4** alloy-ni76cr20ti2  
**NT5** nimonic 80a  
**NT4** nimonic 115  
**NT4** nimonic 115a  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** td-nickel chromium  
**NT3** tophet  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT2** nickel steels  
**NT3** sweetalloy  
**NT2** nickeline alloy  
**NT2** orthonol  
**NT2** permalloy  
**NT2** stainless steel-jbk-75  
**NT2** steel-cd-4mcu  
**NT2** steel-cr16ni  
**NT2** steel-cr17cu4ni4nb-1  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-cr2nimov  
**NT2** steel-in-787  
**NT2** steel-mnnimov  
**NT2** steel-ni3cr  
**NT2** steel-ni3crmo  
**NT3** steel-astm-a543  
**NT2** steel-ni3crmov  
**NT2** steel-ni4crw  
**NT2** steel-nicr  
**NT2** steel-nicrmo  
**NT2** supertherm  
**NT1** niobium alloys  
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**NT2** alloy-khn50mbvyu  
**NT2** alloy-mn-21  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-u90nb7zr3  
**NT2** alloy-v-36  
**NT2** alloy-zr97nb3  
**NT2** niobium additions  
**NT3** alloy-ni45fe34cr20  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738

- NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-yundk 25ba  
**NT3** steel-cr16ni13monbv  
**NT3** steel-cr16ni15mo3nb  
**NT3** steel-cr16ni16monb  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17ni12monb  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbc  
**NT4** stainless steel-348  
**NT3** steel-cr2moninb  
**NT3** steel-cr9monbv  
**NT2** niobium base alloys  
**NT3** alloy-c-103  
**NT3** alloy-n-10m  
**NT3** alloy-n-9m  
**NT3** alloy-nt25a5  
**NT2** rene 95  
**NT2** steel-in-787  
**NT1** platinum metal alloys  
**NT2** iridium alloys  
**NT3** iridium additions  
**NT3** iridium base alloys  
**NT2** osmium alloys  
**NT3** osmium additions  
**NT3** osmium base alloys  
**NT2** palladium alloys  
**NT3** palau  
**NT3** palladium base alloys  
**NT2** platinum alloys  
**NT3** platinum base alloys  
**NT2** rhodium alloys  
**NT3** rhodium additions  
**NT3** rhodium base alloys  
**NT2** ruthenium alloys  
**NT3** ruthenium additions  
**NT3** ruthenium base alloys  
**NT1** rhenium alloys  
**NT2** rhenium additions  
**NT2** rhenium base alloys  
**NT1** scandium alloys  
**NT2** scandium additions  
**NT2** scandium base alloys  
**NT1** silver alloys  
**NT2** silver additions  
**NT2** silver base alloys  
**NT1** tantalum alloys  
**NT2** alloy-b-1900  
**NT2** alloy-c-103  
**NT2** alloy-mar-m246  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** carboloy  
**NT2** tantalum additions  
**NT3** alloy-n-10m  
**NT2** tantalum base alloys  
**NT3** alloy-ta90w8hf  
**NT4** tantalum alloy-t111  
**NT3** astar 811c  
**NT3** tantalum alloy-t222  
**NT1** technetium alloys  
**NT2** technetium additions  
**NT2** technetium base alloys  
**NT1** titanium alloys  
**NT2** alloy-b-1900  
**NT2** alloy-c-103  
**NT2** alloy-d-979  
**NT2** alloy-in-853  
**NT2** alloy-m-813  
**NT2** alloy-mar-m246  
**NT2** alloy-n28t3  
**NT2** alloy-ni41fe40cr16nb3  
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**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni55co17cr15mo5al4ti4  
**NT3** astroloy  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni76cr20ti2  
**NT3** nimonic 80a  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-nt25a5  
**NT2** carboloy  
**NT2** discaloy  
**NT2** incoloy 901  
**NT2** konel  
**NT2** ni-o-nel  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** stainless steel-jbk-75  
**NT2** steel-cr11ni10mo2ti-1  
**NT2** steel-ni26cr15ti2movalb  
**NT3** alloy-a-286  
**NT2** steel-ni36cr12ti3al-1  
**NT2** titanium additions  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe46ni33cr21  
**NT4** incoloy 800  
**NT4** incoloy 802  
**NT3** alloy-in-102  
**NT3** alloy-mo99  
**NT4** alloy-tzm  
**NT4** alloy-zm-2a  
**NT3** alloy-n-10m  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni51cr48  
**NT4** inconel 671  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni78cr21  
**NT3** duranickel  
**NT3** steel-cr15ni15motib  
**NT3** steel-cr17ni13mo2ti  
**NT3** steel-cr17ni13mo3ti  
**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni9ti  
**NT2** titanium base alloys  
**NT3** alloy-ti78cr11mo7al3  
**NT3** alloy-ti88mo8al3  
**NT3** alloy-ti89al6mo3  
**NT3** alloy-ti90al6  
**NT3** alloy-ti90al6mo3  
**NT3** alloy-ti90al6v4  
**NT3** alloy-ti90mo7al2  
**NT3** alloy-ti91al4mo3  
**NT3** alloy-ti91al5cr2  
**NT3** alloy-ti99  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT1** tungsten alloys  
**NT2** alloy-c-103  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-d-979  
**NT2** alloy-in-102  
**NT2** alloy-khn50mbvyu  
**NT2** alloy-mar-m246  
**NT2** alloy-mn-21  
**NT2** alloy-mo-re-1  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ra-333  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-ta90w8hf  
**NT3** tantalum alloy-t111  
**NT2** alloy-v-36  
**NT2** astar 811c  
**NT2** carboloy  
**NT2** magnet steel-ks  
**NT2** miduale  
**NT2** rene 80  
**NT2** rene 95  
**NT2** supertherm  
**NT2** tungsten additions  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** steel-ni4crw  
**NT2** tungsten base alloys  
**NT3** alloy-mo-re-2  
**NT2** tungsten bronze  
**NT2** udimet 500  
**NT1** vanadium alloys  
**NT2** alloy-co52fe35v10  
**NT2** alloy-ti90al6v4  
**NT2** alloy-ti91al4mo3  
**NT2** vanadium additions  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni65mo28fe5  
**NT4** hastelloy b  
**NT3** alloy-ti90al6  
**NT3** steel-cr12moniv  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr16ni13monbv  
**NT3** steel-cr2mov

NT3 steel-cr2nimov  
 NT3 steel-cr9monbv  
 NT3 steel-crmov  
 NT3 steel-mnnimov  
 NT3 steel-ni26cr15ti2movalb  
   NT4 alloy-a-286  
 NT3 steel-ni3crmo  
   NT4 steel-astm-a543  
 NT3 steel-ni3crmov  
 NT2 vanadium base alloys  
   NT3 alloy-v87cr9fe3  
 NT1 yttrium alloys  
   NT2 alloy-c-103  
   NT2 ge 2541  
   NT2 yttrium base alloys  
 NT1 zirconium alloys  
   NT2 alloy-c-103  
   NT2 alloy-ti89al6mo3  
   NT2 alloy-ti90al6  
   NT2 alloy-u90nb7zr3  
   NT2 alloy-v87cr9fe3  
   NT2 zirconium additions  
     NT3 alloy-in-102  
     NT3 alloy-mo99  
       NT4 alloy-tzm  
       NT4 alloy-zm-2a  
     NT3 alloy-mo99b  
     NT3 alloy-n-10m  
     NT3 alloy-n-9m  
     NT3 alloy-ni43fe33cr16mo3  
       NT4 nimonic pe16  
     NT3 alloy-ni46cr23co19ti5al4  
       NT4 alloy-in-939  
     NT3 alloy-ni55co17cr15mo5al4ti4  
       NT4 astroloy  
     NT3 alloy-ni58cr20co14mo4ti3  
       NT4 waspaloy  
     NT3 alloy-ni59cr20co17ti2  
     NT3 alloy-ni60co15cr10al6ti5mo3  
       NT4 alloy-in-100  
     NT3 alloy-ni61cr16co9al3ti3w3  
       NT4 alloy-in-738  
     NT3 alloy-ni74cr13al6mo4  
       NT4 inconel 713c  
     NT3 alloy-ni75cr12al6mo5  
       NT4 inconel 713lc  
     NT3 alloy-ni76cr20ti2  
       NT4 nimonic 80a  
     NT3 magnesium alloy-ek  
     NT3 magnesium alloy-ez  
     NT3 magnesium alloy-hk31a  
     NT3 rene 80  
     NT3 rene 95  
 NT2 zirconium base alloys  
   NT3 alloy-zr97nb3  
   NT3 zircaloy  
     NT4 alloy-zr98sn-2  
     NT5 zircaloy 2  
   NT4 alloy-zr98sn-4  
   NT5 zircaloy 4

### TRANSITION ELEMENT COMPLEXES

BT1 complexes  
 NT1 chromium complexes  
 NT1 cobalt complexes  
 NT1 copper complexes  
   NT2 ceruloplasmin  
 NT1 gold complexes  
 NT1 hafnium complexes  
 NT1 iridium complexes  
 NT1 iron complexes  
   NT2 ferricyanides  
   NT2 ferritin  
   NT2 ferrocene  
   NT2 ferrocyanides  
 NT1 manganese complexes  
 NT1 molybdenum complexes  
 NT1 nickel complexes

NT1 niobium complexes  
 NT1 osmium complexes  
 NT1 palladium complexes  
 NT1 platinum complexes  
 NT1 rhenium complexes  
 NT1 rhodium complexes  
 NT1 ruthenium complexes  
 NT1 scandium complexes  
 NT1 silver complexes  
 NT1 tantalum complexes  
 NT1 technetium complexes  
 NT1 titanium complexes  
 NT1 tungsten complexes  
 NT1 vanadium complexes  
 NT1 yttrium complexes  
 NT1 zirconium complexes

### TRANSITION ELEMENT COMPOUNDS

*UF group iva metal compounds*  
*UF group va metal compounds*  
*UF group via metal compounds*  
 NT1 chromium compounds  
   NT2 chromates  
   NT2 chromic acid  
   NT2 chromites  
   NT2 chromium borides  
   NT2 chromium carbides  
   NT2 chromium halides  
     NT3 chromium bromides  
     NT3 chromium chlorides  
     NT3 chromium fluorides  
     NT3 chromium iodides  
   NT2 chromium hydrides  
   NT2 chromium hydroxides  
   NT2 chromium nitrates  
   NT2 chromium nitrides  
   NT2 chromium oxides  
   NT2 chromium perchlorates  
   NT2 chromium phosphates  
   NT2 chromium selenides  
   NT2 chromium silicates  
   NT2 chromium silicides  
   NT2 chromium sulfates  
   NT2 chromium sulfides  
   NT2 chromium tellurides  
   NT2 dichromates  
 NT1 cobalt compounds  
   NT2 cobalt arsenides  
   NT2 cobalt borides  
   NT2 cobalt carbides  
   NT2 cobalt carbonates  
   NT2 cobalt halides  
     NT3 cobalt bromides  
     NT3 cobalt chlorides  
     NT3 cobalt fluorides  
     NT3 cobalt iodides  
   NT2 cobalt hydrides  
   NT2 cobalt hydroxides  
   NT2 cobalt nitrates  
   NT2 cobalt oxides  
   NT2 cobalt perchlorates  
   NT2 cobalt phosphates  
   NT2 cobalt phosphides  
   NT2 cobalt selenides  
   NT2 cobalt silicates  
   NT2 cobalt sulfates  
   NT2 cobalt sulfides  
   NT2 cobalt tellurides  
   NT2 cobalt tungstates  
 NT1 copper compounds  
   NT2 copper arsenides  
   NT2 copper borides  
   NT2 copper carbides  
   NT2 copper carbonates  
   NT2 copper halides  
     NT3 copper bromides  
     NT3 copper chlorides

    NT3 copper fluorides  
     NT3 copper iodides  
   NT2 copper hydrides  
   NT2 copper hydroxides  
   NT2 copper nitrates  
   NT2 copper nitrides  
   NT2 copper oxides  
   NT2 copper perchlorates  
   NT2 copper phosphates  
   NT2 copper phosphides  
   NT2 copper selenides  
   NT2 copper silicates  
   NT2 copper silicides  
   NT2 copper sulfates  
   NT2 copper sulfides  
   NT2 copper tellurides  
   NT2 copper tungstates  
   NT2 cuprates  
 NT1 gold compounds  
   NT2 gold halides  
     NT3 gold bromides  
     NT3 gold chlorides  
     NT3 gold fluorides  
     NT3 gold iodides  
   NT2 gold hydrides  
   NT2 gold oxides  
   NT2 gold silicides  
   NT2 gold tellurides  
 NT1 hafnium compounds  
   NT2 hafnates  
   NT2 hafnium arsenides  
   NT2 hafnium borides  
   NT2 hafnium carbides  
   NT2 hafnium halides  
     NT3 hafnium bromides  
     NT3 hafnium chlorides  
     NT3 hafnium fluorides  
     NT3 hafnium iodides  
   NT2 hafnium hydrides  
   NT2 hafnium hydroxides  
   NT2 hafnium nitrates  
   NT2 hafnium nitrides  
   NT2 hafnium oxides  
   NT2 hafnium perchlorates  
   NT2 hafnium phosphates  
   NT2 hafnium phosphides  
   NT2 hafnium selenides  
   NT2 hafnium silicates  
   NT2 hafnium silicides  
   NT2 hafnium sulfates  
   NT2 hafnium sulfides  
   NT2 hafnium tellurides  
   NT2 hafnium tungstates  
 NT1 iridium compounds  
   NT2 iridium borides  
   NT2 iridium carbides  
   NT2 iridium halides  
     NT3 iridium chlorides  
     NT3 iridium fluorides  
   NT2 iridium hydrides  
   NT2 iridium nitrides  
   NT2 iridium oxides  
   NT2 iridium silicides  
   NT2 iridium sulfates  
   NT2 iridium tellurides  
 NT1 iron compounds  
   NT2 ferrates  
   NT2 ferrites  
   NT2 iron arsenides  
   NT2 iron borides  
   NT2 iron carbides  
     NT3 cementite  
     NT3 ni-hard  
   NT2 iron carbonates  
   NT2 iron halides  
     NT3 iron bromides  
     NT3 iron chlorides  
     NT3 iron fluorides  
   NT2 iron hydrides

NT2	iron hydroxides	NT2	nickel hydrides	NT3	platinum iodides
NT2	iron nitrates	NT2	nickel hydroxides	NT2	platinum hydrides
NT2	iron nitrides	NT2	nickel nitrates	NT2	platinum hydroxides
NT2	iron oxides	NT2	nickel nitrides	NT2	platinum nitrides
NT2	iron perchlorates	NT2	nickel oxides	NT2	platinum oxides
NT2	iron phosphates	NT2	nickel phosphates	NT2	platinum phosphides
NT2	iron phosphides	NT2	nickel phosphides	NT2	platinum silicides
NT2	iron selenides	NT2	nickel selenides	NT2	platinum sulfates
NT2	iron silicates	NT2	nickel silicates	NT2	platinum sulfides
NT2	iron silicides	NT2	nickel silicides	NT2	platinum tellurides
NT2	iron sulfates	NT2	nickel sulfates	NT1	rhenium compounds
NT2	iron sulfides	NT2	nickel sulfides	NT2	perrhenates
NT2	iron tellurides	NT2	nickel tellurides	NT2	rhenates
NT2	iron tungstates	NT2	nickel tungstates	NT2	rhenium borides
NT1	manganese compounds	NT2	nickelates	NT2	rhenium carbides
NT2	manganates	NT1	niobium compounds	NT2	rhenium carbonates
NT2	manganese arsenides	NT2	niobates	NT2	rhenium halides
NT2	manganese borides	NT2	niobium arsenides	NT3	rhenium bromides
NT2	manganese carbides	NT2	niobium borides	NT3	rhenium chlorides
NT2	manganese carbonates	NT2	niobium bromides	NT3	rhenium fluorides
NT2	manganese halides	NT2	niobium carbides	NT3	rhenium iodides
NT3	manganese bromides	NT2	niobium chlorides	NT2	rhenium hydrides
NT3	manganese chlorides	NT2	niobium chlorides	NT2	rhenium hydroxides
NT3	manganese fluorides	NT2	niobium fluorides	NT2	rhenium nitrides
NT3	manganese iodides	NT2	niobium halides	NT2	rhenium oxides
NT2	manganese hydrides	NT3	niobium bromides	NT2	rhenium selenides
NT2	manganese hydroxides	NT3	niobium chlorides	NT2	rhenium silicides
NT2	manganese nitrates	NT3	niobium fluorides	NT2	rhenium sulfates
NT2	manganese nitrides	NT3	niobium iodides	NT2	rhenium sulfides
NT2	manganese oxides	NT2	niobium hydrides	NT2	rhenium tellurides
NT2	manganese perchlorates	NT2	niobium hydroxides	NT1	rhodium compounds
NT2	manganese phosphates	NT2	niobium iodides	NT2	rhodium arsenides
NT2	manganese phosphides	NT2	niobium nitrates	NT2	rhodium borides
NT2	manganese selenides	NT2	niobium nitrides	NT2	rhodium carbides
NT2	manganese silicates	NT2	niobium oxides	NT2	rhodium halides
NT2	manganese silicides	NT2	niobium phosphates	NT3	rhodium bromides
NT2	manganese sulfates	NT2	niobium phosphides	NT3	rhodium chlorides
NT2	manganese sulfides	NT2	niobium selenides	NT3	rhodium fluorides
NT2	manganese tellurides	NT2	niobium silicates	NT2	rhodium hydrides
NT2	manganese tungstates	NT2	niobium silicides	NT2	rhodium hydroxides
NT2	permanganates	NT2	niobium sulfates	NT2	rhodium nitrates
NT1	molybdenum compounds	NT2	niobium sulfides	NT2	rhodium nitrides
NT2	molybdates	NT2	niobium tellurides	NT2	rhodium oxides
NT2	molybdenum arsenides	NT1	osmium compounds	NT2	rhodium phosphides
NT2	molybdenum borides	NT2	osmium borides	NT2	rhodium selenides
NT2	molybdenum carbides	NT2	osmium carbides	NT2	rhodium silicides
NT2	molybdenum carbonates	NT2	osmium halides	NT2	rhodium sulfides
NT2	molybdenum halides	NT3	osmium chlorides	NT2	rhodium tellurides
NT3	molybdenum bromides	NT3	osmium fluorides	NT1	ruthenium compounds
NT3	molybdenum chlorides	NT2	osmium nitrides	NT2	ruthenium arsenides
NT3	molybdenum fluorides	NT2	osmium oxides	NT2	ruthenium borides
NT3	molybdenum iodides	NT2	osmium phosphides	NT2	ruthenium carbides
NT2	molybdenum hydrides	NT2	osmium sulfates	NT2	ruthenium halides
NT2	molybdenum hydroxides	NT2	osmium sulfides	NT3	ruthenium bromides
NT2	molybdenum nitrates	NT1	palladium compounds	NT3	ruthenium chlorides
NT2	molybdenum nitrides	NT2	palladium arsenides	NT3	ruthenium fluorides
NT2	molybdenum oxides	NT2	palladium borides	NT2	ruthenium hydrides
NT3	molybdenum blue	NT2	palladium carbides	NT2	ruthenium hydroxides
NT2	molybdenum phosphates	NT2	palladium halides	NT2	ruthenium nitrates
NT2	molybdenum phosphides	NT3	palladium bromides	NT2	ruthenium nitrides
NT2	molybdenum selenides	NT3	palladium chlorides	NT2	ruthenium nitrosyls
NT2	molybdenum silicates	NT3	palladium fluorides	NT2	ruthenium oxides
NT2	molybdenum silicides	NT3	palladium iodides	NT2	ruthenium phosphides
NT2	molybdenum sulfates	NT2	palladium hydrides	NT2	ruthenium selenides
NT2	molybdenum sulfides	NT2	palladium hydroxides	NT2	ruthenium silicides
NT2	molybdenum tellurides	NT2	palladium nitrates	NT2	ruthenium sulfates
NT2	molybdic acid	NT2	palladium nitrides	NT2	ruthenium sulfides
NT2	molybdophosphates	NT2	palladium oxides	NT2	ruthenium tellurides
NT2	molybdophosphoric acid	NT2	palladium phosphides	NT1	scandium compounds
NT1	nickel compounds	NT2	palladium selenides	NT2	scandium borides
NT2	nickel arsenides	NT2	palladium silicides	NT2	scandium carbides
NT2	nickel borides	NT2	palladium sulfides	NT2	scandium carbonates
NT2	nickel carbides	NT2	palladium tellurides	NT2	scandium halides
NT2	nickel carbonates	NT1	platinum compounds	NT3	scandium bromides
NT2	nickel halides	NT2	platinum arsenides	NT3	scandium chlorides
NT3	nickel bromides	NT2	platinum carbides	NT3	scandium fluorides
NT3	nickel chlorides	NT2	platinum halides	NT3	scandium iodides
NT3	nickel fluorides	NT3	platinum bromides	NT2	scandium hydrides
NT3	nickel iodides	NT3	platinum chlorides	NT2	scandium hydroxides
		NT3	platinum fluorides		

- NT2 scandium nitrates  
 NT2 scandium nitrides  
 NT2 scandium oxides  
 NT2 scandium perchlorates  
 NT2 scandium phosphates  
 NT2 scandium phosphides  
 NT2 scandium selenides  
 NT2 scandium silicates  
 NT2 scandium silicides  
 NT2 scandium sulfates  
 NT2 scandium sulfides  
 NT2 scandium tungstates  
 NT1 silver compounds  
 NT2 silver arsenides  
 NT2 silver carbonates  
 NT2 silver halides  
   NT3 silver bromides  
   NT3 silver chlorides  
   NT3 silver fluorides  
   NT3 silver iodides  
 NT2 silver hydrides  
 NT2 silver hydroxides  
 NT2 silver nitrates  
 NT2 silver nitrides  
 NT2 silver oxides  
 NT2 silver perchlorates  
 NT2 silver phosphates  
 NT2 silver selenides  
 NT2 silver sulfates  
 NT2 silver sulfides  
 NT2 silver tellurides  
 NT2 silver tungstates  
 NT1 tantalum compounds  
 NT2 tantalates  
 NT2 tantalum arsenides  
 NT2 tantalum borides  
 NT2 tantalum carbides  
 NT2 tantalum halides  
   NT3 tantalum bromides  
   NT3 tantalum chlorides  
   NT3 tantalum fluorides  
   NT3 tantalum iodides  
 NT2 tantalum hydrides  
 NT2 tantalum hydroxides  
 NT2 tantalum nitrides  
 NT2 tantalum oxides  
 NT2 tantalum phosphates  
 NT2 tantalum phosphides  
 NT2 tantalum selenides  
 NT2 tantalum silicates  
 NT2 tantalum silicides  
 NT2 tantalum sulfates  
 NT2 tantalum sulfides  
 NT2 tantalum tellurides  
 NT2 tantalum tungstates  
 NT1 technetium compounds  
 NT2 pertechnetates  
 NT2 technetates  
 NT2 technetium carbides  
 NT2 technetium halides  
   NT3 technetium bromides  
   NT3 technetium chlorides  
   NT3 technetium fluorides  
   NT3 technetium iodides  
 NT2 technetium hydrides  
 NT2 technetium oxides  
 NT2 technetium phosphates  
 NT2 technetium selenides  
 NT2 technetium sulfides  
 NT2 technetium tellurides  
 NT1 titanium compounds  
 NT2 titanates  
   NT3 cadmium titanates  
   NT3 lithium titanates  
   NT3 plzt  
   NT3 pzt  
   NT3 strontium titanates  
 NT2 titanides  
 NT2 titanium arsenides  
 NT2 titanium borides  
 NT2 titanium carbides  
 NT2 titanium halides  
   NT3 titanium bromides  
   NT3 titanium chlorides  
   NT3 titanium fluorides  
   NT3 titanium iodides  
 NT2 titanium hydrides  
 NT2 titanium hydroxides  
 NT2 titanium nitrates  
 NT2 titanium nitrides  
 NT2 titanium oxides  
 NT2 titanium phosphates  
 NT2 titanium phosphides  
 NT2 titanium selenides  
 NT2 titanium silicates  
 NT2 titanium silicides  
 NT2 titanium sulfates  
 NT2 titanium sulfides  
 NT2 titanium tellurides  
 NT2 titanium tungstates  
 NT1 tungsten compounds  
 NT2 tungstates  
   NT3 aluminium tungstates  
   NT3 ammonium tungstates  
   NT3 barium tungstates  
   NT3 bismuth tungstates  
   NT3 cadmium tungstates  
   NT3 calcium tungstates  
   NT3 cerium tungstates  
   NT3 cesium tungstates  
   NT3 cobalt tungstates  
   NT3 copper tungstates  
   NT3 dysprosium tungstates  
   NT3 erbium tungstates  
   NT3 gadolinium tungstates  
   NT3 hafnium tungstates  
   NT3 indium tungstates  
   NT3 iron tungstates  
   NT3 lanthanum tungstates  
   NT3 lead tungstates  
   NT3 lithium tungstates  
   NT3 lutetium tungstates  
   NT3 manganese tungstates  
   NT3 neodymium tungstates  
   NT3 nickel tungstates  
   NT3 potassium tungstates  
   NT3 praseodymium tungstates  
   NT3 rubidium tungstates  
   NT3 samarium tungstates  
   NT3 scandium tungstates  
   NT3 silver tungstates  
   NT3 sodium tungstates  
   NT3 strontium tungstates  
   NT3 tantalum tungstates  
   NT3 thallium tungstates  
   NT3 thorium tungstates  
   NT3 tin tungstates  
   NT3 titanium tungstates  
   NT3 uranium tungstates  
   NT3 uranyl tungstates  
   NT3 vanadium tungstates  
   NT3 ytterbium tungstates  
   NT3 yttrium tungstates  
   NT3 zinc tungstates  
   NT3 zirconium tungstates  
 NT2 tungsten borides  
 NT2 tungsten carbides  
 NT2 tungsten halides  
   NT3 tungsten bromides  
   NT3 tungsten chlorides  
   NT3 tungsten fluorides  
   NT3 tungsten iodides  
 NT2 tungsten hydrides  
 NT2 tungsten hydroxides  
 NT2 tungsten nitrides  
 NT2 tungsten oxides  
   NT3 sodium tungsten bronze  
 NT2 tungsten phosphides  
 NT2 tungsten selenides  
 NT2 tungsten silicides  
 NT2 tungsten sulfides  
 NT2 tungsten tellurides  
 NT2 tungstophosphates  
 NT2 tungstophosphoric acid  
 NT1 vanadium compounds  
 NT2 vanadates  
   NT3 potassium vanadates  
   NT3 uranium vanadates  
 NT2 vanadium arsenides  
 NT2 vanadium borides  
 NT2 vanadium carbides  
 NT2 vanadium halides  
   NT3 vanadium bromides  
   NT3 vanadium chlorides  
   NT3 vanadium fluorides  
   NT3 vanadium iodides  
 NT2 vanadium hydrides  
 NT2 vanadium hydroxides  
 NT2 vanadium nitrates  
 NT2 vanadium nitrides  
 NT2 vanadium oxides  
 NT2 vanadium phosphates  
 NT2 vanadium phosphides  
 NT2 vanadium selenides  
 NT2 vanadium silicates  
 NT2 vanadium silicides  
 NT2 vanadium sulfates  
 NT2 vanadium sulfides  
 NT2 vanadium tellurides  
 NT2 vanadium tungstates  
 NT1 yttrium compounds  
 NT2 yttrium arsenides  
 NT2 yttrium borides  
 NT2 yttrium carbides  
 NT2 yttrium carbonates  
 NT2 yttrium halides  
   NT3 yttrium bromides  
   NT3 yttrium chlorides  
   NT3 yttrium fluorides  
   NT3 yttrium iodides  
 NT2 yttrium hydrides  
 NT2 yttrium hydroxides  
 NT2 yttrium nitrates  
 NT2 yttrium nitrides  
 NT2 yttrium oxides  
   NT3 alloy-in-853  
 NT2 yttrium perchlorates  
 NT2 yttrium phosphates  
 NT2 yttrium phosphides  
 NT2 yttrium selenides  
 NT2 yttrium silicates  
 NT2 yttrium silicides  
 NT2 yttrium sulfates  
 NT2 yttrium sulfides  
 NT2 yttrium tellurides  
 NT2 yttrium tungstates  
 NT1 zirconium compounds  
 NT2 zirconates  
   NT3 plzt  
   NT3 pzt  
 NT2 zirconium arsenides  
 NT2 zirconium borides  
 NT2 zirconium carbides  
 NT2 zirconium carbonates  
 NT2 zirconium halides  
   NT3 zirconium bromides  
   NT3 zirconium chlorides  
   NT3 zirconium fluorides  
   NT3 zirconium iodides  
 NT2 zirconium hydrides  
 NT2 zirconium hydroxides  
 NT2 zirconium nitrates  
 NT2 zirconium nitrides  
 NT2 zirconium oxides  
 NT2 zirconium perchlorates  
 NT2 zirconium phosphates  
 NT2 zirconium phosphides

NT2 zirconium selenides  
 NT2 zirconium silicates  
 NT2 zirconium silicides  
 NT2 zirconium sulfates  
 NT2 zirconium sulfides  
 NT2 zirconium tellurides  
 NT2 zirconium tungstates

**TRANSITION ELEMENTS**

*UF transition metals*  
 \*BT1 metals  
 NT1 chromium  
 NT1 cobalt  
 NT1 copper  
 NT1 gold  
 NT1 hafnium  
 NT2 hafnium-alpha  
 NT2 hafnium-beta  
 NT1 iron  
 NT2 iron-alpha  
 NT2 iron-delta  
 NT2 iron-gamma  
 NT1 manganese  
 NT2 manganese-alpha  
 NT1 molybdenum  
 NT1 nickel  
 NT1 niobium  
 NT2 niobium-alpha  
 NT2 niobium-beta  
 NT1 platinum metals  
 NT2 iridium  
 NT2 osmium  
 NT2 palladium  
 NT2 platinum  
 NT2 rhodium  
 NT2 ruthenium  
 NT1 rhenium  
 NT1 scandium  
 NT1 silver  
 NT1 tantalum  
 NT1 technetium  
 NT1 titanium  
 NT2 titanium-alpha  
 NT2 titanium-beta  
 NT1 tungsten  
 NT2 tungsten-alpha  
 NT1 vanadium  
 NT1 yttrium  
 NT1 zirconium  
 NT2 zirconium-alpha  
 NT2 zirconium-beta  
 NT2 zirconium-omega

**TRANSITION FLOW**

BT1 fluid flow

**TRANSITION HEAT**

*UF heat of transition*  
*UF latent heat of transition*  
 \*BT1 enthalpy  
 NT1 fusion heat  
 NT1 sublimation heat  
 NT1 vaporization heat  
 RT differential thermal analysis  
 RT phase change materials  
 RT phase transformations

**transition metals**

USE transition elements

**TRANSITION RADIATION**

\*BT1 electromagnetic radiation

**TRANSITION RADIATION DETECTORS**

*For detection of transition radiation emitted by particles going from one medium to another.*

\*BT1 radiation detectors

**TRANSITION TEMPERATURE**

*UF temperature (transition)*  
 \*BT1 thermodynamic properties  
 NT1 boiling points  
 NT1 critical temperature  
 NT1 curie point  
 NT1 dew point  
 NT1 lambda point  
 NT1 melting points  
 NT1 neel temperature  
 RT ductile-brittle transitions  
 RT phase transformations

**transitions (brittle-ductile)**

1998-10-23  
 USE brittle-ductile transitions

**transitions (ductile-brittle)**

USE ductile-brittle transitions

**transitions (energy level)**

USE energy-level transitions

**transitions (forbidden)**

USE forbidden transitions

**transitions (phase)**

USE phase transformations

**translation (computer codes)**

INIS: 1990-12-07; ETDE: 2002-06-13  
 USE translators

**translation (macromolecules)**

INIS: 1990-12-07; ETDE: 2002-06-13  
 USE biosynthesis

**translation (mathematics)**

INIS: 1990-12-07; ETDE: 2002-06-13  
 USE transformations

**translation (mechanical)**

INIS: 1990-12-07; ETDE: 2002-06-13  
 USE mechanics

**TRANSLATORS**

*Computer codes translating programs from one programming language into another.*

*UF translation (computer codes)*  
 BT1 computer codes  
 RT programming  
 RT programming languages

**TRANSLOCATION**

*See also RADIOACTIVITY TRANSPORT for the movement of and deposition of radioactive materials throughout a reactor.*

RT ions  
 RT kinetics  
 RT minerals  
 RT organic compounds  
 RT plant sap  
 RT plants  
 RT radionuclide migration  
 RT stable isotopes

**TRANSMISSION**

*Of particles and radiation through matter; see also DATA TRANSMISSION, MECHANICAL TRANSMISSIONS, or POWER TRANSMISSION.*

NT1 light transmission  
 RT absorption  
 RT attenuation  
 RT opacity

**transmission (data)**

USE data transmission

**transmission (energy)**

INIS: 2000-04-12; ETDE: 1976-05-17  
 SEE power transmission

**transmission (heat)**

USE heat transfer

**TRANSMISSION ELECTRON MICROSCOPY**

INIS: 1982-12-07; ETDE: 1979-01-30  
*UF tem (microscopy)*  
 \*BT1 electron microscopy

**transmission lines**

INIS: 2000-04-12; ETDE: 1979-03-27  
 USE power transmission lines

**transmission towers**

INIS: 2000-04-12; ETDE: 1976-08-05  
 USE power transmission towers

**TRANSMUTATION**

2000-03-14

*Of nuclides.*

*UF j-parc tef*  
*UF j-parc transmutation experimental facility*  
*UF nuclear transmutation*  
 NT1 accelerator-driven transmutation  
 RT breeding  
 RT isotope production

**TRANSONIC FLOW**

BT1 fluid flow  
 RT aerodynamics  
 RT compressible flow  
 RT shock waves  
 RT supersonic flow

**transparency**

USE opacity

**TRANSPIRATION**

*Plants only.*

RT evaporation  
 RT heat stress  
 RT leaves  
 RT physiology  
 RT plant sap  
 RT plants  
 RT stomata  
 RT water vapor

**transpiration (animal)**

USE sweat

**TRANSPLANTS**

NT1 grafts  
 RT chimeras  
 RT graft-host reaction  
 RT host  
 RT immunity  
 RT immunosuppression  
 RT plastic surgery  
 RT transfusions

**transplutoniides**

INIS: 1975-11-11; ETDE: 2002-06-13  
 USE transplutonium elements

**TRANSPLUTONIUM COMPLEXES**

2011-10-25

\*BT1 transuranium complexes  
 NT1 lawrencium complexes  
 NT1 transactinide complexes  
 NT2 rutherfordium complexes

**TRANSPLUTONIUM COMPOUNDS**

1980-05-14

BT1 transuranium compounds  
 NT1 americium compounds  
 NT2 americium arsenides  
 NT2 americium carbides  
 NT2 americium carbonates  
 NT2 americium halides  
 NT3 americium bromides



**NT3** americium chlorides  
**NT3** americium fluorides  
**NT3** americium iodides  
**NT2** americium hydrides  
**NT2** americium hydroxides  
**NT2** americium nitrates  
**NT2** americium nitrides  
**NT2** americium oxides  
**NT2** americium perchlorates  
**NT2** americium phosphates  
**NT2** americium phosphides  
**NT2** americium selenides  
**NT2** americium silicates  
**NT2** americium silicides  
**NT2** americium sulfates  
**NT2** americium sulfides  
**NT2** americium tellurides  
**NT1** berkelium compounds  
**NT2** berkelium arsenides  
**NT2** berkelium halides  
**NT3** berkelium bromides  
**NT3** berkelium chlorides  
**NT3** berkelium fluorides  
**NT2** berkelium hydrides  
**NT2** berkelium nitrates  
**NT2** berkelium nitrides  
**NT2** berkelium oxides  
**NT2** berkelium phosphates  
**NT2** berkelium phosphides  
**NT2** berkelium selenides  
**NT2** berkelium sulfates  
**NT2** berkelium sulfides  
**NT2** berkelium tellurides  
**NT1** californium compounds  
**NT2** californium arsenides  
**NT2** californium halides  
**NT3** californium bromides  
**NT3** californium chlorides  
**NT3** californium fluorides  
**NT3** californium iodides  
**NT2** californium nitrates  
**NT2** californium nitrides  
**NT2** californium oxides  
**NT2** californium selenides  
**NT2** californium sulfides  
**NT2** californium tellurides  
**NT1** curium compounds  
**NT2** curium arsenides  
**NT2** curium carbonates  
**NT2** curium halides  
**NT3** curium bromides  
**NT3** curium chlorides  
**NT3** curium fluorides  
**NT3** curium iodides  
**NT2** curium hydrides  
**NT2** curium hydroxides  
**NT2** curium nitrates  
**NT2** curium nitrides  
**NT2** curium oxides  
**NT2** curium phosphides  
**NT2** curium selenides  
**NT2** curium silicates  
**NT2** curium sulfides  
**NT2** curium tellurides  
**NT1** einsteinium compounds  
**NT2** einsteinium halides  
**NT3** einsteinium bromides  
**NT3** einsteinium chlorides  
**NT3** einsteinium fluorides  
**NT3** einsteinium iodides  
**NT2** einsteinium nitrates  
**NT2** einsteinium oxides  
**NT1** fermium compounds  
**NT2** fermium halides  
**NT3** fermium bromides  
**NT3** fermium chlorides  
**NT3** fermium iodides  
**NT2** fermium oxides  
**NT1** lawrencium compounds

**NT1** mendelevium compounds  
**NT2** mendelevium oxides  
**NT1** nobelium compounds  
**NT2** nobelium oxides  
**NT1** transactinide compounds  
**NT2** bohrium compounds  
**NT2** copernicium compounds  
**NT2** darmstadtium compounds  
**NT2** dubnium compounds  
**NT2** flerovium compounds  
**NT2** hassium compounds  
**NT2** meitnerium compounds  
**NT2** nihonium compounds  
**NT2** roentgenium compounds  
**NT2** rutherfordium compounds  
**NT3** rutherfordium halides  
**NT4** rutherfordium chlorides  
**NT2** seaborgium compounds

## TRANSPLUTONIUM ELEMENTS

*UF transplutonides*  
**\*BT1** transuranium elements  
**NT1** americium  
**NT1** berkelium  
**NT1** californium  
**NT1** curium  
**NT1** einsteinium  
**NT1** fermium  
**NT1** lawrencium  
**NT1** mendelevium  
**NT1** nobelium  
**NT1** transactinide elements  
**NT2** bohrium  
**NT2** copernicium  
**NT2** darmstadtium  
**NT2** dubnium  
**NT2** element 119  
**NT2** element 120  
**NT2** element 124  
**NT2** element 126  
**NT2** element 128  
**NT2** element 134  
**NT2** element 145  
**NT2** element 164  
**NT2** element 173  
**NT2** flerovium  
**NT2** hassium  
**NT2** livermorium  
**NT2** meitnerium  
**NT2** moscovium  
**NT2** nihonium  
**NT2** oganesson  
**NT2** roentgenium  
**NT2** rutherfordium  
**NT2** seaborgium  
**NT2** tennessine  
*RT actinides*

## TRANSPORT

*Limited to the movement of goods and persons. For other types of transport, see descriptors such as ENVIRONMENTAL TRANSPORT, RADIATION TRANSPORT, RADIONUCLIDE MIGRATION, and RADIONUCLIDE KINETICS.*

*UF shipment*  
*UF space transport*  
*SF public transport*  
*SF travel*  
**NT1** air transport  
**NT2** supersonic transport  
**NT1** hydraulic transport  
**NT1** land transport  
**NT2** rail transport  
**NT2** road transport  
**NT1** maritime transport  
**NT1** pneumatic transport  
*RT* arctic gas pipelines  
*RT* barges  
*RT* cargo

*RT* chain conveyors  
*RT* containers  
*RT* conveyors  
*RT* deep water oil terminals  
*RT* delivery  
*RT* inland waterways  
*RT* lightering  
*RT* mass transit systems  
*RT* materials handling  
*RT* materials handling equipment  
*RT* mine cars  
*RT* navigation  
*RT* nuclear trade  
*RT* packaging  
*RT* packaging rules  
*RT* pipelines  
*RT* propulsion  
*RT* rapid transit systems  
*RT* roads  
*RT* storage  
*RT* tourism  
*RT* transport regulations  
*RT* transportation sector  
*RT* transportation systems  
*RT* vehicles  
*RT* waste transportation

### transport (atoms)

1999-03-17

USE atom transport

### transport (beam)

INIS: 1987-11-02; ETDE: 2002-06-13

USE beam transport

### transport (charged-particle)

USE charged-particle transport

### transport (energy)

INIS: 2000-04-12; ETDE: 1976-05-17

SEE natural gas distribution systems

SEE pipelines

SEE power transmission

### transport (environmental radionuclides)

INIS: 1993-11-10; ETDE: 2002-06-13

USE radionuclide migration

### transport (environmental)

INIS: 2000-04-12; ETDE: 1985-03-12

SEE environmental transport

### transport (gamma)

USE photon transport

### transport (in organisms)

2000-04-12

USE radionuclide kinetics

### transport (neutral-particle)

INIS: 1975-09-09; ETDE: 2002-06-13

USE neutral-particle transport

### transport (neutron)

USE neutron transport

### transport (photon)

USE photon transport

### transport (proton)

USE proton transport

### transport (radiation)

USE radiation transport

### transport (radionuclides in biological systems)

INIS: 1993-11-10; ETDE: 2002-06-13

USE radionuclide kinetics

**transport (radionuclides in organisms)**

INIS: 1993-11-10; ETDE: 2002-06-13  
USE radionuclide kinetics

**transport (reaction product)**

USE reaction product transport systems

**transport insurance**

USE insurance

**TRANSPORT REGULATIONS**

\*BT1 regulations

RT maritime laws

RT nuclear ship visits

RT transport

**TRANSPORT THEORY**

1996-07-23

SF *slaggie model*

NT1 charged-particle transport theory

NT2 neoclassical transport theory

NT2 spitzer theory

NT1 gamma transport theory

NT1 nelkin theory

NT1 neutron transport theory

NT2 multigroup theory

NT2 one-group theory

RT atom transport

RT boltzmann equation

RT boltzmann-vlasov equation

RT case method

RT chapman-enskog theory

RT chapman-ferraro problem

RT discrete ordinate method

RT feynman method

RT fokker-planck equation

RT grad-shafranov equation

RT invariant imbedding

RT moments method

RT monte carlo method

RT poincare-bertrand formula

RT radiation transport

RT scattering

RT van hove theory

RT wick-chandrasekhar method

RT young model

RT yvon method

**TRANSPORTABLE REACTORS**

*Capable of being moved when not critical and possibly partly dismantled.*

BT1 reactors

NT1 package reactors

NT1 tibr reactor

**transportation routes**

INIS: 2000-04-12; ETDE: 1983-09-15

USE routing

**TRANSPORTATION SECTOR**

INIS: 1998-11-12; ETDE: 1977-07-23

SF *end use sector*

RT sectoral analysis

RT taxicabs

RT transport

RT transportation systems

**TRANSPORTATION SYSTEMS**

1992-09-09

NT1 mass transit systems

NT1 private vehicles

NT1 rapid transit systems

RT airports

RT buses

RT carpooling

RT taxicabs

RT trains

RT transport

RT transportation sector

RT vanpooling

**TRANSPOSONS**

INIS: 1991-07-02; ETDE: 1987-12-17

*Portions of DNA carrying repeated terminal sequences which confer to the segment the capability of jumping around within the genome.*

RT dna-cloning

RT genes

RT genetic engineering

RT genetic variability

RT plasmids

**TRANSURANIUM COMPLEXES**

1996-07-18

BT1 complexes

NT1 americium complexes

NT1 berkelium complexes

NT1 californium complexes

NT1 curium complexes

NT1 einsteinium complexes

NT1 fermium complexes

NT1 mendeleevium complexes

NT1 neptunium complexes

NT2 neptunyl complexes

NT1 nobelium complexes

NT1 plutonium complexes

NT2 plutonyl complexes

NT1 transplutonium complexes

NT2 lawrencium complexes

NT2 transactinide complexes

NT3 rutherfordium complexes

**TRANSURANIUM COMPOUNDS**

NT1 neptunium compounds

NT2 neptunium arsenides

NT2 neptunium borides

NT2 neptunium carbides

NT2 neptunium carbonates

NT2 neptunium halides

NT3 neptunium bromides

NT3 neptunium chlorides

NT3 neptunium fluorides

NT3 neptunium iodides

NT2 neptunium hydrides

NT2 neptunium hydroxides

NT2 neptunium nitrates

NT2 neptunium nitrides

NT2 neptunium oxides

NT2 neptunium perchlorates

NT2 neptunium phosphates

NT2 neptunium phosphides

NT2 neptunium selenides

NT2 neptunium sulfates

NT2 neptunium sulfides

NT2 neptunium tellurides

NT2 neptunyl compounds

NT1 plutonium compounds

NT2 plutonium arsenides

NT2 plutonium borides

NT2 plutonium carbides

NT2 plutonium carbonates

NT2 plutonium halides

NT3 plutonium bromides

NT3 plutonium chlorides

NT3 plutonium fluorides

NT3 plutonium iodides

NT2 plutonium hydrides

NT2 plutonium hydroxides

NT2 plutonium nitrates

NT2 plutonium nitrides

NT2 plutonium oxides

NT3 plutonium dioxide

NT2 plutonium perchlorates

NT2 plutonium peroxide

NT2 plutonium phosphates

NT2 plutonium phosphides

NT2 plutonium selenides

NT2 plutonium silicates

NT2 plutonium sulfates

NT2 plutonium sulfides

NT2 plutonium tellurides

NT2 plutonyl compounds

NT1 transplutonium compounds

NT2 americium compounds

NT3 americium arsenides

NT3 americium carbides

NT3 americium carbonates

NT3 americium halides

NT4 americium bromides

NT4 americium chlorides

NT4 americium fluorides

NT4 americium iodides

NT3 americium hydrides

NT3 americium hydroxides

NT3 americium nitrates

NT3 americium nitrides

NT3 americium oxides

NT3 americium perchlorates

NT3 americium phosphates

NT3 americium phosphides

NT3 americium selenides

NT3 americium silicates

NT3 americium silicides

NT3 americium sulfates

NT3 americium sulfides

NT3 americium tellurides

NT2 berkelium compounds

NT3 berkelium arsenides

NT3 berkelium halides

NT4 berkelium bromides

NT4 berkelium chlorides

NT4 berkelium fluorides

NT3 berkelium hydrides

NT3 berkelium nitrates

NT3 berkelium nitrides

NT3 berkelium oxides

NT3 berkelium phosphates

NT3 berkelium phosphides

NT3 berkelium selenides

NT3 berkelium sulfates

NT3 berkelium sulfides

NT3 berkelium tellurides

NT2 californium compounds

NT3 californium arsenides

NT3 californium halides

NT4 californium bromides

NT4 californium chlorides

NT4 californium fluorides

NT4 californium iodides

NT3 californium nitrates

NT3 californium nitrides

NT3 californium oxides

NT3 californium selenides

NT3 californium sulfides

NT3 californium tellurides

NT2 curium compounds

NT3 curium arsenides

NT3 curium carbonates

NT3 curium halides

NT4 curium bromides

NT4 curium chlorides

NT4 curium fluorides

NT4 curium iodides

NT3 curium hydrides

NT3 curium hydroxides

NT3 curium nitrates

NT3 curium nitrides

NT3 curium oxides

NT3 curium phosphides

NT3 curium selenides

NT3 curium silicates

NT3 curium sulfides

NT3 curium tellurides

NT2 einsteinium compounds

NT3 einsteinium halides

NT4 einsteinium bromides

NT4 einsteinium chlorides

NT4 einsteinium fluorides

- NT4 einsteinium iodides
- NT3 einsteinium nitrates
- NT3 einsteinium oxides
- NT2 fermium compounds
  - NT3 fermium halides
  - NT4 fermium bromides
  - NT4 fermium chlorides
  - NT4 fermium iodides
  - NT3 fermium oxides
- NT2 lawrencium compounds
- NT2 mendelevium compounds
  - NT3 mendelevium oxides
- NT2 nobelium compounds
  - NT3 nobelium oxides
- NT2 transactinide compounds
  - NT3 bohrium compounds
  - NT3 copernicium compounds
  - NT3 darmstadtium compounds
  - NT3 dubnium compounds
  - NT3 flerovium compounds
  - NT3 hassium compounds
  - NT3 meitnerium compounds
  - NT3 nihonium compounds
  - NT3 roentgenium compounds
  - NT3 rutherfordium compounds
    - NT4 rutherfordium halides
    - NT5 rutherfordium chlorides
  - NT3 seaborgium compounds

**TRANSURANIUM ELEMENTS**

- BT1 elements
- NT1 neptunium
  - NT2 neptunium-alpha
  - NT2 neptunium-gamma
- NT1 plutonium
  - NT2 plutonium-alpha
  - NT2 plutonium-beta
  - NT2 plutonium-delta
  - NT2 plutonium-epsilon
  - NT2 plutonium-gamma
- NT1 transplutonium elements
  - NT2 americium
  - NT2 berkelium
  - NT2 californium
  - NT2 curium
  - NT2 einsteinium
  - NT2 fermium
  - NT2 lawrencium
  - NT2 mendelevium
  - NT2 nobelium
  - NT2 transactinide elements
    - NT3 bohrium
    - NT3 copernicium
    - NT3 darmstadtium
    - NT3 dubnium
    - NT3 element 119
    - NT3 element 120
    - NT3 element 124
    - NT3 element 126
    - NT3 element 128
    - NT3 element 134
    - NT3 element 145
    - NT3 element 164
    - NT3 element 173
    - NT3 flerovium
    - NT3 hassium
    - NT3 livermorium
    - NT3 meitnerium
    - NT3 moscovium
    - NT3 nihonium
    - NT3 oganesson
    - NT3 roentgenium
    - NT3 rutherfordium
    - NT3 seaborgium
    - NT3 tennessine

RT actinides

**transuranium wastes**

INIS: 2000-04-12; ETDE: 1981-01-09  
 USE alpha-bearing wastes

**TRANSVAAL**

- \*BT1 south africa
- RT witwatersrand

**TRANSVERSE ENERGY**

INIS: 1989-04-20; ETDE: 1989-01-26  
*The kinetic energy of any particle, or group of particles, detected during a particle/target or beam/target interaction at a nonzero angle measured with respect to the initial particle or beam direction.*

- \*BT1 kinetic energy
- RT angular distribution
- RT anisotropy
- RT energy spectra
- RT nuclear reactions
- RT particle interactions
- RT transverse momentum

**TRANSVERSE MOMENTUM**

- UF momentum (transverse)
- BT1 linear momentum
- RT center-of-mass system
- RT interactions
- RT longitudinal momentum
- RT nuclear reactions
- RT particle interactions
- RT straight-line path approximation
- RT transverse energy

**TRAPPED ELECTRONS**

- \*BT1 electrons
- RT electron precipitation

**TRAPPED-PARTICLE INSTABILITY**

- \*BT1 plasma macroinstabilities
- RT banana regime
- RT closed plasma devices

**TRAPPED PROTONS**

- INIS: 1977-04-07; ETDE: 1977-06-03
- \*BT1 protons
  - RT aurorae
  - RT proton precipitation

**TRAPPING**

1996-07-23  
*Includes trapping of electrons or holes in lattices and trapping of particles in fields.*

- NT1 banana regime
- RT crystal lattices
- RT greenhouse effect
- RT holes
- RT magnetic fields
- RT plateau regime

**TRAPS**

*Equipment for trapping of electrons or holes in lattices and trapping of particles in fields; see also FILTERS.*

- NT1 cold traps
- NT1 steam traps
- RT deep level transient spectroscopy
- RT electrons
- RT holes
- RT luminescence
- RT photoconductivity
- RT photolysis
- RT semiconductor materials
- RT vacancies

**trauma**

- USE injuries

**traumatic shock**

- USE biological shock
- USE injuries

**TRAVALE GEOTHERMAL FIELD**

- INIS: 2000-04-12; ETDE: 1985-12-11
- BT1 geothermal fields
  - RT italy

- RT vapor-dominated systems

**travel**

INIS: 2000-04-12; ETDE: 1983-03-23  
 (Prior to January 1995, this was a valid ETDE descriptor.)

- SEE transport

**TRAVELLING IONOSPHERIC DISTURBANCE**

- UF tid
- \*BT1 ionospheric storms
- RT ionosphere

**TRAVELLING WAVE TUBES**

- \*BT1 microwave tubes
- RT rf systems

**TRAVELLING WAVES**

- UF waves (travelling)
- RT electromagnetic radiation
- RT mechanical vibrations
- RT standing waves
- RT wave propagation
- RT waveguides

**TRAVERTINE**

INIS: 2000-04-12; ETDE: 1976-01-23  
*A calcium carbonate deposited from solution in ground and surface waters.*

- \*BT1 limestone
- RT calcium carbonates

**TRAWSFYNYDD REACTOR**

*Merionethshire, Wales, United Kingdom. TRAWSFYNYDD-1 and 2 are permanently shut down since 1991.*

- \*BT1 carbon dioxide cooled reactors
- \*BT1 magnox type reactors
- \*BT1 thermal reactors

**trce(thermionic reactor critical experiments)**

2000-04-12  
 USE thermionic reactors  
 USE zero power reactors

**TREAT REACTOR**

ANL/INEEL, Idaho, USA.  
 UF transient reactor test facility

- \*BT1 air cooled reactors
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 graphite moderated reactors
- \*BT1 solid homogeneous reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**TREATIES**

1998-06-10

- NT1 bangkok treaty
- NT1 ctb
- NT1 fmct
- NT1 non-proliferation treaty
- NT1 pelindaba treaty
- NT1 rarotonga treaty
- NT1 tlattelolco treaty
- RT international agreements
- RT international laws
- RT negotiation
- RT salt talks
- RT verification

**treatment (therapy)**

- USE therapy

**treaty for prohibition of nuclear weapons in latin america**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE tlattelolco treaty

**TREE RINGS**

INIS: 1993-06-03; ETDE: 1976-06-07

SF growth rings  
RT trees

**TREES**

1997-06-17

(From June 1981 till March 1997

COPAIFERA was a valid ETDE descriptor.)

UF *betula*  
UF *copaiba*  
UF *copaifera*  
UF *honeylocust trees*  
UF *mahogany trees*  
BT1 plants  
NT1 beech trees  
NT1 birches  
NT1 cacao trees  
NT1 cedars  
NT1 chestnut trees  
NT1 coconut palms  
NT1 deciduous trees  
NT1 eucalyptuses  
NT1 firs  
NT1 fruit trees  
NT1 locust trees  
NT1 mangroves  
NT1 maples  
NT1 mesquite  
NT1 oaks  
NT1 oil palms  
NT1 olive trees  
NT1 pecan trees  
NT1 pines  
NT1 poplars  
NT2 aspens  
NT2 cottonwoods  
NT1 rubber trees  
NT2 guayule  
NT2 hevea  
NT1 spruces  
NT1 sweet gums  
NT1 sycamores  
NT1 willows  
RT bark  
RT canopies  
RT conifers  
RT forests  
RT preferred species  
RT short rotation cultivation  
RT silviculture  
RT tree rings  
RT wood  
RT wood fuels  
RT xylans

**TREMATODES**

UF *flukes (trematodes)*  
BT1 parasites  
\*BT1 plathyhelminths  
NT1 fasciola  
NT1 schistosoma

**tretamine**

USE alkylating agents

**TRH**

UF *thyrotropin-releasing hormone*  
\*BT1 peptide hormones  
RT hypothalamus  
RT tsh

**tri-2-ethylhexyl phosphate**

INIS: 2000-04-12; ETDE: 1982-12-01

USE phosphoric acid esters

**tri-gas process**

INIS: 2000-04-12; ETDE: 1977-04-12

*The Bituminous Coal Research, Inc. process using two-stage super-pressure entraining gasifier.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**tri-university meson facility**

INIS: 1993-11-10; ETDE: 1980-05-23

USE triumph cyclotron

**TRIACETONEAMINE-N-OXYL**

UF *tan (triacetoneamine-n-oxyl)*  
UF *tetramethyl-4-piperidone-n-oxyl*  
\*BT1 ketones  
\*BT1 organic oxygen compounds  
\*BT1 piperidines  
\*BT1 radiosensitizers

**TRIAM-1 TOKAMAK**

1983-03-15

\*BT1 tokamak devices

**TRIANGULAR CONFIGURATION**

BT1 configuration

**TRIASSIC PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

\*BT1 mesozoic era

**TRIAZINES**

*Compounds that contain a six-membered heterocyclic ring containing three nitrogen atoms.*

\*BT1 azines  
NT1 cyanurates  
NT1 melamine  
RT atrazine

**TRIAZOLES**

*Compounds that contain a five-membered heterocyclic ring containing three nitrogen atoms.*

\*BT1 azoles

**TRIBALLOY 400**

INIS: 2000-04-12; ETDE: 1979-08-07

\*BT1 chromium alloys  
\*BT1 cobalt base alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys

**triballoy 700**

INIS: 1997-01-28; ETDE: 1978-10-23

(Until October 1996 this was a valid descriptor.)

USE alloy-ni50mo32cr15si3

**TRIBALLOY 800**

INIS: 1993-10-03; ETDE: 1979-08-07

\*BT1 chromium alloys  
\*BT1 cobalt base alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 silicon alloys

**TRIBOLIUM**

\*BT1 beetles

**TRIBOLOGY**

INIS: 1992-02-26; ETDE: 1978-04-05  
*Science dealing with physical, chemical, and metallurgical phenomena of interacting surfaces in relative motion.*

RT bearings  
RT friction  
RT lubricants  
RT lubricating oils

RT lubrication  
RT surface properties  
RT wear

**tributyl phosphate**

USE tbp

**TRIBUTYLPHOSPHINE OXIDE**

ETDE: 2005-02-01

(Prior to January 2005 TBPO was used for this concept.)

UF *tbpo (tributylphosphine oxide)*  
\*BT1 organic phosphorus compounds  
\*BT1 phosphine oxides

**tricarballic acid**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE carboxylic acids

**TRICASTIN-1 REACTOR**

INIS: 1985-10-22; ETDE: 1985-11-13

*Electricite de France, Saint-Paul-Trois-Chateaux, Drome, France*

\*BT1 pwr type reactors

**TRICASTIN-2 REACTOR**

2010-07-06

*Electricite de France, Saint-Paul-Trois-Chateaux, Drome, France*

\*BT1 pwr type reactors

**TRICASTIN-3 REACTOR**

2010-07-06

*Electricite de France, Saint-Paul-Trois-Chateaux, Drome, France*

\*BT1 pwr type reactors

**TRICASTIN-4 REACTOR**

INIS: 1988-04-15; ETDE: 1988-05-23

*Electricite de France, Saint-Paul-Trois-Chateaux, Drome, France*

\*BT1 pwr type reactors

**TRICHINELLA**

\*BT1 nematodes  
BT1 parasites  
RT meat  
RT trichinosis

**TRICHINOSIS**

\*BT1 parasitic diseases  
RT gastrointestinal tract  
RT inflammation  
RT muscles  
RT trichinella

**trichloroacetaldehyde**

USE chloral

**TRICHLOROACETIC ACID**

2014-03-28

\*BT1 chlorinated aliphatic hydrocarbons  
\*BT1 monocarboxylic acids

**trichloromethane**

1982-02-09

USE chloroform

**TRICHODERMA**

INIS: 1991-12-16; ETDE: 1978-03-03

\*BT1 eumycota  
NT1 trichoderma viride

**trichoderma reesei**

INIS: 1991-12-16; ETDE: 1979-03-28

USE trichoderma viride

**TRICHODERMA VIRIDE**

INIS: 1991-12-16; ETDE: 1977-11-29

UF *trichoderma reesei*  
\*BT1 trichoderma

**TRICKLE-TYPE COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-09-11

UF open-flow collectors

UF thomason collectors

\*BT1 flat plate collectors

**TRICLINIC LATTICES**

\*BT1 three-dimensional lattices

**trico i reactor**

2018-06-04

USE trico reactor

**TRICO II REACTOR**

2018-06-04

Kinshasa, Democratic Republic of the Congo.

Extended shutdown since 2004.

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 triga type reactors

**TRICO REACTOR**

Kinshasa, Democratic Republic of the Congo.

Permanent shutdown since 1970.

UF congo kinshasa triga reactor

UF trico i reactor

UF triga-congo reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 triga type reactors

**triclesyl phosphates**

USE tcp

**TRIDENT FACILITY**

INIS: 1999-07-26; ETDE: 1999-09-03

Neodymium laser facility at LANL.

RT lanl

RT laser fusion reactors

RT neodymium lasers

**TRIDODECYLAMINE**

UF trilaurylamine

\*BT1 amines

BT1 chelating agents

**triethylenemelamine**

USE alkylating agents

**triethylenetetraaminehexaacetic acid**

1995-02-16

USE tetaha

**triethylenetetramine**

USE teta

**TRIGA-1-ARIZONA REACTOR**

INIS: 1988-11-16; ETDE: 1987-04-08

Univ. of Arizona, Tucson, Arizona, USA.

(Prior to December 1988 this material was

indexed to TRIGA-1-ARIZONA.)

\*BT1 triga type reactors

**TRIGA-1-CALIFORNIA REACTOR**

ETDE: 1978-03-03

Univ. of California, Irvine, California, USA.

UF california irvine triga-mk-1 reactor

UF irvine triga-mk-1 reactor

UF irvine triga reactor

UF ucirr reactor

UF university of california irvine reactor

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-1-HANFORD REACTOR**

INIS: 1979-09-18; ETDE: 1979-01-30

Westinghouse-Hanford-300, Richland,  
Washington, USA.

UF hanford neutron radiography facility

\*BT1 materials testing reactors

\*BT1 triga type reactors

**TRIGA-1-HANOVER REACTOR**

1991-07-02

Decommissioned since 2008.

UF frh reactor

UF hannover triga-mk-1 reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-1-HEIDELBERG REACTOR**

Decommissioned since 2006.

UF heidelberg triga-mk-1-dkfz reactor

UF triga-mark-i-dkfz heidelberg reactor

UF triga-mk-1-dkfz heidelberg reactor

SF triga-2-heidelberg reactor

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-1-MICHIGAN REACTOR**

INIS: 1976-02-11; ETDE: 1977-01-31

Michigan State Univ., East Lansing,  
Michigan, USA. Shut down in 1988;

decommissioned.

(Prior to November 1990 this concept was  
indexed to MICHIGAN STATE TRIGA MK-  
1 REACTOR by ETDE.)

UF michigan state triga-mk-1 reactor

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 triga type reactors

**TRIGA-2-BANDUNG REACTOR**

1995-01-10

UF indonesian triga-mk-2 reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-BANGLADESH REACTOR**

INIS: 1999-09-24; ETDE: 1999-11-30

Atomic Energy Research Establishment,  
Dhaka, Bangladesh.

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**triga-2-cornell reactor**

INIS: 1984-06-25; ETDE: 2002-06-13

USE cornell triga-mk-2 reactor

**TRIGA-2-DALAT REACTOR**

Institute of Nuclear Research, Dalat, Viet-  
Nam.

UF dalat triga-mk-2 reactor

UF vietnamese triga-mk-2 reactor

UF vietnamese triga-mk-ii reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**triga-2-heidelberg reactor**

INIS: 2000-04-12; ETDE: 1975-08-19

SEE triga-1-heidelberg reactor

**TRIGA-2-ILLINOIS REACTOR**

Univ. of Illinois, Urbana, Illinois, USA.

UF illinois university triga-mk-2 reactor

UF university of illinois triga-mk-2  
reactor

UF university of illinois triga-mk-ii  
reactor

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-KANSAS REACTOR**

Kansas State Univ., Manhattan, Kansas, USA.

UF kansas state university triga mk-2  
reactor

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-LJUBLJANA REACTOR**

1997-11-11

J. Stefan Institute, Ljubljana, Slovenia.

UF ljubljana triga-mk-2 reactor

UF yugoslav triga-mk-2 reactor

UF yugoslav triga-mk-ii reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-MAINZ REACTOR**

Institut fuer Kernchemie, Univ. Mainz, Mainz,  
F.R. Germany.

UF german (mainz) triga-mk-2 reactor

UF mainz triga-mk-2 reactor

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-MUSASHI REACTOR**

Musashi Institute of Technology Univ.,  
Kawasaki, Kanagawa, Japan.

UF musashi institute of technology triga  
reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-PAVIA REACTOR**

Pavia, Italy.

UF lena triga-mk-2 pulsed reactor

UF pavia triga-mk-2 reactor

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 triga type reactors

**TRIGA-2-PITESTI REACTOR**

1999-09-24

Institute for Nuclear Power Research, Pitesti,  
Romania.

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2 REACTOR**

UF triga-mark-ii reactor

UF triga-mk-2 reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-RIKKYO REACTOR**

Institute for Atomic Energy, Rikkyo Univ.,  
Yokosuka, Kanagawa, Japan.

UF rikkyo university triga-mk-2 reactor

UF rikkyo university triga-mk-ii reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-ROME REACTOR**

- UF *italian triga-mark-ii reactor*  
 UF *italian triga-mk-2 reactor*  
 UF *rc-1 reactor*  
 UF *reattore casaccia-1*  
 UF *rome triga-mk-2 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-2-SEOUL REACTOR**

- KAERI, Cheong Ryang, Seoul, Republic of Korea.  
 UF *korean triga-mk-2 reactor*  
 UF *seoul triga-mk-2 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-2-VIENNA REACTOR**

- Atominstutute of the Austrian Universities/Austrian Fed. Min. of Science and Research, Vienna, Austria.  
 UF *austrian triga-mark-ii reactor*  
 UF *austrian triga-mk-2 reactor*  
 UF *vienna triga-mk-2 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**triga-3-gulf reactor**

- INIS: 1984-06-25; ETDE: 2002-06-13  
 USE *gulf triga-mk-3 reactor*

**TRIGA-3-LA JOLLA REACTOR**

- La Jolla, California, USA.  
 UF *la jolla triga-mk-3 reactor*  
 UF *torrey pines triga-mark-3 reactor*  
 UF *torrey pines triga-mk-3 reactor*  
 \*BT1 triga type reactors

**TRIGA-3-MUNICH REACTOR**

- 2000-04-12  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-3-SALAZAR REACTOR**

- UF *mexican triga-mark-3 reactor*  
 UF *mexican triga-mk-3 reactor*  
 UF *salazar triga-mk-3 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-3-SEOUL REACTOR**

- 1980-07-24  
 KAERI, Cheong Ryang, Seoul, Republic of Korea.  
 UF *korean triga-mk-3 reactor*  
 UF *seoul triga-mk-3 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-BRAZIL REACTOR**

- Instituto de Pesquisas Radioativas Nuclebras, Cidade Universitaria-Pampulma, Minas Gerais, Brazil.  
 UF *brazil triga reactor*  
 UF *ipr-1 reactor*  
 UF *minas gerais university triga reactor*  
 UF *university minas gerais triga reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**triga-congo reactor**

- USE *trico reactor*

**triga-f-dasa reactor**

- USE *afri reactor*

**triga-mark-i-dkzf heidelberg reactor**

- 2000-04-12  
 USE *triga-1-heidelberg reactor*

**triga-mark-ii reactor**

- 2000-04-12  
 USE *triga-2 reactor*

**triga-mk-1-dkzf heidelberg reactor**

- INIS: 1993-11-10; ETDE: 2002-06-13  
 USE *triga-1-heidelberg reactor*

**triga-mk-2 reactor**

- ETDE: 2002-06-13  
 See also specific reactors of this type, e.g. CORNELL TRIGA-MK-2 REACTOR.  
 USE *triga-2 reactor*

**triga-mk-3 reactor**

- 2000-04-12  
 SEE *atpr reactor*  
 SEE *colorado triga-mk-3 reactor*

**triga-mk-f prototype reactor**

- 2000-04-12  
 USE *atpr reactor*

**triga-pennsylvania reactor**

- USE *psbr reactor*

**triga puspati reactor**

- 1984-12-04  
 USE *rtp reactor*

**TRIGA-TEXAS REACTOR**

- Balcones Research Center, Univ. of Texas, near Austin, Texas, USA. Shut down in 1988.  
 UF *texas university triga reactor*  
 UF *university of texas triga reactor*  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA TYPE REACTORS**

- 1995-01-10  
 \*BT1 enriched uranium reactors  
 \*BT1 hydride moderated reactors  
 \*BT1 research and test reactors  
 \*BT1 solid homogeneous reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 NT1 *afri reactor*  
 NT1 *atpr reactor*  
 NT1 *colorado triga-mk-3 reactor*  
 NT1 *cornell triga-mk-2 reactor*  
 NT1 *dow triga-mk-1 reactor*  
 NT1 *fir-1 reactor*  
 NT1 *fir-2 reactor*  
 NT1 *frn reactor*  
 NT1 *gulf triga-mk-3 reactor*  
 NT1 *kartini-ppny reactor*  
 NT1 *lopra reactor*  
 NT1 *nscr reactor*  
 NT1 *ostr reactor*  
 NT1 *prpr reactor*  
 NT1 *psbr reactor*  
 NT1 *rtp reactor*  
 NT1 *trico ii reactor*  
 NT1 *trico reactor*  
 NT1 *triga-1-arizona reactor*  
 NT1 *triga-1-california reactor*  
 NT1 *triga-1-hanford reactor*  
 NT1 *triga-1-hanover reactor*  
 NT1 *triga-1-heidelberg reactor*  
 NT1 *triga-1-michigan reactor*  
 NT1 *triga-2-bandung reactor*  
 NT1 *triga-2-bangladesh reactor*

- NT1 *triga-2-dalat reactor*  
 NT1 *triga-2-illinois reactor*  
 NT1 *triga-2-kansas reactor*  
 NT1 *triga-2-ljubljana reactor*  
 NT1 *triga-2-mainz reactor*  
 NT1 *triga-2-musashi reactor*  
 NT1 *triga-2-pavia reactor*  
 NT1 *triga-2-pitesti reactor*  
 NT1 *triga-2 reactor*  
 NT1 *triga-2-rikkyo reactor*  
 NT1 *triga-2-rome reactor*  
 NT1 *triga-2-seoul reactor*  
 NT1 *triga-2-vienna reactor*  
 NT1 *triga-3-la jolla reactor*  
 NT1 *triga-3-munich reactor*  
 NT1 *triga-3-salazar reactor*  
 NT1 *triga-3-seoul reactor*  
 NT1 *triga-brazil reactor*  
 NT1 *triga-texas reactor*  
 NT1 *triga-veterans reactor*  
 NT1 *ucbrr reactor*  
 NT1 *uwnr reactor*  
 NT1 *wsur reactor*

**TRIGA-VETERANS REACTOR**

- Omaha V.A. Medical Center/U.S. Veterans Administration, Omaha, Nebraska, USA.  
 UF *omaha veterans triga-mk-1*  
 UF *veterans administration hospital triga reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGGER CIRCUITS**

- \*BT1 *pulse circuits*  
 NT1 *transistor trigger circuits*

**TRIGLYCERIDES**

- 1996-10-22  
 UF *butter fat*  
 UF *croton oil*  
 UF *tigium oil*  
 \*BT1 esters  
 \*BT1 lipids  
 NT1 *corn oil*  
 NT1 *linseed oil*  
 NT1 *olive oil*  
 NT1 *peanut oil*  
 NT1 *soybean oil*  
 NT1 *triolein*  
 RT *glycerol*  
 RT *oils*

**TRIGONAL LATTICES**

- UF *rhombohedral lattices*  
 \*BT1 *three-dimensional lattices*

**trihydroxyaromatics**

- USE *polyphenols*

**trihydroxybenzoic acid**

- USE *gallic acid*

**trihydroxyglutaric acid**

- 1996-10-23  
 (Until October 1996 this was a valid descriptor.)  
 USE *hydroxy acids*

**TRIODOOTHYRONINE**

- UF *t3 hormone*  
 \*BT1 *thyroid hormones*  
 RT *diiodothyronine*  
 RT *thyronine*

**triketohydrindane**

- 1996-10-23  
 (Prior to March 1997 NINHYDRIN was used for this concept in ETDE.)  
 USE *ketones*

**trilaurylamine**

1985-07-19

(Prior to July 1985, this was a valid ETDE descriptor.)

USE tridodecylamine

**trillium**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE liliopsida

**TRILLO-1 REACTOR**

INIS: 1979-05-28; ETDE: 1979-09-06

Trillo, Guadalajara, Spain.

\*BT1 pwr type reactors

**trimethylacetic acid**

USE pivalic acid

**trimethylbenzene-sym**

ETDE: 2002-06-13

USE mesitylene

**TRINEUTRONS**

\*BT1 polyneutrons

**TRINIDAD AND TOBAGO**

1992-06-04

\*BT1 lesser antilles

**trinitrophenol**

USE picric acid

**trinitrotoluene**

USE tnt

**TRINITY EVENT**

\*BT1 atmospheric explosions

\*BT1 nuclear explosions

**trino vercellese reactor**

USE selni reactor

**trinonylamine**

2000-04-12

(Prior to February 1996 TNA was used for this concept in ETDE.)

USE amines

USE chelating agents

**TRIOCTYLAMINE**

ETDE: 2005-02-01

(Prior to January 2005 TOA was used for this concept.)

UF toa (trioctylamine)

\*BT1 amines

BT1 chelating agents

**TRIOCTYLPHOSPHINE OXIDE**

ETDE: 2005-02-01

(Prior to January 2005 TOPO was used for this concept.)

UF topo (trioctylphosphine oxide)

\*BT1 organic phosphorus compounds

\*BT1 phosphine oxides

**TRIOCTYLPHOSPHINE SULFIDE**

ETDE: 2005-02-01

(Prior to January 2005 TOPS was used for this concept.)

UF tops (trioctylphosphine sulfide)

\*BT1 organic phosphorus compounds

\*BT1 organic sulfur compounds

**TRIODE TUBES**

BT1 electron tubes

**TRIOLEIN**

UF glyceryl trioleate

UF olein

\*BT1 oils

\*BT1 triglycerides

RT oleic acid

**TRIOXANES**

\*BT1 heterocyclic compounds

\*BT1 organic oxygen compounds

RT organic solvents

**trioxyglutaric acid**

1996-10-23

(Prior to March 1997

TRIHYDROXYGLUTARIC ACID was used for this concept in ETDE.)

USE hydroxy acids

**TRIPHENYLENE**

\*BT1 polycyclic aromatic hydrocarbons

**TRIPHENYLMETHANE DYES**

1996-10-22

UF aluminon

UF aurin

UF aurintricarboxylic acid

UF chrome violet

\*BT1 aromatics

BT1 dyes

NT1 methyl violet

NT1 methylthymol blue

**TRIPHENYLPHOSPHINE**

2014-03-28

\*BT1 organic phosphorus compounds

\*BT1 phosphines

**TRIPHENYLPHOSPHINE OXIDE**

ETDE: 2005-02-01

(Prior to January 2005 TPO was used for this concept.)

UF tpo (triphenylphosphine oxide)

\*BT1 organic phosphorus compounds

\*BT1 phosphine oxides

**TRIPLASMATRONS**

\*BT1 plasmatron ion sources

**TRIPLE GLAZING**

2013-01-02

*Three layers of glass or other material used on windows or solar collectors to reduce heat loss. The still air in the space between the windows acts as a good insulator.*

SF thermal insulating glass

RT coverings

RT double glazing

RT glass

RT glazing materials

RT windows

**TRIPLE POINT**

INIS: 1988-02-02; ETDE: 1986-07-08

*The temperature and pressure at which the solid, liquid and vapor phases of a substance coexist in equilibrium with one another.*

RT phase diagrams

RT phase transformations

**triplet particles**

USE quarks

**TRIPLETS**

BT1 multiplets

**tristan project**

INIS: 1981-09-18; ETDE: 1981-10-24

USE tristan storage rings

**TRISTAN SEPARATOR**

INIS: 1986-05-23; ETDE: 1985-03-26

*An on-line isotope separator facility for the study of neutron-rich nuclei far from stability located at the high-flux beam reactor at BNL.*

BT1 electromagnetic isotope separators

\*BT1 reactor experimental facilities

RT hfbr reactor

**TRISTAN STORAGE RINGS**

INIS: 1981-09-18; ETDE: 1981-10-24

*Transposable Ring Intersecting Storage Accelerators in Nippon.*

UF kek intersecting storage accelerator

UF tristan project

BT1 storage rings

**tritiated compounds**

USE tritium compounds

**tritiated water**

1996-06-19

USE tritium oxides

**tritium**

USE wheat

**TRITIDES**

INIS: 1986-03-04; ETDE: 1991-03-07

\*BT1 tritium compounds

NT1 deuterium tritide

NT1 helium tritides

NT1 hydrogen tritide

NT1 lithium tritides

**TRITIUM**

UF hydrogen 3

\*BT1 beta-minus decay radioisotopes

\*BT1 hydrogen isotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 years living radioisotopes

RT thermonuclear fuels

RT tritium extraction plants

RT tritium meters

RT tritons

**TRITIUM COMPOUNDS**

1996-06-19

UF tritiated compounds

BT1 hydrogen compounds

NT1 tritides

NT2 deuterium tritide

NT2 helium tritides

NT2 hydrogen tritide

NT2 lithium tritides

NT1 tritium oxides

RT labelled compounds

RT tritium extraction plants

**TRITIUM EXTRACTION PLANTS**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 isotope separation plants

RT heavy water

RT tritium

RT tritium compounds

**tritium hydride**

INIS: 1976-07-06; ETDE: 2002-06-13

USE hydrogen tritide

**TRITIUM IONS**

1996-03-04

\*BT1 ions

RT d-t operation

**TRITIUM METERS**

INIS: 1981-09-17; ETDE: 1978-09-11

\*BT1 meters

RT chemical analysis

RT tritium

**TRITIUM OXIDES**

1996-06-19

UF dto

UF hto

UF tritiated water

\*BT1 oxides

\*BT1 tritium compounds

\*BT1 water

**TRITIUM PRODUCTION REACTORS**

- \*BT1 irradiation reactors
- NT1 celestin reactor

**TRITIUM RECOVERY**

ETDE: 1975-09-11

*In thermonuclear reactors and/or devices.*

- UF recovery (tritium)
- SF recovery
- RT breeding
- RT breeding blankets
- RT plasma confinement
- RT thermonuclear devices
- RT thermonuclear reactors

**TRITIUM SYSTEMS TEST****ASSEMBLY**

INIS: 1986-07-09; ETDE: 1983-05-21

*Facility to test and demonstrate safe handling of tritium in a manner similar to that required for a thermonuclear reactor.*

- UF tsta
- BT1 test facilities
- RT thermonuclear fuels
- RT thermonuclear reactor fueling

**TRITIUM TARGET**

ETDE: 1976-07-09

- BT1 targets

**triton**

2000-03-29

- SEE tritons
- SEE triturus

**TRITON BEAMS**

- \*BT1 radioactive ion beams
- RT tritons

**TRITON REACTIONS**

- \*BT1 charged-particle reactions

**TRITON REACTOR**

CEA, Paris, France. Decommissioned since 2010.

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**TRITONS**

- SF triton
- BT1 charged particles
- NT1 antitritons
- RT tritium
- RT triton beams

**TRITURUS**

- SF triton
- \*BT1 salamanders

**TRIUMF CYCLOTRON**

- UF tri-university meson facility
- \*BT1 isochronous cyclotrons

**trochotrons**

- USE counting tubes

**TROILITE**

ETDE: 1976-03-31

- \*BT1 pyrrhotite
- RT iron meteorites

**TROJAN REACTOR**

Portland General Electric Co., Prescott, Oregon, USA. Shut down in 1992; decommissioned in 1996.

- \*BT1 pwr type reactors

**trolleybuses**

2005-04-20

- USE buses

- USE electric-powered vehicles
- USE trackless vehicles

**trombay r-5 reactor**

1986-03-04

(Prior to March 1986 this was a valid descriptor, and older material is so indexed.)

- USE dhruva reactor

**TROMBE WALLS**

INIS: 2000-04-12; ETDE: 1977-10-20

- \*BT1 passive solar heating systems
- BT1 walls
- RT buildings
- RT sensible heat storage

**TROMMELS**

INIS: 2000-04-12; ETDE: 1982-04-09

- BT1 screens
- RT particle size classifiers

**TRONA**

2000-04-12

*Naturally occurring sodium sesquicarbonate.*

- \*BT1 carbonate minerals
- RT sodium carbonates

**TROPICAL MEDICINE**

- BT1 medicine
- RT tropical regions

**TROPICAL REGIONS**

- RT climates
- RT savannas
- RT tropical medicine

**TROPOMYOSIN**

INIS: 2000-04-12; ETDE: 1980-01-15

- \*BT1 proteins
- RT actin
- RT muscles
- RT myosin

**TROPONES**

- UF cycloheptatrienones
- \*BT1 ketones

**TROPOPAUSE**

1999-04-28

- \*BT1 troposphere
- RT boundary layers
- RT global fallout
- RT radiative forcing
- RT stratosphere

**TROPOSKIEN SHAPE**

2000-04-12

*The shape that a perfectly flexible cable of uniform density and cross section would assume if spun about a vertical axis. If this shape is used for turbine blades operating on a vertical axis, then rotation will not cause the blades to bend, and all stresses will be pure tension.*

- BT1 shape
- RT wind turbines

**TROPOSPHERE**

1999-04-28

- BT1 earth atmosphere
- NT1 tropopause
- RT air
- RT air-water interactions
- RT anticyclones
- RT cyclones

**TROUT**

- \*BT1 fishes
- RT seafood

**TRR-1 REACTOR**

*Office of Atomic Energy for Peace (OAEP), Ministry of Industry, Bangkok, Thailand.*

UF thai research reactor-1

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**tru wastes**

INIS: 2000-04-12; ETDE: 1981-01-09

- USE alpha-bearing wastes

**truck transport**

INIS: 1984-04-04; ETDE: 2002-03-26

- USE road transport
- USE trucks

**TRUCKS**

1999-03-15

(Until March 1999 this concept was indexed by VEHICLES.)

- UF truck transport
- BT1 vehicles
- RT occupants
- RT road tests

**TRUEX PROCESS**

INIS: 1989-07-19; ETDE: 1989-08-01

- \*BT1 reprocessing
- RT cmpo
- RT solvent extraction

**TRUST TERRITORY OF THE PACIFIC ISLANDS**

INIS: 1992-06-09; ETDE: 1979-12-17

*The territory encompasses more than 2, 000 Pacific islets, atolls, and mountainous islands with a population of about 113, 000.*

- UF palau islands
- BT1 islands
- NT1 mariana islands
- NT2 guam
- RT pacific ocean
- RT usa

**truth model**

INIS: 1984-04-04; ETDE: 1979-11-07

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE flavor model

**TRW PROCESS**

INIS: 2000-04-12; ETDE: 1978-04-27

*Pyritic sulfur is removed by leaching with aqueous ferric sulfate at moderate temperatures, pressures and long retention times. The process employs extensive water washing for sulfate removal. The ferric ion lixiviant is simultaneously regenerated in the reaction chamber using oxygen.*

- \*BT1 desulfurization
- RT coal preparation

**trx-1**

INIS: 2000-04-12; ETDE: 1982-10-05

*Trx-1 is a 20-cm diameter, 1-m long field-reversed theta pinch with a magnetic field swing of 10kg in 3 microseconds. It employs z discharge preionization and octupole barrier fields to maximize flux trapping on first half cycle operation. Cusp coils are used at the theta pinch ends to delay reconnection and fast mirror coils are used to trigger reconnection at a time designed to maximize axial heating efficiency and toroid lifetime.*

- USE reverse-field pinch

**trypaflavine**

- USE acriflavine



**TRYPAN BLUE**

- \*BT1 amines
- \*BT1 azo dyes
- \*BT1 naphthols
- \*BT1 sulfonic acids

**TRYPANOSOMA**

- \*BT1 mastigophora
- BT1 parasites
- RT glossina
- RT trypanosomiasis

**TRYPANOSOMES**

2000-04-12

- RT parasites

**TRYPANOSOMIASIS**

- \*BT1 parasitic diseases
- RT trypanosoma

**TRYPSIN**

Code number 3.4.21.4.

- \*BT1 serine proteinases
- RT digestion
- RT pancreas

**TRYPTAMINES**

1996-06-26

- \*BT1 amines
- \*BT1 indoles
- NT1 melatonin
- NT1 serotonin
- NT2 bufotenine

**TRYPTOPHAN**

- \*BT1 amino acids
- \*BT1 heterocyclic acids
- \*BT1 indoles
- RT hydroxytryptophan

**tryptophan oxygenase**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE oxygenases

**TS-3 DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03

Tokyo University, Japan.

- \*BT1 spheromak devices

**tschebyscheff approximation**

- USE polynomials

**tsetse fly**

- USE glossina

**TSH**

- UF thyroid stimulating hormone
- \*BT1 pituitary hormones
- RT thyroid hormones
- RT trh

**TSL PROCESS**

INIS: 2000-04-12; ETDE: 1979-11-07

Coal is dissolved and partially hydrogenated in a process derived solvent (as in src process) and then catalytically hydrocracked in a separate reactor (as in lc-finishing).

- \*BT1 coal liquefaction

**tsp**

INIS: 2000-04-12; ETDE: 1981-05-18

- USE total suspended particulates

**tsp tokamak**

1993-08-09

- USE t-14 tokamak

**TSR-1 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1958.

- UF tower shielding reactor-1

- \*BT1 enriched uranium reactors

- \*BT1 tank type reactors

- \*BT1 test reactors

**TSR-2 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1992.

- UF tower shielding reactor-2

- \*BT1 research reactors

- \*BT1 test reactors

- \*BT1 water cooled reactors

- \*BT1 water moderated reactors

**TSR STORAGE RING**

INIS: 1993-09-16; ETDE: 1993-11-08

- UF heidelberg storage ring

- BT1 storage rings

**tsta**

INIS: 2000-04-12; ETDE: 1983-05-21

- USE tritium systems test assembly

**tsukuba kek synchrotron**

- USE kek synchrotron

**TSUNAMIS**

A great sea wave produced by submarine earth movement or volcanic eruption.

- UF tidal waves

- \*BT1 water waves

- RT earthquakes

- RT natural disasters

- RT seas

- RT seismic events

- RT seismic waves

**tsuruga-1 reactor**

INIS: 1983-06-30; ETDE: 1983-07-20

- USE tsuruga reactor

**TSURUGA-2 REACTOR**

INIS: 1983-06-30; ETDE: 1983-07-20

JAPCO, Tsuruga, Fukui, Japan.

- UF japco-4 reactor

- \*BT1 pwr type reactors

**TSURUGA REACTOR**

JAPCO, Tsuruga, Fukui, Japan. Permanent shutdown since April 2015.

- UF japco-2 reactor

- UF tsuruga-1 reactor

- \*BT1 bwr type reactors

**TTA**

- UF thenoyltrifluoroacetone

- \*BT1 heterocyclic compounds

- \*BT1 ketones

- \*BT1 organic fluorine compounds

- \*BT1 organic sulfur compounds

- RT thiophene

**tff (tetrathiafulvalene)**

INIS: 2000-03-29; ETDE: 2005-02-01

(Prior to January 2005 TTF was a valid descriptor.)

- USE tetrathiafulvalene

**TTF-TCNQ**

INIS: 2000-05-02; ETDE: 1975-09-30

- UF tetrathiafulvalene

- tetracyanoquinodimethane

- \*BT1 heterocyclic compounds

- \*BT1 nitriles

- \*BT1 organic sulfur compounds

- \*BT1 organic superconductors

**ttmp**

- USE transit-time magnetic pumping

**ttr-1 toshiba reactor**

- USE toshiba reactor

**tube model**

INIS: 2000-04-12; ETDE: 1980-03-04

- USE coherent tube model

**TUBERCULIN**

- BT1 antigens

**TUBERCULOSIS**

1996-10-23

- \*BT1 bacterial diseases

- RT mycobacterium tuberculosis

- RT streptomycin

**TUBERS**

- NT1 potatoes

- RT plants

**TUBES**

For objects of tubular shape; see also DRIFT

TUBES, ELECTRON TUBES, or IMAGE

STORAGE TUBES.

- NT1 baffled tubes

- NT1 guide tubes

- NT1 hoses

- NT1 pipes

- NT2 drill pipes

- NT2 marine risers

- NT2 penstocks

- NT1 pressure tubes

- RT borescopes

- RT corrosion denting

- RT coverings

- RT cylinders

- RT ducts

- RT reactor cooling systems

- RT shape

- RT tunnels

**tubes (conduits)**

- USE pipes

**tubular pinch devices (linear)**

- USE linear hard core pinch devices

**TUBULES**

In kidneys.

- \*BT1 kidneys

- RT aldosterone

- RT glomeruli

- RT renal clearance

- RT vasopressin

**TUFF**

A compacted pyroclastic deposit or volcanic ash and dust.

- \*BT1 volcanic rocks

**TULLNERFELD REACTOR**

Zwentendorf, Austria. Construction completed, but dismantled in 1987 without being operated.

- UF zwentendorf reactor

- \*BT1 bwr type reactors

**TUMAN DEVICES**

- \*BT1 tokamak devices

**tumbler project**

1996-07-15

(Until June 1996 this was a valid descriptor.)

- SEE nuclear weapons

**tumbleweeds**

INIS: 2000-04-12; ETDE: 1981-04-17

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE magnoliopsida

**TUMOR CELLS**

- UF giant cells

- BT1 animal cells

- NT1 ascites tumor cells

**NT1** hela cells  
*RT* cell cultures  
*RT* in vivo  
*RT* neoplasms

**tumor necrosis factor**

2003-02-10

SEE radioprotective substances  
 SEE response modifying factors

**TUMOR PROMOTERS***INIS: 1981-07-08; ETDE: 1980-10-07*

*Chemical agents which are not mutagenic or carcinogenic in themselves, but which will accelerate the growth of a pre-existing tumor.*

**BT1** promoters  
*RT* carcinogens  
*RT* mutagens  
*RT* neoplasms

**tumor viruses***INIS: 1976-03-25; ETDE: 1975-08-19*

USE oncogenic viruses

**tumors**

USE neoplasms

**tun ismail atomic research center***INIS: 1985-01-17; ETDE: 1985-02-22*

Malaysia.

USE puspatri

**TUNA**

\*BT1 fishes

**TUNDRA**

*RT* arctic regions  
*RT* climates  
*RT* terrestrial ecosystems

**TUNGSTATES**

1997-06-19

**BT1** oxygen compounds  
 \*BT1 tungsten compounds  
**NT1** aluminium tungstates  
**NT1** ammonium tungstates  
**NT1** barium tungstates  
**NT1** bismuth tungstates  
**NT1** cadmium tungstates  
**NT1** calcium tungstates  
**NT1** cerium tungstates  
**NT1** cesium tungstates  
**NT1** cobalt tungstates  
**NT1** copper tungstates  
**NT1** dysprosium tungstates  
**NT1** erbium tungstates  
**NT1** gadolinium tungstates  
**NT1** hafnium tungstates  
**NT1** indium tungstates  
**NT1** iron tungstates  
**NT1** lanthanum tungstates  
**NT1** lead tungstates  
**NT1** lithium tungstates  
**NT1** lutetium tungstates  
**NT1** manganese tungstates  
**NT1** neodymium tungstates  
**NT1** nickel tungstates  
**NT1** potassium tungstates  
**NT1** praseodymium tungstates  
**NT1** rubidium tungstates  
**NT1** samarium tungstates  
**NT1** scandium tungstates  
**NT1** silver tungstates  
**NT1** sodium tungstates  
**NT1** strontium tungstates  
**NT1** tantalum tungstates  
**NT1** thallium tungstates  
**NT1** thorium tungstates  
**NT1** tin tungstates  
**NT1** titanium tungstates  
**NT1** uranium tungstates

**NT1** uranyl tungstates  
**NT1** vanadium tungstates  
**NT1** ytterbium tungstates  
**NT1** yttrium tungstates  
**NT1** zinc tungstates  
**NT1** zirconium tungstates

**TUNGSTEN**

*UF* wolfram  
 \*BT1 refractory metals  
 \*BT1 transition elements  
**NT1** tungsten-alpha

**TUNGSTEN 157**

2009-08-28

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 158***INIS: 1986-05-08; ETDE: 1986-07-03*

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 tungsten isotopes

**TUNGSTEN 159***INIS: 1986-05-08; ETDE: 1986-07-03*

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 160***INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 161***INIS: 1986-05-08; ETDE: 1988-12-05*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 162**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 163**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 164**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 165***INIS: 1976-02-11; ETDE: 1975-10-01*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 166***INIS: 1976-02-11; ETDE: 1975-10-01*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 167***INIS: 1985-11-18; ETDE: 1985-12-13*

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 168***INIS: 1984-02-23; ETDE: 1984-03-06*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 169***INIS: 1985-10-22; ETDE: 1979-09-26*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 170**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 171**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 172**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 173**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 174**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 175**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 176**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 177**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 tungsten isotopes

**TUNGSTEN 178**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tungsten isotopes

**TUNGSTEN 179**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 180**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 180 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TUNGSTEN 181**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 182**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 stable isotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 182 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TUNGSTEN 183**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 183 REACTIONS**

*INIS: 1984-02-23; ETDE: 1984-03-06*  
\*BT1 heavy ion reactions

**TUNGSTEN 183 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TUNGSTEN 184**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei

- \*BT1 stable isotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 184 BEAMS**

*INIS: 1977-02-08; ETDE: 1977-04-13*  
\*BT1 ion beams

**TUNGSTEN 184 REACTIONS**

*INIS: 1982-10-28; ETDE: 1982-11-30*  
\*BT1 heavy ion reactions

**TUNGSTEN 184 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TUNGSTEN 185**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 185 TARGET**

*INIS: 1985-11-16; ETDE: 1985-12-11*  
BT1 targets

**TUNGSTEN 186**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 stable isotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 186 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TUNGSTEN 187**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 tungsten isotopes

**TUNGSTEN 188**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 tungsten isotopes

**TUNGSTEN 189**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 190**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 191**

*2007-04-23*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 tungsten isotopes

**TUNGSTEN 192**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 tungsten isotopes

**TUNGSTEN ADDITIONS**

*1996-07-17*  
*Alloys containing not more than 1% W are listed here.*  
\*BT1 tungsten alloys

- NT1 alloy-ni49cr22fe18mo9
- NT2 hastelloy x
- NT1 alloy-ni50cr22fe18mo9
- NT2 hastelloy xr
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 steel-ni4crw

**TUNGSTEN ALLOYS**

*1996-11-13*

*Alloys containing more than 1% W.*

- UF alloy-co64cr29w4
- UF alloy-co66cr26w6
- UF alloy-ehi 868
- UF alloy-ehp-567
- UF alloy-khn60b
- UF alloy-khn60v
- UF alloy-n55m20v25
- UF alloy-n65m20v15
- UF alloy-ni60cr25w15
- UF alloy-ni65mo16cr15w4
- UF alloy-vzh98
- UF stellite 156
- \*BT1 transition element alloys
- NT1 alloy-c-103
- NT1 alloy-co36cr22ni22w15fe3
- NT2 haynes 188 alloy
- NT1 alloy-co43cr20fe18ni13w3
- NT2 havar
- NT1 alloy-co54cr20w15ni10
- NT2 alloy-hs-25
- NT2 haynes 25 alloy
- NT1 alloy-co60cr30w4
- NT2 stellite 6
- NT1 alloy-d-979
- NT1 alloy-in-102
- NT1 alloy-khn50mbvyu
- NT1 alloy-mar-m246
- NT1 alloy-mn-21
- NT1 alloy-mo-re-1
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni61cr16co9a13ti3w3
- NT2 alloy-in-738
- NT1 alloy-ra-333
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-ta90w8hf
- NT2 tantalum alloy-t111
- NT1 alloy-v-36
- NT1 astar 811c
- NT1 carboloy
- NT1 magnet steel-ks
- NT1 miduale
- NT1 rene 80
- NT1 rene 95
- NT1 supertherm
- NT1 tungsten additions
- NT2 alloy-ni49cr22fe18mo9
- NT3 hastelloy x
- NT2 alloy-ni50cr22fe18mo9
- NT3 hastelloy xr
- NT2 alloy-ni62cr16mo15fe3
- NT3 hastelloy s
- NT2 steel-ni4crw
- NT1 tungsten base alloys
- NT2 alloy-mo-re-2
- NT1 tungsten bronze
- NT1 udimet 500

**TUNGSTEN-ALPHA**

*INIS: 1985-10-23; ETDE: 1985-11-19*  
\*BT1 tungsten

**TUNGSTEN BASE ALLOYS**

- \*BT1 tungsten alloys
- NT1 alloy-mo-re-2

**TUNGSTEN BORIDES**

- \*BT1 borides

\*BT1 tungsten compounds

## TUNGSTEN BROMIDES

\*BT1 bromides

\*BT1 tungsten halides

## TUNGSTEN BRONZE

\*BT1 copper base alloys

\*BT1 tungsten alloys

## TUNGSTEN CARBIDES

\*BT1 carbides

\*BT1 tungsten compounds

## TUNGSTEN CHLORIDES

\*BT1 chlorides

\*BT1 tungsten halides

## TUNGSTEN COMPLEXES

\*BT1 transition element complexes

## TUNGSTEN COMPOUNDS

1997-06-19

BT1 refractory metal compounds

BT1 transition element compounds

NT1 tungstates

NT2 aluminium tungstates

NT2 ammonium tungstates

NT2 barium tungstates

NT2 bismuth tungstates

NT2 cadmium tungstates

NT2 calcium tungstates

NT2 cerium tungstates

NT2 cesium tungstates

NT2 cobalt tungstates

NT2 copper tungstates

NT2 dysprosium tungstates

NT2 erbium tungstates

NT2 gadolinium tungstates

NT2 hafnium tungstates

NT2 indium tungstates

NT2 iron tungstates

NT2 lanthanum tungstates

NT2 lead tungstates

NT2 lithium tungstates

NT2 lutetium tungstates

NT2 manganese tungstates

NT2 neodymium tungstates

NT2 nickel tungstates

NT2 potassium tungstates

NT2 praseodymium tungstates

NT2 rubidium tungstates

NT2 samarium tungstates

NT2 scandium tungstates

NT2 silver tungstates

NT2 sodium tungstates

NT2 strontium tungstates

NT2 tantalum tungstates

NT2 thallium tungstates

NT2 thorium tungstates

NT2 tin tungstates

NT2 titanium tungstates

NT2 uranium tungstates

NT2 uranyl tungstates

NT2 vanadium tungstates

NT2 ytterbium tungstates

NT2 yttrium tungstates

NT2 zinc tungstates

NT2 zirconium tungstates

NT1 tungsten borides

NT1 tungsten carbides

NT1 tungsten halides

NT2 tungsten bromides

NT2 tungsten chlorides

NT2 tungsten fluorides

NT2 tungsten iodides

NT1 tungsten hydrides

NT1 tungsten hydroxides

NT1 tungsten nitrides

NT1 tungsten oxides

NT2 sodium tungsten bronze

NT1 tungsten phosphides

NT1 tungsten selenides

NT1 tungsten silicides

NT1 tungsten sulfides

NT1 tungsten tellurides

NT1 tungstophosphates

NT1 tungstophosphoric acid

## TUNGSTEN FLUORIDES

\*BT1 fluorides

\*BT1 tungsten halides

## TUNGSTEN HALIDES

2012-07-25

\*BT1 halides

\*BT1 tungsten compounds

NT1 tungsten bromides

NT1 tungsten chlorides

NT1 tungsten fluorides

NT1 tungsten iodides

## TUNGSTEN HYDRIDES

1977-01-26

\*BT1 hydrides

\*BT1 tungsten compounds

## TUNGSTEN HYDROXIDES

\*BT1 hydroxides

\*BT1 tungsten compounds

## TUNGSTEN IODIDES

\*BT1 iodides

\*BT1 tungsten halides

## TUNGSTEN IONS

\*BT1 ions

## TUNGSTEN ISOTOPES

1999-07-16

BT1 isotopes

NT1 tungsten 157

NT1 tungsten 158

NT1 tungsten 159

NT1 tungsten 160

NT1 tungsten 161

NT1 tungsten 162

NT1 tungsten 163

NT1 tungsten 164

NT1 tungsten 165

NT1 tungsten 166

NT1 tungsten 167

NT1 tungsten 168

NT1 tungsten 169

NT1 tungsten 170

NT1 tungsten 171

NT1 tungsten 172

NT1 tungsten 173

NT1 tungsten 174

NT1 tungsten 175

NT1 tungsten 176

NT1 tungsten 177

NT1 tungsten 178

NT1 tungsten 179

NT1 tungsten 180

NT1 tungsten 181

NT1 tungsten 182

NT1 tungsten 183

NT1 tungsten 184

NT1 tungsten 185

NT1 tungsten 186

NT1 tungsten 187

NT1 tungsten 188

NT1 tungsten 189

NT1 tungsten 190

NT1 tungsten 191

NT1 tungsten 192

## TUNGSTEN NITRIDES

\*BT1 nitrides

\*BT1 tungsten compounds

## TUNGSTEN ORES

BT1 ores

## TUNGSTEN OXIDES

\*BT1 oxides

\*BT1 tungsten compounds

NT1 sodium tungsten bronze

RT oxide minerals

RT tungstophosphoric acid

RT wolframite

## TUNGSTEN PHOSPHIDES

INIS: 1979-09-18; ETDE: 1976-07-07

\*BT1 phosphides

\*BT1 tungsten compounds

## TUNGSTEN SELENIDES

1978-07-31

\*BT1 selenides

\*BT1 tungsten compounds

## TUNGSTEN SILICIDES

1975-10-29

\*BT1 silicides

\*BT1 tungsten compounds

## TUNGSTEN SULFIDES

\*BT1 sulfides

\*BT1 tungsten compounds

## TUNGSTEN TELLURIDES

2000-04-12

\*BT1 tellurides

\*BT1 tungsten compounds

## tungsten water moderated reactor

2000-04-12

USE twmr reactor

## TUNGSTOPHOSPHATES

1988-02-02

BT1 oxygen compounds

BT1 phosphorus compounds

\*BT1 tungsten compounds

RT tungstophosphoric acid

## TUNGSTOPHOSPHORIC ACID

UF phosphotungstic acid

UF phosphowolframic acid

UF wolframophosphoric acid

\*BT1 inorganic acids

BT1 oxygen compounds

BT1 phosphorus compounds

\*BT1 tungsten compounds

RT heteropolyanions

RT phosphoric acid

RT tungsten oxides

RT tungstophosphates

## TUNING

1975-08-22

NT1 frequency selection

NT1 mode selection

RT cavity resonators

RT frequency control

RT resonance

RT rf systems

RT synchronization

## TUNISIA

BT1 africa

BT1 arab countries

BT1 developing countries

## TUNISIAN ORGANIZATIONS

2004-03-31

BT1 national organizations

## TUNNEL DIODES

\*BT1 semiconductor diodes

RT schottky barrier diodes

**TUNNEL EFFECT**

- RT superconducting junctions
- RT superconductivity
- RT tunnel junctions

**TUNNEL FURNACES**

- INIS: 2000-04-12; ETDE: 1976-03-11
- UF tunnel kilns
- BT1 furnaces

**TUNNEL JUNCTIONS**

- 2016-04-19
- Junctions comprising a barrier, such as a thin insulating layer or electric potential, between two electrically conducting materials
- NT1 magnetic tunnel junctions
- NT1 mim junctions
- NT1 superconducting junctions
- NT2 josephson junctions
- RT tunnel effect

**tunnel kilns**

- INIS: 2000-04-12; ETDE: 1976-03-11
- USE tunnel furnaces

**TUNNELING**

- INIS: 1993-08-02; ETDE: 1978-05-03
- Not for the concept of electron tunneling, for which use TUNNEL EFFECT.
- RT shaft excavations
- RT tunnels
- RT underground mining

**TUNNELING MACHINES**

- INIS: 1999-05-20; ETDE: 1985-04-09
- BT1 equipment
- RT excavation
- RT mining equipment

**TUNNELS**

- 1997-06-17
- BT1 underground facilities
- NT1 mine roadways
- RT excavation
- RT mine drivage
- RT mines
- RT piston effect
- RT shaft excavations
- RT subsurface structures
- RT subterrene penetrators
- RT tubes
- RT tunneling
- RT wind tunnels

**TURBELLARIA**

- \*BT1 platyhelminths
- NT1 planaria

**TURBIDITY**

- RT suspensions

**TURBINE BLADES**

- UF blades (turbines)
- RT compressor blades
- RT turbines

**turbine pumps**

- INIS: 2000-04-12; ETDE: 1980-01-24
- USE pump turbines

**turbine trips**

- 2017-07-18
- SEE atws

**TURBINES**

- UF velocity-pumps reaction turbines
- SF krov machine
- \*BT1 turbomachinery
- NT1 gas turbines
- NT2 coal-fired gas turbines
- NT1 hydraulic turbines
- NT2 pump turbines

- NT1 radial inflow turbines
- NT1 radial-outflow reaction turbines
- NT1 rotary separator turbines
- NT1 steam turbines
- NT1 wind turbines
- NT2 diffuser augmented turbines
- NT2 horizontal axis turbines
- NT2 vertical axis turbines
- NT3 giromill turbines
- NT3 tornado turbines
- NT2 vortex augmented turbines
- RT helical rotary screw expander
- RT hydroelectric power plants
- RT turbine blades
- RT turbochargers
- RT turbodrills
- RT working fluids

**TURBOCHARGERS**

- INIS: 2000-04-12; ETDE: 1985-04-09
- \*BT1 superchargers
- \*BT1 turbomachinery
- RT turbines

**TURBODRILLS**

- INIS: 2000-04-12; ETDE: 1981-08-21
- \*BT1 rotary drills
- \*BT1 turbomachinery
- RT drilling
- RT turbines

**TURBOFAN ENGINES**

- INIS: 2000-04-12; ETDE: 1984-05-23
- \*BT1 internal combustion engines
- \*BT1 turbomachinery
- RT turbojet engines

**TURBOGENERATORS**

- SF braun standard turbine island
- SF c f braun standard turbine island
- \*BT1 electric generators
- \*BT1 turbomachinery
- RT hydraulic turbines

**TURBOJET ENGINES**

- 1992-06-12
- \*BT1 internal combustion engines
- \*BT1 turbomachinery
- RT turbofan engines

**TURBOMACHINERY**

- INIS: 1997-06-19; ETDE: 1976-09-28
- \*BT1 machinery
- NT1 turbines
- NT2 gas turbines
- NT3 coal-fired gas turbines
- NT2 hydraulic turbines
- NT3 pump turbines
- NT2 radial inflow turbines
- NT2 radial-outflow reaction turbines
- NT2 rotary separator turbines
- NT2 steam turbines
- NT2 wind turbines
- NT3 diffuser augmented turbines
- NT3 horizontal axis turbines
- NT3 vertical axis turbines
- NT4 giromill turbines
- NT4 tornado turbines
- NT3 vortex augmented turbines
- NT1 turbochargers
- NT1 turbodrills
- NT1 turbofan engines
- NT1 turbogenerators
- NT1 turbojet engines
- RT compressors
- RT pumps

**TURBOMOLECULAR PUMPS**

- \*BT1 vacuum pumps

**TURBULENCE**

- RT attractors

- RT diffusion
- RT fluid flow
- RT hurricanes
- RT mixing
- RT stirring
- RT tornadoes
- RT turbulent flow
- RT vortices
- RT wind

**TURBULENT FLOW**

- UF supercritical flow
- BT1 fluid flow
- RT critical flow
- RT laminar flow
- RT large-eddy simulation
- RT reynolds number
- RT richardson number
- RT turbulence
- RT two-phase flow
- RT viscous flow

**TURBULENT HEATING**

- \*BT1 plasma heating

**TURKEY**

- 1997-06-17
- UF marmara sea
- UF marmora sea
- UF sea of marmara
- BT1 asia
- BT1 developing countries
- BT1 middle east
- RT black sea
- RT euphrates river
- RT kizildere geothermal field
- RT oecd
- RT tigris river

**TURKEY POINT-3 REACTOR**

- Florida Power and Light Co., Florida City, Florida, USA.
- \*BT1 pwr type reactors

**TURKEY POINT-4 REACTOR**

- Florida Power and Light Co., Florida City, Florida, USA.
- \*BT1 pwr type reactors

**TURKISH ATOMIC ENERGY AUTHORITY**

- 2003-08-27
- \*BT1 turkish organizations

**TURKISH ORGANIZATIONS**

- 2003-08-26
- BT1 national organizations
- NT1 turkish atomic energy authority

**turkish reactor-1**

- USE tr-1 reactor

**turkish reactor-2**

- 1991-07-02
- USE tr-2 reactor

**TURKMENISTAN**

- INIS: 1997-08-20; ETDE: 1993-04-08
- (Until January 1993, this was indexed by USSR.)

- SF soviet union
- SF union of soviet socialist republics
- SF ussr
- BT1 asia
- RT caspian sea

**turku cyclotron**

- USE aabo cyclotron

**turnips**

- USE brassica

**turnover (radionuclides)**

USE radionuclide kinetics

**TURPENTINE**

\*BT1 organic solvents

\*BT1 terpenes

RT hydrocarbons

**TURTLES**

\*BT1 reptiles

**TUVALU**

1991-07-02

\*BT1 micronesia

RT pacific ocean

**tva**

INIS: 1977-01-25; ETDE: 1976-01-07

USE tennessee valley authority

**TVA-1 REACTOR**

TVA, USA. Canceled before construction began.

UF tennessee valley authority reactor-1

\*BT1 pwr type reactors

**TVA-2 REACTOR**

TVA, USA. Canceled before construction began.

UF tennessee valley authority reactor-2

\*BT1 pwr type reactors

**tvo-1 reactor**

INIS: 1997-06-19; ETDE: 1976-08-24

Name changed in June 1997 to OLKILUOTO-1 REACTOR.

(Until then this was a valid descriptor.)

USE olkiluoto-1 reactor

**tvo-2 reactor**

INIS: 1997-06-19; ETDE: 1976-08-24

Name changed in June 1997 to OLKILUOTO-2 REACTOR.

(Until then this was a valid descriptor.)

USE olkiluoto-2 reactor

**tvo-3 reactor**

2005-09-08

USE olkiluoto-3 reactor

**TWINNING**

RT crystal structure

RT microstructure

RT slip

**TWISTOR THEORY**

INIS: 1978-07-31; ETDE: 1975-08-19

Quantized points of space-time.

UF penrose twistor theory

RT gravitation

RT quantum mechanics

RT space-time

RT unified field theories

**TWMR REACTOR**

2000-04-12

UF tungsten water moderated reactor

\*BT1 space propulsion reactors

\*BT1 water moderated reactors

**TWO-BODY PROBLEM**

BT1 many-body problem

RT resonating-group method

**TWO-COMPONENT NEUTRINO THEORY**

RT beta decay

RT neutrinos

RT spin

**TWO-COMPONENT TORUS**

INIS: 1976-03-02; ETDE: 1975-11-26

UF tct

\*BT1 tokamak devices

**TWO-DIMENSIONAL CALCULATIONS**

UF 2-dimensional calculations

UF calculations (2-dimensional)

RT adjoint difference method

RT ising model

RT many-dimensional calculations

RT mathematics

RT surfaces

**TWO-DIMENSIONAL ELECTROPHORESIS**

INIS: 1993-08-03; ETDE: 1987-05-06

BT1 electrophoresis

RT fractionation

RT nucleic acids

**TWO-DIMENSIONAL SYSTEMS**

2015-06-22

Use only for two dimensional crystal lattices

\*BT1 crystal lattices

NT1 hexagonal systems

NT1 pentagonal systems

RT germanene

**two-fireball model**

USE fireball model

**two-fluid theory**

USE landau liquid helium theory

**TWO-NUCLEON TRANSFER REACTIONS**

\*BT1 multi-nucleon transfer reactions

**TWO-PHASE FLOW**

BT1 fluid flow

RT boiling

RT gas flow

RT heat transfer

RT liquid flow

RT richardson number

RT turbulent flow

**TWO-STREAM INSTABILITY**

\*BT1 plasma microinstabilities

RT fluid flow

**tybo event**

INIS: 2000-04-12; ETDE: 1976-03-11

A test made during PROJECT BEDROCK.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**tyco process**

2000-04-12

Process for removal of sulfur dioxide, nitrogen monoxide, and nitrogen dioxide from flue gases.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**TYPE-I SUPERCONDUCTORS**

BT1 superconductors

**TYPE I SUPERNOVAE**

2014-02-26

\*BT1 supernovae

**TYPE-II SUPERCONDUCTORS**

2000-05-30

UF type-iii superconductors

BT1 superconductors

NT1 high-*tc* superconductors**TYPE II SUPERNOVAE**

2014-02-26

\*BT1 supernovae

**type-iii superconductors**

USE type-ii superconductors

**TYPHOID**

\*BT1 bacterial diseases

RT salmonella

**TYPHUS**

\*BT1 rickettsial diseases

RT rickettsiae

**TYRAMINE**

\*BT1 amines

\*BT1 phenols

\*BT1 sympathomimetics

**TYRONE-1 REACTOR**

Northern States Power Co., Durand, Wisconsin, USA. Canceled in 1979 before construction began.

\*BT1 pwr type reactors

**TYRONE-2 REACTOR**

Northern States Power Co., Durand, Wisconsin, USA. Canceled in 1974 before construction began.

\*BT1 pwr type reactors

**TYROSINASE**

\*BT1 hydroxylases

**TYROSINE**

\*BT1 amino acids

\*BT1 hydroxy acids

RT diiodotyrosine

RT melanin

RT methyl tyrosine

RT phenylalanine

**TYUYAMUNITE**

\*BT1 oxide minerals

\*BT1 uranium minerals

RT calcium oxides

RT uranium oxides

RT vanadium oxides

**TZ1 REACTOR**

INIS: 1985-06-07; ETDE: 1985-07-18

UF tammuz-1 reactor

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 thermal reactors

**TZ2 REACTOR**

INIS: 1985-06-07; ETDE: 1985-07-18

Shutdown since 1991. Under decommissioning.

UF tammuz-2 reactor

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 pool type reactors

\*BT1 thermal reactors

**tzm**

INIS: 2000-04-12; ETDE: 1978-12-20

USE alloy-mo99

**U-1 GROUPS**

\*BT1 u groups

**U-12 GROUPS**

\*BT1 u groups

**U-2 GROUPS**

\*BT1 u groups

**u-2375 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE f4-2300 mesons

**U-3 GROUPS**

\*BT1 u groups

**U-4 GROUPS**

\*BT1 u groups

**U-5 GROUPS**

INIS: 1986-08-19; ETDE: 1986-09-05

\*BT1 u groups

**U-6 GROUPS**

\*BT1 u groups

**u-70 synchrotron**

2014-12-08

USE serpukhov synchrotron

**U ANTIQUARKS**

2007-06-26

\*BT1 antiquarks

\*BT1 u quarks

**U CENTERS**

\*BT1 color centers

**U CHANNEL**

RT mandelstam representation

RT particle interactions

RT s channel

RT t channel

**U CODES**

BT1 computer codes

**U-GAS PROCESS**

1994-07-01

*Institute of Gas Technology process for producing low-btu gas (140 btu/scf) by reacting crushed coal with air and steam in a single-stage fluidized-bed gasifier at 350 psi and 1900 degrees F.*

\*BT1 coal gasification

**U GROUPS**

\*BT1 lie groups

NT1 u-1 groups

NT1 u-12 groups

NT1 u-2 groups

NT1 u-3 groups

NT1 u-4 groups

NT1 u-5 groups

NT1 u-6 groups

RT unitary symmetry

**u processes**

USE umklapp processes

**U QUARKS**

INIS: 1995-09-08; ETDE: 1995-10-03

\*BT1 quarks

NT1 u antiquarks

RT quarkonium

**U VALUES**

INIS: 2000-04-12; ETDE: 1978-04-06

*Values for heat transfer through materials in btu/hr per unit area as a function of the temperature gradient.*

RT building materials

RT heat transfer

RT r factors

**u3o8**

INIS: 1985-11-18; ETDE: 1975-10-02

*(Prior to December 1985 this was a valid descriptor.)*

USE uranium oxides u3o8

**uar**

USE egyptian arab republic

**UBIQUINONE**

\*BT1 benzoquinones

BT1 coenzymes

RT vitamin k

**UCAP PROCESS**

INIS: 2000-04-12; ETDE: 1980-05-06

\*BT1 desulfurization

RT claus process

**UCBRR REACTOR**

*Berkeley Research Reactor, Univ. of California, Berkeley, California, USA. Shut down in 1987.*

UF berkeley research reactor

UF berkeley triga reactor

UF california berkeley triga reactor

UF university of california, berkeley triga reactor

UF university of california berkeley reactor

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 triga type reactors

**ucirr reactor**

1985-07-19

*(Prior to July 1985, this was a valid ETDE descriptor.)*

USE triga-1-california reactor

**UCLA**

2000-05-22

UF university of california / los angeles

RT california

RT us doe

**uclbl**

USE lawrence berkeley laboratory

**uclll**

USE lawrence livermore laboratory

**UCLRL CYCLOTRONS**

\*BT1 isochronous cyclotrons

NT1 lbl 88-inch cyclotron

**UDIMET 500**

INIS: 2000-04-12; ETDE: 1979-09-06

\*BT1 tungsten alloys

\*BT1 udimet alloys

**UDIMET 700**

1983-11-07

\*BT1 alloy-ni53co19cr15mo5al4ti3

**UDIMET ALLOYS**

\*BT1 chromium alloys

\*BT1 cobalt alloys

\*BT1 heat resisting alloys

\*BT1 molybdenum alloys

\*BT1 nickel base alloys

\*BT1 titanium alloys

NT1 alloy-ni53co19cr15mo5al4ti3

NT2 udimet 700

NT1 udimet 500

**udpg (uridine diphosphoglucose)**

INIS: 2005-01-17; ETDE: 2005-02-01

*(Prior to January 2005 UDPG was a valid descriptor.)*

USE uridine diphosphoglucose

**UFTR REACTOR**

Univ. of Florida, Gainesville, Florida, USA.

UF florida university reactor

UF university of florida reactor

\*BT1 argonaut type reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**UGANDA**

BT1 africa

BT1 developing countries

**uhde-pfirrmann process**

2000-04-12

*A direct conversion of coal to synthetic crude oil by hydrogenation during and after solvent extraction.*

*(Prior to July 1993, this was a valid ETDE descriptor.)*

USE coal liquefaction

**uhf (lower range)**

USE ghz range 01-100

**uhf (upper range)**

USE ghz range 100-1000

**uhf radiation (01-100 ghz)**

USE ghz range 01-100

USE radiowave radiation

**uhf radiation (100-1000 mhz)**

USE mhz range 100-1000

USE radiowave radiation

**uhf radiation (lower range)**

USE mhz range 100-1000

USE radiowave radiation

**uhf radiation (upper range)**

USE ghz range 01-100

USE radiowave radiation

**UHTREX REACTOR**

LANL, Los Alamos, New Mexico, USA.

UF ultrahigh temperature reactor experiment

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 graphite moderated reactors

\*BT1 helium cooled reactors

\*BT1 thermal reactors

**UHV AC SYSTEMS**

INIS: 2000-04-12; ETDE: 1976-05-17

Over 765 kV.

UF ultrahigh voltage alternating current systems

\*BT1 ac systems

**UHV DC SYSTEMS**

INIS: 1992-03-09; ETDE: 1976-05-17

Over 765 kV.

UF ultrahigh voltage dc systems

UF ultrahigh voltage direct current systems

\*BT1 dc systems

**UINTA BASIN**

2000-04-12

RT colorado

RT oil shale deposits

RT uinta formation

RT utah

**UINTA FORMATION**

INIS: 2000-04-12; ETDE: 1975-12-16

*Strata of eocene age and continental origin occurring typically in the Uinta Basin in Utah and Colorado.*

\*BT1 green river formation

RT colorado

RT oil shale deposits

RT oil shales

RT uinta basin

RT utah

**UJD**

2002-12-17

Organisation responsible for use of nuclear energy in Slovakia.

UF nuclear regulatory authority of the slovak republic

UF slovak nuclear regulatory authority

UF urad jadroveho dozoru slovenskej republiky

\*BT1 slovak organizations

**ujm**

INIS: 1976-08-17; ETDE: 1976-11-02

Uncorrelated-jet model.

USE jet model

**UJV**

1997-11-05

Nuclear Research Institute, Rez, Czech Republic.

UF ustav jaderného vyzkumu

UF ustav jaderných vyzkumu

\*BT1 czech organizations

**uk atomic energy authority**

1977-03-14

USE ukaea

**UK NATIONAL PHYSICAL LABORATORY**

INIS: 1994-08-12; ETDE: 1983-03-07

(Until August 1994 this descriptor was spelled UK NATIONALPHYSICAL LAB.)

\*BT1 united kingdom organizations

**UK NII**

INIS: 1983-06-02; ETDE: 1983-07-07

HM Nuclear Installations Inspectorate.

UF nii (uk)

UF nuclear installations inspectorate

UF uk nuclear installations inspectorate

\*BT1 united kingdom organizations

**uk nuclear installations inspectorate**

INIS: 1993-11-10; ETDE: 1983-07-07

USE uk nii

**uk royal naval college-jason reactor**

1993-11-10

USE jason reactor

**UKAEA**

UF uk atomic energy authority

\*BT1 united kingdom organizations

NT1 aere

NT1 culham laboratory

RT united kingdom

**ukaea-dido reactor**

USE dido reactor

**ukaea-juno reactor**

USE juno reactor

**ukaea-lido reactor**

USE lido reactor

**ukaea-merlin reactor**

2000-04-12

USE merlin reactor

**ukaea-nestor reactor**

USE nestor reactor

**UKNR REACTOR**

2000-04-12

Univ. of Kansas, Lawrence, Kansas, USA.

UF university of kansas nuclear reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**UKRAINE**

INIS: 1997-08-20; ETDE: 1993-02-08

(Until January 1993, this was indexed by UKRAINIAN SSR.)

UF ukrainian ssr

SF soviet union

SF union of soviet socialist republics

SF ussr

\*BT1 eastern europe

NT1 crimea

RT black sea

RT danube river

RT dneiper river

RT pripet river

**UKRAINIAN ORGANIZATIONS**

INIS: 1999-07-08; ETDE: 1999-08-30

BT1 national organizations

**ukrainian ssr**

1993-02-02

(Until January 1993, this was a valid descriptor.)

USE ukraine

**ulcc**

INIS: 2000-04-12; ETDE: 1976-08-04

USE tanker ships

**ULCERS**

BT1 pathological changes

RT fistulae

RT gangrene

RT necrosis

**ULCHIN-1 REACTOR**

1991-07-02

Ulchin, Republic of Korea.

UF hanul-1 reactor

UF uljin-1 reactor

\*BT1 pwr type reactors

**ULCHIN-2 REACTOR**

1991-07-02

Ulchin, Republic of Korea.

UF hanul-2 reactor

UF uljin-2 reactor

\*BT1 pwr type reactors

**ULCHIN-3 REACTOR**

INIS: 1997-10-03; ETDE: 1998-02-24

Ulchin, Republic of Korea.

UF hanul-3 reactor

\*BT1 pwr type reactors

**ULCHIN-4 REACTOR**

1997-10-03

Ulchin, Republic of Korea.

UF hanul-4 reactor

\*BT1 pwr type reactors

**ULCHIN-5 REACTOR**

2017-10-25

Ulchin, Republic of Korea.

\*BT1 pwr type reactors

**ULCHIN-6 REACTOR**

2017-10-25

Ulchin, Republic of Korea.

UF hanul-6 reactor

\*BT1 pwr type reactors

**uljin-1 reactor**

1991-07-02

USE ulchin-1 reactor

**uljin-2 reactor**

1991-07-02

USE ulchin-2 reactor

**ultimate storage**

INIS: 1982-12-06; ETDE: 2002-05-11

USE waste disposal

**ULTIMATE STRENGTH**

1980-05-14

UF strength (ultimate)

BT1 mechanical properties

RT tensile properties

**ULTRACENTRIFUGATION**

\*BT1 centrifugation

RT cell constituents

RT centrifuge enrichment plants

RT gas centrifugation

RT subcellular distribution

**ultracentrifuge enrichment plants**

INIS: 1978-02-23; ETDE: 1978-04-27

USE centrifuge enrichment plants

**ULTRACENTRIFUGES**

\*BT1 centrifuges

RT centrifugation

RT gas centrifuges

RT isotope separation

**ULTRACOLD NEUTRONS**

\*BT1 cold neutrons

RT neutron converters

RT neutron guides

**ULTRAFILTRATION**

\*BT1 filtration

RT filters

RT glomeruli

RT sampling

**ultrahigh frequency (lower range)**

1993-11-10

USE ghz range 01-100

**ultrahigh frequency (upper range)**

1993-11-10

USE ghz range 100-1000

**ultrahigh frequency radiation (01-100 ghz)**

1993-11-10

USE ghz range 01-100

USE radiowave radiation

**ultrahigh frequency radiation (100-1000 mhz)**

1993-11-10

USE mhz range 100-1000

USE radiowave radiation

**ultrahigh frequency radiation (lower range)**

1993-11-10

USE mhz range 100-1000

USE radiowave radiation

**ultrahigh frequency radiation (upper range)**

1993-11-10

USE ghz range 01-100

USE radiowave radiation

**ULTRAHIGH-SPEED PHOTOGRAPHY**

BT1 photography

**ultrahigh temperature**

1992-07-03

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range over 4000 k



**ultrahigh temperature reactor experiment**

1993-11-10

USE uhtrex reactor

**ultrahigh vacuum**

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range below 1 nano pa

SEE pressure range micro pa

SEE pressure range nano pa

**ultrahigh voltage alternating current systems**

INIS: 2000-04-12; ETDE: 1976-05-17

USE uhv ac systems

**ultrahigh voltage dc systems**

INIS: 1992-03-09; ETDE: 2002-05-11

USE uhv dc systems

**ultrahigh voltage direct current systems**

INIS: 2000-04-12; ETDE: 1976-05-17

USE uhv dc systems

**ULTRALOW FREQUENCY RADIATION**

\*BT1 electromagnetic radiation

**ultralow temperature**

1992-01-23

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 0000-0013 k

**ultramarine**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE pigments

**ULTRASONIC BUBBLE CHAMBERS**

\*BT1 bubble chambers

**ULTRASONIC MACHINING**

BT1 machining

**ULTRASONIC TESTING**

\*BT1 acoustic testing

RT acoustic measurements

RT ultrasonic waves

**ULTRASONIC WAVES**

UF ultrasonics

BT1 sound waves

RT cavitation

RT ultrasonic testing

RT ultrasonography

**ULTRASONIC WELDING**

\*BT1 welding

**ultrasonics**

USE ultrasonic waves

**ULTRASONOGRAPHY**

INIS: 1986-05-26; ETDE: 1978-09-11

UF echography

BT1 diagnostic techniques

RT ultrasonic waves

**ULTRASTRUCTURAL CHANGES**

BT1 morphological changes

RT biological repair

RT cell constituents

RT cytology

RT electron microscopy

RT photoreactivation

**ULTRAVIOLET DIVERGENCES**

UF divergences (ultraviolet)

RT quantum electrodynamics

**ULTRAVIOLET RADIATION**

\*BT1 electromagnetic radiation

NT1 extreme ultraviolet radiation

NT1 far ultraviolet radiation

NT1 near ultraviolet radiation

RT photoreactivation

RT raman effect

RT ultraviolet spectra

**ULTRAVIOLET SPECTRA**

2000-05-22

BT1 spectra

NT1 extreme ultraviolet spectra

RT absorption spectroscopy

RT electronic structure

RT structural chemical analysis

RT ultraviolet radiation

**ULTRAVIOLET SPECTROMETERS**

INIS: 1978-08-14; ETDE: 1978-10-19

\*BT1 spectrometers

**ULVA**

\*BT1 algae

**ulyanovsk reactor vk-50**

USE vk-50 reactor

**ULYSSE REACTOR**

INSTN, CEN, Saclay, France. Shut down since 2007. Under decommissioning.

\*BT1 argonaut type reactors

\*BT1 thermal reactors

\*BT1 training reactors

**UMKLAPP PROCESSES**

UF u processes

\*BT1 electromagnetic interactions

RT crystals

RT electric conductivity

RT electrons

RT phonons

RT thermal conductivity

**umm al qaiwan**

INIS: 1992-05-07; ETDE: 1976-08-05

USE united arab emirates

**UMNE-1 REACTOR**

Univ. of Maryland, College Park, Maryland, USA.

UF maryland univ. reactor

UF umr reactor

UF university of maryland reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**umohoite**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

**UMP**

1982-02-09

UF uridine monophosphate

\*BT1 nucleotides

RT uridine

**umr reactor**

USE umne-1 reactor

**UMRR REACTOR**

Univ. of Missouri-Rolla, Rolla, Missouri, USA.

UF missouri school of mines reactor

UF missouri university/rolla research reactor

UF msmr reactor

UF rolla research reactor

UF university of missouri/rolla research reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**un scientific committee on effects of atomic radiation**

INIS: 1993-11-10; ETDE: 2002-05-11

USE unsear

**unbihexium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 126

**unbinilium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 120

**unbioctium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 128

**unbiquadium**

2010-05-19

USE element 124

**uncertainty in data values**

INIS: 1985-12-10; ETDE: 1981-08-21

USE data covariances

**UNCERTAINTY PRINCIPLE**

UF heisenberg principle

RT quantum mechanics

**UNCONSOLIDATED ROCK**

2009-12-21

Rock that is weakly cemented or so poorly consolidated that it disintegrates under forces exerted upon it.

UF weakly cemented formations

BT1 geologic structures

RT rocks

**UNCONTROLLED BORON DILUTION**

2017-07-18

UF boron dilution accident

\*BT1 reactor accidents

**uncorrelated-jet model**

INIS: 1976-08-17; ETDE: 1976-11-02

USE jet model

**UNCORRELATED-PARTICLE MODEL**

\*BT1 particle models

RT jet model

**UNDERGROUND**

(From November 1976 till March 1997

UNDERGROUND SPACE was a valid ETDE descriptor.)

SF subsurface environments

SF underground space

BT1 levels

RT aquifers

RT ground water

RT soils

RT underground storage

**underground buildings**

INIS: 2000-04-12; ETDE: 1977-09-19

USE earth-covered buildings

**UNDERGROUND DISPOSAL**

For disposal of wastes deep underground.

SF waste burial

\*BT1 waste disposal

RT asse salt mine  
 RT backfilling  
 RT boom clay  
 RT disposal wells  
 RT gases  
 RT gorleben salt dome  
 RT ground cover  
 RT ground disposal  
 RT hydraulic conductivity  
 RT konrad ore mine  
 RT morsleben salt mine  
 RT opalinus clay  
 RT radioactive waste disposal  
 RT reinjection  
 RT salt deposits  
 RT shaft excavations  
 RT underground facilities

**UNDERGROUND EXPLOSIONS**

1996-07-23

(The UF references have been valid ETDE descriptors.)

UF agrini event  
 UF almendro event  
 UF baneberry event  
 UF benham event  
 UF bowline operation  
 UF boxcar event  
 UF calabash event  
 UF cannikin event  
 UF carpetbag event  
 UF dining car event  
 UF emery operation  
 UF essex i project  
 UF faultless event  
 UF flintlock operation  
 UF fulcrum operation  
 UF fusileer operation  
 UF greeley event  
 UF halfbeak event  
 UF handcar event  
 UF handley event  
 UF husky ace event  
 UF hutch event  
 UF jorum event  
 UF latir event  
 UF marvel event  
 UF mighty epic event  
 UF milrow event  
 UF miniata event  
 UF palanquin event  
 UF pin stripe event  
 UF portmanteau event  
 UF redmud event  
 UF rulison event  
 UF schooner event  
 UF scotch event  
 UF tybo event  
 BT1 explosions  
 NT1 arbor project  
 NT1 contained explosions  
 NT1 crosstie operation  
 NT2 gasbuggy event  
 NT1 grommet operation  
 NT1 latchkey operation  
 NT1 mandrel operation  
 NT1 nougat operation  
 NT1 sun beam operation  
 NT1 toggle operation  
 NT2 rio blanco event  
 NT1 whetstone operation  
 RT anvil project  
 RT bedrock project  
 RT cavities  
 RT chemical explosions  
 RT chimneys  
 RT cratering explosions  
 RT craters  
 RT explosive fracturing

RT explosive stimulation  
 RT ground motion  
 RT in-country detection  
 RT in-situ processing  
 RT landslides  
 RT mining  
 RT nuclear excavation  
 RT nuclear explosion detection  
 RT nuclear explosions  
 RT plowshare project  
 RT praetorian project  
 RT rayleigh waves  
 RT seismic detection  
 RT seismic effects  
 RT seismic p waves  
 RT seismic s waves  
 RT seismic waves  
 RT seismographs  
 RT seismology  
 RT thunderbird project  
 RT underground mining  
 RT underwater explosions  
 RT upshot project  
 RT vela project

**UNDERGROUND FACILITIES**

INIS: 1986-07-09; ETDE: 1982-05-12

(From November 1976 till March 1997

UNDERGROUND SPACE was a valid ETDE descriptor.)

UF facilities (underground)  
 SF underground space  
 NT1 hades underground research facility  
 NT1 mines  
 NT2 asse salt mine  
 NT2 coal mines  
 NT2 konrad ore mine  
 NT2 uranium mines  
 NT3 beaverlodge mine  
 NT3 cluff lake mine  
 NT3 key lake mine  
 NT3 mary kathleen mines  
 NT3 olympic dam mine  
 NT3 osamu utsumi mine  
 NT3 rum jungle mine  
 NT3 stanleigh mine  
 NT1 tunnels  
 NT2 mine roadways  
 NT1 underground nuclear stations  
 NT1 wipp  
 RT energy facilities  
 RT fallout shelters  
 RT nuclear facilities  
 RT subsurface structures  
 RT sudbury neutrino observatory  
 RT underground disposal  
 RT underground storage

**underground gasification**

INIS: 2000-04-12; ETDE: 1978-05-03

USE in-situ gasification

**underground heat distribution systems**

INIS: 2000-05-04; ETDE: 1976-05-17

USE heat distribution systems

**UNDERGROUND MINING**

1997-06-17

BT1 mining  
 NT1 advance mining  
 NT1 caving mining  
 NT1 longwall mining  
 NT1 retreat mining  
 NT1 room and pillar mining  
 NT1 shortwall mining  
 NT1 slice mining  
 RT caving  
 RT coal mining  
 RT cratering explosions

RT excavation  
 RT fracturing  
 RT mine draining  
 RT mine drivage  
 RT mine roadways  
 RT mine shafts  
 RT mines  
 RT mining engineering  
 RT modified in-situ processes  
 RT oil shale mining  
 RT panels  
 RT stowing  
 RT strata movement  
 RT surface mining  
 RT tunneling  
 RT underground explosions

**underground nuclear power plants**

USE underground nuclear stations

**UNDERGROUND NUCLEAR STATIONS**

UF underground nuclear power plants  
 \*BT1 nuclear power plants  
 BT1 underground facilities  
 RT power reactors  
 RT reactor sites

**UNDERGROUND POWER TRANSMISSION**

1993-03-18

BT1 power transmission  
 RT power systems

**underground space**

INIS: 2000-04-12; ETDE: 1976-11-17

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE cavities  
 SEE underground  
 SEE underground facilities

**UNDERGROUND STORAGE**

INIS: 1977-06-13; ETDE: 1976-11-17

BT1 storage  
 RT cavities  
 RT energy storage  
 RT geologic deposits  
 RT strategic petroleum reserve  
 RT subsurface structures  
 RT underground  
 RT underground facilities  
 RT us naval petroleum reserves  
 RT waste storage

**UNDERWATER**

BT1 levels  
 RT dumand project  
 RT underwater operations

**UNDERWATER EXPLOSIONS**

UF swordfish event  
 BT1 explosions  
 RT crossroads project  
 RT dominic project  
 RT nuclear excavation  
 RT nuclear explosions  
 RT underground explosions

**UNDERWATER FACILITIES**

INIS: 1999-03-12; ETDE: 1977-03-08

UF facilities (underwater)  
 RT diving operations  
 RT dumand project  
 RT manipulators  
 RT offshore operations  
 RT underwater operations

**UNDERWATER OPERATIONS**

INIS: 1992-10-20; ETDE: 1977-03-08

NT1 diving operations

RT manipulators  
 RT offshore operations  
 RT underwater  
 RT underwater facilities

**underwater vehicles**

INIS: 2000-04-12; ETDE: 1977-01-28  
 USE submarines

**UNDP**

INIS: 2005-12-19; ETDE: 2006-01-25  
 UF united nations development program  
 BT1 international organizations  
 RT united nations

**undulators**

INIS: 1987-08-27; ETDE: 1987-10-02  
 USE wiggler magnets

**unemployment**

INIS: 1993-01-27; ETDE: 1977-08-09  
 USE employment

**UNEP**

INIS: 1999-08-16; ETDE: 2002-05-11  
 United Nations Environmental Programme.  
 BT1 international organizations  
 RT united nations

**UNESCO**

INIS: 1975-11-07; ETDE: 1975-12-16  
 United Nations Educational, Scientific and Cultural Organization.  
 BT1 international organizations  
 RT united nations

**UNFCCC**

2010-03-03  
 UF united nations framework convention on climate change  
 \*BT1 multilateral agreements  
 RT climatic change  
 RT paris agreement  
 RT redd

**UNFINISHED OILS**

INIS: 2000-04-12; ETDE: 1979-12-10  
 All petroleum requiring further refinery processing.  
 BT1 petroleum products

**UNGLAZED SOLAR COLLECTORS**

INIS: 2000-04-12; ETDE: 1979-02-27  
 \*BT1 solar collectors

**UNH**

ETDE: 1978-03-08  
 UF uranyl nitrate hexahydrate  
 BT1 hydrates  
 \*BT1 uranyl nitrates

**unhexquadium**

INIS: 1985-12-10; ETDE: 2002-05-11  
 USE element 164

**UNICELLULAR ALGAE**

\*BT1 algae  
 BT1 microorganisms  
 NT1 chlamydomonas  
 NT1 chlorella  
 NT1 euglena  
 NT1 scenedesmus  
 RT plankton

**unicracking/hds process**

INIS: 2000-04-12; ETDE: 1982-05-12  
 Fixed-bed catalytic process for desulfurization of crudes and petroleum residues in the presence of hydrogen.  
 USE desulfurization

**UNIDIR**

1999-01-26  
 UF united nations institute for disarmament research  
 BT1 international organizations  
 RT arms control  
 RT nuclear weapons  
 RT united nations

**UNIDO**

INIS: 1988-06-22; ETDE: 1988-07-15  
 United Nations Industrial Development Organization.  
 BT1 international organizations  
 RT austria  
 RT united nations

**UNIFIED FIELD THEORIES**

INIS: 1995-08-10; ETDE: 1983-03-24  
 To be used for theories unifying gravitation with other interactions. For quantum field theory involving only electromagnetic, weak and strong interactions see GRAND UNIFIED THEORY.  
 (Prior to April 1983 this concept was indexed by EINSTEIN-SCHROEDINGER THEORY.)

BT1 field theories  
 NT1 einstein-schroedinger theory  
 NT1 kaluza-klein theory  
 NT1 supergravity  
 NT1 weinberg-salam gauge model  
 NT1 weyl unified theory  
 RT fundamental interactions  
 RT grand unified theory  
 RT gravitation  
 RT high-energy limit  
 RT low-energy limit  
 RT quantum gravity  
 RT supersymmetry  
 RT twistor theory  
 RT unified gauge models

**UNIFIED GAUGE MODELS**

1995-08-10  
 \*BT1 particle models  
 \*BT1 quantum field theory  
 NT1 grand unified theory  
 NT2 standard model  
 NT1 weinberg-salam gauge model  
 RT gauge invariance  
 RT inflationary universe  
 RT kaluza-klein theory  
 RT unified field theories

**UNIFIED MODEL**

\*BT1 nuclear models

**UNILAC**

1975-10-09  
 \*BT1 heavy ion accelerators  
 \*BT1 linear accelerators  
 RT fair accelerator complex

**UNINTERRUPTIBLE POWER SUPPLIES**

2006-08-23  
 UF ups  
 \*BT1 power supplies

**union carbide waste processing system**

INIS: 2000-04-12; ETDE: 1975-11-26  
 USE purox pyrolysis process

**union of soviet socialist republics**

2000-04-12  
 All the constituents of the former USSR are listed below; use one or more as required.  
 (Prior to September 1997 USSR was used for this concept.)  
 SEE armenia

SEE azerbaijan  
 SEE belarus  
 SEE estonia  
 SEE kazakhstan  
 SEE kyrgyzstan  
 SEE latvia  
 SEE lithuania  
 SEE moldova  
 SEE republic of georgia  
 SEE russian federation  
 SEE tajikistan  
 SEE turkmenistan  
 SEE ukraine  
 SEE uzbekistan

**UNION OIL PROCESS**

2000-04-12  
 A shale retorting process of the direct-heated type, using air injected into a moving bed of coarsely crushed shale to support combustion to supply process heat.  
 RT oil shales

**unipolar transistors**

USE field effect transistors

**unisist**

1996-07-15  
 (Until June 1996 this was a valid descriptor.)  
 SEE information retrieval  
 SEE information systems

**UNISULF PROCESS**

INIS: 2000-04-12; ETDE: 1983-03-23  
 Involves Union Oil proprietary solvent used in their Stretford units.  
 \*BT1 desulfurization  
 \*BT1 waste processing

**unit tenaga nuklear (malaysia)**

INIS: 1985-10-23; ETDE: 1985-11-13  
 USE puspati

**UNITARITY**

RT nonunitary representations  
 RT s matrix  
 RT unitary symmetry

**UNITARY POLE APPROXIMATION**

\*BT1 approximations  
 RT k matrix  
 RT many-body problem  
 RT s matrix

**UNITARY SYMMETRY**

BT1 symmetry  
 RT su groups  
 RT u groups  
 RT unitarity

**UNITED ARAB EMIRATES**

INIS: 1992-05-07; ETDE: 1976-08-04  
 UF abu dhabi  
 UF ajman  
 UF dubai  
 UF fujaira  
 UF ras al khaima  
 UF sharja  
 UF umm al qaiwan  
 BT1 arab countries  
 BT1 asia  
 RT oapec  
 RT opec

**united arab republic**

USE egyptian arab republic

**united arab republic wwr-c reactor**

1993-11-10  
 USE wwr-s-cairo reactor

**UNITED KINGDOM**

1995-04-03

UF england  
 UF great britain  
 UF northern ireland  
 UF scotland  
 SF gibraltar  
 BT1 developed countries  
 \*BT1 western europe  
 RT bermuda  
 RT hbt devices  
 RT irish sea  
 RT oecd  
 RT severn river  
 RT ukaea

**UNITED KINGDOM****ORGANIZATIONS**

BT1 national organizations  
 NT1 bnfl  
 NT1 british coal  
 NT1 ncsr  
 NT1 nrpb  
 NT1 uk national physical laboratory  
 NT1 uk nii  
 NT1 ukaea  
 NT2 aere  
 NT2 culham laboratory

**UNITED NATIONS**

1998-06-10

BT1 international organizations  
 RT ctbto  
 RT fao  
 RT iaea  
 RT ilo  
 RT imo  
 RT undp  
 RT unep  
 RT unesco  
 RT unidir  
 RT unido  
 RT unscar  
 RT who  
 RT wmo

**united nations development program**

INIS: 2005-12-19; ETDE: 2006-01-25

USE undp

**united nations framework convention on climate change**

2010-03-03

USE unfcc

**united nations institute for disarmament research**

2006-01-31

USE unidir

**united nuclear corporation proof test reactor**

2000-04-12

USE ptf-unc reactor

**UNITED REPUBLIC OF TANZANIA**

(Prior to July 2003, the shorter form TANZANIA was used.)

UF tanzania (united republic of)  
 BT1 africa  
 BT1 developing countries

**united states of america**

USE usa

**united states uranium registry**

INIS: 1994-02-28; ETDE: 1981-07-06

USE usur

**UNITHIOL**

\*BT1 dithiols  
 \*BT1 sulfonic acids  
 RT dimercaprol

**UNITON**

\*BT1 natural units  
 RT gravitational fields  
 RT gravitons

**UNITS**

NT1 degree days  
 NT1 natural units  
 NT2 uniton  
 NT1 radiation dose units  
 NT1 reactivity units  
 NT2 dollars  
 NT2 inhours  
 NT1 si units

**UNIVAC COMPUTERS**

BT1 computers

**universal blackbody radiation**

USE blackbody radiation

**UNIVERSE**

UF cosmos  
 UF metagalaxy  
 RT cosmological critical density  
 RT cosmological models  
 RT cosmology  
 RT galactic evolution  
 RT holographic principle  
 RT hubble effect  
 RT intergalactic space  
 RT nonluminous matter  
 RT relict radiation

**universite catholique louvain cyclotron**

INIS: 1993-11-10; ETDE: 2002-05-11

USE cyclone cyclotron

**universities**

INIS: 1983-06-30; ETDE: 1983-07-20

USE educational facilities

**university minas gerais triga reactor**

1993-11-10

USE triga-brazil reactor

**university of alberta slowpoke reactor**

INIS: 1993-11-03; ETDE: 1980-01-24

USE slowpoke-alberta reactor

**university of california, berkeley triga reactor**

INIS: 1993-11-10; ETDE: 2002-05-11

USE ucbr reactor

**university of california / los angeles**

1993-11-10

USE ucla

**university of california berkeley reactor**

2000-04-12

USE ucbr reactor

**university of california irvine reactor**

1993-11-10

USE triga-1-california reactor

**university of california lawrence radiation laboratory**

1993-11-10

USE lawrence berkeley laboratory

**university of florida reactor**

2000-04-12

USE uflr reactor

**university of illinois lopra reactor**

2000-04-12

USE lopra reactor

**university of illinois triga-mk-2 reactor**

INIS: 1993-11-10; ETDE: 2002-05-11

USE triga-2-illinois reactor

**university of illinois triga-mk-ii reactor**

2000-04-12

USE triga-2-illinois reactor

**university of kansas nuclear reactor**

2000-04-12

USE uknr reactor

**university of maryland reactor**

2000-04-12

USE umne-1 reactor

**university of missouri/columbia research reactor**

1993-11-10

USE murr reactor

**university of missouri/rolla research reactor**

1993-11-10

USE umrr reactor

**university of montreal slowpoke reactor**

INIS: 1993-11-10; ETDE: 1980-01-24

USE slowpoke-montreal reactor

**university of nevada l-77 reactor**

2000-04-12

USE nevada university reactor

**university of teheran research reactor**

1993-11-10

USE utr reactor

**university of texas triga reactor**

1993-11-10

USE triga-texas reactor

**university of toronto slowpoke reactor**

INIS: 1993-11-10; ETDE: 1980-01-24

USE slowpoke-toronto reactor

**university of virginia reactor**

2000-04-12

USE uvar reactor

**university of washington reactor**

2000-04-12

USE uwtr reactor

**university of wisconsin nuclear reactor**

1993-11-10

USE uwnr reactor

**university of wisconsin tokamak**

2000-04-12

USE uwmak devices

**university training reactor queen mary**

1993-11-10

USE queen mary college utr-b reactor

**UNLEADED GASOLINE**

INIS: 1992-07-21; ETDE: 1976-11-01

UF lead-free gasoline

\*BT1 gasoline

RT gasoline service stations

**UNLOADING**

INIS: 1997-06-05; ETDE: 1978-06-14

(Until June 1997 this concept was indexed to MATERIALS HANDLING.)

BT1 materials handling

RT loading

**unloading (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-05-11

USE reactor fueling

**unloading (reactor)**

2000-04-12

USE reactor fueling

**unnilennium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE meitnerium

**unnihexium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE seaborgium

**unniloctium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE hassium

**unnilpentium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE dubnium

**unnilquadium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE rutherfordium

**unnilseptium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE bohrium

**unobserved matter**

INIS: 1985-01-17; ETDE: 2002-05-11

In outer space.

USE nonluminous matter

**unpinch devices**

USE linear hard core pinch devices

**unquadpentium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 145

**UNSCEAR**

INIS: 1975-10-09; ETDE: 1975-12-16

United Nations Scientific Committee on Effects of Atomic Radiation.

UF un scientific committee on effects of atomic radiation

BT1 international organizations

RT dose limits

RT radiation hazards

RT united nations

**UNSEALED SOURCES**

BT1 radiation sources

RT internal irradiation

RT radionuclide kinetics

**unseen matter**

INIS: 1985-01-17; ETDE: 2002-05-11

In outer space.

USE nonluminous matter

**unsepttrium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 173

**unsolicited proposals**

INIS: 2000-04-12; ETDE: 1983-05-21

USE proposals

**UNSTEADY FLOW**

BT1 fluid flow

**UNTERWESER REACTOR**

Permanent shutdown since 2011.

UF kku reactor

\*BT1 pwr type reactors

**untriquadium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 134

**ununbium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE copernicium

**ununennium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 119

**ununhexium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE livermorium

**ununnilium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE darmstadtium

**ununoctium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE oganesson

**ununpentium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE moscovium

**ununquadium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE flerovium

**ununseptium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE tennessine

**ununtrium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE nihonium

**unununium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE roentgenium

**upper volta**

(Prior to February 2005 this was a valid descriptor.)

USE burkina faso

**UPPSALA SYNCHROCYCLOTRON**

\*BT1 synchrocyotrons

RT celsius storage ring

**ups**

2006-08-23

USE uninterruptible power supplies

**UPSHOT PROJECT**

UF project upshot

RT nuclear explosions

RT underground explosions

**upsilon-10000 resonances**

INIS: 1987-12-21; ETDE: 1979-09-06

(Prior to December 1987 this was a valid descriptor.)

USE upsilon-10023 mesons

**UPSILON-10023 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by UPSILON-10000 RESONANCES.)

UF upsilon-10000 resonances

\*BT1 bottomonium

\*BT1 vector mesons

**upsilon-10350 resonances**

INIS: 1987-12-21; ETDE: 1983-04-28

(Prior to December 1987 this was a valid descriptor.)

USE upsilon-10355 mesons

**UPSILON-10355 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by UPSILON-10350 RESONANCES.)

UF upsilon-10350 resonances

\*BT1 bottomonium

\*BT1 vector mesons

**upsilon-10500 resonances**

INIS: 1987-12-21; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

USE upsilon-10580 mesons

**upsilon-10575 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(From December 1987 until July 1995 this was a valid term.)

USE upsilon-10580 mesons

**UPSILON-10580 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by UPSILON-10500

RESONANCES; from then until July 1995 it was indexed by UPSILON-10575 MESONS.)

UF upsilon-10500 resonances

UF upsilon-10575 mesons

\*BT1 bottomonium

\*BT1 vector mesons

**UPSILON-10860 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 bottomonium

\*BT1 vector mesons

**UPSILON-11020 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 bottomonium

\*BT1 vector mesons

**UPSILON-9460 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by UPSILON-9500 RESONANCES.)

UF upsilon-9500 resonances

\*BT1 bottomonium

\*BT1 vector mesons

**upsilon-9500 resonances**

INIS: 1987-12-21; ETDE: 1978-07-05

(Prior to December 1987 this was a valid descriptor.)

USE upsilon-9460 mesons

**upsilon resonances**

INIS: 1988-03-08; ETDE: 1978-02-14

(Prior to December 1987 this was a valid descriptor.)

SEE bottomonium

SEE vector mesons

**UPTAKE**

UF incorporation (biological)

NT1 foliar uptake

NT1 intestinal absorption

NT1 root absorption  
 NT1 skin absorption  
 RT biological availability  
 RT intake  
 RT phosphoenolpyruvate  
 RT radionuclide kinetics  
 RT rectal administration  
 RT retention

**UPWELLING**

INIS: 1993-02-18; ETDE: 1977-11-09  
*The process by which water rises from a deeper to a shallower depth.*  
 RT downwelling  
 RT oceanic circulation  
 RT water currents

**URACH GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1984-09-05  
*Located in the Schwabian Alb, Federal Republic of Germany.*  
 BT1 geothermal fields  
 RT federal republic of germany

**uracil-6-carboxylic acid**

USE orotic acid

**URACILS**

\*BT1 hydroxy compounds  
 \*BT1 pyrimidines  
 NT1 bromouracils  
 NT2 budr  
 NT1 chlorouracils  
 NT1 deoxyuridine  
 NT1 fluorouracils  
 NT2 fudr  
 NT1 iodouracils  
 NT2 iododeoxyuridine  
 NT1 orotic acid  
 NT1 thiouracil  
 NT1 thymine  
 NT1 uridine  
 RT uridine diphosphoglucose  
 RT uridylic acid

**urad jadroveho dozoru slovenskej republiky**

2002-12-17  
 USE ujd

**uragan-2 stellarator**

INIS: 1984-06-21; ETDE: 2002-05-24  
 USE uragan stellarator

**uragan-3 stellarator**

INIS: 1984-06-21; ETDE: 2002-05-24  
 USE torsatron stellarators

**URAGAN STELLARATOR**

UF uragan-2 stellarator  
 \*BT1 stellarators

**ural computers**

1996-07-15  
 (Until June 1996 this was a valid descriptor.)  
 USE computers

**ural mountains**

INIS: 2000-04-12; ETDE: 1976-05-17  
 USE urals

**URALS**

UF ural mountains  
 BT1 mountains  
 RT kazakhstan  
 RT russian federation

**urals atomic power station**

SEE beloyarsk-1 reactor  
 SEE beloyarsk-2 reactor  
 SEE beloyarsk-3 reactor

**URANATES**

1996-07-23  
 BT1 oxygen compounds  
 \*BT1 uranium compounds  
 NT1 ammonium uranates  
 NT2 adu  
 NT1 bismuth uranates  
 NT1 cesium uranates  
 NT1 lithium uranates  
 NT1 potassium uranates  
 NT1 rubidium uranates  
 NT1 sodium uranates  
 NT1 strontium uranates  
 NT1 thallium uranates

**URANINITES**

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
 NT1 broeggerite  
 NT1 pitchblende  
 RT black sands  
 RT thucholite

**URANIUM**

\*BT1 actinides  
 NT1 depleted uranium  
 NT1 enriched uranium  
 NT2 highly enriched uranium  
 NT2 moderately enriched uranium  
 NT2 slightly enriched uranium  
 NT1 natural uranium  
 NT1 uranium-alpha  
 NT1 uranium-beta  
 NT1 uranium-gamma  
 RT feed materials plants  
 RT natural radioactivity  
 RT nuclear fuels  
 RT uranium ores  
 RT uranium recycle  
 RT uranium requirements

**URANIUM 217**

2007-04-23  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 uranium isotopes

**URANIUM 218**

1992-07-06  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 uranium isotopes

**URANIUM 219**

1993-06-25  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 uranium isotopes

**URANIUM 220**

2007-04-23  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 uranium isotopes

**URANIUM 221**

2007-04-23  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 uranium isotopes

**URANIUM 222**

INIS: 1986-06-09; ETDE: 1988-12-05  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 uranium isotopes

**URANIUM 223**

1991-07-02  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 uranium isotopes

**URANIUM 224**

1991-07-02  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 uranium isotopes

**URANIUM 225**

INIS: 1989-07-19; ETDE: 1977-09-19  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 uranium isotopes

**URANIUM 226**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 uranium isotopes

**URANIUM 227**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 uranium isotopes

**URANIUM 228**

UF uranium i  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 uranium isotopes

**URANIUM 229**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 uranium isotopes

**URANIUM 230**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 uranium isotopes

**URANIUM 231**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 uranium isotopes

**URANIUM 232**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes

- \*BT1 even-even nuclei
- \*BT1 neon 24 decay radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 232 TARGET***ETDE: 1976-07-09*

- BT1 targets

**URANIUM 233**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 neon 24 decay radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 233 TARGET***ETDE: 1976-07-09*

- BT1 targets

**URANIUM 234***UF uranium ii*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 magnesium 28 decay radioisotopes
- \*BT1 neon 24 decay radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 234 TARGET***ETDE: 1976-07-12*

- BT1 targets

**URANIUM 235**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 235 REACTIONS***INIS: 1977-06-14; ETDE: 1977-10-20*

- \*BT1 heavy ion reactions

**URANIUM 235 TARGET***ETDE: 1976-07-09*

- BT1 targets

**URANIUM 236**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 236 TARGET***ETDE: 1976-07-09*

- BT1 targets

**URANIUM 237**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 uranium isotopes

**URANIUM 237 TARGET***ETDE: 1976-07-09*

- BT1 targets

**URANIUM 238**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes

- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 238 BEAMS***INIS: 1977-09-15; ETDE: 1977-11-10*

- \*BT1 radioactive ion beams

**URANIUM 238 REACTIONS***INIS: 1977-03-01; ETDE: 1977-10-20*

- \*BT1 heavy ion reactions

**URANIUM 238 TARGET***ETDE: 1976-07-09*

- UF natural uranium target*
- BT1 targets

**URANIUM 239**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 239 TARGET***ETDE: 1976-07-09*

- BT1 targets

**URANIUM 240**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 uranium isotopes

**URANIUM 240 TARGET***INIS: 1978-07-03; ETDE: 1978-03-08*

- BT1 targets

**URANIUM 241***2004-07-16*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 242***INIS: 1986-06-09; ETDE: 1979-07-24*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 243 TARGET***INIS: 1992-09-23; ETDE: 1981-08-21*

- BT1 targets

**URANIUM ADDITIONS***Alloys containing not more than 1% U are listed here.*

- RT uranium alloys*

**URANIUM ALLOYS***Alloys containing more than 1% U.*

- \*BT1 actinide alloys
- NT1 uranium base alloys
- NT2 alloy-u90nb7zr3
- RT uranium additions*

**URANIUM-ALPHA**

- \*BT1 uranium

**URANIUM ARSENIDES**

- \*BT1 arsenides
- \*BT1 uranium compounds

**URANIUM BASE ALLOYS**

- \*BT1 uranium alloys
- NT1 alloy-u90nb7zr3

**URANIUM-BETA**

- \*BT1 uranium

**URANIUM BLACK**

- \*BT1 oxide minerals
- \*BT1 uranium minerals
- RT uranium oxides*

**URANIUM BORIDES**

- \*BT1 borides
- \*BT1 uranium compounds

**URANIUM BOROHYDRIDES***1999-03-08*

- \*BT1 borohydrides
- \*BT1 uranium compounds

**URANIUM BROMIDES**

- \*BT1 bromides
- \*BT1 uranium halides

**URANIUM CARBIDES**

- \*BT1 carbides
- \*BT1 uranium compounds
- RT mixed carbide fuels*

**URANIUM CARBONATES***1996-11-13*

- \*BT1 carbonates
- \*BT1 uranium compounds
- RT carbonate minerals*
- RT diderichite*
- RT uranium minerals*

**URANIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 uranium halides

**URANIUM COMPLEXES**

- \*BT1 actinide complexes
- NT1 uranyl complexes

**URANIUM COMPOUNDS***1996-11-13*

- BT1 actinide compounds
- NT1 uranates
- NT2 ammonium uranates
- NT3 adu
- NT2 bismuth uranates
- NT2 cesium uranates
- NT2 lithium uranates
- NT2 potassium uranates
- NT2 rubidium uranates
- NT2 sodium uranates
- NT2 strontium uranates
- NT2 thallium uranates
- NT1 uranium arsenides
- NT1 uranium borides
- NT1 uranium borohydrides
- NT1 uranium carbides
- NT1 uranium carbonates
- NT1 uranium halides
- NT2 uranium bromides
- NT2 uranium chlorides
- NT2 uranium fluorides
- NT3 uranium hexafluoride
- NT3 uranium pentafluoride
- NT3 uranium tetrafluoride
- NT2 uranium iodides
- NT1 uranium hydrides
- NT1 uranium hydroxides
- NT1 uranium nitrates
- NT1 uranium nitrides
- NT1 uranium oxides
- NT2 uranium dioxide
- NT2 uranium oxides u3o8
- NT2 uranium trioxide
- NT1 uranium perchlorates
- NT1 uranium peroxide
- NT1 uranium phosphates
- NT1 uranium phosphides
- NT1 uranium selenides

**NT1** uranium silicates  
**NT1** uranium silicides  
**NT1** uranium sulfates  
**NT1** uranium sulfides  
**NT1** uranium tellurides  
**NT1** uranium tungstates  
**NT1** uranium vanadates  
**NT1** uranyl compounds  
**NT2** auc  
**NT2** uranyl carbonates  
**NT2** uranyl halides  
**NT3** uranyl chlorides  
**NT3** uranyl fluorides  
**NT2** uranyl nitrates  
**NT3** unh  
**NT2** uranyl perchlorates  
**NT2** uranyl phosphates  
**NT2** uranyl silicates  
**NT2** uranyl sulfates  
**NT2** uranyl tungstates

**URANIUM CONCENTRATES**

1996-07-08

**BT1** ore concentrates  
**\*BT1** uranium ores  
**RT** feed materials plants  
**RT** ore processing

**URANIUM DEPOSITS**

1996-01-25

**BT1** geologic deposits  
**\*BT1** mineral resources  
**NT1** blizzard deposit  
**NT1** erzgebirge deposit  
**NT1** jabiluka deposit  
**NT1** koongarra deposit  
**NT1** nabarlek deposit  
**NT1** ranger deposit  
**NT1** ranstad deposit  
**NT1** roxby downs deposit  
**NT1** south alligator deposit  
**NT1** yeelirrie deposit  
**RT** chattanooga formation  
**RT** geophysical surveys  
**RT** green river formation  
**RT** natural analogue  
**RT** oklo phenomenon  
**RT** radiometric surveys  
**RT** uranium ores  
**RT** wasatch formation

**URANIUM DIOXIDE****\*BT1** uranium oxides**uranium enrichment***INIS: 1975-08-20; ETDE: 2002-05-24*

USE isotope separation

**uranium enrichment plants***INIS: 1976-04-03; ETDE: 2002-05-24*

USE isotope separation plants

**URANIUM FLUORIDES**

**\*BT1** fluorides  
**\*BT1** uranium halides  
**NT1** uranium hexafluoride  
**NT1** uranium pentafluoride  
**NT1** uranium tetrafluoride

**URANIUM-GAMMA****\*BT1** uranium**URANIUM HALIDES**

2012-07-25

**\*BT1** halides  
**\*BT1** uranium compounds  
**NT1** uranium bromides  
**NT1** uranium chlorides  
**NT1** uranium fluorides  
**NT2** uranium hexafluoride  
**NT2** uranium pentafluoride

**NT2** uranium tetrafluoride**NT1** uranium iodides**URANIUM HEXAFLUORIDE**

**\*BT1** uranium fluorides  
**RT** sequoyah uf6 production plant

**URANIUM HYDRIDES**

**\*BT1** hydrides  
**\*BT1** uranium compounds

**URANIUM HYDROXIDES**

**\*BT1** hydroxides  
**\*BT1** uranium compounds

**uranium i**

USE uranium 228

**uranium ii**

USE uranium 234

**URANIUM INSTITUTE***INIS: 1975-12-09; ETDE: 1976-08-25**An international trade association.***BT1** international organizations**URANIUM IODIDES**

**\*BT1** iodides  
**\*BT1** uranium halides

**URANIUM IONS****\*BT1** ions**URANIUM ISOTOPES**

1999-07-16

**BT1** isotopes  
**NT1** uranium 217  
**NT1** uranium 218  
**NT1** uranium 219  
**NT1** uranium 220  
**NT1** uranium 221  
**NT1** uranium 222  
**NT1** uranium 223  
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**NT1** uranium 238  
**NT1** uranium 239  
**NT1** uranium 240  
**NT1** uranium 241  
**NT1** uranium 242

**uranium mills***INIS: 1993-09-16; ETDE: 1978-07-05*

USE feed materials plants

**URANIUM MINERALS**

1996-11-13

**UF** andersonite  
**UF** bayleyite  
**UF** boltwoodite  
**UF** carburan  
**UF** cuprosklodowskite  
**UF** curite  
**UF** cyrtolite  
**UF** davidite  
**UF** demesmaekerite  
**UF** dumontite  
**UF** euxenite  
**UF** francevillite  
**UF** gummite

**UF** hatchettolite  
**UF** iriginite  
**UF** johannite  
**UF** lermontovite  
**UF** liebigite  
**UF** masuyite  
**UF** moluranite  
**UF** parsonsite  
**UF** phosphuranylite  
**UF** rutherfordite  
**UF** schroeckingerite  
**UF** sharpite  
**UF** steenstrupine  
**UF** strelkinite  
**UF** umohoite  
**UF** uranocircite  
**UF** uranopilite  
**UF** uranothorianite  
**UF** uranotile  
**UF** zeunerite  
**UF** zippelite  
**\*BT1** radioactive minerals  
**NT1** autunite  
**NT1** bassetite  
**NT1** becquerelite  
**NT1** billietite  
**NT1** brannerite  
**NT1** carnotite  
**NT1** clarkeite  
**NT1** coffinite  
**NT1** compregnacite  
**NT1** dewindite  
**NT1** diderichite  
**NT1** djalmaite  
**NT1** ekanite  
**NT1** ellsworthite  
**NT1** ferghanite  
**NT1** fourmarierite  
**NT1** gastunite  
**NT1** guilleminite  
**NT1** hallimondite  
**NT1** heinrichite  
**NT1** ianthinite  
**NT1** kahlerite  
**NT1** kirchheimerite  
**NT1** lodochnikite  
**NT1** mackintoshite  
**NT1** moctezumite  
**NT1** montroseite  
**NT1** naegite  
**NT1** natroautunite  
**NT1** ningyoite  
**NT1** novacekite  
**NT1** para-schoepite  
**NT1** ranquillite  
**NT1** rauvite  
**NT1** sabugalite  
**NT1** saleeite  
**NT1** schoepite  
**NT1** sengierite  
**NT1** sklodowskite  
**NT1** soddyite  
**NT1** thorianite  
**NT1** thucholite  
**NT1** torbernite  
**NT1** tyuyamunite  
**NT1** uraninites  
**NT2** broeggerite  
**NT2** pitchblende  
**NT1** uranium black  
**NT1** uranophane  
**NT1** uranothorite  
**NT1** vesuvianite  
**RT** uranium carbonates  
**RT** uranium oxides  
**RT** uranium phosphates  
**RT** uranium silicates  
**RT** uranium sulfates



**URANIUM MINES**

1996-01-24

- \*BT1 mines
- NT1 beaverlodge mine
- NT1 cluff lake mine
- NT1 key lake mine
- NT1 mary kathleen mines
- NT1 olympic dam mine
- NT1 osamu utsumi mine
- NT1 rum jungle mine
- NT1 stanleigh mine
- RT natural analogue

**URANIUM-MOLYBDENUM FUELS**

2004-01-14

- \*BT1 alloy nuclear fuels

**URANIUM NITRATES**

- \*BT1 nitrates
- \*BT1 uranium compounds

**URANIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 uranium compounds
- RT mixed nitride fuels

**uranium ore reserves**

ETDE: 2002-05-24

- USE uranium reserves

**URANIUM ORES**

1996-07-23

- BT1 ores
- NT1 caldasite
- NT1 uranium concentrates
- RT blizzard deposit
- RT chattanooga formation
- RT erzgebirge deposit
- RT green river formation
- RT jabiluka deposit
- RT koongarra deposit
- RT mining
- RT nabarlek deposit
- RT natural nuclear reactors
- RT oklo phenomenon
- RT ranger deposit
- RT ranstad deposit
- RT roxby downs deposit
- RT solution mining
- RT south alligator deposit
- RT thiobacillus ferrooxidans
- RT uranium
- RT uranium deposits
- RT uranium reserves
- RT yeelirrie deposit

**uranium oxide fuel plant**

- USE mixed oxide fuel fabrication plants

**URANIUM OXIDES**

1996-11-13

- \*BT1 oxides
- \*BT1 uranium compounds
- NT1 uranium dioxide
- NT1 uranium oxides u3o8
- NT1 uranium trioxide
- RT becquerelite
- RT billietite
- RT brannerite
- RT clarkeite
- RT compregnacite
- RT ellsworthite
- RT ferghanite
- RT fourmarierite
- RT guilleminite
- RT hallimondite
- RT heinrichite
- RT ianthinite
- RT kahlerite
- RT kirchheimerite
- RT lodochnikite

- RT moctezumite
- RT naegite
- RT novacekite
- RT oxide minerals
- RT para-schoepite
- RT rauvite
- RT schoepite
- RT sengierite
- RT thorianite
- RT tyuyamunite
- RT uranium black
- RT uranium minerals

**URANIUM OXIDES U3O8**

1985-11-18

(Prior to December 1985 the form U3O8 was used.)

- UF u3o8
- UF yellow cake
- \*BT1 uranium oxides

**URANIUM PENTAFLUORIDE**

INIS: 1977-04-07; ETDE: 1977-06-03

- \*BT1 uranium fluorides

**URANIUM PERCHLORATES**

1975-09-01

- \*BT1 perchlorates
- \*BT1 uranium compounds

**URANIUM PEROXIDE**

INIS: 1977-11-21; ETDE: 1980-10-28

(Prior to July 1985 URANIUM PEROXIDES was a valid ETDE descriptor.)

- \*BT1 peroxides
- \*BT1 uranium compounds

**URANIUM PHOSPHATES**

1996-11-13

- \*BT1 phosphates
- \*BT1 uranium compounds
- RT dewindtite
- RT natroautunite
- RT ningyoite
- RT phosphate minerals
- RT sabugalite
- RT salecite
- RT torbernite
- RT uranium minerals

**URANIUM PHOSPHIDES**

- \*BT1 phosphides
- \*BT1 uranium compounds

**URANIUM RECYCLE**

INIS: 1987-03-24; ETDE: 1987-11-24

- \*BT1 closed fuel cycle
- RT fuel cycle centers
- RT uranium

**URANIUM REQUIREMENTS**

INIS: 1982-12-03; ETDE: 1997-01-24

- BT1 demand
- RT uranium

**URANIUM RESERVES**

1986-05-26

- UF uranium ore reserves
- \*BT1 reserves
- RT mineral resources
- RT uranium ores

**URANIUM SELENIDES**

1976-02-05

- \*BT1 selenides
- \*BT1 uranium compounds

**URANIUM SILICATES**

1996-11-13

- \*BT1 silicates
- \*BT1 uranium compounds
- RT ekanite
- RT mackintoshite

- RT ranquillite
- RT silicate minerals
- RT sklodowskite
- RT soddyite
- RT uranium minerals
- RT uranophane
- RT uranothorite

**URANIUM SILICIDES**

- \*BT1 silicides
- \*BT1 uranium compounds

**URANIUM SULFATES**

1996-11-13

- \*BT1 sulfates
- \*BT1 uranium compounds
- RT sulfate minerals
- RT uranium minerals

**URANIUM SULFIDES**

- \*BT1 sulfides
- \*BT1 uranium compounds

**URANIUM TELLURIDES**

1976-02-05

- \*BT1 tellurides
- \*BT1 uranium compounds

**URANIUM TETRAFLUORIDE**

- \*BT1 uranium fluorides

**URANIUM TRIOXIDE**

- \*BT1 uranium oxides

**URANIUM TUNGSTATES**

1997-01-28

(From October 1996 to February 2008 URANIUM COMPOUNDS + TUNGSTATES was used for this concept.)

- \*BT1 tungstates
- \*BT1 uranium compounds

**URANIUM VANADATES**

- \*BT1 uranium compounds
- \*BT1 vanadates
- RT carnotite

**uranium x 1**

- USE thorium 234

**uranium x 2**

- USE thorium 231

**uranocircite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE phosphate minerals
- USE uranium minerals

**URANOPHANE**

1976-02-05

- \*BT1 silicate minerals
- \*BT1 uranium minerals
- RT calcium silicates
- RT uranium silicates

**uranopilite**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE uranium minerals

**uranothorianite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE oxide minerals
- USE thorium minerals
- USE uranium minerals

**URANOTHORITE**

- \*BT1 silicate minerals

- \*BT1 thorium minerals
- \*BT1 uranium minerals
- RT thorium silicates
- RT uranium silicates

**uranotile**

2000-03-29

(Until June 1996 this was a valid descriptor.)

- USE silicate minerals
- USE uranium minerals

**URANUS PLANET**

- BT1 planets

**URANYL CARBONATES**

INIS: 1990-07-24; ETDE: 1990-08-06

- \*BT1 carbonates
- \*BT1 uranyl compounds

**URANYL CHLORIDES**

INIS: 1982-06-09; ETDE: 1977-06-21

- \*BT1 chlorides
- \*BT1 uranyl halides

**URANYL COMPLEXES**

- \*BT1 uranium complexes
- RT uranyl compounds

**URANYL COMPOUNDS**

1996-11-13

- \*BT1 uranium compounds
- NT1 auc
- NT1 uranyl carbonates
- NT1 uranyl halides
  - NT2 uranyl chlorides
  - NT2 uranyl fluorides
- NT1 uranyl nitrates
  - NT2 unh
- NT1 uranyl perchlorates
- NT1 uranyl phosphates
- NT1 uranyl silicates
- NT1 uranyl sulfates
- NT1 uranyl tungstates
- RT uranyl complexes

**URANYL FLUORIDES**

1982-06-09

- \*BT1 fluorides
- \*BT1 uranyl halides

**URANYL HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 uranyl compounds
- NT1 uranyl chlorides
- NT1 uranyl fluorides

**uranyl nitrate hexahydrate**

ETDE: 1978-03-08

- USE unh

**URANYL NITRATES**

- \*BT1 nitrates
- \*BT1 uranyl compounds
- NT1 unh

**URANYL PERCHLORATES**

1985-09-06

- \*BT1 perchlorates
- \*BT1 uranyl compounds

**URANYL PHOSPHATES**

INIS: 1978-07-31; ETDE: 1978-09-11

- \*BT1 phosphates
- \*BT1 uranyl compounds

**URANYL SILICATES**

INIS: 1982-02-09; ETDE: 1981-07-06

- \*BT1 silicates
- \*BT1 uranyl compounds

**URANYL SULFATES**

- \*BT1 sulfates

- \*BT1 uranyl compounds

**URANYL TUNGSTATES**

INIS: 1997-01-28; ETDE: 1988-12-02

(From October 1996 to February 2008 URANYL COMPOUNDS + TUNGSTATES was used for this concept.)

- \*BT1 tungstates
- \*BT1 uranyl compounds

**URBAN AREAS**

(From September 1977 till March 1997 PLANNED COMMUNITIES was a valid ETDE descriptor.)

- UF cities
- UF metropolitan areas
- UF suburbs
- SF planned communities
- NT1 atlanta
- NT1 chattanooga
- NT1 chicago
- NT1 cleveland
- NT1 los alamos
- NT1 los angeles
- NT1 new york city
- NT1 oak ridge
- NT1 pittsburgh
- NT1 richland
- RT aesthetics
- RT boom towns
- RT canyons
- RT heat islands
- RT residential sector
- RT urban populations

**URBAN POPULATIONS**

- \*BT1 human populations
- RT sociology
- RT urban areas

**urbaryons**

2000-04-12

(This was a valid descriptor for ETDE from May 1975 to March 2006, and for INIS from April 2000 to March 2006.)

- USE quarks

**UREA**

- UF carbamide
- \*BT1 amides
- \*BT1 carbonic acid derivatives
- RT allantoin
- RT citrulline
- RT hydantoin
- RT nitrosoureas
- RT urea-formaldehyde foams
- RT uremia

**UREA-FORMALDEHYDE FOAMS**

INIS: 2000-04-12; ETDE: 1980-02-11

- \*BT1 foams
- RT formaldehyde
- RT polymers
- RT thermal insulation
- RT urea

**UREASE**

Code number 3.5.1.5.

- \*BT1 amidases

**ureidoaminovaleric acid**

- USE citrulline

**UREMIA**

- BT1 symptoms
- \*BT1 urogenital system diseases
- RT blood
- RT kidneys
- RT urea

**URETERS**

- \*BT1 urinary tract

**URETHANE**

- \*BT1 carbamates
- RT polyurethanes

**urethra**

- USE urinary tract

**URIC ACID**

- UF 8-hydroxyxanthine
- \*BT1 xanthines
- RT organic acids

**uricase**

2000-03-29

(Until October 1996 this was a valid descriptor.)

- USE nitro-group dehydrogenases

**URIDINE**

- \*BT1 nucleosides
- \*BT1 uracils
- RT ump
- RT uridine diphosphoglucose

**URIDINE DIPHOSPHOGLUCOSE**

ETDE: 2005-02-01

(Prior to January 2005 UDPG was used for this concept.)

- UF udpg (uridine diphosphoglucose)
- \*BT1 glycosides
- \*BT1 nucleotides
- \*BT1 organic phosphorus compounds
- RT glucose
- RT uracils
- RT uridine

**uridine monophosphate**

1982-02-09

- USE ump

**uridine triphosphate**

ETDE: 1975-10-01

- USE utp

**URIDYLIC ACID**

- \*BT1 nucleotides
- RT uracils

**urinalysis**

- USE qualitative chemical analysis
- USE urine

**URINARY KETOSTEROIDS**

- UF ketosteroids (urinary)
- RT androgens
- RT steroids
- RT urine

**URINARY TRACT**

- UF urethra
- \*BT1 organs
- NT1 bladder
- NT1 ureters
- RT calculi
- RT excretion
- RT kidneys
- RT urine
- RT urogenital system diseases

**URINE**

- UF deoxycytidimuria
- UF urinalysis
- \*BT1 biological wastes
- \*BT1 body fluids
- RT diuretics
- RT excretion
- RT kidneys
- RT urinary ketosteroids
- RT urinary tract

**urobilinogen**

1996-07-15

(Until June 1996 this was a valid descriptor.)

- USE heterocyclic acids
- USE pigments
- USE pyrroles

**UROCANIC ACID**

- \*BT1 heterocyclic acids
- \*BT1 imidazoles

**urocyon**

INIS: 1993-02-18; ETDE: 1985-03-12

- USE foxes

**UROGENITAL SYSTEM DISEASES**

1996-06-28

- UF glycosuria
- UF uterine cervix carcinoma
- BT1 diseases
- NT1 gonorrhea
- NT1 menstruation disorders
- NT1 nephritis
- NT1 nephrosclerosis
- NT1 reproductive disorders
- NT1 uremia
- RT diuretics
- RT endocrine diseases
- RT female genitals
- RT gynecology
- RT kidneys
- RT male genitals
- RT syphilis
- RT urinary tract

**UROKINASE**

Code number 3.4.99.26.

- \*BT1 blood coagulation factors
- \*BT1 fibrinolytic agents
- \*BT1 nonspecific peptidases
- RT fibrinolysis

**URONIC ACIDS**

INIS: 2000-04-12; ETDE: 1979-07-18

Hydrolyzates of hemicellulose; class of compounds similar to sugars, but terminal carbon has been oxidized from an alcohol to a carboxyl group.

- \*BT1 monocarboxylic acids

**UROTOPIN**

- UF cystamin
- UF hexamethylenetetramine
- \*BT1 amines

**URR REACTOR**

Universities Research Reactor, Risley, United Kingdom.

- UF manchester liverpool university research reactor
- \*BT1 argonaut type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**URUGUAY**

- BT1 developing countries
- \*BT1 south america

**URUGUAYAN ORGANIZATIONS**

1996-06-20

- BT1 national organizations

**US ACDA**

INIS: 2000-04-12; ETDE: 1986-03-04

- UF us arms control and disarmament agency
- \*BT1 us organizations
- RT arms control

**US AEC**

1995-03-28

Includes all AEC-associated organizations.

- UF us atomic energy commission
- \*BT1 us organizations
- NT1 ames laboratory
- NT1 anl
- NT1 bettis
- NT1 bnl
- NT1 feed materials production center
- NT1 hapo
- NT1 idaho chemical processing plant
- NT1 kapl
- NT1 lawrence berkeley laboratory
- NT1 lawrence livermore laboratory
- NT1 mound laboratory
- NT1 ornl
- NT1 paducah plant
- NT1 rocky flats plant
- NT1 sandia laboratories
- NT1 savannah river plant
- NT1 sequoyah uf6 production plant
- NT1 y-12 plant
- RT regulatory guides
- RT us doe
- RT us erda
- RT us nrc
- RT usa

**us aec low intensity test reactor**

2000-04-12

- USE litr reactor

**us aec low intensity training reactor**

INIS: 1993-11-10; ETDE: 2002-05-24

- USE litr reactor

**us aec lptr reactor**

- USE lptr reactor

**us aec materials testing reactor-idaho**

1993-11-10

- USE mtr reactor

**us aec mrr**

- USE mrr reactor

**US AFFIRMATIVE ACTION PROGRAM**

INIS: 2000-04-12; ETDE: 1991-12-18

A program designed to ensure that positive action is undertaken to overcome under representation of women and minority groups in employment and in post-secondary student bodies, as compared with the composition of the area population.

(Prior to December 1991 this concept was indexed by AFFIRMATIVE ACTION in ETDE.)

- UF affirmative action
- RT employment
- RT minority groups
- RT us federal assistance programs
- RT women

**us antitrust laws**

INIS: 1994-01-12; ETDE: 1992-02-25

(From February to August 1992 this was a valid ETDE descriptor.)

- USE antitrust laws

**us arms control and disarmament agency**

INIS: 2000-04-12; ETDE: 1986-03-04

- USE us acda

**us atomic energy commission**

- USE us aec

**US BUREAU OF MINES**

INIS: 1977-07-05; ETDE: 1976-11-17

- UF bureau of mines (us)
- \*BT1 us doi

**US BUREAU OF RECLAMATION**

INIS: 1992-08-13; ETDE: 1991-12-18

(Prior to December 1991 this concept was indexed to BUREAU OF RECLAMATION in ETDE.)

- UF bureau of reclamation
- \*BT1 us doi

**US CEQ**

INIS: 2000-04-12; ETDE: 1981-03-17

- UF council on environmental quality
- \*BT1 us organizations

**US CIA**

INIS: 2000-04-12; ETDE: 1980-08-25

- UF central intelligence agency
- \*BT1 us organizations

**us clean air act**

INIS: 1994-01-24; ETDE: 1991-11-05

(From Jan 92 to Jan 94 this was a valid descriptor.)

- USE clean air acts

**US CLEAN COAL TECHNOLOGY PROGRAM**

INIS: 1992-02-24; ETDE: 1990-02-28

- RT coal preparation
- RT desulfurization
- RT pollution control

**us clean water act**

INIS: 1994-01-24; ETDE: 1991-11-05

(From Mar 77 to Jan 94 this was a valid descriptor.)

- USE clean water acts

**US COAST GUARD**

INIS: 1992-05-22; ETDE: 1977-08-09

- \*BT1 us dot

**US CORPS OF ENGINEERS**

INIS: 1992-05-22; ETDE: 1991-12-18

(Prior to December 1991 this concept was indexed to CORPS OF ENGINEERS in ETDE.)

- UF corps of engineers
- \*BT1 us dod

**us department of agriculture**

INIS: 2000-04-12; ETDE: 1979-02-23

- USE us doa

**us department of commerce**

INIS: 2000-04-12; ETDE: 1979-02-23

- USE us doc

**us department of defense**

INIS: 1992-05-21; ETDE: 2002-05-24

- USE us dod

**us department of health, education, and welfare**

INIS: 2000-04-12; ETDE: 1979-02-23

- USE us hew

**us department of housing and urban development**

INIS: 2000-04-12; ETDE: 1980-08-25

- USE us hud

**us department of justice**

INIS: 2000-04-12; ETDE: 1979-02-23

- USE us doj

**us department of labor**

INIS: 2000-04-12; ETDE: 1979-02-23  
USE us dol

**us department of state**

INIS: 2000-04-12; ETDE: 1979-12-17  
USE us dos

**US DEPARTMENT OF TREASURY**

INIS: 1992-04-09; ETDE: 1979-02-23  
\*BT1 us organizations  
NT1 us irs

**US DEPLETION ALLOWANCES**

INIS: 1992-03-26; ETDE: 1992-02-24  
Deduction allowed to US income tax based on depletion of natural resources such as fossil fuels.  
UF depletion allowances  
RT financial incentives  
RT resource depletion  
RT taxes

**US DOA**

INIS: 1992-06-12; ETDE: 1979-02-23  
UF us department of agriculture  
\*BT1 us organizations  
NT1 us forest service  
NT1 us rea

**US DOC**

INIS: 2000-04-12; ETDE: 1979-02-23  
UF us department of commerce  
\*BT1 us organizations  
NT1 us nbs

**US DOD**

INIS: 1992-05-21; ETDE: 1977-09-20  
UF department of defense  
UF us department of defense  
\*BT1 us organizations  
NT1 us corps of engineers

**US DOE**

INIS: 1997-06-19; ETDE: 1977-08-09  
US Department of Energy.  
UF technical information center  
UF us doe program management  
\*BT1 us organizations  
NT1 alaska power administration  
NT1 ames laboratory  
NT1 anl  
NT1 atomics international canoga park plant  
NT1 bartlesville energy technology center  
NT1 battelle pacific northwest laboratories  
NT1 bettis  
NT1 bnl  
NT1 bonneville power administration  
NT1 economic regulatory administration  
NT1 environmental measurements laboratory  
NT1 feed materials production center  
NT1 fermilab  
NT1 hanford engineering development laboratory  
NT1 hanford reservation  
NT1 hapo  
NT1 idaho chemical processing plant  
NT1 idaho national laboratory  
NT1 inhalation toxicology research institute  
NT1 kansas city plant  
NT1 kapl  
NT1 lanl  
NT1 laramie energy research center  
NT1 laramie energy technology center  
NT1 lawrence berkeley laboratory  
NT1 lawrence livermore national laboratory  
NT2 lawrence livermore laboratory

NT1 morgantown energy technology center  
NT1 mound laboratory  
NT1 national renewable energy laboratory  
NT1 nevada test site  
NT1 oak ridge reservation  
NT1 orgdp  
NT1 ornl  
NT1 paducah plant  
NT1 pantex plant  
NT1 pinellas plant  
NT1 pittsburgh energy technology center  
NT1 portsmouth centrifuge enrichment plant  
NT1 portsmouth gaseous diffusion plant  
NT1 rocky flats plant  
NT1 sandia national laboratories  
NT2 sandia laboratories  
NT1 savannah river plant  
NT1 sequoyah uf6 production plant  
NT1 southeastern power administration  
NT1 southwestern power administration  
NT1 stanford linear accelerator center  
NT1 us doe field offices  
NT1 us doe inspector general  
NT1 us energy extension service  
NT1 us energy information administration  
NT1 us ferc  
NT1 us msha  
NT1 us niper  
NT1 usur  
NT1 western area power administration  
NT1 wipp  
NT1 y-12 plant  
RT ucla  
RT us aec  
RT us erda  
RT us fea

**US DOE FIELD OFFICES**

INIS: 1992-08-12; ETDE: 1983-03-24  
UF field offices  
UF operations offices  
\*BT1 us doe

**US DOE INSPECTOR GENERAL**

INIS: 1994-09-29; ETDE: 1980-06-06  
UF inspector general (us doe)  
\*BT1 us doe  
RT audits

**us doe program management**

INIS: 1992-06-10; ETDE: 1992-02-14  
(From February 1992 to January 1993, this was a valid ETDE descriptor.)  
USE program management  
USE us doe

**US DOI**

INIS: 1992-05-22; ETDE: 1978-04-06  
UF department of interior  
\*BT1 us organizations  
NT1 us bureau of mines  
NT1 us bureau of reclamation  
NT1 us fws  
NT1 us gs  
NT1 us osm

**US DOJ**

INIS: 2000-04-19; ETDE: 1979-02-23  
UF justice department  
UF us department of justice  
\*BT1 us organizations  
NT1 federal bureau of investigation

**US DOL**

INIS: 2000-04-12; ETDE: 1979-02-23  
UF us department of labor  
\*BT1 us organizations  
NT1 us osha

**US DOS**

INIS: 2000-04-12; ETDE: 1979-12-17  
UF us department of state  
\*BT1 us organizations

**US DOT**

INIS: 1979-09-18; ETDE: 1977-08-09  
US Department of Transportation.  
UF department of transportation  
\*BT1 us organizations  
NT1 us coast guard  
NT1 us faa

**US EAST COAST**

INIS: 1997-06-17; ETDE: 1991-12-18  
(Prior to December 1991 this concept was indexed to EAST COAST in ETDE.)  
UF east coast  
\*BT1 usa  
RT atlantic ocean  
RT connecticut  
RT delaware  
RT florida  
RT georgia (u.s. state of)  
RT maine  
RT maryland  
RT massachusetts  
RT mid-atlantic bight  
RT new hampshire  
RT new jersey  
RT new york  
RT new york bight  
RT north carolina  
RT rhode island  
RT south carolina  
RT virginia

**US ECONOMIC RECOVERY TAX ACT**

INIS: 2000-04-12; ETDE: 1992-02-21  
(Prior to February 1992 this subject was indexed by ECONOMIC RECOVERY TAX ACT.)  
UF economic recovery tax act  
BT1 laws  
RT economic development  
RT financial incentives  
RT legislation  
RT taxes  
RT windfall profits tax

**us ees**

INIS: 2000-04-12; ETDE: 1978-08-08  
USE us energy extension service

**US EMERGENCY PREPAREDNESS ACT**

INIS: 1992-03-26; ETDE: 1992-02-21  
(Prior to February 1992 this subject was indexed to EMERGENCY PREPAREDNESS ACT.)  
UF emergency preparedness act  
BT1 laws  
RT emergency plans  
RT energy supplies

**US ENERGY EXTENSION SERVICE**

INIS: 2000-04-12; ETDE: 1992-02-24  
(Prior to February 1992 this subject was indexed by ENERGY EXTENSION SERVICE.)  
UF ees  
UF energy extension service  
UF us ees  
\*BT1 us doe

**US ENERGY INFORMATION ADMINISTRATION**

*INIS: 1992-03-26; ETDE: 1992-02-24*  
(Prior to February 1992 this subject was indexed to ENERGY INFORMATION ADMINISTRATION.)

*UF energy information administration*  
\*BT1 us doe

**US ENERGY POLICY AND CONSERVATION ACT**

*INIS: 1992-03-26; ETDE: 1992-02-24*

*US Energy Policy and Conservation Act.*

*UF energy policy and conservation act*  
*UF epca*  
BT1 laws  
RT energy conservation  
RT energy policy

**US ENERGY SECURITY ACT**

*INIS: 1992-03-26; ETDE: 1992-02-21*

(Prior to February 1992 this subject was indexed to ENERGY SECURITY ACT.)

*UF energy security act*  
BT1 laws  
RT synthetic fuels corporation

**US ENERGY TAX ACT**

*INIS: 1992-03-26; ETDE: 1992-02-24*

(Prior to February 1992 this subject was indexed to ENERGY TAX ACT.)

*UF energy tax act*  
\*BT1 national energy acts  
RT energy conservation  
RT energy consumption  
RT financial incentives

**US EPA**

*INIS: 1978-07-04; ETDE: 1977-11-29*

*UF environmental protection agency*  
*UF epa*  
BT1 pollution control agencies  
\*BT1 us organizations

**us era**

*INIS: 2000-04-12; ETDE: 1979-11-23*

USE economic regulatory administration

**US ERDA**

1996-07-16

*US Energy Research and Development Administration; created in 1975 and includes part of US AEC research activities, the Office of Coal Research, and the solar and geothermal research activities from the National Science Foundation.*

*UF energy research and development administration*

\*BT1 us organizations

NT1 ames laboratory

NT1 anl

NT1 atomics international canoga park plant

NT1 battelle columbus laboratory

NT1 battelle pacific northwest laboratories

NT1 bettis

NT1 bnl

NT1 feed materials production center

NT1 hanford reservation

NT1 hapo

NT1 idaho chemical processing plant

NT1 kansas city plant

NT1 kapl

NT1 laramie energy research center

NT1 lawrence berkeley laboratory

NT1 lawrence livermore laboratory

NT1 mound laboratory

NT1 oak ridge reservation

NT1 orgdp

NT1 ornl

NT1 paducah plant

NT1 pantex plant

NT1 pinellas plant

NT1 portsmouth gaseous diffusion plant

NT1 rocky flats plant

NT1 sandia laboratories

NT1 savannah river plant

NT1 sequoyah uf6 production plant

NT1 stanford linear accelerator center

NT1 y-12 plant

RT us aec

RT us doe

**US FAA**

*INIS: 1993-06-03; ETDE: 1978-09-13*

*US Federal Aviation Administration.*

*UF federal aviation administration*  
\*BT1 us dot

**US FDA**

*INIS: 1978-11-27; ETDE: 1978-06-14*

*UF food and drug administration*

\*BT1 us hew

**US FEA**

1977-07-05

*US Federal Energy Administration.*

*UF federal energy administration*

\*BT1 us organizations

RT us doe

**US FEDERAL ASSISTANCE PROGRAMS**

*INIS: 1993-03-26; ETDE: 1992-02-24*

(Prior to February 1992 this subject was indexed to FEDERAL ASSISTANCE PROGRAMS.)

*UF federal assistance programs*

RT government policies

RT local government

RT national government

RT state government

RT us affirmative action program

**US FEDERAL POWER COMMISSION**

*INIS: 2000-04-12; ETDE: 1992-02-24*

(Prior to February 1992 this subject was indexed by FEDERAL POWER COMMISSION.)

*UF federal power commission*

*UF fpc*

\*BT1 us organizations

**US FEMA**

*INIS: 1993-06-02; ETDE: 1984-02-10*

*US Federal Emergency Management Agency.*

*UF federal emergency management agency*

\*BT1 us organizations

**US FERC**

*INIS: 1992-02-03; ETDE: 1978-02-14*

*UF federal energy regulatory commission*

\*BT1 us doe

RT ferc gas areas

RT regulations

**US FOREST SERVICE**

*INIS: 2000-04-12; ETDE: 1981-06-13*

\*BT1 us doa

**US FWS**

*INIS: 1992-10-05; ETDE: 1984-12-26*

*US Fish and Wildlife Service.*

*UF fish and wildlife service*

\*BT1 us doi

**US GAO**

*INIS: 1992-07-23; ETDE: 1979-02-23*

*General Accounting Office.*

*UF general accounting office*

\*BT1 us organizations

RT accounting

**us general services administration**

*INIS: 2000-04-12; ETDE: 1979-02-23*

USE us gsa

**us geological survey**

*INIS: 1992-05-28; ETDE: 1981-06-16*

USE us gs

**US GS**

*INIS: 1992-05-28; ETDE: 1981-06-16*

*UF us geological survey*

\*BT1 us doi

**US GSA**

*INIS: 2000-04-12; ETDE: 1979-02-23*

*UF us general services administration*

\*BT1 us organizations

**US GULF COAST**

*INIS: 1992-06-04; ETDE: 1992-01-24*

(Prior to June 1992 this subject was indexed to GULF COAST.)

*UF gulf coast*

\*BT1 usa

RT alabama

RT florida

RT gulf of mexico

RT louisiana

RT mississippi

RT texas

**US HEW**

*INIS: 2000-04-12; ETDE: 1979-02-23*

*UF us department of health, education, and welfare*

\*BT1 us organizations

NT1 us fda

**US HUD**

*INIS: 1977-11-21; ETDE: 1977-04-12*

*US Department of Housing and Urban Development.*

*UF us department of housing and urban development*

\*BT1 us organizations

**US IRS**

*INIS: 1992-04-09; ETDE: 1978-04-06*

*U. S. Internal Revenue Service.*

*UF internal revenue service*

\*BT1 us department of treasury

**US JCAE**

*INIS: 1975-11-27; ETDE: 1975-09-12*

*US Joint Committee on Atomic Energy.*

*UF joint committee on atomic energy*

\*BT1 us organizations

**US MRS PROJECT**

*INIS: 1986-09-26; ETDE: 1991-10-29*

*Monitored Retrievable Storage project in the USA for the long-term isolation of spent fuel and radioactive wastes permitting continuous monitoring, ready retrieval and periodic maintenance as necessary to assure containment.*

RT high-level radioactive wastes

RT radioactive waste storage

RT spent fuel storage

RT spent fuels

**US MSHA**

*INIS: 2000-04-12; ETDE: 1982-02-08*

*UF mine safety and health administration*

\*BT1 us doe

**US NAPAP**

INIS: 1991-12-18; ETDE: 1991-10-31  
*United States National Acid Precipitation Assessment Program.*

UF napap

UF national acid precipitation assessment program

RT acid rain

RT information needs

RT research programs

RT us national program plans

RT us organizations

**US NATIONAL ACADEMY OF SCIENCE**

\*BT1 us organizations

**us national council on radiation protection and measurements**

1993-11-10

USE us ncrp

**us national energy act**

INIS: 2000-04-12; ETDE: 1992-02-14

(Prior to February 1992 this concept was indexed by NATIONAL ENERGY ACT in ETDE. From February 1992 to August 1993 this was a valid ETDE descriptor.)

USE national energy acts

**US NATIONAL ENERGY****CONSERVATION POLICY ACT**

INIS: 2000-04-12; ETDE: 1992-02-14

(Prior to February 1992 this concept in ETDE was indexed by NATIONAL ENERGY CONSERVATION POLICY ACT.)

UF national energy conservation policy act

\*BT1 national energy acts

RT energy conservation

RT energy policy

**US NATIONAL ENERGY PLAN**

INIS: 1992-03-26; ETDE: 1992-02-14

*The plan proposed by President Carter in April 1977, and subsequent plans developed by the Department of Energy.*

(Prior to February 1992 this concept was indexed to NATIONAL ENERGY PLAN in ETDE.)

\*BT1 national energy plans

RT energy conservation

RT energy sources

RT energy supplies

RT national energy acts

RT us national program plans

**US NATIONAL ENVIRONMENTAL POLICY ACT**

INIS: 1993-11-10; ETDE: 1992-01-13

*Until March 1992, this descriptor was US NATL ENVIRONMENTPOLICY ACT, and from then to November 1993 it was US NATIONAL ENVIRONMENTAL POLI.*

UF national environmental policy act

UF nepa

BT1 laws

RT environment

RT environmental impact statements

RT environmental policy

**US NATIONAL IGNITION FACILITY**

INIS: 1997-06-05; ETDE: 1997-05-08

*Facility for inertial confinement (thermonuclear) fusion.*

UF national ignition facility

UF nif

UF us nif

RT icf devices

RT inertial confinement

RT solid state lasers

**us national oceanic and atmospheric administration**

INIS: 1992-04-13; ETDE: 1980-01-24

USE us noaa

**US NATIONAL PROGRAM PLANS**

INIS: 1993-06-02; ETDE: 1992-02-14

*Energy research programs.*

UF national program plans

RT demonstration programs

RT government policies

RT national energy acts

RT research programs

RT us napap

RT us national energy plan

**US NATURAL GAS POLICY ACT**

INIS: 1992-03-27; ETDE: 1992-02-14

(Prior to February 1992 this concept was indexed to NATURAL GAS POLICY ACT in ETDE.)

UF natural gas policy act

\*BT1 national energy acts

RT consumer protection

RT deregulation

RT energy policy

RT natural gas industry

RT pricing regulations

**US NAVAL OIL SHALE RESERVES**

INIS: 1992-03-26; ETDE: 1992-02-14

(Prior to February 1992 this concept was indexed to NAVAL OIL SHALE RESERVES in ETDE.)

UF naval oil shale reserves

\*BT1 oil shale deposits

\*BT1 reserves

RT colorado

RT utah

**US NAVAL PETROLEUM RESERVES**

INIS: 1992-04-07; ETDE: 1992-02-14

(Prior to February 1992 this concept was indexed to NAVAL PETROLEUM RESERVE in ETDE.)

UF naval petroleum reserve

\*BT1 petroleum deposits

\*BT1 reserves

RT california

RT energy supplies

RT fuel supplies

RT underground storage

RT wyoming

**us naval research laboratory cyclotron**

INIS: 1984-06-21; ETDE: 2002-05-24

USE nrl cyclotron

**us naval research laboratory linac**

INIS: 1984-06-21; ETDE: 2002-05-24

USE nrl linac

**US NBS**

INIS: 1979-02-21; ETDE: 1978-04-06

UF national bureau of standards

UF nbs (us)

\*BT1 us doc

**us nbs reactor**

USE nbsr reactor

**US NCRP**

*US National Council on Radiation Protection and Measurements.*

UF national council on radiation protection/measurements (us)

UF ncrp (us)

UF us national council on radiation protection and measurements

\*BT1 us organizations

**us nif**

INIS: 1997-06-05; ETDE: 1997-05-08

USE us national ignition facility

**US NIOSH**

INIS: 1992-10-01; ETDE: 1992-01-24

*US National Institute for Occupational Safety and Health.*

UF national institute for occupational safety and health

UF niosh

\*BT1 us organizations

**US NIPER**

INIS: 1992-03-03; ETDE: 1991-11-01

*National Institute for Petroleum and Energy Research.*

UF national institute for petroleum and energy research

UF niper

\*BT1 us doe

**US NOAA**

INIS: 1992-04-13; ETDE: 1980-01-24

UF national oceanic and atmospheric administration

UF us national oceanic and atmospheric administration

\*BT1 us organizations

**US NRC**

*United States Nuclear Regulatory Commission; prior to 1975 was part of US AEC and earlier material is so indexed.*

\*BT1 us organizations

RT us aec

**US NUCLEAR DATA NETWORK**

INIS: 1992-07-21; ETDE: 1985-04-09

\*BT1 us organizations

RT international nuclear data committee

RT nuclear data collections

**US OCCUPATIONAL SAFETY AND HEALTH ACT**

INIS: 1992-08-13; ETDE: 1992-02-14

*US Occupational Safety and Health Act.*

UF occupational safety and health act

BT1 laws

RT health hazards

RT occupational diseases

RT safety

RT working conditions

**US ORGANIZATIONS**

1997-06-19

BT1 national organizations

NT1 federal radiation council

NT1 nasa

NT1 national science foundation

NT1 naval research laboratory

NT1 orau

NT1 orins

NT1 synthetic fuels corporation

NT1 tennessee valley authority

NT1 us acda

NT1 us aec

NT2 ames laboratory

NT2 anl

NT2 bettis

NT2 bnl

NT2 feed materials production center

NT2 hapo

NT2 idaho chemical processing plant

NT2 kapl

NT2 lawrence berkeley laboratory

NT2 lawrence livermore laboratory

NT2 mound laboratory  
 NT2 orn1  
 NT2 paducah plant  
 NT2 rocky flats plant  
 NT2 sandia laboratories  
 NT2 savannah river plant  
 NT2 sequoyah uf6 production plant  
 NT2 y-12 plant  
 NT1 us ceq  
 NT1 us cia  
 NT1 us department of treasury  
 NT2 us irs  
 NT1 us doa  
 NT2 us forest service  
 NT2 us rea  
 NT1 us doc  
 NT2 us nbs  
 NT1 us dod  
 NT2 us corps of engineers  
 NT1 us doe  
 NT2 alaska power administration  
 NT2 ames laboratory  
 NT2 anl  
 NT2 atomics international canoga park plant  
 NT2 bartlesville energy technology center  
 NT2 battelle pacific northwest laboratories  
 NT2 bettis  
 NT2 bnl  
 NT2 bonneville power administration  
 NT2 economic regulatory administration  
 NT2 environmental measurements laboratory  
 NT2 feed materials production center  
 NT2 fermilab  
 NT2 hanford engineering development laboratory  
 NT2 hanford reservation  
 NT2 hapo  
 NT2 idaho chemical processing plant  
 NT2 idaho national laboratory  
 NT2 inhalation toxicology research institute  
 NT2 kansas city plant  
 NT2 kapl  
 NT2 lanl  
 NT2 laramie energy research center  
 NT2 laramie energy technology center  
 NT2 lawrence berkeley laboratory  
 NT2 lawrence livermore national laboratory  
 NT3 lawrence livermore laboratory  
 NT2 morgantown energy technology center  
 NT2 mound laboratory  
 NT2 national renewable energy laboratory  
 NT2 nevada test site  
 NT2 oak ridge reservation  
 NT2 orgdp  
 NT2 orn1  
 NT2 paducah plant  
 NT2 pantex plant  
 NT2 pinellas plant  
 NT2 pittsburgh energy technology center  
 NT2 portsmouth centrifuge enrichment plant  
 NT2 portsmouth gaseous diffusion plant  
 NT2 rocky flats plant  
 NT2 sandia national laboratories  
 NT3 sandia laboratories  
 NT2 savannah river plant  
 NT2 sequoyah uf6 production plant  
 NT2 southeastern power administration  
 NT2 southwestern power administration  
 NT2 stanford linear accelerator center  
 NT2 us doe field offices  
 NT2 us doe inspector general  
 NT2 us energy extension service  
 NT2 us energy information administration  
 NT2 us ferc  
 NT2 us msha  
 NT2 us niper  
 NT2 usur  
 NT2 western area power administration  
 NT2 wipp  
 NT2 y-12 plant  
 NT1 us doi  
 NT2 us bureau of mines  
 NT2 us bureau of reclamation  
 NT2 us fws  
 NT2 us gs  
 NT2 us osm  
 NT1 us doj  
 NT2 federal bureau of investigation  
 NT1 us dol  
 NT2 us osha  
 NT1 us dos  
 NT1 us dot  
 NT2 us coast guard  
 NT2 us faa  
 NT1 us epa  
 NT1 us erda  
 NT2 ames laboratory  
 NT2 anl  
 NT2 atomics international canoga park plant  
 NT2 battelle columbus laboratory  
 NT2 battelle pacific northwest laboratories  
 NT2 bettis  
 NT2 bnl  
 NT2 feed materials production center  
 NT2 hanford reservation  
 NT2 hapo  
 NT2 idaho chemical processing plant  
 NT2 kansas city plant  
 NT2 kapl  
 NT2 laramie energy research center  
 NT2 lawrence berkeley laboratory  
 NT2 lawrence livermore laboratory  
 NT2 mound laboratory  
 NT2 oak ridge reservation  
 NT2 orgdp  
 NT2 orn1  
 NT2 paducah plant  
 NT2 pantex plant  
 NT2 pinellas plant  
 NT2 portsmouth gaseous diffusion plant  
 NT2 rocky flats plant  
 NT2 sandia laboratories  
 NT2 savannah river plant  
 NT2 sequoyah uf6 production plant  
 NT2 stanford linear accelerator center  
 NT2 y-12 plant  
 NT1 us fea  
 NT1 us federal power commission  
 NT1 us fema  
 NT1 us gao  
 NT1 us gsa  
 NT1 us hew  
 NT2 us fda  
 NT1 us hud  
 NT1 us jcae  
 NT1 us national academy of science  
 NT1 us ncrp  
 NT1 us niosh  
 NT1 us noaa  
 NT1 us nrc  
 NT1 us nuclear data network  
 NT1 us ota  
 NT1 us postal service  
 NT1 us veterans administration  
 RT us napap

**US OSHA**

*INIS: 1980-09-12; ETDE: 1978-06-14*  
*US Occupational Safety and Health Administration.*

*UF occupational safety and health administration*

*UF osha*

*\*BT1 us dol*

**US OSM**

*INIS: 1992-04-08; ETDE: 1985-09-24*  
*Office of Surface Mining, Reclamation and Enforcement, that regulates all coal mining activities in the USA.*

*\*BT1 us doi*

*RT coal mining*

**US OTA**

*INIS: 1993-06-07; ETDE: 1981-03-17*  
*US Office of Technology Assessment.*

*UF office of technology assessment*

*\*BT1 us organizations*

*RT technology transfer*

**US POSTAL SERVICE**

*INIS: 2000-04-12; ETDE: 1979-02-23*  
*\*BT1 us organizations*

**US POWER PLANT AND INDUSTRIAL FUEL USE ACT**

*INIS: 2000-04-12; ETDE: 1992-02-25*  
 (Prior to February 1992 this subject was indexed by POWER PLANT AND INDUSTRIAL FUEL USE ACT.)

*UF fuel use act*

*UF power plant and industrial fuel use act*

*\*BT1 national energy acts*

*RT electric utilities*

*RT fossil-fuel power plants*

*RT fossil fuels*

**US PUBLIC UTILITY REGULATORY POLICIES ACT**

*INIS: 1992-07-23; ETDE: 1992-02-25*

*US Public Utility Regulatory Policies Act.*

*UF public utility regulatory policies act*

*UF purpa*

*\*BT1 national energy acts*

*RT energy conservation*

*RT energy efficiency*

*RT public utilities*

*RT regulations*

**US REA**

*INIS: 2000-04-12; ETDE: 1979-09-06*

*UF rural electrification administration*

*\*BT1 us doa*

**us resource recovery acts**

*INIS: 1992-06-04; ETDE: 1992-02-14*

(Prior to February 1992 this concept was indexed to RESOURCE RECOVERY ACTS in ETDE.)

*USE resource recovery acts*

**US SUPERFUND**

*INIS: 1992-02-05; ETDE: 1991-11-01*

*Comprehensive environmental response, compensation, and Liability Act of 1980: public law 96-510.*

(Prior to November 1991 this material was indexed to SUPERFUND.)

*UF cercla*

*UF superfund*

*\*BT1 pollution laws*

*RT enforcement*

*RT environmental policy*

*RT hazardous materials*

*RT remedial action*

*RT sanitary landfills*

RT waste disposal  
 RT waste disposal acts  
 RT wastes

**US VETERANS ADMINISTRATION**

INIS: 2000-04-12; ETDE: 1979-02-23

\*BT1 us organizations

**us water pollution control act**

INIS: 2000-04-12; ETDE: 1977-04-14

USE clean water acts

**US WEST COAST**

INIS: 1992-06-04; ETDE: 1991-12-18

(Prior to June 1992 this concept was indexed to WEST COAST in ETDE.)

UF west coast

\*BT1 usa

RT california

RT oregon

RT pacific ocean

RT washington

**USA**

UF central region

UF federal region i

UF federal region ii

UF federal region iii

UF federal region iv

UF federal region ix

UF federal region v

UF federal region vi

UF federal region vii

UF federal region viii

UF federal region x

UF great lakes region

UF great plains

UF mid-atlantic region

UF midwest region

UF new england

UF ozark region

UF pacific northwest region

UF region i

UF region ii

UF region iii

UF region iv

UF region ix

UF region v

UF region vi

UF region vii

UF region viii

UF region x

UF rocky mountain region

UF southeast region

UF southwest region

UF united states of america

UF western region

SF north atlantic region

BT1 developed countries

BT1 north america

NT1 alabama

NT1 alaska

NT1 american samoa

NT1 arizona

NT1 arkansas

NT1 california

NT2 brawley geothermal field

NT2 coso hot springs

NT2 los angeles

NT1 colorado

NT2 mahogany zone

NT2 sand wash basin

NT1 connecticut

NT1 delaware

NT1 florida

NT2 cape kennedy

NT1 georgia (u.s. state of)

NT2 atlanta

NT1 great basin

NT1 hawaii

NT1 idaho

NT1 illinois

NT2 chicago

NT1 indiana

NT1 iowa

NT1 kansas

NT1 kentucky

NT1 louisiana

NT1 maine

NT1 maryland

NT1 massachusetts

NT1 michigan

NT1 minnesota

NT1 mississippi

NT1 missouri

NT1 montana

NT2 powder river basin

NT1 nebraska

NT1 nevada

NT2 steamboat springs

NT2 tonopah test range

NT1 new hampshire

NT1 new jersey

NT1 new mexico

NT2 los alamos

NT1 new york

NT2 new york city

NT1 north carolina

NT1 north dakota

NT1 ohio

NT2 cleveland

NT1 oklahoma

NT1 oregon

NT2 mt hood

NT1 pennsylvania

NT2 pittsburgh

NT1 puerto rico

NT1 rhode island

NT1 south carolina

NT1 south dakota

NT2 table mountain area

NT1 tennessee

NT2 chattanooga

NT2 oak ridge

NT1 texas

NT1 us east coast

NT1 us gulf coast

NT1 us west coast

NT1 utah

NT2 roosevelt hot springs

NT1 vermont

NT1 virgin islands

NT1 virginia

NT1 washington

NT2 richland

NT1 washington dc

NT1 west virginia

NT1 wisconsin

NT1 wyoming

NT2 powder river basin

NT2 rock springs sites

NT2 washakie basin

RT appalachian mountains

RT oecd

RT pad districts

RT rocky mountains

RT trust territory of the pacific islands

RT us aec

**useful life**

INIS: 1992-02-26; ETDE: 1976-08-05

USE service life

**USES**

For the evaluation of the usefulness of a procedure, material, or device.

UF applications

NT1 diagnostic uses

NT1 therapeutic uses

NT1 third-party use

RT efficiency

RT performance

**ussr**

1997-08-20

All the constituents of the former USSR are listed below; use one or more as required.

(Prior to September 1997 USSR was a valid descriptor.)

SEE armenia

SEE azerbaijan

SEE belarus

SEE estonia

SEE kazakhstan

SEE kyrgyzstan

SEE latvia

SEE lithuania

SEE moldova

SEE republic of georgia

SEE russian federation

SEE tajikistan

SEE turkmenistan

SEE ukraine

SEE uzbekistan

**ussr organizations**

INIS: 1997-07-30; ETDE: 1975-12-16

(Until July 1997 this was a valid descriptor.)

USE russian organizations

**ustav jaderneho vyzkumu**

INIS: 1997-11-05; ETDE: 2002-05-24

USE uju

**ustav jadernych vyzkumu**

2000-04-12

USE uju

**USTILAGO**

\*BT1 eumycota

BT1 parasites

RT cereals

**USUR**

INIS: 1994-02-28; ETDE: 1981-07-06

UF united states uranium registry

\*BT1 us doe

RT nuclear industry

RT radiation protection

**UTAH**

1997-06-19

\*BT1 usa

NT1 roosevelt hot springs

RT asphalt ridge deposit

RT circle cliffs deposit

RT great basin

RT great salt lake

RT green river formation

RT natural bridges national monument

RT paradox basin

RT pr springs deposit

RT sunnyside deposit

RT tar sand triangle deposit

RT uinta basin

RT uinta formation

RT us naval oil shale reserves

RT western us overthrust belt

RT white river

RT white river shale project

**uterine cervix carcinoma**

USE carcinomas

USE urogenital system diseases

**UTERUS**

UF endometrium

UF myometrium

\*BT1 female genitals

RT embryos

RT fetuses



RT oxytocin  
RT pregnancy

**utilities**

INIS: 2000-04-12; ETDE: 1979-05-03  
SEE electric utilities  
SEE gas utilities  
SEE public utilities

**UTP**

ETDE: 1975-09-11  
UF uridine triphosphate  
\*BT1 nucleotides

**utr-10 iowa state university reactor**

USE iowa utr-10 reactor

**UTR-10-KINKI REACTOR**

Atomic Energy Research Institute, Kinki Univ., Higashiosaka, Osaka, Japan.  
UF kinki university utr-10 reactor  
\*BT1 argonaut type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**utr-b queen mary college reactor**

2000-04-12  
USE queen mary college utr-b reactor

**UTRR REACTOR**

Atomic Energy Organization of Iran, Nuclear Research Centre, Teheran, Iran.  
UF teheran university research reactor  
UF university of teheran research reactor  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**UVALDE DEPOSIT**

INIS: 2000-04-12; ETDE: 1983-07-07  
\*BT1 oil sand deposits  
RT oil sands  
RT texas

**UVAR REACTOR**

Univ. of Virginia, Charlottesville, Virginia, USA. Decommissioned in 2005.  
UF university of virginia reactor  
UF virginia university reactor  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**UVEA**

UF choroid  
\*BT1 eyes

**UVVVR**

INIS: 2000-04-12; ETDE: 1979-07-24  
Ustavu pro Vyzkum, Vyrobu a Vyziti Radioisotopu - Institute for the Research, Production and Application of Radioisotopes, Prague.  
\*BT1 czech organizations

**uwi cns slowpoke**

2018-08-20  
USE slowpoke-mona reactor

**UWMAC DEVICES**

ETDE: 1979-04-11  
UF numak reactors  
UF university of wisconsin tokamak  
UF uwmac reactors  
UF wisconsin university tokamak  
\*BT1 tokamak devices

**uwmac reactors**

INIS: 2000-04-12; ETDE: 1978-04-27  
(Prior to July 1985 this was a valid ETDE descriptor.)  
USE uwmac devices

**UWNR REACTOR**

Univ. of Wisconsin, Madison, Wisconsin, USA.  
UF university of wisconsin nuclear reactor  
UF wisconsin university nuclear reactor  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 thermal reactors  
\*BT1 training reactors  
\*BT1 triga type reactors

**UWTR REACTOR**

Univ. of Washington, Seattle, Washington, USA. Shut down in 1988.  
UF university of washington reactor  
UF washington university (seattle) reactor  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**UZBEK ORGANIZATIONS**

2004-03-31  
BT1 national organizations

**uzbek wwr-c reactor**

2000-04-12  
USE wwr-s-tashkent reactor

**uzbek wwr-s reactor**

INIS: 1976-06-23; ETDE: 2002-05-24  
USE wwr-s-tashkent reactor

**UZBEKISTAN**

INIS: 1997-08-20; ETDE: 1993-04-08  
(Until January 1993, this was indexed by USSR.)  
SF soviet union  
SF union of soviet socialist republics  
SF ussr  
BT1 asia  
RT aral sea

**v-1 reactor (bohunice)**

USE bohunice v-1 reactor

**v-2 reactor (bohunice)**

INIS: 1979-05-28; ETDE: 1979-09-06  
USE bohunice v-2 reactor

**v-2 reactor (dukovany)**

2000-04-12  
(Prior to August 1997 DUKOVANY V-2 reactor was used for this concept in ETDE.)  
SEE dukovany-1 reactor  
SEE dukovany-2 reactor  
SEE dukovany-3 reactor  
SEE dukovany-4 reactor

**V-A THEORY**

UF vector-axial vector theory  
RT axial-vector currents  
RT current algebra  
RT fermi interactions  
RT vector currents

**V CENTERS**

\*BT1 color centers

**V CODES**

BT1 computer codes

**V TROUGH COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-10-25  
\*BT1 concentrating collectors

**va characteristic**

USE electric conductivity

**VAALPUTS RADIOACTIVE WASTE DISPOSAL FACILITY**

INIS: 1987-05-26; ETDE: 1991-08-20  
Vaalputs Radioactive Waste Disposal Facility in Bushmanland, South Africa.  
\*BT1 radioactive waste facilities

**VACANCIES**

Not for HOLES.  
\*BT1 point defects  
NT1 color centers  
NT2 a centers  
NT2 e centers  
NT2 f centers  
NT2 h centers  
NT2 i centers  
NT2 m centers  
NT2 r centers  
NT2 s centers  
NT2 u centers  
NT2 v centers  
NT2 x centers  
NT2 z centers  
NT1 frenkel defects  
NT1 schottky defects  
RT traps

**VACCINES**

RT antigens  
RT bacteria  
RT fungi  
RT immunity  
RT inoculation  
RT viruses

**VACCINIA VIRUS**

\*BT1 viruses

**vacuum (1-1000 micro pa)**

2003-11-19  
USE pressure range micro pa

**vacuum (1-1000 milli pa)**

2003-11-19  
USE pressure range milli pa

**vacuum (1-1000 nano pa)**

2003-11-19  
USE pressure range nano pa

**vacuum (1-1000 pa)**

2003-11-19  
USE pressure range pa

**vacuum (7.5 - 7.5x10(3) torr)**

2003-11-19  
USE pressure range kilo pa

**vacuum (7.5x10(-12) - 7.5x10(-9) torr)**

2003-11-19  
USE pressure range nano pa

**vacuum (7.5x10(-3) - 7.5 torr)**

2003-11-19  
USE pressure range pa

**vacuum (7.5x10(-6) - 7.5x10(-3) torr)**

2003-11-19  
USE pressure range milli pa

**vacuum (7.5x10(-9) - 7.5x10(-6) torr)**

2003-11-19  
USE pressure range micro pa

**vacuum (below 1 nano pa)**

2003-11-19  
USE pressure range below 1 nano pa

**vacuum (below 7.5x10<sup>-12</sup> torr)**

2003-11-19

USE pressure range below 1 nano pa

**vacuum (rough)**

SEE pressure range kilo pa

SEE pressure range pa

**vacuum arc centrifuges**

INIS: 1985-07-23; ETDE: 2002-05-24

USE plasma centrifuges

**VACUUM-ARC ION SOURCES**

2018-02-26

\*BT1 arc-discharge ion sources

NT1 mevva ion sources

**VACUUM CARBONATE PROCESS**

INIS: 2000-04-12; ETDE: 1979-01-30

\*BT1 desulfurization

RT waste processing

**VACUUM CASTING**

UF continuous vacuum casting

\*BT1 casting

**VACUUM COATING**

INIS: 1979-04-27; ETDE: 1976-05-13

For the process; for the product use VAPOR DEPOSITED COATINGS.

\*BT1 surface coating

RT physical vapor deposition

RT sputtering

RT vacuum evaporation

RT vapor deposited coatings

**VACUUM DISTILLATION**

INIS: 1999-03-08; ETDE: 1981-11-10

\*BT1 distillation

**VACUUM EVAPORATION**

INIS: 1986-05-26; ETDE: 1981-07-18

\*BT1 evaporation

RT physical vapor deposition

RT vacuum coating

RT vapor deposited coatings

RT vapor plating

**VACUUM FERMENTATION**

INIS: 2000-04-12; ETDE: 1978-10-23

Fermentation at about 50 to 100 mm hg.

\*BT1 fermentation

**VACUUM FURNACES**

BT1 furnaces

RT arc furnaces

RT electron beam furnaces

**VACUUM GAGES**

1996-07-18

\*BT1 pressure gages

NT1 ionization gages

NT2 bayard-alpert gages

NT2 philips gages

NT2 radioactive ionization gages

NT1 knudsen gages

NT1 pirani gages

RT vacuum systems

**vacuum insulation panels**

2006-05-12

USE pressure range pa

USE thermal insulation

**VACUUM MELTING**

\*BT1 melting

**VACUUM POLARIZATION**

RT casimir effect

RT quantum electrodynamics

RT vacuum states

**VACUUM PUMPS**

\*BT1 laboratory equipment

\*BT1 pumps

NT1 cryopumps

NT1 sputter-ion pumps

NT1 turbomolecular pumps

RT getters

RT pressure range

RT vacuum systems

**VACUUM STATES**

RT annihilation operators

RT creation operators

RT field operators

RT gluon condensation

RT instantons

RT quark condensation

RT vacuum polarization

**VACUUM SYSTEMS**

RT accelerators

RT vacuum gages

RT vacuum pumps

**vacuum ultraviolet radiation**

USE far ultraviolet radiation

**VACUUM WELDING**

\*BT1 welding

RT electron beam welding

**vagina**

USE female genitals

**vagotomy**

USE surgery

USE vagus

**VAGUS**

UF vagotomy

\*BT1 autonomic nervous system

\*BT1 nerves

RT parasympathomimetics

**VAH RIVER**

INIS: 2001-12-06; ETDE: 2002-01-18

\*BT1 rivers

RT slovakia

**VAHNUM-1 REACTOR**

INIS: 1977-02-08; ETDE: 1977-04-13

Vahnum, North Rhein Westfalia, Federal Republic of Germany.

UF kernkraftwerk vahnum-1

\*BT1 pwr type reactors

**VAHNUM-2 REACTOR**

INIS: 1977-02-08; ETDE: 1977-04-13

Vahnum, North Rhein Westfalia, Federal Republic of Germany.

UF kernkraftwerk vahnum-2

\*BT1 pwr type reactors

**VAK REACTOR**

Karlstein am Main, Federal Republic of Germany. Permanent shutdown since November 1985.

UF kahl-vak reactor

UF versuchsatomkraftwerk kahl reactor

\*BT1 bwr type reactors

**VALENCE**

(From February 1979 to March 1997 IONIC POTENTIAL was a valid ETDE descriptor.)

UF electron acceptor

UF electron donor

UF ionic potential

UF oxidation state

UF valence electrons

UF valency states

NT1 coordination valences

RT hot atom chemistry

RT radiation chemistry

RT redox potential

**valence electrons**

USE electrons

USE valence

**VALENCY MODEL**

2000-04-12

A model for certain neutron capture reactions.

\*BT1 nuclear models

RT capture

RT nuclear reactions

**valency states**

USE valence

**VALERIC ACID**

UF pentanoic acid

\*BT1 monocarboxylic acids

**VALIDATION**

INIS: 1995-04-09; ETDE: 1980-07-09

Act of testing for compliance with a standard.

BT1 testing

RT evaluation

RT mathematical models

RT verification

**VALINE**

UF aminosovaleric acid-alpha

\*BT1 amino acids

**VALINOMYCIN**

1977-11-02

\*BT1 antibiotics

RT lipids

**vallecitos reactor**

2000-04-12

USE evsr reactor

**vallecitos vbwr reactor**

USE vbwr reactor

**VALLEYS**

INIS: 1992-05-26; ETDE: 1976-06-07

NT1 imperial valley

NT1 long valley

NT1 raft river valley

RT canyons

RT complex terrain

RT mountains

RT watersheds

**values**

INIS: 2000-04-12; ETDE: 1979-09-26

(Prior to December 1991 this was a valid ETDE descriptor.)

SEE cost

SEE data

SEE economics

SEE socio-economic factors

**VALVES**

\*BT1 flow regulators

NT1 relief valves

NT1 water faucets

RT bellows

RT closures

RT pipe fittings

RT reactor cooling systems

**van allen belts**

USE radiation belts

**VAN DE GRAAFF ACCELERATORS**

1996-07-18

UF learn tandem accelerator

\*BT1 electrostatic accelerators

NT1 crnl mp tandem accelerator

NT1 jaeri tandem accelerator

NT1 orsay tandem accelerator

**NT1** vivitron tandem accelerator  
**RT** tandem electrostatic accelerators  
**RT** vicksi accelerator

**VAN DER WAALS FORCES**

**RT** adsorption  
**RT** intermolecular forces  
**RT** molecules  
**RT** virial equation

**VAN HOVE-HUGENHOLTZ THEORY**

**UF** hugenholtz-pines theory  
**RT** many-body problem

**VAN HOVE MODEL**

\***BT1** particle models  
**RT** regge poles

**van hove-prigogine theory**

**USE** prigogine theorem

**VAN HOVE THEORY**

**RT** slowing-down  
**RT** transport theory

**VAN VLECK THEORY**

**RT** paramagnetism

**VANADATES**

*Specific compounds, except those of significance to energy research and development such as the NT listed below, should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

**BT1** oxygen compounds  
 \***BT1** vanadium compounds  
**NT1** potassium vanadates  
**NT1** uranium vanadates  
**RT** vanadium oxides

**VANADIUM**

\***BT1** transition elements

**VANADIUM 40**

2008-01-28

\***BT1** light nuclei  
 \***BT1** odd-odd nuclei  
 \***BT1** proton decay radioisotopes  
 \***BT1** vanadium isotopes

**VANADIUM 41**

2008-01-28

\***BT1** intermediate mass nuclei  
 \***BT1** odd-even nuclei  
 \***BT1** proton decay radioisotopes  
 \***BT1** vanadium isotopes

**VANADIUM 42**

*INIS: 1997-02-07; ETDE: 1978-07-05*

\***BT1** beta-plus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** milliseconds living radioisotopes  
 \***BT1** odd-odd nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 43**

1993-01-13

\***BT1** beta-plus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-even nuclei  
 \***BT1** seconds living radioisotopes  
 \***BT1** vanadium isotopes

**VANADIUM 44**

1986-04-02

\***BT1** beta-plus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** milliseconds living radioisotopes  
 \***BT1** odd-odd nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 45**

*INIS: 1997-02-07; ETDE: 1980-04-14*

\***BT1** beta-plus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** milliseconds living radioisotopes  
 \***BT1** odd-even nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 46**

\***BT1** beta-plus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** milliseconds living radioisotopes  
 \***BT1** odd-odd nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 47**

\***BT1** beta-plus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** minutes living radioisotopes  
 \***BT1** odd-even nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 48**

\***BT1** beta-plus decay radioisotopes  
 \***BT1** days living radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-odd nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 48 TARGET**

*INIS: 1982-10-28; ETDE: 1979-06-06*  
**BT1** targets

**VANADIUM 49**

\***BT1** days living radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-even nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 49 TARGET**

*ETDE: 1976-07-09*  
**BT1** targets

**VANADIUM 50**

\***BT1** beta-minus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-odd nuclei  
 \***BT1** vanadium isotopes  
 \***BT1** years living radioisotopes

**VANADIUM 50 TARGET**

*ETDE: 1976-07-09*  
**BT1** targets

**VANADIUM 51**

\***BT1** intermediate mass nuclei  
 \***BT1** odd-even nuclei  
 \***BT1** stable isotopes  
 \***BT1** vanadium isotopes

**VANADIUM 51 REACTIONS**

*INIS: 1985-11-16; ETDE: 1985-12-11*  
 \***BT1** heavy ion reactions

**VANADIUM 51 TARGET**

*ETDE: 1976-07-09*  
**BT1** targets

**VANADIUM 52**

\***BT1** beta-minus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** minutes living radioisotopes  
 \***BT1** odd-odd nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 53**

\***BT1** beta-minus decay radioisotopes  
 \***BT1** intermediate mass nuclei

\***BT1** minutes living radioisotopes  
 \***BT1** odd-even nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 54**

\***BT1** beta-minus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-odd nuclei  
 \***BT1** seconds living radioisotopes  
 \***BT1** vanadium isotopes

**VANADIUM 55**

*INIS: 1978-07-03; ETDE: 1978-02-14*

\***BT1** beta-minus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-even nuclei  
 \***BT1** seconds living radioisotopes  
 \***BT1** vanadium isotopes

**VANADIUM 56**

1980-11-07

\***BT1** beta-minus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-odd nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 57**

*INIS: 1986-08-19; ETDE: 1981-01-30*

\***BT1** beta-minus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-even nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 58**

*INIS: 1986-08-19; ETDE: 1981-01-30*

\***BT1** beta-minus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-odd nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 59**

*INIS: 1986-08-19; ETDE: 1986-09-05*

\***BT1** intermediate mass nuclei  
 \***BT1** odd-even nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 60**

*INIS: 1986-08-19; ETDE: 1986-09-05*

\***BT1** intermediate mass nuclei  
 \***BT1** odd-odd nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 61**

2005-03-14

\***BT1** beta-minus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** nanoseconds living radioisotopes  
 \***BT1** odd-even nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 62**

2005-03-14

\***BT1** beta-minus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** nanoseconds living radioisotopes  
 \***BT1** odd-odd nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 63**

2005-03-14

\***BT1** beta-minus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** nanoseconds living radioisotopes  
 \***BT1** odd-even nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 64**

2008-01-28

\***BT1** beta-minus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** milliseconds living radioisotopes  
 \***BT1** odd-odd nuclei  
 \***BT1** vanadium isotopes

**VANADIUM 65**

2008-01-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 66**

2009-06-02

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM ADDITIONS**

1996-11-13

*Alloys containing not more than 1% V are listed here.*

- \*BT1 vanadium alloys
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 alloy-ni65mo28fe5
- NT2 hastelloy b
- NT1 alloy-ti90al6
- NT1 steel-cr12moniv
- NT1 steel-cr12mov
- NT2 alloy-ht-9
- NT1 steel-cr16ni13monbv
- NT1 steel-cr2mov
- NT1 steel-cr2nimov
- NT1 steel-cr9monbv
- NT1 steel-crmov
- NT1 steel-mnnimov
- NT1 steel-ni26cr15ti2movalb
- NT2 alloy-a-286
- NT1 steel-ni3crmo
- NT2 steel-astm-a543
- NT1 steel-ni3crmov

**VANADIUM ALLOYS**

1996-11-13

*Alloys containing more than 1% V.*

- UF alloy-co52fe35v13
- UF alloy-ehp-496
- UF steel-40k14g18f
- UF transage 129
- UF transage 134
- UF transage 175
- UF vikalloy 1
- UF vikalloy 2
- \*BT1 transition element alloys
- NT1 alloy-co52fe35v10
- NT1 alloy-ti90al6v4
- NT1 alloy-ti91al4mo3
- NT1 vanadium additions
- NT2 alloy-ni54mo17cr16fe6w4
- NT3 hastelloy c
- NT2 alloy-ni60co15cr10al6ti5mo3
- NT3 alloy-in-100
- NT2 alloy-ni62cr16mo15fe3
- NT3 hastelloy s
- NT2 alloy-ni65mo28fe5
- NT3 hastelloy b
- NT2 alloy-ti90al6
- NT2 steel-cr12moniv
- NT2 steel-cr12mov
- NT3 alloy-ht-9
- NT2 steel-cr16ni13monbv
- NT2 steel-cr2mov
- NT2 steel-cr2nimov
- NT2 steel-cr9monbv
- NT2 steel-crmov
- NT2 steel-mnnimov
- NT2 steel-ni26cr15ti2movalb
- NT3 alloy-a-286

NT2 steel-ni3crmo

NT3 steel-astm-a543

NT2 steel-ni3crmov

NT1 vanadium base alloys

NT2 alloy-v87cr9fe3

**VANADIUM ARSENIDES**

1996-07-15

(From June 1996 to February 2008

VANADIUM COMPOUNDS + ARSENIDES

was used for this concept.)

- \*BT1 arsenides
- \*BT1 vanadium compounds

**VANADIUM BASE ALLOYS**

- \*BT1 vanadium alloys
- NT1 alloy-v87cr9fe3

**VANADIUM BORIDES**

- \*BT1 borides
- \*BT1 vanadium compounds

**VANADIUM BROMIDES**

- \*BT1 bromides
- \*BT1 vanadium halides

**VANADIUM CARBIDES**

- \*BT1 carbides
- \*BT1 vanadium compounds

**VANADIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 vanadium halides

**VANADIUM COMPLEXES**

- \*BT1 transition element complexes

**VANADIUM COMPOUNDS**

1997-06-19

- BT1 transition element compounds
- NT1 vanadates
- NT2 potassium vanadates
- NT2 uranium vanadates
- NT1 vanadium arsenides
- NT1 vanadium borides
- NT1 vanadium carbides
- NT1 vanadium halides
- NT2 vanadium bromides
- NT2 vanadium chlorides
- NT2 vanadium fluorides
- NT2 vanadium iodides
- NT1 vanadium hydrides
- NT1 vanadium hydroxides
- NT1 vanadium nitrates
- NT1 vanadium nitrides
- NT1 vanadium oxides
- NT1 vanadium phosphates
- NT1 vanadium phosphides
- NT1 vanadium selenides
- NT1 vanadium silicates
- NT1 vanadium silicides
- NT1 vanadium sulfates
- NT1 vanadium sulfides
- NT1 vanadium tellurides
- NT1 vanadium tungstates

**VANADIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 vanadium halides

**VANADIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 vanadium compounds
- NT1 vanadium bromides
- NT1 vanadium chlorides
- NT1 vanadium fluorides
- NT1 vanadium iodides

**VANADIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 vanadium compounds

**VANADIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 vanadium compounds

**VANADIUM IODIDES**

- \*BT1 iodides
- \*BT1 vanadium halides

**VANADIUM IONS**

- \*BT1 ions

**VANADIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 vanadium 40
- NT1 vanadium 41
- NT1 vanadium 42
- NT1 vanadium 43
- NT1 vanadium 44
- NT1 vanadium 45
- NT1 vanadium 46
- NT1 vanadium 47
- NT1 vanadium 48
- NT1 vanadium 49
- NT1 vanadium 50
- NT1 vanadium 51
- NT1 vanadium 52
- NT1 vanadium 53
- NT1 vanadium 54
- NT1 vanadium 55
- NT1 vanadium 56
- NT1 vanadium 57
- NT1 vanadium 58
- NT1 vanadium 59
- NT1 vanadium 60
- NT1 vanadium 61
- NT1 vanadium 62
- NT1 vanadium 63
- NT1 vanadium 64
- NT1 vanadium 65
- NT1 vanadium 66

**vanadium minerals**

INIS: 2000-04-12; ETDE: 1975-10-28

*Use one of the more specific descriptors under MINERALS.*

(Prior to May 1982, this was a valid ETDE descriptor.)

USE minerals

**VANADIUM NITRATES**

INIS: 1976-10-29; ETDE: 1976-12-16

- \*BT1 nitrates
- \*BT1 vanadium compounds

**VANADIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 vanadium compounds

**VANADIUM ORES**

1976-02-11

BT1 ores

**VANADIUM OXIDES**

1996-07-18

- \*BT1 oxides
- \*BT1 vanadium compounds
- RT corvusite
- RT ferghanite
- RT melanovanadite
- RT oxide minerals
- RT pascoite
- RT rauvite
- RT sengierite
- RT tyuyamunite
- RT vanadates

**VANADIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 vanadium compounds

**VANADIUM PHOSPHIDES**

*INIS: 1980-11-07; ETDE: 1979-04-11*

- \*BT1 phosphides
- \*BT1 vanadium compounds

**VANADIUM SELENIDES**

*INIS: 1979-09-18; ETDE: 1977-11-09*

- \*BT1 selenides
- \*BT1 vanadium compounds

**VANADIUM SILICATES**

- \*BT1 silicates
- \*BT1 vanadium compounds

**VANADIUM SILICIDES**

- \*BT1 silicides
- \*BT1 vanadium compounds

**VANADIUM SULFATES**

- \*BT1 sulfates
- \*BT1 vanadium compounds

**VANADIUM SULFIDES**

- \*BT1 sulfides
- \*BT1 vanadium compounds

**VANADIUM TELLURIDES**

*INIS: 2000-04-12; ETDE: 1991-07-30*

- \*BT1 tellurides
- \*BT1 vanadium compounds

**VANADIUM TUNGSTATES**

*1996-07-15*

(From June 1996 to February 2008

VANADIUM COMPOUNDS + TUNGSTATES was used for this concept.)

- \*BT1 tungstates
- \*BT1 vanadium compounds

**VANDELLOS-2 REACTOR**

*INIS: 1995-02-15; ETDE: 1986-04-29*

*Vandellos, Tarragona, Spain.*

- \*BT1 pwr type reactors

**VANDELLOS REACTOR**

*Vandellos, Tarragona, Spain. Permanently shut down since 1990.*

- \*BT1 carbon dioxide cooled reactors
- \*BT1 gcr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**VANES**

- RT fins
- RT reactor components

**VANPOOLING**

*INIS: 2000-04-12; ETDE: 1977-06-21*

- SF *ridesharing*
- BT1 *carpooling*
- RT *energy conservation*
- RT *land transport*
- RT *roads*
- RT *transportation systems*
- RT *vans*

**VANS**

*INIS: 2000-04-12; ETDE: 1979-12-17*

- BT1 *vehicles*
- RT *automobiles*
- RT *occupants*
- RT *taxicabs*
- RT *vanpooling*

**vanstar 7**

*1997-01-28*

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE *alloy-v87cr9fe3*

**VANUATU**

*2018-07-24*

- BT1 *developing countries*

- BT1 *islands*
- BT1 *oceania*
- RT *pacific ocean*

**VAPOR COMPRESSION REFRIGERATION CYCLE**

*INIS: 2000-04-12; ETDE: 1978-05-03*

- BT1 *thermodynamic cycles*
- RT *air conditioners*
- RT *cooling systems*
- RT *gas compressors*
- RT *refrigerating machinery*
- RT *refrigeration*
- RT *refrigerators*

**VAPOR CONDENSATION**

- UF *condensation (vapor)*
- NT1 *dropwise condensation*
- NT1 *film condensation*
- RT *condensates*
- RT *condensation chambers*
- RT *condensation nuclei*
- RT *cooling*
- RT *dew point*
- RT *fog*
- RT *heat transfer*
- RT *liquefaction*
- RT *subcooling*
- RT *vapor condensers*

**VAPOR CONDENSERS**

- UF *condensers (vapor)*
- UF *liquefiers*
- SF *condensers*
- NT1 *cold traps*
- NT1 *steam condensers*
- NT2 *ice condensers*
- NT2 *isolation condensers*
- RT *condensing boilers*
- RT *cooling towers*
- RT *counterflow systems*
- RT *crossflow systems*
- RT *evaporators*
- RT *heat sinks*
- RT *vapor condensation*
- RT *vapor separators*

**VAPOR DEPOSITED COATINGS**

- BT1 *coatings*
- RT *chemical vapor deposition*
- RT *physical vapor deposition*
- RT *sputtering*
- RT *vacuum coating*
- RT *vacuum evaporation*
- RT *vapor plating*

**VAPOR-DOMINATED SYSTEMS**

*INIS: 1997-06-19; ETDE: 1976-03-25*

(Prior to May 1976 DRY-STEAM SYSTEMS was used for this concept in ETDE.)

- UF *dry-steam systems*
- \*BT1 *hydrothermal systems*
- RT *geysers geothermal field*
- RT *larderello geothermal field*
- RT *matsukawa geothermal field*
- RT *travale geothermal field*

**VAPOR EXPLOSIONS**

*2009-12-09*

- BT1 *explosions*
- RT *reactor accidents*
- RT *vapors*

**VAPOR GENERATORS**

- UF *generators (vapor)*
- BT1 *boilers*
- NT1 *steam generators*
- RT *rankine cycle engines*
- RT *reactor cooling systems*
- RT *vapors*

**vapor incinerators**

*INIS: 2000-04-12; ETDE: 1975-11-11*

- USE *afterburners*

**VAPOR JET EJECTORS**

- NT1 *steam jet ejectors*
- RT *mhd generators*

**VAPOR PHASE EPITAXY**

*INIS: 1992-08-12; ETDE: 1982-10-20*

*Epitaxial growth resulting from the pyrolysis of or chemical reaction between vapor phase components at the substrate surface.*

- \*BT1 *epitaxy*
- RT *chemical vapor deposition*
- RT *crystal growth*

**VAPOR PLATING**

- \*BT1 *plating*
- RT *cathode sputtering*
- RT *chemical vapor deposition*
- RT *physical vapor deposition*
- RT *vacuum evaporation*
- RT *vapor deposited coatings*

**VAPOR PRESSURE**

- UF *pressure (vapor)*
- \*BT1 *thermodynamic properties*
- RT *knudsen flow*

**VAPOR SEPARATORS**

- UF *moisture separators*
- UF *separators (vapor)*
- \*BT1 *separation equipment*
- NT1 *steam separators*
- RT *mhd generators*
- RT *vapor condensers*

**vaporization**

- USE *evaporation*

**VAPORIZATION HEAT**

- UF *heat of vaporization*
- UF *latent heat of vaporization*
- \*BT1 *transition heat*
- RT *evaporation*
- RT *latent heat storage*

**VAPORS**

- \*BT1 *gases*
- NT1 *water vapor*
- RT *distillates*
- RT *evaporation*
- RT *liquids*
- RT *vapor explosions*
- RT *vapor generators*
- RT *void fraction*

**var compensators**

*INIS: 2000-04-12; ETDE: 1983-03-23*

- USE *var control systems*

**VAR CONTROL SYSTEMS**

*INIS: 2000-04-12; ETDE: 1983-03-23*

- UF *var compensators*
- UF *volt-ampere reactive control systems*
- BT1 *control systems*
- RT *electric power*
- RT *electrical transients*
- RT *overvoltage*
- RT *power factor*
- RT *power systems*
- RT *power transmission*
- RT *reliability*
- RT *stabilization*
- RT *surges*

**varactors**

- USE *variable capacitance diodes*

**VARENNES TOKAMAK**

1983-09-06

UF tokamak de varennnes

\*BT1 tokamak devices

**variability (biological)**

USE biological variability

**variability (genetic)**

USE genetic variability

**VARIABLE CAPACITANCE DIODES**

UF varactors

\*BT1 semiconductor diodes

**VARIABLE ENERGY CYCLOTRONS**

1999-05-19

\*BT1 cyclotrons

NT1 calcutta cyclotron

NT1 chandigarh cyclotron

**variable moment of inertia model**

USE vmi model

**VARIABLE STARS**

BT1 stars

NT1 eruptive variable stars

NT2 novae

NT2 supernovae

NT3 type i supernovae

NT3 type ii supernovae

NT2 t tauri stars

NT1 pulsating variable stars

NT2 cepheids

RT magnetic stars

RT starspots

**varian computers**

INIS: 2000-04-12; ETDE: 1975-11-28

(Prior to March 1997 this was a valid ETDE descriptor.)

USE computers

**VARIATIONAL METHODS**

BT1 calculation methods

NT1 density functional method

NT1 hsk procedure

NT1 resonating-group method

NT1 schwinger variational method

RT functionals

RT mathematics

RT neutron transport theory

RT optimization

RT ritz method

**VARIATIONAL MONTE CARLO METHOD**

2018-03-01

\*BT1 quantum monte carlo method

**VARIATIONS**

NT1 annual variations

NT1 daily variations

NT1 fluctuations

NT2 landau fluctuations

NT1 geographical variations

NT2 latitude effect

NT1 hourly variations

NT1 monthly variations

NT1 nocturnal variations

NT1 periodicity

NT1 seasonal variations

RT degrees of freedom

RT disturbances

RT modifications

RT modulation

RT oscillations

RT pulsations

RT reactor noise

RT temperature noise

RT transients

**varistors**

Non-linear semiconductor resistors.

USE semiconductor resistors

**VARNISHES**

BT1 coatings

RT dielectric materials

**VASCULAR DISEASES**

\*BT1 cardiovascular diseases

NT1 arteriosclerosis

NT1 hypertension

NT1 ischemia

NT1 nephrosclerosis

NT1 telangiectasis

NT1 thrombosis

RT blood vessels

RT emboli

RT vasoconstrictors

RT vasodilators

**VASOCONSTRICTION**

RT blood circulation

RT blood vessels

RT capillaries

RT cardiovascular agents

RT sympathomimetics

RT vasoconstrictors

RT vasodilation

**VASOCONSTRICTORS**

INIS: 1984-05-24; ETDE: 1981-04-20

\*BT1 cardiovascular agents

NT1 angiotensin

NT1 ephedrine

RT blood vessels

RT endothelins

RT vascular diseases

RT vasoconstriction

**vasodilatation**

INIS: 1990-12-07; ETDE: 2002-05-24

(Prior to December 1990, this was a valid descriptor.)

USE vasodilation

**VASODILATION**

INIS: 1990-12-07; ETDE: 1977-10-20

UF vasodilatation

RT blood circulation

RT blood vessels

RT capillaries

RT cardiovascular agents

RT sympathomimetics

RT vasoconstriction

RT vasodilators

**VASODILATORS**

INIS: 1984-05-24; ETDE: 1981-04-20

\*BT1 cardiovascular agents

NT1 diprydamole

NT1 theobromine

NT1 theophylline

RT blood vessels

RT vascular diseases

RT vasodilation

**VASOPRESSIN**

UF antidiuretic hormone

\*BT1 pituitary hormones

RT tubules

**vatican city state**

2008-03-28

USE holy see

**vavilov-cherenkov radiation**

USE cherenkov radiation

**vax computers**

INIS: 1980-09-12; ETDE: 1980-03-29

USE dec computers

**VBWR REACTOR**

General Electric Co., Sunol, California, USA.

Decommissioned in 1963.

UF vallecitos vbwr reactor

\*BT1 bwr type reactors

**vcocl**

ETDE: 2002-05-24

USE vcoclnd

**VCOCLND**

Vienna Convention on Civil Liability for Nuclear Damage.

UF damage, vienna convention on liability

UF liability conv nuclear damage, vienna

UF nuclear damage, vienna civil liability convention

UF vcocl

UF vienna convention on civil liability

\*BT1 multilateral agreements

RT civil liability

RT nuclear damage

RT nuclear liability

**vector-axial vector theory**

USE v-a theory

**VECTOR CURRENTS**

\*BT1 algebraic currents

RT axial-vector currents

RT cvc theory

RT pcvc theory

RT v-a theory

**VECTOR DOMINANCE MODEL**

\*BT1 particle models

RT vector mesons

**VECTOR FIELDS**

RT quantum chromodynamics

RT quantum field theory

**VECTOR MESONS**

1995-08-07

Mesons with spin and parity 1-

SF upsilon resonances

\*BT1 mesons

NT1 b\*-5325 mesons

NT1 d\*-2010 mesons

NT1 j psi-3097 mesons

NT1 k\*-1410 mesons

NT1 k\*-1680 mesons

NT1 k\*-892 mesons

NT1 omega-1420 mesons

NT1 omega-1600 mesons

NT1 omega-782 mesons

NT1 phi-1020 mesons

NT1 phi-1680 mesons

NT1 psi-3685 mesons

NT1 psi-3770 mesons

NT1 psi-4040 mesons

NT1 psi-4160 mesons

NT1 psi-4415 mesons

NT1 rho-1450 mesons

NT1 rho-1700 mesons

NT1 rho-2150 mesons

NT1 rho-770 mesons

NT1 upsilon-10023 mesons

NT1 upsilon-10355 mesons

NT1 upsilon-10580 mesons

NT1 upsilon-10860 mesons

NT1 upsilon-11020 mesons

NT1 upsilon-9460 mesons

RT gluon model

RT gluons

RT higgs model

RT meson nonets

RT vector dominance model

**VECTOR PROCESSING***INIS: 1997-06-17; ETDE: 1983-11-09*

- BT1 programming
- RT algorithms
- RT cedar computers
- RT computers
- RT parallel processing
- RT supercomputers

**VECTORS**

- BT1 tensors
- NT1 isovectors
- RT banach space
- RT eigenvectors
- RT helmholtz theorem
- RT laplacian
- RT mathematics
- RT poynting theorem
- RT spinors
- RT tensor forces

**VEGA SPACE PROBES***INIS: 1985-04-22; ETDE: 1985-05-07*

- \*BT1 space vehicles

**VEGARD LAW**

- RT alloy systems
- RT crystal lattices

**VEGETABLE OILS***INIS: 1996-10-22; ETDE: 1983-03-07*

(Prior to March 1983 this concept was indexed to PLANTS and OILS in ETDE.)

- UF croton oil
- UF tigllium oil
- \*BT1 oils
- NT1 castor oil
- NT1 corn oil
- NT1 cottonseed oil
- NT1 linseed oil
- NT1 olive oil
- NT1 palm oil
- NT1 peanut oil
- NT1 sesame oil
- NT1 soybean oil
- NT1 sunflower oil
- RT essential oils

**VEGETABLES***Edible parts of plants only.*

- BT1 food
- BT1 plants
- NT1 beans
  - NT2 mungbeans
- NT1 beets
  - NT2 sugar beets
- NT1 brassica
  - NT2 kale
- NT1 carrots
- NT1 cucumbers
- NT1 garlic
- NT1 lettuce
- NT1 onions
  - NT2 allium cepa
- NT1 peas
- NT1 peppers
- NT1 potatoes
- NT1 radishes
- NT1 soybeans
- NT1 spinach
- NT1 yams
- RT crops

**vegetation**

- USE plants

**VEGETATIVE PROPAGATION***1999-05-05*

- BT1 cloning
- RT adventitious bud technique
- RT plants

- RT reproduction

**VEHICLES***1995-09-08*

(From February 1982 till March 1997

TRAILERS was a valid ETDE descriptor.)

- UF motor vehicles
- SF trailers
- NT1 air cushion vehicles
- NT1 automobiles
- NT1 bicycles
- NT1 buses
- NT1 electric-powered vehicles
  - NT2 hybrid electric-powered vehicles
  - NT2 roadway-powered electric vehicles
- NT1 flywheel-powered vehicles
- NT1 low-emission vehicles
- NT1 mine cars
- NT1 motorcycles
- NT1 railroad cars
- NT1 recreational vehicles
- NT1 space vehicles
  - NT2 international space station
  - NT2 luna space probes
  - NT2 mariner space probes
  - NT2 mars space probes
  - NT2 mir orbital station
  - NT2 pioneer space probes
  - NT2 reentry vehicles
  - NT2 saljut orbital stations
  - NT2 skylab
  - NT2 space shuttles
  - NT2 vega space probes
  - NT2 venera space probes
  - NT2 viking space probes
  - NT2 voyager space probes
- NT1 taxicabs
- NT1 trackless vehicles
- NT1 trains
  - NT2 levitated trains
  - NT2 locomotives
- NT1 trucks
- NT1 vans
  - RT earthmoving equipment
  - RT mechanical transmissions
  - RT mobile homes
  - RT motor vehicle accidents
  - RT motor vehicle operators
  - RT occupants
  - RT postal services
  - RT propulsion systems
  - RT rail transport
  - RT road tests
  - RT road transport
  - RT tires
  - RT traffic control
  - RT transport
  - RT wheels

**VEINS**

- \*BT1 blood vessels
- NT1 portal system
- RT intravenous injection
- RT lymph vessels

**VELA PROJECT***1996-07-23*

(Prior to February 1996 COWBOY EVENT and LOLLIPOP EVENT were valid ETDE descriptors; prior to March 1997 SHOAL EVENT was a valid ETDE descriptor.)

- UF cowboy event
- UF lollipop event
- UF project vela
- UF shoal event
- NT1 gnome event
- NT1 long shot event
- NT1 salmon event
- NT1 sterling event
- RT nuclear explosions

- RT seismic detection
- RT seismology
- RT underground explosions

**VELOCIMETERS***INIS: 1978-11-24; ETDE: 1975-08-19*

- UF speed indicators
- BT1 measuring instruments
- RT accelerometers
- RT velocity

**VELOCITY**

- UF speed
- NT1 angular velocity
- NT1 critical velocity
- NT1 mach number
- NT1 phase velocity
- NT1 radial velocity
- NT1 slip velocity
- RT acceleration
- RT flow rate
- RT kinetic energy
- RT linear momentum
- RT motion
- RT velocimeters

**velocity-pumps reaction turbines***INIS: 2000-04-12; ETDE: 1979-07-24*

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE turbines

**VENERA SPACE PROBES***INIS: 1978-09-28; ETDE: 1979-06-21*

- \*BT1 space vehicles
- RT space flight

**VENEZIANO MODEL**

- \*BT1 particle models
- NT1 dual resonance model
- RT scattering amplitudes

**VENEZUELA**

- BT1 developing countries
- \*BT1 south america
- RT andes
- RT opec

**VENOMS**

- RT toxicity
- RT toxins

**VENTILATION**

- UF natural ventilation
- UF ventilation ducts
- NT1 displacement ventilation
- RT aerosols
- RT air
- RT air cleaning
- RT air cleaning systems
- RT air conditioning
- RT air flow
- RT airtightness
- RT building technology suite
- RT ceiling fans
- RT exhaust systems
- RT filters
- RT fume hoods
- RT gaseous wastes
- RT stacks
- RT ventilation barriers
- RT ventilation systems

**VENTILATION BARRIERS***INIS: 1996-04-18; ETDE: 1978-05-03**Physical barriers used in mines to prevent harmful gases or smoke from mixing with air in the area being worked by miners.*

- UF stoppings (ventilation barriers)
- SF barriers
- BT1 engineered safety systems
- RT ventilation

**ventilation ducts**

INIS: 2000-04-12; ETDE: 1977-06-24

USE ducts  
USE ventilation

**VENTILATION SYSTEMS**

INIS: 1992-04-13; ETDE: 1978-01-23

RT air cleaning systems  
RT air conditioning  
RT air flow  
RT displacement ventilation  
RT space hvac systems  
RT ventilation

**VENTS**

RT openings

**VENTURI SCRUBBERS**

2013-11-27

\*BT1 wet scrubbers

**VENTURI TUBES**

RT flowmeters

**VENUS-1 REACTOR**

2018-06-04

Beijing, Fangshang district, China.

\*BT1 subcritical assemblies

**VENUS PLANET**

BT1 planets

**VENUS REACTOR**

(In 2008 the reactor was transformed into a fast lead reactor. In 2011 for the lead-based subcritical reactor was coupled with a particle accelerator in continuous mode.)

UF vulcan experiment nuclear study

\*BT1 accelerator-driven subcritical systems  
\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 lmfr type reactors  
\*BT1 thermal reactors

**VEP-1**

BT1 storage rings

**VEPP-2**

BT1 storage rings

**VEPP-3**

BT1 storage rings

**VEPP-4**

BT1 storage rings

**VERA REACTOR**

UK Ministry of Defence, Berkshire, United Kingdom.

UF versatile experimental reactor assembly

\*BT1 fast reactors  
\*BT1 research reactors  
\*BT1 zero power reactors  
RT enriched uranium reactors  
RT plutonium reactors

**VERIFICATION**

INIS: 1995-04-09; ETDE: 1983-08-25

Process or result of confirming the accuracy of reported information, data, etc.

UF data validation  
UF information validation  
RT arms control  
RT audits  
RT data processing  
RT inspection  
RT on-site inspection  
RT treaties  
RT validation

**VERMICULITE**

\*BT1 inorganic ion exchangers

\*BT1 mica  
RT aluminium silicates  
RT iron silicates  
RT magnesium silicates

**VERMONT**

1997-06-17

\*BT1 usa  
RT connecticut river  
RT connecticut river basin

**VERMONT YANKEE REACTOR**

Entergy Nuclear Operations, Inc., Vernon, Vermont, USA. Permanent shutdown since December 2014.

UF yankee vermont reactor

\*BT1 bwr type reactors

**VERNACULAR ARCHITECTURE**

2005-06-01

Approach based on traditional methods which are especially suitable for the locality.

BT1 architecture  
RT building codes  
RT construction  
RT energy conservation  
RT site selection

**VERNALIZATION**

RT cereals  
RT crops  
RT seasons  
RT seeds  
RT sprouting  
RT temperature dependence

**VERNEUIL METHOD**

2000-04-12

Method of single-crystal growth in which powder is dropped through an oxy-hydrogen flame, falling molten on crystal seed.

BT1 crystal growth methods  
BT1 flames  
RT crystal growth  
RT monocrystals

**vernier chronotrons**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE chronotrons

**VERPLANCK-1 REACTOR**

Consolidated Edison Co., Verplanck, New York, USA. Canceled in 1972 before construction began.

\*BT1 bwr type reactors

**VERPLANCK-2 REACTOR**

Consolidated Edison Co., Verplanck, New York, USA. Canceled in 1972 before construction began.

\*BT1 bwr type reactors

**versatile experimental reactor assembly**

1993-11-10

USE vera reactor

**versatile intermediate pulsed experimental reactor**

1993-11-10

USE viper reactor

**VERSATOR TOKAMAK**

INIS: 1986-03-04; ETDE: 1985-08-08

A tokamak confinement experiment at Massachusetts Institute of Technology used primarily for studies on rf heating and current drive using lower hybrid waves.

\*BT1 tokamak devices

**versene**

USE edta

**versuchsatomkraftwerk kahl reactor**

1993-11-10

USE vak reactor

**VERTEBRAE**

UF disks (intervertebral)

UF intervertebral disks

UF spine

\*BT1 skeleton

RT spinal cord

RT spondylitis

**VERTEBRATES**

UF chordates

BT1 animals

NT1 amphibians

NT2 frogs

NT2 salamanders

NT3 triturus

NT2 toads

NT1 birds

NT2 fowl

NT3 chickens

NT3 ducks

NT3 geese

NT2 pigeons

NT1 fishes

NT2 anadromous fishes

NT3 salmon

NT3 striped bass

NT2 codfish

NT2 eel

NT2 fathead minnow

NT2 goldfish

NT2 plaice

NT2 trout

NT2 tuna

NT1 mammals

NT2 bats

NT2 bears

NT2 burros

NT2 cats

NT2 cetaceans

NT2 coyotes

NT2 dogs

NT3 beagles

NT2 foxes

NT2 horses

NT2 marsupials

NT2 otters

NT2 pinnipeds

NT2 primates

NT3 apes

NT3 man

NT4 children

NT5 infants

NT4 elderly people

NT4 men

NT4 women

NT3 monkeys

NT4 baboons

NT4 macacus

NT2 rabbits

NT2 rodents

NT3 gerbils

NT3 guinea pigs

NT3 hamsters

NT3 mice

NT4 transgenic mice

NT3 prairie dogs

NT3 rats

NT3 squirrels

NT3 voles

NT2 ruminants

NT3 buffalo

NT3 camels

NT3 cattle



- NT4 calves
- NT4 cows
- NT3 deer
- NT3 goats
- NT3 llamas
- NT3 sheep
- NT2 shrews
- NT2 swine
- NT3 miniature swine
- NT2 wolves
- NT1 reptiles
- NT2 alligators
- NT2 lizards
- NT2 snakes
- NT2 turtles

**VERTEX FUNCTIONS**

- BT1 functions
- RT form factors
- RT quantum field theory

**VERTICAL AXIS TURBINES**

- INIS: 1992-09-24; ETDE: 1976-02-19
- \*BT1 wind turbines
- NT1 giromill turbines
- NT1 tornado turbines
- RT darrieus rotors
- RT madaras rotors
- RT savonius rotors

**VERTICAL DIVESTITURE**

- INIS: 2000-04-19; ETDE: 1977-09-19
- Required breaking up of (energy) companies into production, refining, and marketing components.
- RT competition
- RT petroleum industry
- RT regulations

**VERTICAL INTEGRATION**

- INIS: 1999-09-13; ETDE: 1978-04-27
- RT competition
- RT petroleum industry

**very high frequency**

- USE mhz range

**very high frequency radiation**

- USE mhz range
- USE radiowave radiation

**very high pressure**

- (Prior to November 2003 this was a valid descriptor.)
- SEE pressure range giga pa
- SEE pressure range mega pa 100-1000

**very high temperature**

- 1992-01-23
- (Prior to February 1992, this was a valid ETDE descriptor.)
- USE temperature range 1000-4000 k

**very low pressure**

- SEE pressure range milli pa
- SEE pressure range pa

**very low temperature**

- 1992-01-23
- (Prior to February 1992, this was a valid ETDE descriptor.)
- USE temperature range 0013-0065 k

**vessels**

- USE containers

**vessels (chemical reactions)**

- INIS: 1985-12-10; ETDE: 1976-05-17
- USE chemical reactors

**vessels (pressure)**

- USE pressure vessels

**vessels (reactor)**

- USE reactor vessels

**VESTIBULAR APPARATUS**

- UF labyrinth
- \*BT1 sense organs
- RT auditory organs

**VESUVIANITE**

- INIS: 2000-04-12; ETDE: 1981-04-17
- \*BT1 uranium minerals

**vetch**

- USE vicia

**veterans administration hospital triga reactor**

- 1993-11-10
- USE triga-veterans reactor

**VETERINARY MEDICINE**

- BT1 medicine
- RT animals

**VG-400 REACTOR**

- INIS: 1989-04-20; ETDE: 1989-05-11
- \*BT1 enriched uranium reactors
- \*BT1 helium cooled reactors
- \*BT1 htgr type reactors
- \*BT1 pebble bed reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**vgl devices**

- 1996-07-15
- (Until June 1996 this was a valid descriptor.)
- USE magnetic mirrors

**VGR-50 REACTOR**

- INIS: 1989-04-20; ETDE: 1989-05-11
- \*BT1 enriched uranium reactors
- \*BT1 helium cooled reactors
- \*BT1 htgr type reactors
- \*BT1 pebble bed reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**vhf**

- USE mhz range

**vhf radiation**

- USE mhz range
- USE radiowave radiation

**VHTR REACTOR**

- INIS: 1978-01-16; ETDE: 1978-03-03
- UF experimental very high temperature gas cooled reactor
- UF multipurpose vhtr reactor
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 helium cooled reactors
- \*BT1 htgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**VIABILITY**

- ETDE: 1975-09-11
- RT biological regeneration
- RT growth
- RT life cycle
- RT reproduction

**VIBRATING SAMPLE MAGNETOMETERS**

- \*BT1 magnetometers

**vibration modes**

- USE oscillation modes

**vibrational band**

- USE vibrational states

**VIBRATIONAL STATES**

- UF collective states (vibrational)
- UF vibrational band
- \*BT1 excited states
- RT infrared spectra
- RT lattice vibrations
- RT rotation-vibration model
- RT rydberg-klein-rees method

**vibrations (lattice)**

- USE lattice vibrations

**vibrations (mechanical)**

- USE mechanical vibrations

**VIBRON MODEL**

- INIS: 1992-08-06; ETDE: 1992-09-10
- \*BT1 nuclear models
- RT cluster model

**VICIA**

- UF vetch
- \*BT1 leguminosae

**VICKERS HARDNESS**

- RT hardness

**vicksi**

- INIS: 2000-04-12; ETDE: 1975-11-11
- (Prior to July 1985, this was a valid ETDE descriptor.)
- USE vicksi accelerator

**VICKSI ACCELERATOR**

- INIS: 1976-02-11; ETDE: 1976-03-25
- Van de Graaff Isochronous Cyclotron Kombination fuer Schwere Ionen at Hahn-Meitner-Institut, Berlin.
- UF hahn-meitner vicksi accelerator
- UF vicksi
- \*BT1 heavy ion accelerators
- RT isochronous cyclotrons
- RT van de graaff accelerators

**VICTIMS COMPENSATION**

- INIS: 1976-12-08; ETDE: 1978-03-08
- For victims not covered by workmens compensation.
- RT accident management
- RT accidents
- RT exceptional natural disaster
- RT financial security
- RT insurance
- RT liabilities
- RT workmens compensation

**VICTORIA**

- \*BT1 australia

**VIDAL-1 REACTOR**

- INIS: 1976-02-11; ETDE: 1975-10-01
- Southern California Edison Co., Vidal, California, USA. Canceled in 1974 before construction began.
- \*BT1 enriched uranium reactors
- \*BT1 helium cooled reactors
- \*BT1 htgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**VIDAL-2 REACTOR**

- INIS: 1976-02-11; ETDE: 1975-10-01
- Southern California Edison Co., Vidal, California, USA. Canceled in 1974 before construction began.
- \*BT1 enriched uranium reactors
- \*BT1 helium cooled reactors
- \*BT1 htgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**VIDEO FILES**

2012-05-23

BT1 document types

**VIDEO TAPES**

INIS: 1985-03-19; ETDE: 1981-06-13

\*BT1 magnetic tapes

RT digitizers

RT image processing

RT images

RT remote viewing equipment

RT television

**VIDICONS**

\*BT1 camera tubes

RT television cameras

**vienna convention on civil liability**

1993-11-10

USE vcoclnd

**vienna triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-05-24

USE triga-2-vienna reactor

**VIET NAM**

INIS: 1977-10-17; ETDE: 1978-03-08

BT1 asia

BT1 developing countries

RT centrally planned economies

**VIETNAMESE ORGANIZATIONS**

1993-08-06

BT1 national organizations

**vietnamese triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-05-24

USE triga-2-dalat reactor

**vietnamese triga-mk-ii reactor**

2000-04-12

USE triga-2-dalat reactor

**VIGNA**

INIS: 1992-05-05; ETDE: 1993-01-20

UF cowpea plants

UF mungbean plants

\*BT1 leguminosae

RT mungbeans

**vikalloy 1**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE cobalt base alloys

USE iron alloys

USE vanadium alloys

**vikalloy 2**

INIS: 1996-07-16; ETDE: 1978-12-20

(Until July 1996 this was a valid descriptor.)

USE cobalt base alloys

USE iron alloys

USE vanadium alloys

**VIKING SPACE PROBES**

INIS: 1977-06-13; ETDE: 1976-09-28

\*BT1 space vehicles

**villigen cyclotron**

USE sin cyclotron

**VINBLASTINE**

\*BT1 alkaloids

\*BT1 antimitotic drugs

\*BT1 indoles

RT leukemia

**vinca r-a reactor yugoslavia**

USE r-a reactor

**vinca r-b reactor yugoslavia**

USE r-b reactor

**vincristine sulfate**

INIS: 2002-03-17; ETDE: 2000-11-24

USE oncovin

**vinoflex**

USE polyvinyls

**VINT TORSATRON**

INIS: 1977-01-26; ETDE: 1977-04-13

\*BT1 torsatron stellarators

**VINTOTRON DEVICES**

2000-04-12

BT1 thermonuclear devices

**VINYL ACETATE**

2005-02-22

\*BT1 acetic acid esters

RT vinyl monomers

**VINYL CHLORIDE**

INIS: 1992-03-17; ETDE: 1984-05-08

UF monochloroethylene

\*BT1 chlorinated aliphatic hydrocarbons

**vinyl cyanide**

USE acrylonitrile

**VINYL MONOMERS**

BT1 monomers

RT acrolein

RT acrylamide

RT acrylates

RT acrylic acid

RT acrylic acid esters

RT acrylonitrile

RT methacrylates

RT methacrylic acid

RT methacrylic acid esters

RT styrene

RT vinyl acetate

**VINYL RADICALS**

\*BT1 alkyl radicals

**vinylbenzene**

USE styrene

**VINYLDIENE RADICALS**

BT1 radicals

**violanthrone**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE ketones

**VIOLATIONS**

INIS: 1993-06-04; ETDE: 1979-11-23

Failure to comply with laws or regulations; not for violations of invariance principles.

UF notice of probable violation

NT1 security violations

RT administrative procedures

RT compliance

RT enforcement

RT laws

RT regulations

**VIPER REACTOR**

UK Ministry of Defence, Berkshire, United Kingdom.

UF versatile intermediate pulsed experimental reactor

\*BT1 enriched uranium reactors

\*BT1 fast reactors

\*BT1 organic moderated reactors

\*BT1 pulsed reactors

\*BT1 research reactors

\*BT1 test reactors

**VIRAL DISEASES**

INIS: 1982-12-08; ETDE: 1981-01-12

UF rinderpest

\*BT1 infectious diseases

NT1 aids

NT1 herpes simplex

NT1 herpes zoster

NT1 infectious hepatitis

NT1 influenza

NT1 measles

NT1 newcastle disease

NT1 poliomyelitis

NT1 rabies

RT cell transformations

RT encephalitis

RT host

RT viruses

RT zika virus

**virgil c summer-1 reactor**

USE summer-1 reactor

**VIRGIN ISLANDS**

INIS: 1992-06-04; ETDE: 1979-07-24

\*BT1 lesser antilles

\*BT1 usa

**VIRGINIA**

\*BT1 usa

RT chesapeake bay

RT james river

RT potomac river

RT potomac river basin

RT us east coast

**virginia polytechnic institute training reactor**

1993-11-10

USE vpi-utr-10 reactor

**virginia university reactor**

INIS: 1984-06-21; ETDE: 2002-05-24

USE uvar reactor

**VIRIAL EQUATION**

1999-07-07

In thermodynamics only.

BT1 equations

RT equations of state

RT gases

RT thermodynamics

RT van der waals forces

**VIRIAL THEOREM**

In mechanics only.

RT kinetic energy

RT mechanics

RT particles

RT statistics

**VIRTUAL HEIGHT**

2000-04-12

Apparent height of an ionized atmospheric layer determined from time interval between the transmitted signal and the ionospheric echo at vertical incident.

\*BT1 height

RT ionosphere

RT scale height

**virtual mass effect**

INIS: 1976-03-17; ETDE: 1976-08-24

USE hydrodynamic mass effect

**VIRTUAL PARTICLES**

BT1 elementary particles

RT deep inelastic scattering

**VIRTUAL STATES**

BT1 energy levels

**VIRULENCE**

RT infectious diseases

RT microorganisms

**VIRUSES**

BT1 microorganisms  
 BT1 parasites  
 NT1 aids virus  
 NT1 bacteriophages  
 NT1 influenza viruses  
 NT1 measles virus  
 NT1 oncogenic viruses  
 NT2 adenovirus  
 NT2 leukemia viruses  
 NT2 polyoma virus  
 NT1 polio virus  
 NT1 simian virus  
 NT1 tobacco mosaic virus  
 NT1 vaccinia virus  
 NT1 zika virus  
 RT herpes simplex  
 RT herpes zoster  
 RT inoculation  
 RT interferon  
 RT mutagens  
 RT newcastle disease  
 RT particles  
 RT plaque formation  
 RT rabies  
 RT vaccines  
 RT viral diseases

**VISCOSE**

\*BT1 polysaccharides  
 \*BT1 xanthates

**VISCOSIMETERS**

BT1 measuring instruments

**VISCOSITY**

UF heavy oils  
 RT fluid flow  
 RT grashof number  
 RT hartmann number  
 RT internal friction  
 RT nusselt number  
 RT rheology  
 RT superfluidity  
 RT thixotropy  
 RT viscous flow

**VISCOUS FLOW**

BT1 fluid flow  
 NT1 couette flow  
 RT laminar flow  
 RT navier-stokes equations  
 RT prandtl number  
 RT reynolds number  
 RT stokes law  
 RT turbulent flow  
 RT viscosity

**VISIBILITY**

INIS: 1986-05-23; ETDE: 1978-02-14  
 RT fog  
 RT luminosity  
 RT opacity  
 RT optical properties  
 RT pattern recognition  
 RT smog  
 RT smokes  
 RT visible radiation

**VISIBLE RADIATION**

UF light  
 UF photomagnetic effect  
 \*BT1 electromagnetic radiation  
 RT fresnel coefficient  
 RT kerr effect  
 RT laser radiation  
 RT light scattering  
 RT light sources  
 RT lighting requirements  
 RT lighting systems  
 RT monochromatic radiation

RT opacity  
 RT optoelectronic devices  
 RT photon beams  
 RT photoperiod  
 RT photoreactivation  
 RT raman effect  
 RT reflectivity  
 RT schlieren method  
 RT visibility  
 RT visible spectra  
 RT voigt effect

**VISIBLE SPECTRA**

INIS: 1976-07-30; ETDE: 1976-11-01

BT1 spectra  
 RT visible radiation

**VISION**

RT eyes

**visitor centers**

INIS: 2000-04-12; ETDE: 1981-01-09

USE public buildings

**visual purple**

INIS: 1986-03-04; ETDE: 2002-05-24

USE rhodopsin

**visualization (data)**

2015-03-20

USE data visualization

**visualization (flow)**

2015-03-20

USE flow visualization

**VITALLIUM**

2000-04-12

\*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 molybdenum alloys

**VITAMIN A**

UF axerophthol  
 UF retinol  
 BT1 vitamins  
 RT carotenoids  
 RT retinoic acid

**vitamin b-1**

USE thiamine

**VITAMIN B-12**

UF cyanocobalamin  
 \*BT1 hematitics  
 \*BT1 vitamin b group  
 RT anemias  
 RT intrinsic factor

**vitamin b-2**

USE riboflavin

**vitamin b-5**

USE pantothenic acid

**vitamin b-6**

USE pyridoxine

**VITAMIN B GROUP**

BT1 vitamins  
 NT1 biotin  
 NT1 carnitine  
 NT1 folic acid  
 NT1 nicotinamide  
 NT1 nicotinic acid  
 NT1 pantothenic acid  
 NT1 pyridoxine  
 NT1 riboflavin  
 NT1 thiamine  
 NT1 vitamin b-12  
 RT adenines  
 RT citrovorum factor  
 RT coenzymes

RT lipotropic factors  
 RT paba  
 RT pyridoxal

**vitamin b-t**

USE carnitine

**vitamin c**

USE ascorbic acid

**VITAMIN D**

BT1 vitamins  
 NT1 cholecalciferol  
 NT1 ergocalciferol  
 RT rickets

**vitamin d-2**

USE ergocalciferol

**vitamin d-3**

USE cholecalciferol

**VITAMIN E**

UF tocopherols  
 BT1 vitamins

**vitamin h**

USE biotin

**vitamin h-1**

USE paba

**VITAMIN K**

\*BT1 quinones  
 BT1 vitamins  
 RT anticoagulants  
 RT blood coagulation factors  
 RT ubiquinone

**vitamin p**

USE bioflavonoids

**vitamin pp**

USE nicotinamide

**VITAMINS**

NT1 ascorbic acid  
 NT1 bioflavonoids  
 NT1 vitamin a  
 NT1 vitamin b group  
 NT2 biotin  
 NT2 carnitine  
 NT2 folic acid  
 NT2 nicotinamide  
 NT2 nicotinic acid  
 NT2 pantothenic acid  
 NT2 pyridoxine  
 NT2 riboflavin  
 NT2 thiamine  
 NT2 vitamin b-12  
 NT1 vitamin d  
 NT2 cholecalciferol  
 NT2 ergocalciferol  
 NT1 vitamin e  
 NT1 vitamin k  
 RT biochemistry  
 RT carotenoids  
 RT diet  
 RT drugs  
 RT food  
 RT food additives  
 RT metabolism

**VITON**

\*BT1 rubbers

**VITRIFICATION**

SF immobilization (wastes)  
 RT ceramic melters  
 RT glass  
 RT harvest process  
 RT metallic glasses  
 RT pamela plant

RT radioactive waste processing  
 RT solidification  
 RT waste processing

**VITRINITE**

INIS: 2000-04-12; ETDE: 1979-09-20  
 BT1 macerals

**VIVITRON TANDEM****ACCELERATOR**

INIS: 1990-12-15; ETDE: 1991-08-20  
 Nuclear Research Center, Strasbourg, France.  
 \*BT1 tandem electrostatic accelerators  
 \*BT1 van de graaff accelerators

**VK-50 REACTOR**

Dimitrovgrad, Russian Federation.  
 UF ulyanovsk reactor vk-50  
 \*BT1 bwr type reactors

**vlasov equation**

USE boltzmann-vlasov equation

**vlasov instability**

ETDE: 2002-05-24  
 USE boltzmann-vlasov equation

**vlasov-maxwell equations**

INIS: 2000-04-12; ETDE: 1995-09-22  
 USE boltzmann-vlasov equation

**vlb systems**

INIS: 1984-04-04; ETDE: 2002-05-24  
 USE interferometers

**vlcc**

INIS: 2000-04-12; ETDE: 1976-08-04  
 USE tanker ships

**VLTAVA RIVER**

2017-05-17  
 \*BT1 rivers  
 RT czech republic

**VMI MODEL**

UF variable moment of inertia model  
 \*BT1 nuclear models  
 RT backbending  
 RT moment of inertia

**vnt alloys**

INIS: 1996-11-13; ETDE: 1978-12-20  
 (Prior to March 1997 STEEL VNT was used for this concept in ETDE.)  
 USE manganese steels

**voc**

INIS: 2000-04-12; ETDE: 1992-09-15  
 USE organic compounds  
 USE volatile matter

**vocabulary (controlled)**

USE standardized terminology

**vocational training**

INIS: 2000-04-12; ETDE: 1980-09-22  
 USE training

**VOGTLE-1 REACTOR**

Southern Nuclear Operating Co., Inc.,  
 Waynesboro, Georgia, USA.  
 \*BT1 pwr type reactors

**VOGTLE-2 REACTOR**

Southern Nuclear Operating Co., Inc.,  
 Waynesboro, Georgia, USA.  
 \*BT1 pwr type reactors

**VOGTLE-3 REACTOR**

Georgia Power Co., Waynesboro, Georgia,  
 USA. Canceled in 1974 before construction  
 began.  
 \*BT1 pwr type reactors

**VOGTLE-4 REACTOR**

Georgia Power Co., Waynesboro, Georgia,  
 USA. Canceled in 1974 before construction  
 began.

\*BT1 pwr type reactors

**VOID COEFFICIENT**

BT1 reactivity coefficients

**VOID FRACTION**

RT liquids  
 RT vapors

**VOIDS**

RT boiling detection  
 RT bubbles  
 RT cavities  
 RT defects

**VOIGT EFFECT**

UF cotton-mouton effect  
 BT1 magneto-optical effects  
 RT plasma  
 RT polarization  
 RT visible radiation

**VOLATILE MATTER**

INIS: 1986-05-26; ETDE: 1976-09-14  
 Materials capable of being readily  
 evaporated.

UF voc  
 BT1 matter  
 RT coal  
 RT devolatilization  
 RT pyrolysis products  
 RT pyrolytic gases  
 RT pyrolytic oils  
 RT volatility

**VOLATILITY**

RT chloride volatility process  
 RT devolatilization  
 RT distillation  
 RT fluoride volatility process  
 RT volatile matter

**volatilization**

USE evaporation

**VOLCANIC GASES**

INIS: 1993-03-23; ETDE: 1978-08-08  
 Volatile matter released during a volcanic  
 eruption that was previously dissolved in the  
 magma.

\*BT1 gases  
 RT fumarolic fluids  
 RT volcanism  
 RT volcanoes

**VOLCANIC REGIONS**

1997-06-17  
 RT hachimantai  
 RT volcanoes

**VOLCANIC ROCKS**

1976-03-17  
 \*BT1 igneous rocks  
 NT1 andesites  
 NT1 basalt  
 NT2 diabases  
 NT1 lamprophyres  
 NT2 kimberlites  
 NT1 nepheline basalts  
 NT1 perlite  
 NT1 rhyolites  
 NT1 trachytes  
 NT1 tuff

**VOLCANISM**

INIS: 1992-04-13; ETDE: 1975-11-11  
 The process by which magma and its  
 associated gases rise into the earth's crust and

are extruded onto the earth's surface and into  
 the atmosphere.

RT eruption  
 RT lava  
 RT magma  
 RT magmatism  
 RT volcanic gases  
 RT volcanoes

**VOLCANOES**

1996-04-29  
 NT1 kilauea volcano  
 RT calderas  
 RT earth crust  
 RT eruption  
 RT fumaroles  
 RT geology  
 RT geothermal energy  
 RT hot spots  
 RT lava  
 RT magma  
 RT mt st helens  
 RT volcanic gases  
 RT volcanic regions  
 RT volcanism

**VOLES**

\*BT1 rodents

**VOLGA RIVER**

\*BT1 rivers  
 RT russian federation

**VOLOXIDATION PROCESS**

Separation process designed to remove  
 volatile fission products from spent LMFB  
 fuels.

BT1 head end processes

**volt-ampere characteristic**

USE electric conductivity

**volt-ampere reactive control systems**

INIS: 2000-04-12; ETDE: 1983-03-23  
 USE var control systems

**voltage**

USE electric potential

**VOLTAGE DROP**

INIS: 1999-07-01; ETDE: 1976-01-07  
 NT1 electrical transients  
 RT electric potential  
 RT resistors

**VOLTAGE REGULATORS**

UF regulators (voltage)  
 RT electric controllers  
 RT surges

**voltaic cells**

USE electric batteries

**VOLTAMETRY**

UF coulometry  
 RT currents  
 RT electrolysis  
 RT electrolytic cells  
 RT potentiostats  
 RT quantitative chemical analysis

**voltterra equations**

USE voltterra integral equations

**VOLTERRA INTEGRAL EQUATIONS**

UF voltterra equations  
 \*BT1 integral equations

**VOLTMETERS**

\*BT1 electric measuring instruments

**VOLUME**

RT dilatancy

RT dimensions  
RT size

**VOLUMETRIC ANALYSIS**

1995-11-22

\*BT1 quantitative chemical analysis  
NT1 titration  
NT2 amperometry  
NT2 iodometry  
NT2 potentiometry  
NT2 thermometric titration

**VOMITING**

BT1 symptoms  
RT digestive system diseases  
RT stomach

**VORONEZH AST-500 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

Voronezh, Russian Federation.

\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**VORTEX AUGMENTED TURBINES**

INIS: 2000-04-12; ETDE: 1977-06-02

Horizontal axis turbines located at trailing ends of aerodynamic wing to utilize vortex air flow from wing tips.

\*BT1 wind turbines  
RT horizontal axis turbines

**VORTEX FLOW**

(Prior to October 1981 this concept was indexed to SWIRL FLOW in ETDE.)

UF swirl flow  
BT1 fluid flow  
RT superfluidity

**VORTEX THEORY**

2014-07-04

NOT for fluid dynamics.

RT abrikosov theory  
RT cosmological models  
RT galactic evolution  
RT high energy physics  
RT quantum field theory  
RT rotons  
RT solid state physics  
RT solitons  
RT string theory

**VORTICES**

RT turbulence

**vortices (magnetic)**

USE magnetic flux

**VOYAGER SPACE PROBES**

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 space vehicles

**vpi and su training reactor**

INIS: 1985-04-22; ETDE: 2002-05-24

USE vpi-utr-10 reactor

**VPI-UTR-10 REACTOR**

1985-04-22

Virginia Polytechnic Inst. and State Univ., Blacksburg, Virginia, USA. Shut down in 1985.

UF virginia polytechnic institute training reactor

UF vpi and su training reactor

\*BT1 argonaut type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**VR-1 REACTOR**

INIS: 1986-08-19; ETDE: 1986-09-05

Faculty of Nuclear Science and Technical Engineering, Czech Technical Univ., Prague, Czech Republic.

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**VRAIN REACTOR**

Public Service Co. of Colorado, Platteville, Colorado, USA. Shut down in 1989; decommissioned in 1996.

UF fort st. vrain reactor  
\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors

**VUILLEUMIER CYCLE**

INIS: 2000-04-12; ETDE: 1978-01-23

BT1 thermodynamic cycles  
RT solar air conditioners

**VUJE**

2002-12-17

UF nuclear power plant research institute

UF vyskumny ustav jadrovych elektrarni

\*BT1 slovak organizations

**vulcain experiment nuclear study**

2000-04-12

USE venus reactor

**VULCAN FACILITY**

INIS: 1999-07-26; ETDE: 1999-09-03

Neodymium laser facility at Rutherford Appleton Laboratories, UK.

RT laser fusion reactors  
RT neodymium lasers

**VULCANIZATION**

RT curing  
RT rubbers  
RT vulcanized elastomers

**VULCANIZED ELASTOMERS**

1999-06-30

NT1 ebonite  
RT elastomers  
RT vulcanization

**VULNERABILITY**

INIS: 1992-04-06; ETDE: 1978-07-05

(From May 1987 till March 1997

TERRORISM was a valid ETDE descriptor.)

SF terrorism  
RT cyber attacks  
RT sabotage  
RT safeguards  
RT theft  
RT warfare

**vulpes**

INIS: 1993-02-18; ETDE: 1985-03-12

USE foxes

**VYCOR**

RT glass

**vyskumny ustav jadrovych elektrarni**

2002-12-17

USE vuje

**w. b. mc guire-1 reactor**

USE mc guire-1 reactor

**w. b. mc guire-2 reactor**

USE mc guire-2 reactor

**w boson**

ETDE: 2002-05-24

USE intermediate bosons

**W CODES**

BT1 computer codes

**W-L SULFUR DIOXIDE RECOVERY PROCESS**

2000-04-12

Process for desulfurization of waste gas stream developed by Wellman-Power Gas, Inc.

UF wellman-lord process  
\*BT1 desulfurization  
RT waste processing

**W MINUS BOSONS**

INIS: 1986-03-04; ETDE: 1985-10-11

(Prior to October 1985 this concept was indexed to INTERMEDIATE VECTOR BOSONS in ETDE.)

\*BT1 intermediate vector bosons  
RT winos

**W PLUS BOSONS**

INIS: 1986-03-04; ETDE: 1985-10-11

(Prior to October 1985 this concept was indexed to INTERMEDIATE VECTOR BOSONS in ETDE.)

\*BT1 intermediate vector bosons  
RT winos

**w stellarators**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE wendelstein-2b stellarator  
SEE wendelstein-7 stellarator

**WABASCA DEPOSIT**

1992-06-04

\*BT1 oil sand deposits  
RT alberta  
RT canada  
RT oil sands

**WACKERSDORF REPROCESSING PLANT**

INIS: 1995-09-18; ETDE: 1988-05-23

Wiederaufarbeitungsanlage Wackersdorf, Federal Republic of Germany.

UF waw  
UF wiederaufarbeitungsanlage wackersdorf

\*BT1 fuel reprocessing plants  
RT reprocessing  
RT spent fuel elements  
RT spent fuels

**WADDEN SEA**

1999-01-12

\*BT1 north sea  
RT netherlands

**wageningen barn reactor**

USE barn reactor

**WAGES**

INIS: 1992-10-05; ETDE: 1980-08-12

UF salary  
RT personnel  
RT work

**wagon wheel event**

1994-10-14

A test made under PROJECT PLOWSHARE. (Prior to September 1994, this was a valid ETDE descriptor.)

USE contained explosions  
USE nuclear explosions

**WAGR REACTOR**

*Permanently shutdown since 1990.*

UF agr reactor (windscale)

UF windscale advanced gas-cooled reactor

\*BT1 agr type reactors

\*BT1 carbon dioxide cooled reactors

\*BT1 power reactors

\*BT1 thermal reactors

**WAIOTAPU GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields

RT new zealand

**WAIRAKEI GEOTHERMAL FIELD**

1993-02-08

BT1 geothermal fields

RT geothermal hot-water systems

RT new zealand

**WAIRAKITE**

2000-04-12

*The calcium analog of analcime.*

\*BT1 zeolites

**WAK**

*Wiederaufarbeitungsanlage Karlsruhe.*

UF karlsruhe reprocessing plant

UF wiederaufarbeitungsanlage karlsruhe

\*BT1 fuel reprocessing plants

\*BT1 german fr organizations

RT reprocessing

RT spent fuel elements

RT spent fuels

**WAKEFIELD ACCELERATORS**

INIS: 1987-04-28; ETDE: 1986-07-25

*Accelerators in which particles gain energy from electromagnetic waves (the "wake") generated by a relativistic beam.*

\*BT1 linear accelerators

RT acceleration

RT plasma waves

**WALECKA MODEL**

INIS: 1984-10-23; ETDE: 1984-11-08

*A mean-field theory of nuclear matter with scalar and vector fields as carriers of nuclear forces.*

\*BT1 nuclear models

RT nuclear matter

**walker carcinoma**

USE experimental neoplasms

**wall effect**

INIS: 1982-12-01; ETDE: 2002-05-24

*(Prior to January 1983 this was a valid descriptor for the contribution to ionization in an ionization chamber by electrons liberated from the chamber walls.)*

USE wall effects

**WALL EFFECTS**

1995-07-03

UF plasma-wall interactions

UF wall effect

RT end effects

RT ionization

RT ionization chambers

RT microdosimetry

RT particle influx

RT plasma

RT plasma impurities

RT proportional counters

RT wall-less counters

**WALL-LESS COUNTERS**

\*BT1 radiation detectors

RT ionization chambers

RT proportional counters

RT wall effects

**WALL LOADING**

INIS: 1975-08-20; ETDE: 1975-10-01

*Surface power density at thermonuclear reactor walls.*

BT1 power density

RT first wall

**WALLS**

INIS: 1992-05-26; ETDE: 1975-11-11

UF building envelope

NT1 bead walls

NT1 drum walls

NT1 trombe walls

NT1 water walls

RT buildings

RT panels

**walls (cell)**

INIS: 1992-05-26; ETDE: 2002-05-24

USE cell wall

**walls (thermonuclear reactor)**

INIS: 1992-05-26; ETDE: 2002-05-24

USE thermonuclear reactor walls

**walter reed research reactor 1-54**

1993-11-10

USE wrtr reactor

**WALTHER PROCESS**

INIS: 2000-04-12; ETDE: 1982-08-11

*Desulfurization process in which ammonia is used to produce pelletized ammonium sulfate as a dry end product for direct use as a fertilizer.*

\*BT1 desulfurization

**WANKEL ENGINES**

2000-04-12

\*BT1 rotary engines

\*BT1 spark ignition engines

**WANO**

INIS: 1990-05-17; ETDE: 1990-06-01

*World Association of Nuclear Operators.*

UF world association of nuclear operators

BT1 international organizations

RT nuclear operators

**wapa**

INIS: 2000-04-12; ETDE: 1980-03-29

USE western area power administration

**WARD IDENTITY**

RT gauge invariance

RT quantum electrodynamics

**WARFARE**

1997-06-17

NT1 biological warfare

NT1 chemical warfare

NT1 conventional warfare

NT1 radiological warfare

RT military strategy

RT national defense

RT vulnerability

**WARM DENSE MATTER**

2018-11-15

*Warm dense matter can refer to either equilibrium or non-equilibrium states of matter in a regime of temperature and density between condensed matter and hot plasma.*

\*BT1 astrophysics

BT1 matter

BT1 plasma

BT1 supercritical state

**WARM SPRINGS**

INIS: 2000-01-26; ETDE: 1980-06-06

*Springs whose temperature is appreciably above the local mean annual temperature but below that of the human body.*

SF geothermal springs

\*BT1 thermal springs

RT hydrothermal systems

**warning systems**

INIS: 1984-04-04; ETDE: 2002-05-24

USE alarm systems

**WARRANTIES**

INIS: 2000-04-19; ETDE: 1979-07-24

RT consumer protection

RT equipment

RT legal aspects

**WARSAW CYCLOTRON**

INIS: 1982-07-22; ETDE: 1982-08-11

\*BT1 heavy ion accelerators

\*BT1 isochronous cyclotrons

**WASATCH FORMATION**

1984-04-04

BT1 geologic formations

RT colorado

RT natural gas

RT natural gas deposits

RT oil shales

RT uranium deposits

RT wyoming

**WASHAKIE BASIN**

2000-04-12

\*BT1 wyoming

RT green river formation

RT oil shale deposits

**washers, clothes**

INIS: 2000-04-12; ETDE: 1977-06-21

USE clothes washers

**washers (fuel)**

USE fuel washers

**WASHING**

1992-03-11

UF laundries

BT1 cleaning

RT clothes washers

RT coal preparation

RT dishwashers

RT heavy media separation

RT safety showers

RT scrubbing

**WASHINGTON**

1999-03-03

\*BT1 usa

NT1 richland

RT cascade mountains

RT columbia river

RT columbia river basin

RT hanford engineering development

laboratory

RT hanford reservation

RT lewis river

RT mt baker

RT mt st helens

RT pasco basin

RT puget sound

RT sequim bay

RT skagit river

RT us west coast

**WASHINGTON DC**

UF district of columbia

\*BT1 usa

RT potomac river basin

**washington public power supply system-1 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28  
USE wnp-1 reactor

**washington public power supply system-2 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28  
USE wnp-2 reactor

**washington public power supply system-3 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28  
USE wnp-3 reactor

**washington public power supply system-4 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28  
USE wnp-4 reactor

**washington public power supply system-5 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28  
USE wnp-5 reactor

**washington state university reactor**

1993-11-10  
USE wsur reactor

**washington university (seattle) reactor**

INIS: 1993-11-10; ETDE: 2002-05-24  
USE uwtr reactor

**WASHOUT**

- UF rainout
- UF scavenging (atmospheric)
- UF wet deposition
- BT1 fallout
- RT air pollution
- RT atmospheric precipitations
- RT decontamination
- RT droplets
- RT precipitation scavenging
- RT radioactive clouds
- RT rain
- RT sprays
- RT water

**WASPALOY**

1993-10-03  
\*BT1 alloy-ni58cr20co14mo4ti3

**WASPS**

1996-11-13  
(Prior to March 1997 HABROBRACON was a valid ETDE descriptor.)  
UF habrobracon  
\*BT1 hymenoptera

**waste burial**

- SEE ground disposal
- SEE underground disposal

**waste chemicals**

INIS: 1986-07-09; ETDE: 1982-03-29  
USE chemical wastes

**WASTE DISPOSAL**

For final disposal of wastes, with no intention of retrieval.  
UF discharges (wastes)  
UF disposal (wastes)  
UF sewage disposal  
UF ultimate storage  
\*BT1 waste management  
NT1 ground disposal  
NT1 ground release  
NT1 marine disposal  
NT1 nonradioactive waste disposal

- NT1 radioactive waste disposal
- NT1 sanitary landfills
- NT1 stack disposal
- NT1 underground disposal
- RT aerosol wastes
- RT gaseous wastes
- RT global aspects
- RT hydraulic fracturing
- RT liquid wastes
- RT reinjection
- RT salt vault project
- RT solid wastes
- RT spent liquors
- RT us superfund
- RT waste disposal acts
- RT waste processing
- RT waste storage
- RT wastes

**WASTE DISPOSAL ACTS**

INIS: 1992-05-18; ETDE: 1978-04-27  
For legislation of any country relating to the handling of nonradioactive wastes. For radioactive wastes, use NUCLEAR WASTE POLICY ACTS.  
BT1 laws  
NT1 nuclear waste policy acts  
RT liquid wastes  
RT nonradioactive waste disposal  
RT resource recovery acts  
RT solid wastes  
RT us superfund  
RT waste disposal

**WASTE FORMS**

INIS: 1985-11-18; ETDE: 1984-02-10  
Physical and chemical forms of wastes (e.g. liquid, in concrete, in glass) without packaging.  
UF wasteforms  
\*BT1 radioactive wastes  
RT gaseous wastes  
RT liquid wastes  
RT radioactive waste disposal  
RT radioactive waste processing  
RT solid wastes  
RT waste management

**waste-fueled boilers**

INIS: 1992-05-18; ETDE: 1979-05-09  
USE refuse-fueled boilers

**waste-fueled power plants**

INIS: 2000-04-12; ETDE: 1979-03-27  
USE refuse-fueled power plants

**WASTE HEAT**

- \*BT1 heat
- BT1 wastes
- RT cogeneration
- RT district heating
- RT energy sources
- RT heat islands
- RT heat sinks
- RT plumes
- RT thermal effluents
- RT thermal pollution
- RT waste heat utilization

**WASTE HEAT BOILERS**

INIS: 1992-04-09; ETDE: 1978-12-20  
BT1 boilers  
RT cogeneration  
RT heat recovery equipment  
RT waste heat utilization

**WASTE HEAT UTILIZATION**

INIS: 1986-05-26; ETDE: 1977-06-21  
(From January 1979 till February 1997 ENERGY CASCADE was a valid ETDE descriptor.)  
UF energy cascade  
UF energy cascading  
BT1 waste product utilization  
RT aquaculture  
RT cogeneration  
RT heat recovery  
RT waste heat  
RT waste heat boilers

**WASTE INCINERATORS**

2004-02-11  
BT1 incinerators  
\*BT1 waste processing plants

**waste isolation pilot plant**

INIS: 1985-04-22; ETDE: 1984-10-10  
USE wipp

**WASTE MANAGEMENT**

- UF handling (wastes)
- BT1 management
- NT1 nonradioactive waste management
- NT2 nonradioactive waste disposal
- NT1 radioactive waste management
- NT2 radioactive waste disposal
- NT2 radioactive waste processing
- NT3 harvest process
- NT2 radioactive waste storage
- NT3 monitored retrievable storage
- NT1 waste disposal
- NT2 ground disposal
- NT2 ground release
- NT2 marine disposal
- NT2 nonradioactive waste disposal
- NT2 radioactive waste disposal
- NT2 sanitary landfills
- NT2 stack disposal
- NT2 underground disposal
- NT1 waste processing
- NT2 activated sludge process
- NT2 composting
- NT2 fluidized bed refuse gasification
- NT2 landgard pyrolysis system
- NT2 lime-soda sinter process
- NT2 materials recovery
- NT2 molten salt waste gasification process
- NT2 accidental flash pyrolysis process
- NT2 purox pyrolysis process
- NT2 radioactive waste processing
- NT3 harvest process
- NT2 slagging pyrolysis process
- NT2 steam stripping
- NT2 syngas process
- NT2 unisulf process
- NT2 wet oxidation processes
- NT1 waste retrieval
- NT1 waste storage
- NT2 radioactive waste storage
- NT3 monitored retrievable storage
- NT1 waste transportation
- RT hazardous materials
- RT waste forms
- RT waste oils
- RT waste product utilization

**WASTE OIL REFINERIES**

INIS: 1992-08-12; ETDE: 1981-07-18  
\*BT1 waste processing plants  
RT lubricating oils  
RT petroleum refineries  
RT recycling  
RT waste oils  
RT waste product utilization

**WASTE OILS**

INIS: 1992-03-17; ETDE: 1976-10-13

- \*BT1 oils
- RT lubricating oils
- RT recycling
- RT waste management
- RT waste oil refineries

**WASTE PELLETS**

INIS: 1981-03-10; ETDE: 1981-04-17

- BT1 pellets
- \*BT1 solid wastes
- RT pelletizing
- RT radioactive wastes

**WASTE PROCESSING**

1996-04-18

- UF *bailie process*
- UF *bamag process*
- UF *black clawson system*
- UF *caloricon process*
- UF *citrex process*
- UF *cyam process*
- UF *flame chamber process*
- UF *hichlor process*
- UF *processing (wastes)*
- UF *pyrotek process*
- UF *sewage treatment*
- UF *waste treatment*
- SF *destrugas process*
- BT1 processing
- \*BT1 waste management
- NT1 activated sludge process
- NT1 composting
- NT1 fluidized bed refuse gasification
- NT1 landgard pyrolysis system
- NT1 lime-soda sinter process
- NT1 materials recovery
- NT1 molten salt waste gasification process
- NT1 occidental flash pyrolysis process
- NT1 purox pyrolysis process
- NT1 radioactive waste processing
  - NT2 harvest process
- NT1 slagging pyrolysis process
- NT1 steam stripping
- NT1 syngas process
- NT1 unisulf process
- NT1 wet oxidation processes
- RT aerobic digestion
- RT alkalinized alumina process
- RT ammonia-ammonium bisulfate process
- RT anaerobic digestion
- RT bergbauforschung process
- RT bischoff process
- RT bitumens
- RT calcination
- RT cea-adi dual alkali process
- RT chiyoda thoroughbred process
- RT evaporation
- RT flotation
- RT fmc double alkali process
- RT freezing out
- RT lime-limestone wet scrubbing processes
- RT liquid wastes
- RT magnesium slurry scrubbing process
- RT perox process
- RT precipitation
- RT process control
- RT recycling
- RT regeneration
- RT resox process
- RT saarberg-holter process
- RT scrap
- RT scrubbers
- RT settling ponds
- RT shell-uop copper oxide process
- RT solidification

- RT soxal process
- RT thiosorbic process
- RT vacuum carbonate process
- RT vitrification
- RT w-l sulfur dioxide recovery process
- RT waste disposal
- RT waste processing plants
- RT wet ashing

**WASTE PROCESSING PLANTS**

INIS: 1992-05-28; ETDE: 1975-10-01

- UF *cpu-400 combustion plant*
- BT1 industrial plants
- NT1 resource recovery facilities
- NT1 waste incinerators
- NT1 waste oil refineries
- RT biogas process
- RT landgard pyrolysis system
- RT occidental flash pyrolysis process
- RT purox pyrolysis process
- RT waste processing

**WASTE PRODUCT UTILIZATION**

INIS: 1981-12-23; ETDE: 1977-08-09

Use of waste products as raw material, either directly or after processing, e.g. sewage sludge for fertilizer, or radioactive waste as a source of radiation.

- NT1 waste heat utilization
- RT cogeneration
- RT energy recovery
- RT spent liquors
- RT stillage
- RT waste management
- RT waste oil refineries

**WASTE RETRIEVAL**

INIS: 1981-08-18; ETDE: 1981-09-22

(From August 1979 till March 1997 WASTE RETRIEVAL was a valid ETDE descriptor.)

- SF *retrieval systems*
- \*BT1 waste management
- RT materials handling
- RT radioactive waste facilities
- RT radioactive wastes

**WASTE-ROCK INTERACTIONS**

INIS: 1981-10-15; ETDE: 1981-03-17

- RT backfilling
- RT chemical reactions
- RT radioactive waste disposal
- RT rock-fluid interactions
- RT rocks

**waste solutions**

- USE liquid wastes

**WASTE STORAGE**

For temporary storage of wastes.

- UF *interim storage*
- UF *intermediate storage*
- UF *storage (wastes)*
- BT1 storage
- \*BT1 waste management
- NT1 radioactive waste storage
  - NT2 monitored retrievable storage
- RT underground storage
- RT waste disposal

**WASTE TRANSPORTATION**

- \*BT1 waste management
- RT away-from-reactor storage
- RT routing
- RT transport

**waste treatment**

- USE waste processing

**WASTE WATER**

1982-12-03

- UF *oil shale waste water*
- \*BT1 liquid wastes

- \*BT1 water
- NT1 shale tar water
- RT acid mine drainage
- RT bioreactors
- RT drainage
- RT reinjection
- RT steam stripping
- RT water pollution
- RT water treatment

**wasteforms**

INIS: 2000-04-12; ETDE: 1984-11-08

- USE waste forms

**WASTES**

- NT1 aerosol wastes
- NT2 fly ash
- NT1 biological wastes
  - NT2 feces
  - NT2 manures
  - NT2 sewage sludge
  - NT2 sweat
  - NT2 urine
- NT1 electronic wastes
- NT1 gaseous wastes
  - NT2 exhaust gases
  - NT2 flue gas
- NT1 industrial wastes
  - NT2 spent liquors
- NT1 liquid wastes
  - NT2 spent liquors
  - NT2 waste water
    - NT3 shale tar water
- NT1 municipal wastes
- NT1 nonradioactive wastes
  - NT2 chemical wastes
    - NT3 chemical effluents
- NT1 organic wastes
  - NT2 agricultural wastes
    - NT3 bagasse
    - NT3 manures
  - NT2 compost
  - NT2 stillage
  - NT2 wood wastes
- NT1 radioactive wastes
  - NT2 alpha-bearing wastes
  - NT2 calcined wastes
  - NT2 high-level radioactive wastes
  - NT2 intermediate-level radioactive wastes
    - NT2 low-level radioactive wastes
  - NT2 radioactive effluents
  - NT2 waste forms
- NT1 sewage
  - NT2 sewage sludge
- NT1 solid wastes
  - NT2 mineral wastes
    - NT3 culm
  - NT2 scrap
    - NT3 scrap metals
  - NT2 spoil banks
  - NT2 tailings
    - NT3 mill tailings
    - NT3 oil sand tailings
  - NT2 waste pellets
  - NT2 wood wastes
- NT1 waste heat
- RT by-products
- RT hazardous materials
- RT pollution
- RT pyrolysis products
- RT recycling
- RT residues
- RT sludges
- RT storage facilities
- RT us superfund
- RT waste disposal



**WATER**

1996-06-19

- UF hydrogen hydroxides
- UF oxygen hydrides
- UF water coolant
- UF water moderator
- BT1 hydrogen compounds
- BT1 oxygen compounds
- NT1 drinking water
- NT1 feedwater
- NT1 fresh water
- NT1 ground water
  - NT2 interstitial water
  - NT2 magmatic water
- NT1 heavy water
- NT1 hot water
- NT1 rain water
  - NT2 throughfall
- NT1 seawater
- NT1 tritium oxides
- NT1 waste water
  - NT2 shale tar water
- RT anhydrides
- RT aqueous solutions
- RT balneology
- RT clouds
- RT coolants
- RT cooling
- RT demineralizers
- RT electromagnetic filters
- RT environmental materials
- RT glaciers
- RT hydrates
- RT hydrogels
- RT hydronium radicals
- RT hydrophylic polymers
- RT hydrosphere
- RT ice
- RT interception
- RT liming
- RT liquid wastes
- RT moderators
- RT moisture
- RT recombiners
- RT slush
- RT steam
- RT surface waters
- RT total flow systems
- RT washout
- RT water chemistry
- RT water influx
- RT water requirements
- RT water resources
- RT water rights

**WATER BRAKES**

INIS: 2000-04-12; ETDE: 1979-04-11

*Devices for conversion of mechanical energy into heat energy by use of rotating or reciprocating blades in contained water system and prevention of gust overspeed in fixed-pitch wind turbines.*

- \*BT1 brakes
- RT energy conversion
- RT wind turbines

**WATER CHEMISTRY**

1975-09-26

- UF chemistry (water)
- UF cooling water chemical treatment
- BT1 chemistry
- NT1 acid neutralizing capacity
- RT chemical analysis
- RT chemical composition
- RT coolants
- RT corrosion denting
- RT demineralization
- RT dissolved gases
- RT feedwater

- RT reactor cooling systems
- RT water
- RT water cooled reactors

**water content**

- SEE humidity
- SEE moisture

**water coolant**

- USE water

**water cooled graphite moderated reactors**

1993-11-10

- USE lwgr type reactors

**WATER COOLED REACTORS**

- UF br-3-vn reactor
- UF light water cooled reactors
- UF lwr type reactors
- BT1 reactors
- NT1 aarr reactor
- NT1 acpr reactor
- NT1 anna reactor
- NT1 aqueous homogeneous reactors
  - NT2 ai-1-77 reactor
  - NT2 argus reactor
  - NT2 ber-2 reactor
  - NT2 byu 1-77 reactor
  - NT2 cesnef reactor
  - NT2 dr-1 reactor
  - NT2 frf reactor
  - NT2 gidra reactor
  - NT2 hre-2 reactor
  - NT2 jrr-1 reactor
  - NT2 kewb reactor
  - NT2 kstr reactor
  - NT2 nscsr-1 reactor
  - NT2 nevada university reactor
  - NT2 prnc-1-77 reactor
  - NT2 supo reactor
  - NT2 wrrr reactor
- NT1 argonaut type reactors
  - NT2 aeg-pr-10 reactor
  - NT2 arbi reactor
  - NT2 argonaut reactor
  - NT2 argos reactor
  - NT2 athene reactor
  - NT2 jason reactor
  - NT2 lfr reactor
  - NT2 moata reactor
  - NT2 nestor reactor
  - NT2 queen mary college utr-b reactor
  - NT2 ra-1 reactor
  - NT2 rb-2 reactor
  - NT2 rien-1 reactor
  - NT2 srcc-utr-100 reactor
  - NT2 stark reactor
  - NT2 strasbourg-cronenbourg reactor
  - NT2 ufr reactor
  - NT2 ulyse reactor
  - NT2 urr reactor
  - NT2 utr-10-kinki reactor
  - NT2 vpi-utr-10 reactor
- NT1 astr reactor
- NT1 atr reactor
- NT1 atrs reactor
- NT1 borax-1 reactor
- NT1 borax-2 reactor
- NT1 borax-3 reactor
- NT1 borax-4 reactor
- NT1 borax-5 reactor
- NT1 br-02 reactor
- NT1 br-2 reactor
- NT1 bwr type reactors
  - NT2 allens creek-1 reactor
  - NT2 allens creek-2 reactor
  - NT2 bailly-1 reactor
  - NT2 barsebaeck-1 reactor
  - NT2 barsebaeck-2 reactor

- NT2 barton-1 reactor
- NT2 barton-2 reactor
- NT2 barton-3 reactor
- NT2 barton-4 reactor
- NT2 bell reactor
- NT2 big rock point reactor
- NT2 black fox-1 reactor
- NT2 black fox-2 reactor
- NT2 bolsa chica-1 reactor
- NT2 bolsa chica-2 reactor
- NT2 bonus reactor
- NT2 browns ferry-1 reactor
- NT2 browns ferry-2 reactor
- NT2 browns ferry-3 reactor
- NT2 brunsbuettel reactor
- NT2 brunswick-1 reactor
- NT2 brunswick-2 reactor
- NT2 chinshan-1 reactor
- NT2 chinshan-2 reactor
- NT2 clinton-1 reactor
- NT2 clinton-2 reactor
- NT2 cofrentes reactor
- NT2 cooper reactor
- NT2 dodewaard reactor
- NT2 douglas point-1 reactor
- NT2 douglas point-2 reactor
- NT2 dresden-1 reactor
- NT2 dresden-2 reactor
- NT2 dresden-3 reactor
- NT2 duane arnold-1 reactor
- NT2 ebwr reactor
- NT2 enel-4 reactor
- NT2 enrico fermi-2 reactor
- NT2 err reactor
- NT2 fitzpatrick reactor
- NT2 forsmark-1 reactor
- NT2 forsmark-2 reactor
- NT2 forsmark-3 reactor
- NT2 fukushima-1 reactor
- NT2 fukushima-2 reactor
- NT2 fukushima-3 reactor
- NT2 fukushima-4 reactor
- NT2 fukushima-5 reactor
- NT2 fukushima-6 reactor
- NT2 fukushima-ii-1 reactor
- NT2 fukushima-ii-2 reactor
- NT2 fukushima-ii-3 reactor
- NT2 fukushima-ii-4 reactor
- NT2 garigliano reactor
- NT2 garona reactor
- NT2 ge standard reactor
- NT2 graben-1 reactor
- NT2 graben-2 reactor
- NT2 grand gulf-1 reactor
- NT2 grand gulf-2 reactor
- NT2 gundremmingen-2 reactor
- NT2 gundremmingen-3 reactor
- NT2 hamaoka-1 reactor
- NT2 hamaoka-2 reactor
- NT2 hamaoka-3 reactor
- NT2 hamaoka-4 reactor
- NT2 hamaoka-5 reactor
- NT2 hartsville-1 reactor
- NT2 hartsville-2 reactor
- NT2 hartsville-3 reactor
- NT2 hartsville-4 reactor
- NT2 hatch-1 reactor
- NT2 hatch-2 reactor
- NT2 hdr reactor
- NT2 higashidori-1 reactor
- NT2 hope creek-1 reactor
- NT2 hope creek-2 reactor
- NT2 humboldt bay reactor
- NT2 isar reactor
- NT2 jpdr-2 reactor
- NT2 jpdr reactor
- NT2 kaiseraugst reactor
- NT2 kashiwazaki-kariwa-1 reactor
- NT2 kashiwazaki-kariwa-2 reactor

NT2	kashiwazaki-kariwa-3 reactor	NT2	zimmer-2 reactor	NT1	pool type reactors
NT2	kashiwazaki-kariwa-4 reactor	NT1	cirus reactor	NT2	agata reactor
NT2	kashiwazaki-kariwa-5 reactor	NT1	entic lwsr reactor	NT2	apsara reactor
NT2	kashiwazaki-kariwa-6 reactor	NT1	esada-vesr reactor	NT2	armf-1 reactor
NT2	kashiwazaki-kariwa-7 reactor	NT1	etr reactor	NT2	astra reactor
NT2	krummel reactor	NT1	evsr reactor	NT2	atrc reactor
NT2	kuosheng-1 reactor	NT1	ewa reactor	NT2	avogadro rs-1 reactor
NT2	kuosheng-2 reactor	NT1	ewg-1 reactor	NT2	barn reactor
NT2	la salle county-1 reactor	NT1	getr reactor	NT2	bawtr reactor
NT2	la salle county-2 reactor	NT1	hclwr type reactors	NT2	ber-2 reactor
NT2	lacbwr reactor	NT1	hfetr reactor	NT2	brr reactor
NT2	laguna verde-1 reactor	NT1	hfir reactor	NT2	bsr-1 reactor
NT2	laguna verde-2 reactor	NT1	hfr reactor	NT2	bsr-2 reactor
NT2	leibstadt reactor	NT1	hwlwr type reactors	NT2	cabri reactor
NT2	limerick-1 reactor	NT2	cirene reactor	NT2	carr reactor
NT2	limerick-2 reactor	NT2	gentilly-1 reactor	NT2	cmrr reactor
NT2	lingen reactor	NT2	jatr reactor	NT2	consort-2 reactor
NT2	lungmen-1 reactor	NT1	igr reactor	NT2	cp-6 reactor
NT2	lungmen-2 reactor	NT1	iowa utr-10 reactor	NT2	crocus reactor
NT2	mendocino-1 reactor	NT1	janus reactor	NT2	democritus reactor
NT2	mendocino-2 reactor	NT1	jmtr reactor	NT2	dr-2 reactor
NT2	millstone-1 reactor	NT1	kamini reactor	NT2	etrc reactor
NT2	montague-1 reactor	NT1	kuhfr reactor	NT2	etrr-2 reactor
NT2	montague-2 reactor	NT1	litr reactor	NT2	fimrb reactor
NT2	montalto di castro-1 reactor	NT1	lwbr type reactors	NT2	fnr reactor
NT2	montalto di castro-2 reactor	NT1	lwgr type reactors	NT2	fig-1 reactor
NT2	monticello reactor	NT2	aps reactor	NT2	fig-2 reactor
NT2	muehleberg reactor	NT2	beloyarsk-1 reactor	NT2	frj-1 reactor
NT2	nine mile point-1 reactor	NT2	beloyarsk-2 reactor	NT2	frm-ii reactor
NT2	nine mile point-2 reactor	NT2	bilibin reactor	NT2	frm reactor
NT2	okg-1 reactor	NT2	chernobylsk-1 reactor	NT2	ga siwabessy reactor
NT2	okg-2 reactor	NT2	chernobylsk-2 reactor	NT2	gtr reactor
NT2	okg-3 reactor	NT2	chernobylsk-3 reactor	NT2	gulf triga-mk-3 reactor
NT2	olkiluoto-1 reactor	NT2	chernobylsk-4 reactor	NT2	hanaro reactor
NT2	olkiluoto-2 reactor	NT2	ignalina-1 reactor	NT2	herald reactor
NT2	onagawa-1 reactor	NT2	ignalina-2 reactor	NT2	hor reactor
NT2	onagawa-2 reactor	NT2	kursk-1 reactor	NT2	horace reactor
NT2	onagawa-3 reactor	NT2	kursk-2 reactor	NT2	htr reactor
NT2	oyster creek-1 reactor	NT2	kursk-3 reactor	NT2	ian-r1 reactor
NT2	pathfinder reactor	NT2	kursk-4 reactor	NT2	iear-1 reactor
NT2	peach bottom-2 reactor	NT2	leningrad-1 reactor	NT2	ihni-1 reactor
NT2	peach bottom-3 reactor	NT2	leningrad-2 reactor	NT2	ir-100 reactor
NT2	perry-1 reactor	NT2	leningrad-3 reactor	NT2	irl reactor
NT2	perry-2 reactor	NT2	leningrad-4 reactor	NT2	irr-1 reactor
NT2	philippsburg-1 reactor	NT2	n-reactor	NT2	irt-2000 djakarta reactor
NT2	phipps bend-1 reactor	NT2	rpt reactor	NT2	irt-2000 moscow reactor
NT2	phipps bend-2 reactor	NT2	smolensk-1 reactor	NT2	irt-c reactor
NT2	pilgrim-1 reactor	NT2	smolensk-2 reactor	NT2	irt-dprk reactor
NT2	quad cities-1 reactor	NT2	smolensk-3 reactor	NT2	irt-f reactor
NT2	quad cities-2 reactor	NT2	uwtr reactor	NT2	irt reactor
NT2	ringhals-1 reactor	NT1	maple reactor	NT2	irt-sofia reactor
NT2	river bend-1 reactor	NT1	maple type reactors	NT2	isis reactor
NT2	river bend-2 reactor	NT1	mir reactor	NT2	ivv-2m reactor
NT2	rwe-bayernwerk reactor	NT1	mnsr type reactors	NT2	ivv-7 reactor
NT2	shika-1 reactor	NT2	entic mnsr reactor	NT2	jen-1 reactor
NT2	shika-2 reactor	NT2	gharr-1 reactor	NT2	jen-2 reactor
NT2	shimane-1 reactor	NT2	mnsr-ciae reactor	NT2	jen reactor
NT2	shimane-2 reactor	NT2	mnsr-sd reactor	NT2	jrr-3m reactor
NT2	shimane-3 reactor	NT2	mnsr-sh reactor	NT2	jrr-4 reactor
NT2	shoreham reactor	NT2	mnsr-sz reactor	NT2	jules horowitz reactor
NT2	skagit-1 reactor	NT2	nirr-1 reactor	NT2	kur reactor
NT2	skagit-2 reactor	NT2	parr-2 reactor	NT2	la reina rech-1 reactor
NT2	sl-1 reactor	NT2	srr-1 reactor	NT2	lido reactor
NT2	susquehanna-1 reactor	NT1	mrr reactor	NT2	lo aguirre rech-2 reactor
NT2	susquehanna-2 reactor	NT1	mtr reactor	NT2	lpr reactor
NT2	tarapur-1 reactor	NT1	murr reactor	NT2	lprr reactor
NT2	tarapur-2 reactor	NT1	netr reactor	NT2	lr-0 reactor
NT2	tokai-2 reactor	NT1	nhf-5 reactor	NT2	ltir reactor
NT2	tsuruga reactor	NT1	nsrr reactor	NT2	maria reactor
NT2	tullnerfeld reactor	NT1	ntr reactor	NT2	maryla reactor
NT2	vak reactor	NT1	orphee reactor	NT2	melusine-1 reactor
NT2	vbwr reactor	NT1	orr reactor	NT2	merlin reactor
NT2	vermont yankee reactor	NT1	osiris reactor	NT2	minerve reactor
NT2	verplanck-1 reactor	NT1	owr reactor	NT2	mnr reactor
NT2	verplanck-2 reactor	NT1	pbr reactor	NT2	nscr reactor
NT2	vk-50 reactor	NT1	pegase reactor	NT2	nur reactor
NT2	wnp-2 reactor	NT1	peggy reactor	NT2	opal reactor
NT2	wuergassen reactor	NT1	perryman-1 reactor	NT2	osur reactor
NT2	zimmer-1 reactor	NT1	perryman-2 reactor		

NT2	parr-1 reactor	NT2	bellefonte-2 reactor	NT2	diablo canyon-2 reactor
NT2	phebus reactor	NT2	belleville-1 reactor	NT2	doel-1 reactor
NT2	pik physical model reactor	NT2	belleville-2 reactor	NT2	doel-2 reactor
NT2	prpr reactor	NT2	beznau-1 reactor	NT2	doel-3 reactor
NT2	prr-1 reactor	NT2	beznau-2 reactor	NT2	doel-4 reactor
NT2	psbr reactor	NT2	biblis-1 reactor	NT2	efdr-50 reactor
NT2	ptr reactor	NT2	biblis-2 reactor	NT2	emsland reactor
NT2	pulstar-buffalo reactor	NT2	biblis-3 reactor	NT2	erie-1 reactor
NT2	pulstar-raleigh reactor	NT2	biblis-4 reactor	NT2	erie-2 reactor
NT2	pur-1 reactor	NT2	blayais-1 reactor	NT2	fangchenggang-1 reactor
NT2	r2-0 reactor	NT2	blayais-2 reactor	NT2	fangchenggang-2 reactor
NT2	ra-10 reactor	NT2	blayais-3 reactor	NT2	fangjiashan-1 reactor
NT2	ra-6 reactor	NT2	blayais-4 reactor	NT2	fangjiashan-2 reactor
NT2	ra-8 reactor	NT2	blue hills-1 reactor	NT2	farley-1 reactor
NT2	rana reactor	NT2	blue hills-2 reactor	NT2	farley-2 reactor
NT2	rinsc reactor	NT2	borssele reactor	NT2	fessenheim-1 reactor
NT2	ritmo reactor	NT2	br-3 reactor	NT2	fessenheim-2 reactor
NT2	rmb reactor	NT2	braidwood-1 reactor	NT2	flamanville-1 reactor
NT2	rp-10 reactor	NT2	braidwood-2 reactor	NT2	flamanville-2 reactor
NT2	rts-1 reactor	NT2	brokdorf reactor	NT2	flamanville-3 reactor
NT2	rv-1 reactor	NT2	bugey-2 reactor	NT2	forked river-1 reactor
NT2	saphir reactor	NT2	bugey-3 reactor	NT2	fuqing-1 reactor
NT2	scarabee reactor	NT2	bugey-4 reactor	NT2	fuqing-2 reactor
NT2	siloe reactor	NT2	bugey-5 reactor	NT2	fuqing-3 reactor
NT2	silhouette reactor	NT2	bw standard reactor	NT2	fuqing-4 reactor
NT2	slowpoke type reactors	NT2	byron-1 reactor	NT2	fuqing-5 reactor
NT3	slowpoke-alberta reactor	NT2	byron-2 reactor	NT2	fuqing-6 reactor
NT3	slowpoke-dalhousie reactor	NT2	calhoun-1 reactor	NT2	genkai-1 reactor
NT3	slowpoke-mona reactor	NT2	calhoun-2 reactor	NT2	genkai-2 reactor
NT3	slowpoke-montreal reactor	NT2	callaway-1 reactor	NT2	genkai-3 reactor
NT3	slowpoke-ottawa reactor	NT2	callaway-2 reactor	NT2	genkai-4 reactor
NT3	slowpoke rmc reactor	NT2	calvert cliffs-1 reactor	NT2	ginna-1 reactor
NT3	slowpoke src reactor	NT2	calvert cliffs-2 reactor	NT2	goesgen reactor
NT3	slowpoke-toronto reactor	NT2	carem 25 reactor	NT2	golfech-1 reactor
NT3	slowpoke-wnre reactor	NT2	catawba-1 reactor	NT2	golfech-2 reactor
NT2	spert-4 reactor	NT2	catawba-2 reactor	NT2	grafenrheinfeld reactor
NT2	spr iae reactor	NT2	cattenom-1 reactor	NT2	gravelines-1 reactor
NT2	spr-300 reactor	NT2	cattenom-2 reactor	NT2	gravelines-2 reactor
NT2	stek reactor	NT2	cattenom-3 reactor	NT2	gravelines-3 reactor
NT2	stir reactor	NT2	cattenom-4 reactor	NT2	gravelines-4 reactor
NT2	swierk r-2 reactor	NT2	ce standard reactor	NT2	gravelines-5 reactor
NT2	thetis reactor	NT2	changjiang-1 reactor	NT2	gravelines-6 reactor
NT2	thor reactor	NT2	changjiang-2 reactor	NT2	greene county reactor
NT2	toshiba reactor	NT2	chasnupp-1 reactor	NT2	greenwood-2 reactor
NT2	tr-1 reactor	NT2	chasnupp-2 reactor	NT2	greenwood-3 reactor
NT2	tr-2 reactor	NT2	chasnupp-3 reactor	NT2	grohnde reactor
NT2	triton reactor	NT2	cherokee-1 reactor	NT2	hamm-uentrop reactor
NT2	trr-1 reactor	NT2	cherokee-2 reactor	NT2	hanbit-1 reactor
NT2	tz1 reactor	NT2	cherokee-3 reactor	NT2	hanbit-2 reactor
NT2	tz2 reactor	NT2	chinon-b1 reactor	NT2	hanbit-3 reactor
NT2	uknr reactor	NT2	chinon-b2 reactor	NT2	hanbit-4 reactor
NT2	umne-1 reactor	NT2	chinon-b3 reactor	NT2	hanbit-5 reactor
NT2	umrr reactor	NT2	chinon-b4 reactor	NT2	hanbit-6 reactor
NT2	utr reactor	NT2	chooz-a reactor	NT2	harris-1 reactor
NT2	uvar reactor	NT2	chooz-b1 reactor	NT2	harris-2 reactor
NT2	uwnr reactor	NT2	chooz-b2 reactor	NT2	harris-3 reactor
NT2	vr-1 reactor	NT2	civaux-1 reactor	NT2	harris-4 reactor
NT2	wpir reactor	NT2	civaux-2 reactor	NT2	haven-1 reactor
NT2	wsur reactor	NT2	comanche peak-1 reactor	NT3	koshkonong-1 reactor
NT2	xapr reactor	NT2	comanche peak-2 reactor	NT2	haven-2 reactor
NT1	purnima-3 reactor	NT2	connecticut yankee reactor	NT3	koshkonong-2 reactor
NT1	pwr type reactors	NT2	cook-1 reactor	NT2	hongyanhe-1 reactor
NT2	aguirre reactor	NT2	cook-2 reactor	NT2	hongyanhe-2 reactor
NT2	almaraz-1 reactor	NT2	cruas-1 reactor	NT2	hongyanhe-3 reactor
NT2	almaraz-2 reactor	NT2	cruas-2 reactor	NT2	hongyanhe-4 reactor
NT2	angra-1 reactor	NT2	cruas-3 reactor	NT2	ikata-2 reactor
NT2	angra-2 reactor	NT2	cruas-4 reactor	NT2	ikata-3 reactor
NT2	angra-3 reactor	NT2	crystal river-3 reactor	NT2	ikata reactor
NT2	arkansas-1 reactor	NT2	crystal river-4 reactor	NT2	indian point-1 reactor
NT2	arkansas-2 reactor	NT2	dampierre-1 reactor	NT2	indian point-2 reactor
NT2	asco-1 reactor	NT2	dampierre-2 reactor	NT2	indian point-3 reactor
NT2	asco-2 reactor	NT2	dampierre-3 reactor	NT2	iran-1 reactor
NT2	atlantic-1 reactor	NT2	dampierre-4 reactor	NT2	iran-2 reactor
NT2	atlantic-2 reactor	NT2	davis besse-1 reactor	NT2	isar-2 reactor
NT2	basf-1 reactor	NT2	davis besse-2 reactor	NT2	jamesport-1 reactor
NT2	basf-2 reactor	NT2	davis besse-3 reactor	NT2	jamesport-2 reactor
NT2	beaver valley-1 reactor	NT2	daya bay-1 reactor	NT2	kewaunee reactor
NT2	beaver valley-2 reactor	NT2	daya bay-2 reactor	NT2	koeberg-1 reactor
NT2	bellefonte-1 reactor	NT2	diablo canyon-1 reactor	NT2	koeberg-2 reactor

NT2	kori-1 reactor	NT2	perkins-2 reactor	NT2	tricastin-1 reactor
NT2	kori-2 reactor	NT2	perkins-3 reactor	NT2	tricastin-2 reactor
NT2	kori-3 reactor	NT2	philippsburg-2 reactor	NT2	tricastin-3 reactor
NT2	kori-4 reactor	NT2	pilgrim-2 reactor	NT2	tricastin-4 reactor
NT2	krsko reactor	NT2	pilgrim-3 reactor	NT2	trillo-1 reactor
NT2	lemoniz-1 reactor	NT2	pm-2a reactor	NT2	trojan reactor
NT2	lemoniz-2 reactor	NT2	pm-3a reactor	NT2	tsuruga-2 reactor
NT2	lenin reactor	NT2	pnp-1 reactor	NT2	turkey point-3 reactor
NT2	leonid brezhnev reactor	NT2	point beach-1 reactor	NT2	turkey point-4 reactor
NT2	lingao-1 reactor	NT2	point beach-2 reactor	NT2	tva-1 reactor
NT2	lingao-2 reactor	NT2	prairie island-1 reactor	NT2	tva-2 reactor
NT2	lingao-3 reactor	NT2	prairie island-2 reactor	NT2	tyrone-1 reactor
NT2	lingao-4 reactor	NT2	qinshan-1 reactor	NT2	tyrone-2 reactor
NT2	loft reactor	NT2	qinshan-2-1 reactor	NT2	ulchin-1 reactor
NT2	lucie-1 reactor	NT2	qinshan-2-2 reactor	NT2	ulchin-2 reactor
NT2	lucie-2 reactor	NT2	qinshan-2-3 reactor	NT2	ulchin-3 reactor
NT2	maanshan-1 reactor	NT2	qinshan-2-4 reactor	NT2	ulchin-4 reactor
NT2	maanshan-2 reactor	NT2	quanicassee-1 reactor	NT2	ulchin-5 reactor
NT2	maine yankee reactor	NT2	quanicassee-2 reactor	NT2	ulchin-6 reactor
NT2	malibu-1 reactor	NT2	rancho seco-1 reactor	NT2	unterweser reactor
NT2	marble hill-1 reactor	NT2	remerschen reactor	NT2	vahnum-1 reactor
NT2	marble hill-2 reactor	NT2	rheinsberg akw1 reactor	NT2	vahnum-2 reactor
NT2	mc guire-1 reactor	NT2	ringhals-2 reactor	NT2	vandellos-2 reactor
NT2	mc guire-2 reactor	NT2	ringhals-3 reactor	NT2	vogtle-1 reactor
NT2	mh-1a reactor	NT2	ringhals-4 reactor	NT2	vogtle-2 reactor
NT2	midland-1 reactor	NT2	robinson-2 reactor	NT2	vogtle-3 reactor
NT2	midland-2 reactor	NT2	rooppur reactor	NT2	vogtle-4 reactor
NT2	mihama-1 reactor	NT2	rowe yankee reactor	NT2	waterford-3 reactor
NT2	mihama-2 reactor	NT2	s1c prototype reactor	NT2	waterford-4 reactor
NT2	mihama-3 reactor	NT2	saint alban-1 reactor	NT2	watts bar-1 reactor
NT2	millstone-2 reactor	NT2	saint alban-2 reactor	NT2	watts bar-2 reactor
NT2	millstone-3 reactor	NT2	saint laurent-b1 reactor	NT2	westinghouse standard reactor
NT2	muelheim-kaerlich reactor	NT2	saint laurent-b2 reactor	NT2	wnp-1 reactor
NT2	mutsu reactor	NT2	salem-1 reactor	NT2	wnp-3 reactor
NT2	neckar-1 reactor	NT2	salem-2 reactor	NT2	wnp-4 reactor
NT2	neckar-2 reactor	NT2	san onofre-1 reactor	NT2	wnp-5 reactor
NT2	nep-1 reactor	NT2	san onofre-2 reactor	NT2	wolf creek-1 reactor
NT2	nep-2 reactor	NT2	san onofre-3 reactor	NT2	wup-3 reactor
NT2	neupotz-1 reactor	NT2	savannah reactor	NT2	wup-4 reactor
NT2	neupotz-2 reactor	NT2	saxton reactor	NT2	wup-5 reactor
NT2	ningde-1 reactor	NT2	seabrook-1 reactor	NT2	wup-6 reactor
NT2	ningde-2 reactor	NT2	seabrook-2 reactor	NT2	wwer type reactors
NT2	ningde-3 reactor	NT2	selni reactor	NT3	armenian-1 reactor
NT2	ningde-4 reactor	NT2	sendai-1 reactor	NT3	armenian-2 reactor
NT2	nogent-1 reactor	NT2	sendai-2 reactor	NT3	balakovo-1 reactor
NT2	nogent-2 reactor	NT2	sequoyah-1 reactor	NT3	balakovo-2 reactor
NT2	north anna-1 reactor	NT2	sequoyah-2 reactor	NT3	balakovo-3 reactor
NT2	north anna-2 reactor	NT2	shin-kori-1 reactor	NT3	balakovo-4 reactor
NT2	north anna-3 reactor	NT2	shin-kori-2 reactor	NT3	blahutovice-1 reactor
NT2	north anna-4 reactor	NT2	shin-kori-3 reactor	NT3	bohunice v-1 reactor
NT2	north coast-1 reactor	NT2	shin-wolsong-1 reactor	NT3	bohunice v-2 reactor
NT2	obrigheim reactor	NT2	shippingport reactor	NT3	dukovany-1 reactor
NT2	oconee-1 reactor	NT2	sizewell-b reactor	NT3	dukovany-2 reactor
NT2	oconee-2 reactor	NT2	sm-1 reactor	NT3	dukovany-3 reactor
NT2	oconee-3 reactor	NT2	sm-1a reactor	NT3	dukovany-4 reactor
NT2	oi-1 reactor	NT2	south texas project-1 reactor	NT3	greifswald-1 reactor
NT2	oi-2 reactor	NT2	south texas project-2 reactor	NT3	greifswald-2 reactor
NT2	oi-3 reactor	NT2	stade reactor	NT3	greifswald-3 reactor
NT2	oi-4 reactor	NT2	sterling-1 reactor	NT3	greifswald-4 reactor
NT2	oktembryan-2 reactor	NT2	sterling-2 reactor	NT3	greifswald-5 reactor
NT2	olkiluoto-3 reactor	NT2	summer-1 reactor	NT3	greifswald-6 reactor
NT2	otto hahn reactor	NT2	sundesert-1 reactor	NT3	juragua-1 reactor
NT2	palisades-1 reactor	NT2	sundesert-2 reactor	NT3	kalinin-1 reactor
NT2	palo verde-1 reactor	NT2	surry-1 reactor	NT3	kalinin-2 reactor
NT2	palo verde-2 reactor	NT2	surry-2 reactor	NT3	kalinin-3 reactor
NT2	palo verde-3 reactor	NT2	surry-3 reactor	NT3	kalinin-4 reactor
NT2	palo verde-4 reactor	NT2	surry-4 reactor	NT3	kecerovce-1 reactor
NT2	palo verde-5 reactor	NT2	takahama-1 reactor	NT3	khmel'nitskij-1 reactor
NT2	paluel-1 reactor	NT2	takahama-2 reactor	NT3	khmel'nitskij-2 reactor
NT2	paluel-2 reactor	NT2	takahama-3 reactor	NT3	kola-1 reactor
NT2	paluel-3 reactor	NT2	takahama-4 reactor	NT3	kola-2 reactor
NT2	paluel-4 reactor	NT2	three mile island-1 reactor	NT3	kola-3 reactor
NT2	pat reactor	NT2	three mile island-2 reactor	NT3	kola-4 reactor
NT2	pebble springs-1 reactor	NT2	tihange-2 reactor	NT3	kozloduy-1 reactor
NT2	pebble springs-2 reactor	NT2	tihange-3 reactor	NT3	kozloduy-2 reactor
NT2	penly-1 reactor	NT2	tihange reactor	NT3	kozloduy-3 reactor
NT2	penly-2 reactor	NT2	tomari-1 reactor	NT3	kozloduy-4 reactor
NT2	penly-3 reactor	NT2	tomari-2 reactor	NT3	kozloduy-5 reactor
NT2	perkins-1 reactor	NT2	tomari-3 reactor	NT3	kozloduy-6 reactor

**NT3** kudankulam-1 reactor  
**NT3** kudankulam-2 reactor  
**NT3** loviisa-1 reactor  
**NT3** loviisa-2 reactor  
**NT3** mochovce-1 reactor  
**NT3** mochovce-2 reactor  
**NT3** novovoronezh-1 reactor  
**NT3** novovoronezh-2 reactor  
**NT3** novovoronezh-3 reactor  
**NT3** novovoronezh-4 reactor  
**NT3** novovoronezh-5 reactor  
**NT3** paks-1 reactor  
**NT3** paks-2 reactor  
**NT3** paks-3 reactor  
**NT3** paks-4 reactor  
**NT3** rostov-1 reactor  
**NT3** rostov-2 reactor  
**NT3** rostov-3 reactor  
**NT3** rovno-1 reactor  
**NT3** rovno-2 reactor  
**NT3** rovno-3 reactor  
**NT3** rovno-4 reactor  
**NT3** rovno-5 reactor  
**NT3** south ukrainian-1 reactor  
**NT3** south ukrainian-2 reactor  
**NT3** south ukrainian-3 reactor  
**NT3** stendal-1 reactor  
**NT3** tatarian reactor  
**NT3** temelin-1 reactor  
**NT3** temelin-2 reactor  
**NT3** tianwan-1 reactor  
**NT3** tianwan-2 reactor  
**NT3** zaporozhe-1 reactor  
**NT3** zaporozhe-2 reactor  
**NT3** zaporozhe-3 reactor  
**NT3** zaporozhe-4 reactor  
**NT3** zaporozhe-5 reactor  
**NT3** zaporozhe-6 reactor  
**NT2** wyhl-1 reactor  
**NT2** wyhl-2 reactor  
**NT2** yangjiang-1 reactor  
**NT2** yangjiang-2 reactor  
**NT2** yangjiang-3 reactor  
**NT2** yangjiang-4 reactor  
**NT2** yellow creek-1 reactor  
**NT2** yellow creek-2 reactor  
**NT2** zion-1 reactor  
**NT2** zion-2 reactor  
**NT2** zorita-1 reactor  
**NT1** r-2 reactor  
**NT1** ra-5 reactor  
**NT1** rg-1m reactor  
**NT1** safari-1 reactor  
**NT1** sghwr reactor  
**NT1** sm-2 reactor  
**NT1** spert-2 reactor  
**NT1** spert-3 reactor  
**NT1** sr-1 reactor  
**NT1** sr-3p reactor  
**NT1** sr-oa reactor  
**NT1** tca reactor  
**NT1** triga type reactors  
**NT2** afri reactor  
**NT2** atpr reactor  
**NT2** colorado triga-mk-3 reactor  
**NT2** cornell triga-mk-2 reactor  
**NT2** dow triga-mk-1 reactor  
**NT2** fir-1 reactor  
**NT2** frf-2 reactor  
**NT2** frm reactor  
**NT2** gulf triga-mk-3 reactor  
**NT2** kartini-ppny reactor  
**NT2** lopra reactor  
**NT2** nscr reactor  
**NT2** ostr reactor  
**NT2** prpr reactor  
**NT2** psbr reactor  
**NT2** rtp reactor  
**NT2** trico ii reactor

**NT2** trico reactor  
**NT2** triga-1-arizona reactor  
**NT2** triga-1-california reactor  
**NT2** triga-1-hanford reactor  
**NT2** triga-1-hanover reactor  
**NT2** triga-1-heidelberg reactor  
**NT2** triga-1-michigan reactor  
**NT2** triga-2-bandung reactor  
**NT2** triga-2-bangladesh reactor  
**NT2** triga-2-dalat reactor  
**NT2** triga-2-illinois reactor  
**NT2** triga-2-kansas reactor  
**NT2** triga-2-ljubljana reactor  
**NT2** triga-2-mainz reactor  
**NT2** triga-2-musashi reactor  
**NT2** triga-2-pavia reactor  
**NT2** triga-2-pitesti reactor  
**NT2** triga-2 reactor  
**NT2** triga-2-rikkyo reactor  
**NT2** triga-2-rome reactor  
**NT2** triga-2-seoul reactor  
**NT2** triga-2-vienna reactor  
**NT2** triga-3-la jolla reactor  
**NT2** triga-3-munich reactor  
**NT2** triga-3-salazar reactor  
**NT2** triga-3-seoul reactor  
**NT2** triga-brazil reactor  
**NT2** triga-texas reactor  
**NT2** triga-veterans reactor  
**NT2** ucbr reactor  
**NT2** uwnr reactor  
**NT2** wsur reactor

**NT1** tsr-2 reactor  
**NT1** voronezh ast-500 reactor  
**NT1** wntr reactor  
**NT1** wtr reactor  
**NT1** wwr type reactors  
**NT2** budapest training reactor  
**NT2** irt-1 libya reactor  
**NT2** irt-baghdad reactor  
**NT2** lvr-15 reactor  
**NT2** wwr-2 reactor  
**NT2** wwr-k-almaty reactor  
**NT2** wwr-m-kiev reactor  
**NT2** wwr-m-leningrad reactor  
**NT2** wwr-s-bucharest reactor  
**NT2** wwr-s-budapest reactor  
**NT2** wwr-s-cairo reactor  
**NT2** wwr-s-moscow reactor  
**NT2** wwr-s-prague reactor  
**NT2** wwr-s-tashkent reactor  
**NT2** wwr-sm rossendorf reactor  
**NT2** wwr-z reactor  
**NT1** zlfr reactor  
**NT1** zr-6 reactor  
**RT** water chemistry

## WATER COOLERS

2005-04-20

**\*BT1** appliances  
**BT1** heat exchangers  
**RT** cooling  
**RT** drinking water  
**RT** refrigerators

## WATER CURRENT POWER GENERATORS

INIS: 1992-10-02; ETDE: 1976-06-07

**UF** hydrokinetic power generators  
**\*BT1** electric generators  
**RT** hydrokinetic power  
**RT** tidal power

## WATER CURRENTS

INIS: 1981-11-26; ETDE: 1977-04-12

Net transport of water along a definable path.

**UF** currents (water)  
**UF** ocean currents  
**BT1** currents  
**NT1** gulf stream

**NT1** gyres  
**RT** advection  
**RT** downwelling  
**RT** hydrokinetic power  
**RT** lakes  
**RT** oceanic circulation  
**RT** rivers  
**RT** seas  
**RT** streams  
**RT** surface waters  
**RT** tide  
**RT** upwelling  
**RT** water waves

## water demand

INIS: 1982-12-03; ETDE: 1979-05-09

USE water requirements

## water distribution

INIS: 1986-05-26; ETDE: 1979-09-26

USE water supply

## WATER FAUCETS

INIS: 2000-04-12; ETDE: 1977-06-21

**UF** faucets (water)

**\*BT1** valves  
**RT** pipe fittings  
**RT** plumbing

## WATER GAS

2000-04-12

Approximately 300 btu per cubic foot.

**\*BT1** intermediate btu gas  
**RT** carburetted water gas

## WATER GAS PROCESSES

2000-04-12

Processes in which water gas with steam in excess is passed over catalysts.

**BT1** chemical reactions  
**RT** hydrogen production

## WATER HAMMER

**RT** hydraulics  
**RT** impact shock  
**RT** shock waves

## WATER HEATERS

1992-04-07

**UF** hot water heaters

**\*BT1** appliances  
**BT1** heaters  
**NT1** solar water heaters  
**NT2** passive solar water heaters  
**NT3** thermic diode solar panels  
**RT** annual cycle energy system  
**RT** gas appliances  
**RT** water heating

## WATER HEATING

INIS: 2000-05-02; ETDE: 1981-06-13

**BT1** heating  
**NT1** geothermal water heating  
**NT1** solar water heating  
**RT** building technology suite  
**RT** hot water  
**RT** water heaters

## WATER HYACINTHS

INIS: 1991-12-16; ETDE: 1977-11-29

**BT1** aquatic organisms  
**\*BT1** liliopsida

## water infiltration

INIS: 1985-10-23; ETDE: 2002-05-24

USE water influx

## WATER INFLUX

INIS: 1985-10-23; ETDE: 1978-10-23

Entrance of water or aqueous solutions into geologic formations, underground spaces, etc.

**UF** infiltration (rock)

UF infiltration (water)  
 UF influx (water)  
 UF intrusion (water)  
 UF water infiltration  
 UF water intrusion  
 SF intrusion  
 RT aquifers  
 RT cavities  
 RT coal seams  
 RT geologic structures  
 RT ground water  
 RT hydrology  
 RT mine draining  
 RT mines  
 RT natural gas wells  
 RT oil wells  
 RT reservoir rock  
 RT water

**water intrusion**

INIS: 1985-07-23; ETDE: 2002-05-24

USE water influx

**water moderated organic cooled reactors**

USE lwor type reactors

**WATER MODERATED REACTORS**

UF br-3-vn reactor  
 UF light water moderated reactors  
 BT1 reactors  
 NT1 aarr reactor  
 NT1 acpr reactor  
 NT1 anna reactor  
 NT1 aqueous homogeneous reactors  
 NT2 ai-1-77 reactor  
 NT2 argus reactor  
 NT2 ber-2 reactor  
 NT2 byu 1-77 reactor  
 NT2 cesnef reactor  
 NT2 dr-1 reactor  
 NT2 frf reactor  
 NT2 gidra reactor  
 NT2 hre-2 reactor  
 NT2 jr-1 reactor  
 NT2 kewb reactor  
 NT2 kstr reactor  
 NT2 ncsr-1 reactor  
 NT2 nevada university reactor  
 NT2 prmc-1-77 reactor  
 NT2 supo reactor  
 NT2 wrrr reactor  
 NT1 argonaut type reactors  
 NT2 aeg-pr-10 reactor  
 NT2 arbi reactor  
 NT2 argonaut reactor  
 NT2 argos reactor  
 NT2 athene reactor  
 NT2 jason reactor  
 NT2 lfi reactor  
 NT2 moata reactor  
 NT2 nestor reactor  
 NT2 queen mary college utr-b reactor  
 NT2 ra-1 reactor  
 NT2 rb-2 reactor  
 NT2 rien-1 reactor  
 NT2 srcr-utr-100 reactor  
 NT2 stark reactor  
 NT2 strasbourg-cronenbourg reactor  
 NT2 ufr reactor  
 NT2 ulyse reactor  
 NT2 urr reactor  
 NT2 utr-10-kinki reactor  
 NT2 vpi-utr-10 reactor  
 NT1 astr reactor  
 NT1 atr reactor  
 NT1 atsr reactor  
 NT1 borax-1 reactor  
 NT1 borax-2 reactor

NT1 borax-3 reactor  
 NT1 borax-4 reactor  
 NT1 borax-5 reactor  
 NT1 br-02 reactor  
 NT1 br-2 reactor  
 NT1 bwr type reactors  
 NT2 allens creek-1 reactor  
 NT2 allens creek-2 reactor  
 NT2 bailly-1 reactor  
 NT2 barsebaeck-1 reactor  
 NT2 barsebaeck-2 reactor  
 NT2 barton-1 reactor  
 NT2 barton-2 reactor  
 NT2 barton-3 reactor  
 NT2 barton-4 reactor  
 NT2 bell reactor  
 NT2 big rock point reactor  
 NT2 black fox-1 reactor  
 NT2 black fox-2 reactor  
 NT2 bolsa chica-1 reactor  
 NT2 bolsa chica-2 reactor  
 NT2 bonus reactor  
 NT2 browns ferry-1 reactor  
 NT2 browns ferry-2 reactor  
 NT2 browns ferry-3 reactor  
 NT2 brunsbuettel reactor  
 NT2 brunswick-1 reactor  
 NT2 brunswick-2 reactor  
 NT2 chinshan-1 reactor  
 NT2 chinshan-2 reactor  
 NT2 clinton-1 reactor  
 NT2 clinton-2 reactor  
 NT2 cofrentes reactor  
 NT2 cooper reactor  
 NT2 dodewaard reactor  
 NT2 douglas point-1 reactor  
 NT2 douglas point-2 reactor  
 NT2 dresden-1 reactor  
 NT2 dresden-2 reactor  
 NT2 dresden-3 reactor  
 NT2 duane arnold-1 reactor  
 NT2 ebwr reactor  
 NT2 enel-4 reactor  
 NT2 enrico fermi-2 reactor  
 NT2 err reactor  
 NT2 fitzpatrick reactor  
 NT2 forsmark-1 reactor  
 NT2 forsmark-2 reactor  
 NT2 forsmark-3 reactor  
 NT2 fukushima-1 reactor  
 NT2 fukushima-2 reactor  
 NT2 fukushima-3 reactor  
 NT2 fukushima-4 reactor  
 NT2 fukushima-5 reactor  
 NT2 fukushima-6 reactor  
 NT2 fukushima-ii-1 reactor  
 NT2 fukushima-ii-2 reactor  
 NT2 fukushima-ii-3 reactor  
 NT2 fukushima-ii-4 reactor  
 NT2 garigliano reactor  
 NT2 garona reactor  
 NT2 ge standard reactor  
 NT2 graben-1 reactor  
 NT2 graben-2 reactor  
 NT2 grand gulf-1 reactor  
 NT2 grand gulf-2 reactor  
 NT2 gundremmingen-2 reactor  
 NT2 gundremmingen-3 reactor  
 NT2 hamaoka-1 reactor  
 NT2 hamaoka-2 reactor  
 NT2 hamaoka-3 reactor  
 NT2 hamaoka-4 reactor  
 NT2 hamaoka-5 reactor  
 NT2 hartsville-1 reactor  
 NT2 hartsville-2 reactor  
 NT2 hartsville-3 reactor  
 NT2 hartsville-4 reactor  
 NT2 hatch-1 reactor  
 NT2 hatch-2 reactor

NT2 hdr reactor  
 NT2 higashidori-1 reactor  
 NT2 hope creek-1 reactor  
 NT2 hope creek-2 reactor  
 NT2 humboldt bay reactor  
 NT2 isar reactor  
 NT2 jpdr-2 reactor  
 NT2 jpdr reactor  
 NT2 kaiseraugst reactor  
 NT2 kashiwazaki-kariwa-1 reactor  
 NT2 kashiwazaki-kariwa-2 reactor  
 NT2 kashiwazaki-kariwa-3 reactor  
 NT2 kashiwazaki-kariwa-4 reactor  
 NT2 kashiwazaki-kariwa-5 reactor  
 NT2 kashiwazaki-kariwa-6 reactor  
 NT2 kashiwazaki-kariwa-7 reactor  
 NT2 krummel reactor  
 NT2 kuosheng-1 reactor  
 NT2 kuosheng-2 reactor  
 NT2 la salle county-1 reactor  
 NT2 la salle county-2 reactor  
 NT2 lacbwr reactor  
 NT2 laguna verde-1 reactor  
 NT2 laguna verde-2 reactor  
 NT2 leibstadt reactor  
 NT2 limerick-1 reactor  
 NT2 limerick-2 reactor  
 NT2 lingen reactor  
 NT2 lungmen-1 reactor  
 NT2 lungmen-2 reactor  
 NT2 mendocino-1 reactor  
 NT2 mendocino-2 reactor  
 NT2 millstone-1 reactor  
 NT2 montague-1 reactor  
 NT2 montague-2 reactor  
 NT2 montalto di castro-1 reactor  
 NT2 montalto di castro-2 reactor  
 NT2 monticello reactor  
 NT2 muehleberg reactor  
 NT2 nine mile point-1 reactor  
 NT2 nine mile point-2 reactor  
 NT2 okg-1 reactor  
 NT2 okg-2 reactor  
 NT2 okg-3 reactor  
 NT2 olkiluoto-1 reactor  
 NT2 olkiluoto-2 reactor  
 NT2 onagawa-1 reactor  
 NT2 onagawa-2 reactor  
 NT2 onagawa-3 reactor  
 NT2 oyster creek-1 reactor  
 NT2 pathfinder reactor  
 NT2 peach bottom-2 reactor  
 NT2 peach bottom-3 reactor  
 NT2 perry-1 reactor  
 NT2 perry-2 reactor  
 NT2 philippsburg-1 reactor  
 NT2 phipps bend-1 reactor  
 NT2 phipps bend-2 reactor  
 NT2 pilgrim-1 reactor  
 NT2 quad cities-1 reactor  
 NT2 quad cities-2 reactor  
 NT2 ringhals-1 reactor  
 NT2 river bend-1 reactor  
 NT2 river bend-2 reactor  
 NT2 rwe-bayernwerk reactor  
 NT2 shika-1 reactor  
 NT2 shika-2 reactor  
 NT2 shimane-1 reactor  
 NT2 shimane-2 reactor  
 NT2 shimane-3 reactor  
 NT2 shoreham reactor  
 NT2 skagit-1 reactor  
 NT2 skagit-2 reactor  
 NT2 sl-1 reactor  
 NT2 susquehanna-1 reactor  
 NT2 susquehanna-2 reactor  
 NT2 tarapur-1 reactor  
 NT2 tarapur-2 reactor  
 NT2 tokai-2 reactor

NT2	tsuruga reactor	NT2	cmrr reactor	NT2	rinsc reactor
NT2	tullnerfeld reactor	NT2	consort-2 reactor	NT2	ritmo reactor
NT2	vak reactor	NT2	cp-6 reactor	NT2	rmb reactor
NT2	vbwr reactor	NT2	crocus reactor	NT2	rp-10 reactor
NT2	vermont yankee reactor	NT2	democritus reactor	NT2	rts-1 reactor
NT2	verplanck-1 reactor	NT2	dr-2 reactor	NT2	rv-1 reactor
NT2	verplanck-2 reactor	NT2	etrc reactor	NT2	saphir reactor
NT2	vk-50 reactor	NT2	etrr-2 reactor	NT2	scarabee reactor
NT2	wnp-2 reactor	NT2	fimrb reactor	NT2	siloe reactor
NT2	wuergassen reactor	NT2	fmr reactor	NT2	silhouette reactor
NT2	zimmer-1 reactor	NT2	frg-1 reactor	NT2	slowpoke type reactors
NT2	zimmer-2 reactor	NT2	frg-2 reactor	NT3	slowpoke-alberta reactor
NT1	entc lwsr reactor	NT2	frj-1 reactor	NT3	slowpoke-dalhousie reactor
NT1	esada-vesr reactor	NT2	frm-ii reactor	NT3	slowpoke-mona reactor
NT1	etr reactor	NT2	frm reactor	NT3	slowpoke-montreal reactor
NT1	evsr reactor	NT2	frn reactor	NT3	slowpoke-ottawa reactor
NT1	ewa reactor	NT2	ga siwabessy reactor	NT3	slowpoke rmc reactor
NT1	ewg-1 reactor	NT2	gtr reactor	NT3	slowpoke src reactor
NT1	gcre reactor	NT2	gulf triga-mk-3 reactor	NT3	slowpoke-toronto reactor
NT1	getr reactor	NT2	hanaro reactor	NT3	slowpoke-wmre reactor
NT1	hclwr type reactors	NT2	herald reactor	NT2	spert-4 reactor
NT1	hfetr reactor	NT2	hor reactor	NT2	spr iae reactor
NT1	hfir reactor	NT2	horace reactor	NT2	spr-300 reactor
NT1	hfr reactor	NT2	htr reactor	NT2	stek reactor
NT1	igr reactor	NT2	ian-r1 reactor	NT2	stir reactor
NT1	janus reactor	NT2	iear-1 reactor	NT2	swierk r-2 reactor
NT1	jmtr reactor	NT2	ihni-1 reactor	NT2	thetis reactor
NT1	juno reactor	NT2	ir-100 reactor	NT2	thor reactor
NT1	kamini reactor	NT2	irl reactor	NT2	toshiba reactor
NT1	kuca reactor	NT2	irr-1 reactor	NT2	tr-1 reactor
NT1	kuhfr reactor	NT2	irt-2000 djakarta reactor	NT2	tr-2 reactor
NT1	litr reactor	NT2	irt-2000 moscow reactor	NT2	triton reactor
NT1	lwbr type reactors	NT2	irt-c reactor	NT2	trr-1 reactor
NT1	lwor type reactors	NT2	irt-dprk reactor	NT2	tz1 reactor
NT1	maple reactor	NT2	irt-f reactor	NT2	tz2 reactor
NT1	maple type reactors	NT2	irt reactor	NT2	uknr reactor
NT1	mir reactor	NT2	irt-sofia reactor	NT2	umne-1 reactor
NT1	ml-1 reactor	NT2	isis reactor	NT2	umrr reactor
NT1	mnsr type reactors	NT2	ivv-2m reactor	NT2	utrr reactor
NT2	entc mnsr reactor	NT2	ivv-7 reactor	NT2	uvar reactor
NT2	gharr-1 reactor	NT2	jen-1 reactor	NT2	uwnr reactor
NT2	mnsr-ciae reactor	NT2	jen-2 reactor	NT2	vr-1 reactor
NT2	mnsr-sd reactor	NT2	jen reactor	NT2	wpir reactor
NT2	mnsr-sh reactor	NT2	jrr-3m reactor	NT2	wsur reactor
NT2	mnsr-sz reactor	NT2	jrr-4 reactor	NT2	xapr reactor
NT2	nirr-1 reactor	NT2	jules horowitz reactor	NT1	purnima-3 reactor
NT2	parr-2 reactor	NT2	kur reactor	NT1	pwr type reactors
NT2	srr-1 reactor	NT2	la reina rech-1 reactor	NT2	aguirre reactor
NT1	mrr reactor	NT2	lido reactor	NT2	almaraz-1 reactor
NT1	mtr reactor	NT2	lo aguirre rech-2 reactor	NT2	almaraz-2 reactor
NT1	murr reactor	NT2	lpr reactor	NT2	angra-1 reactor
NT1	netr reactor	NT2	lprr reactor	NT2	angra-2 reactor
NT1	nhr-5 reactor	NT2	lr-0 reactor	NT2	angra-3 reactor
NT1	nsrr reactor	NT2	ltir reactor	NT2	arkansas-1 reactor
NT1	nr reactor	NT2	maria reactor	NT2	arkansas-2 reactor
NT1	nuclear furnace reactor	NT2	maryla reactor	NT2	asco-1 reactor
NT1	orr reactor	NT2	melusine-1 reactor	NT2	asco-2 reactor
NT1	osiris reactor	NT2	merlin reactor	NT2	atlantic-1 reactor
NT1	owr reactor	NT2	minerve reactor	NT2	atlantic-2 reactor
NT1	pbr reactor	NT2	mnr reactor	NT2	basf-1 reactor
NT1	pegase reactor	NT2	nscr reactor	NT2	basf-2 reactor
NT1	peggy reactor	NT2	nur reactor	NT2	beaver valley-1 reactor
NT1	perryman-1 reactor	NT2	opal reactor	NT2	beaver valley-2 reactor
NT1	perryman-2 reactor	NT2	osur reactor	NT2	bellefonte-1 reactor
NT1	pool type reactors	NT2	parr-1 reactor	NT2	bellefonte-2 reactor
NT2	agata reactor	NT2	phebus reactor	NT2	belleville-1 reactor
NT2	apsara reactor	NT2	pik physical model reactor	NT2	belleville-2 reactor
NT2	armf-1 reactor	NT2	prpr reactor	NT2	beznau-1 reactor
NT2	astra reactor	NT2	pr-1 reactor	NT2	beznau-2 reactor
NT2	atrc reactor	NT2	psbr reactor	NT2	biblis-1 reactor
NT2	avogadro rs-1 reactor	NT2	ptr reactor	NT2	biblis-2 reactor
NT2	barn reactor	NT2	pulstar-buffalo reactor	NT2	biblis-3 reactor
NT2	bawtr reactor	NT2	pulstar-raleigh reactor	NT2	biblis-4 reactor
NT2	ber-2 reactor	NT2	pur-1 reactor	NT2	blayais-1 reactor
NT2	brr reactor	NT2	r2-0 reactor	NT2	blayais-2 reactor
NT2	bsr-1 reactor	NT2	ra-10 reactor	NT2	blayais-3 reactor
NT2	bsr-2 reactor	NT2	ra-6 reactor	NT2	blayais-4 reactor
NT2	cabri reactor	NT2	ra-8 reactor	NT2	blue hills-1 reactor
NT2	carr reactor	NT2	rana reactor	NT2	blue hills-2 reactor

NT2	borssele reactor	NT2	fessenheim-1 reactor	NT2	lucie-2 reactor
NT2	br-3 reactor	NT2	fessenheim-2 reactor	NT2	maanshan-1 reactor
NT2	braidwood-1 reactor	NT2	flamanville-1 reactor	NT2	maanshan-2 reactor
NT2	braidwood-2 reactor	NT2	flamanville-2 reactor	NT2	maine yankee reactor
NT2	brokdorf reactor	NT2	flamanville-3 reactor	NT2	malibu-1 reactor
NT2	bugey-2 reactor	NT2	forked river-1 reactor	NT2	marble hill-1 reactor
NT2	bugey-3 reactor	NT2	fuqing-1 reactor	NT2	marble hill-2 reactor
NT2	bugey-4 reactor	NT2	fuqing-2 reactor	NT2	mc guire-1 reactor
NT2	bugey-5 reactor	NT2	fuqing-3 reactor	NT2	mc guire-2 reactor
NT2	bw standard reactor	NT2	fuqing-4 reactor	NT2	mh-1a reactor
NT2	byron-1 reactor	NT2	fuqing-5 reactor	NT2	midland-1 reactor
NT2	byron-2 reactor	NT2	fuqing-6 reactor	NT2	midland-2 reactor
NT2	calhoun-1 reactor	NT2	genkai-1 reactor	NT2	mihama-1 reactor
NT2	calhoun-2 reactor	NT2	genkai-2 reactor	NT2	mihama-2 reactor
NT2	callaway-1 reactor	NT2	genkai-3 reactor	NT2	mihama-3 reactor
NT2	callaway-2 reactor	NT2	genkai-4 reactor	NT2	millstone-2 reactor
NT2	calvert cliffs-1 reactor	NT2	ginna-1 reactor	NT2	millstone-3 reactor
NT2	calvert cliffs-2 reactor	NT2	goesgen reactor	NT2	muelheim-kaerlich reactor
NT2	carem 25 reactor	NT2	golfech-1 reactor	NT2	mutsu reactor
NT2	catawba-1 reactor	NT2	golfech-2 reactor	NT2	neckar-1 reactor
NT2	catawba-2 reactor	NT2	grafenrheinfeld reactor	NT2	neckar-2 reactor
NT2	cattenom-1 reactor	NT2	gravelines-1 reactor	NT2	nep-1 reactor
NT2	cattenom-2 reactor	NT2	gravelines-2 reactor	NT2	nep-2 reactor
NT2	cattenom-3 reactor	NT2	gravelines-3 reactor	NT2	neupotz-1 reactor
NT2	cattenom-4 reactor	NT2	gravelines-4 reactor	NT2	neupotz-2 reactor
NT2	ce standard reactor	NT2	gravelines-5 reactor	NT2	ningde-1 reactor
NT2	changjiang-1 reactor	NT2	gravelines-6 reactor	NT2	ningde-2 reactor
NT2	changjiang-2 reactor	NT2	greene county reactor	NT2	ningde-3 reactor
NT2	chasnupp-1 reactor	NT2	greenwood-2 reactor	NT2	ningde-4 reactor
NT2	chasnupp-2 reactor	NT2	greenwood-3 reactor	NT2	nogent-1 reactor
NT2	chasnupp-3 reactor	NT2	grohnde reactor	NT2	nogent-2 reactor
NT2	cherokee-1 reactor	NT2	hamm-uentrop reactor	NT2	north anna-1 reactor
NT2	cherokee-2 reactor	NT2	hanbit-1 reactor	NT2	north anna-2 reactor
NT2	cherokee-3 reactor	NT2	hanbit-2 reactor	NT2	north anna-3 reactor
NT2	chinon-b1 reactor	NT2	hanbit-3 reactor	NT2	north anna-4 reactor
NT2	chinon-b2 reactor	NT2	hanbit-4 reactor	NT2	north coast-1 reactor
NT2	chinon-b3 reactor	NT2	hanbit-5 reactor	NT2	obrigheim reactor
NT2	chinon-b4 reactor	NT2	hanbit-6 reactor	NT2	oconee-1 reactor
NT2	chooz-a reactor	NT2	harris-1 reactor	NT2	oconee-2 reactor
NT2	chooz-b1 reactor	NT2	harris-2 reactor	NT2	oconee-3 reactor
NT2	chooz-b2 reactor	NT2	harris-3 reactor	NT2	oi-1 reactor
NT2	civaux-1 reactor	NT2	harris-4 reactor	NT2	oi-2 reactor
NT2	civaux-2 reactor	NT2	haven-1 reactor	NT2	oi-3 reactor
NT2	comanche peak-1 reactor	NT3	koshkonong-1 reactor	NT2	oi-4 reactor
NT2	comanche peak-2 reactor	NT2	haven-2 reactor	NT2	oktemberyan-2 reactor
NT2	connecticut yankee reactor	NT3	koshkonong-2 reactor	NT2	olkiluoto-3 reactor
NT2	cook-1 reactor	NT2	hongyanhe-1 reactor	NT2	otto hahn reactor
NT2	cook-2 reactor	NT2	hongyanhe-2 reactor	NT2	palisades-1 reactor
NT2	cruas-1 reactor	NT2	hongyanhe-3 reactor	NT2	palo verde-1 reactor
NT2	cruas-2 reactor	NT2	hongyanhe-4 reactor	NT2	palo verde-2 reactor
NT2	cruas-3 reactor	NT2	ikata-2 reactor	NT2	palo verde-3 reactor
NT2	cruas-4 reactor	NT2	ikata-3 reactor	NT2	palo verde-4 reactor
NT2	crystal river-3 reactor	NT2	ikata reactor	NT2	palo verde-5 reactor
NT2	crystal river-4 reactor	NT2	indian point-1 reactor	NT2	paluel-1 reactor
NT2	dampierre-1 reactor	NT2	indian point-2 reactor	NT2	paluel-2 reactor
NT2	dampierre-2 reactor	NT2	indian point-3 reactor	NT2	paluel-3 reactor
NT2	dampierre-3 reactor	NT2	iran-1 reactor	NT2	paluel-4 reactor
NT2	dampierre-4 reactor	NT2	iran-2 reactor	NT2	pat reactor
NT2	davis besse-1 reactor	NT2	isar-2 reactor	NT2	pebble springs-1 reactor
NT2	davis besse-2 reactor	NT2	jamesport-1 reactor	NT2	pebble springs-2 reactor
NT2	davis besse-3 reactor	NT2	jamesport-2 reactor	NT2	penly-1 reactor
NT2	daya bay-1 reactor	NT2	kewaunee reactor	NT2	penly-2 reactor
NT2	daya bay-2 reactor	NT2	koeberg-1 reactor	NT2	penly-3 reactor
NT2	diablo canyon-1 reactor	NT2	koeberg-2 reactor	NT2	perkins-1 reactor
NT2	diablo canyon-2 reactor	NT2	kori-1 reactor	NT2	perkins-2 reactor
NT2	doel-1 reactor	NT2	kori-2 reactor	NT2	perkins-3 reactor
NT2	doel-2 reactor	NT2	kori-3 reactor	NT2	philippsburg-2 reactor
NT2	doel-3 reactor	NT2	kori-4 reactor	NT2	pilgrim-2 reactor
NT2	doel-4 reactor	NT2	krsko reactor	NT2	pilgrim-3 reactor
NT2	efdr-50 reactor	NT2	lemoniz-1 reactor	NT2	pm-2a reactor
NT2	emsland reactor	NT2	lemoniz-2 reactor	NT2	pm-3a reactor
NT2	erie-1 reactor	NT2	lenin reactor	NT2	pnp-1 reactor
NT2	erie-2 reactor	NT2	leonid brezhnev reactor	NT2	point beach-1 reactor
NT2	fangchenggang-1 reactor	NT2	lingao-1 reactor	NT2	point beach-2 reactor
NT2	fangchenggang-2 reactor	NT2	lingao-2 reactor	NT2	prairie island-1 reactor
NT2	fangjiashan-1 reactor	NT2	lingao-3 reactor	NT2	prairie island-2 reactor
NT2	fangjiashan-2 reactor	NT2	lingao-4 reactor	NT2	qinshan-1 reactor
NT2	farley-1 reactor	NT2	loft reactor	NT2	qinshan-2-1 reactor
NT2	farley-2 reactor	NT2	lucie-1 reactor	NT2	qinshan-2-2 reactor



NT2	qinshan-2-3 reactor	NT2	ulchin-3 reactor	NT3	rostov-1 reactor
NT2	qinshan-2-4 reactor	NT2	ulchin-4 reactor	NT3	rostov-2 reactor
NT2	quanicassee-1 reactor	NT2	ulchin-5 reactor	NT3	rostov-3 reactor
NT2	quanicassee-2 reactor	NT2	ulchin-6 reactor	NT3	rovno-1 reactor
NT2	rancho seco-1 reactor	NT2	unterweser reactor	NT3	rovno-2 reactor
NT2	remerschen reactor	NT2	vahnum-1 reactor	NT3	rovno-3 reactor
NT2	rheinsberg akw1 reactor	NT2	vahnum-2 reactor	NT3	rovno-4 reactor
NT2	ringhals-2 reactor	NT2	vandellos-2 reactor	NT3	rovno-5 reactor
NT2	ringhals-3 reactor	NT2	vogtle-1 reactor	NT3	south ukrainian-1 reactor
NT2	ringhals-4 reactor	NT2	vogtle-2 reactor	NT3	south ukrainian-2 reactor
NT2	robinson-2 reactor	NT2	vogtle-3 reactor	NT3	south ukrainian-3 reactor
NT2	rooppur reactor	NT2	vogtle-4 reactor	NT3	stendal-1 reactor
NT2	rowe yankee reactor	NT2	waterford-3 reactor	NT3	tatarian reactor
NT2	s1c prototype reactor	NT2	waterford-4 reactor	NT3	temelin-1 reactor
NT2	saint alban-1 reactor	NT2	watts bar-1 reactor	NT3	temelin-2 reactor
NT2	saint alban-2 reactor	NT2	watts bar-2 reactor	NT3	tianwan-1 reactor
NT2	saint laurent-b1 reactor	NT2	westinghouse standard reactor	NT3	tianwan-2 reactor
NT2	saint laurent-b2 reactor	NT2	wnp-1 reactor	NT3	zaporozhe-1 reactor
NT2	salem-1 reactor	NT2	wnp-3 reactor	NT3	zaporozhe-2 reactor
NT2	salem-2 reactor	NT2	wnp-4 reactor	NT3	zaporozhe-3 reactor
NT2	san onofre-1 reactor	NT2	wnp-5 reactor	NT3	zaporozhe-4 reactor
NT2	san onofre-2 reactor	NT2	wolf creek-1 reactor	NT3	zaporozhe-5 reactor
NT2	san onofre-3 reactor	NT2	wup-3 reactor	NT3	zaporozhe-6 reactor
NT2	savannah reactor	NT2	wup-4 reactor	NT2	wyhl-1 reactor
NT2	saxton reactor	NT2	wup-5 reactor	NT2	wyhl-2 reactor
NT2	seabrook-1 reactor	NT2	wup-6 reactor	NT2	yangjiang-1 reactor
NT2	seabrook-2 reactor	NT2	wwer type reactors	NT2	yangjiang-2 reactor
NT2	selni reactor	NT3	armenian-1 reactor	NT2	yangjiang-3 reactor
NT2	sendai-1 reactor	NT3	armenian-2 reactor	NT2	yangjiang-4 reactor
NT2	sendai-2 reactor	NT3	balakovo-1 reactor	NT2	yellow creek-1 reactor
NT2	sequoyah-1 reactor	NT3	balakovo-2 reactor	NT2	yellow creek-2 reactor
NT2	sequoyah-2 reactor	NT3	balakovo-3 reactor	NT2	zion-1 reactor
NT2	shin-kori-1 reactor	NT3	balakovo-4 reactor	NT2	zion-2 reactor
NT2	shin-kori-2 reactor	NT3	blahutovice-1 reactor	NT2	zorita-1 reactor
NT2	shin-kori-3 reactor	NT3	bohunice v-1 reactor	NT1	r-2 reactor
NT2	shin-wolsong-1 reactor	NT3	bohunice v-2 reactor	NT1	ra-5 reactor
NT2	shippingport reactor	NT3	dukovany-1 reactor	NT1	rake-2 reactor
NT2	sizewell-b reactor	NT3	dukovany-2 reactor	NT1	rg-1m reactor
NT2	sm-1 reactor	NT3	dukovany-3 reactor	NT1	safari-1 reactor
NT2	sm-1a reactor	NT3	dukovany-4 reactor	NT1	sm-1 subcritical assembly
NT2	south texas project-1 reactor	NT3	greifswald-1 reactor	NT1	sm-2 reactor
NT2	south texas project-2 reactor	NT3	greifswald-2 reactor	NT1	spert-1 reactor
NT2	stade reactor	NT3	greifswald-3 reactor	NT1	spert-2 reactor
NT2	sterling-1 reactor	NT3	greifswald-4 reactor	NT1	spert-3 reactor
NT2	sterling-2 reactor	NT3	greifswald-5 reactor	NT1	sr-1 reactor
NT2	summer-1 reactor	NT3	greifswald-6 reactor	NT1	sr-0a reactor
NT2	sundesert-1 reactor	NT3	juragua-1 reactor	NT1	tca reactor
NT2	sundesert-2 reactor	NT3	kalinin-1 reactor	NT1	triga type reactors
NT2	surry-1 reactor	NT3	kalinin-2 reactor	NT2	afiri reactor
NT2	surry-2 reactor	NT3	kalinin-3 reactor	NT2	atpr reactor
NT2	surry-3 reactor	NT3	kalinin-4 reactor	NT2	colorado triga-mk-3 reactor
NT2	surry-4 reactor	NT3	kecerovce-1 reactor	NT2	cornell triga-mk-2 reactor
NT2	takahama-1 reactor	NT3	khmelnitskij-1 reactor	NT2	dow triga-mk-1 reactor
NT2	takahama-2 reactor	NT3	khmelnitskij-2 reactor	NT2	fir-1 reactor
NT2	takahama-3 reactor	NT3	kola-1 reactor	NT2	frf-2 reactor
NT2	takahama-4 reactor	NT3	kola-2 reactor	NT2	frn reactor
NT2	three mile island-1 reactor	NT3	kola-3 reactor	NT2	gulf triga-mk-3 reactor
NT2	three mile island-2 reactor	NT3	kola-4 reactor	NT2	kartini-ppny reactor
NT2	tihange-2 reactor	NT3	kozloduy-1 reactor	NT2	lopra reactor
NT2	tihange-3 reactor	NT3	kozloduy-2 reactor	NT2	nscr reactor
NT2	tihange reactor	NT3	kozloduy-3 reactor	NT2	ostr reactor
NT2	tomari-1 reactor	NT3	kozloduy-4 reactor	NT2	prpr reactor
NT2	tomari-2 reactor	NT3	kozloduy-5 reactor	NT2	psbr reactor
NT2	tomari-3 reactor	NT3	kozloduy-6 reactor	NT2	rtp reactor
NT2	tricastin-1 reactor	NT3	kudankulam-1 reactor	NT2	trico ii reactor
NT2	tricastin-2 reactor	NT3	kudankulam-2 reactor	NT2	trico reactor
NT2	tricastin-3 reactor	NT3	loviisa-1 reactor	NT2	triga-1-arizona reactor
NT2	tricastin-4 reactor	NT3	loviisa-2 reactor	NT2	triga-1-california reactor
NT2	trillo-1 reactor	NT3	mochovce-1 reactor	NT2	triga-1-hanford reactor
NT2	trojan reactor	NT3	mochovce-2 reactor	NT2	triga-1-hanover reactor
NT2	tsuruga-2 reactor	NT3	novovoronezh-1 reactor	NT2	triga-1-heidelberg reactor
NT2	turkey point-3 reactor	NT3	novovoronezh-2 reactor	NT2	triga-1-michigan reactor
NT2	turkey point-4 reactor	NT3	novovoronezh-3 reactor	NT2	triga-2-bandung reactor
NT2	tva-1 reactor	NT3	novovoronezh-4 reactor	NT2	triga-2-bangladesh reactor
NT2	tva-2 reactor	NT3	novovoronezh-5 reactor	NT2	triga-2-dalat reactor
NT2	tyrone-1 reactor	NT3	paks-1 reactor	NT2	triga-2-illinois reactor
NT2	tyrone-2 reactor	NT3	paks-2 reactor	NT2	triga-2-kansas reactor
NT2	ulchin-1 reactor	NT3	paks-3 reactor	NT2	triga-2-ljubljana reactor
NT2	ulchin-2 reactor	NT3	paks-4 reactor	NT2	triga-2-mainz reactor

**NT2** triga-2-musashi reactor  
**NT2** triga-2-pavia reactor  
**NT2** triga-2-pitesti reactor  
**NT2** triga-2 reactor  
**NT2** triga-2-rikkyo reactor  
**NT2** triga-2-rome reactor  
**NT2** triga-2-seoul reactor  
**NT2** triga-2-vienna reactor  
**NT2** triga-3-la jolla reactor  
**NT2** triga-3-munich reactor  
**NT2** triga-3-salazar reactor  
**NT2** triga-3-seoul reactor  
**NT2** triga-brazil reactor  
**NT2** triga-texas reactor  
**NT2** triga-veterans reactor  
**NT2** ucbr reactor  
**NT2** uwnr reactor  
**NT2** wsur reactor  
**NT1** tsr-2 reactor  
**NT1** twmr reactor  
**NT1** voronezh ast-500 reactor  
**NT1** wntr reactor  
**NT1** wtr reactor  
**NT1** wwr type reactors  
**NT2** budapest training reactor  
**NT2** irt-1 libya reactor  
**NT2** irt-baghdad reactor  
**NT2** lvr-15 reactor  
**NT2** wwr-2 reactor  
**NT2** wwr-k-almaty reactor  
**NT2** wwr-m-kiev reactor  
**NT2** wwr-m-leningrad reactor  
**NT2** wwr-s-bucharest reactor  
**NT2** wwr-s-budapest reactor  
**NT2** wwr-s-cairo reactor  
**NT2** wwr-s-moscow reactor  
**NT2** wwr-s-prague reactor  
**NT2** wwr-s-tashkent reactor  
**NT2** wwr-sm rossendorf reactor  
**NT2** wwr-z reactor  
**NT1** zlfr reactor

**water moderator**

USE water

**WATER POLICY**

INIS: 1992-04-08; ETDE: 1981-08-04

\*BT1 environmental policy  
 RT water resources

**WATER POLLUTION**

For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.

UF thermal pollution (water)  
 BT1 pollution  
 RT acid mine drainage  
 RT buoys  
 RT clean water acts  
 RT dissolved gases  
 RT environmental effects  
 RT environmental exposure  
 RT eutrophication  
 RT fouling  
 RT long-range transport  
 RT particulates  
 RT plumes  
 RT point pollutant sources  
 RT stationary pollutant sources  
 RT waste water  
 RT water pollution abatement  
 RT water pollution control  
 RT water pollution monitors  
 RT water quality  
 RT water use

**WATER POLLUTION ABATEMENT**

INIS: 1992-03-11; ETDE: 1976-07-07

The prevention of formation of pollutants at the source.

SF prevention of significant deterioration  
 SF psd  
 BT1 pollution abatement  
 RT ground cover  
 RT water pollution  
 RT water reclamation

**WATER POLLUTION CONTROL**

INIS: 1991-08-16; ETDE: 1977-03-04

The removal or management of pollutants after they are formed by a source.

\*BT1 pollution control  
 RT natural attenuation  
 RT oil pollution containment  
 RT rotating disk removal systems  
 RT sorbent recovery systems  
 RT water pollution  
 RT water treatment plants  
 RT water use  
 RT weir oil recovery systems

**WATER POLLUTION MONITORS**

INIS: 1992-01-15; ETDE: 1978-01-23

UF monitors (water pollution)  
 \*BT1 monitors  
 RT chemical effluents  
 RT liquid wastes  
 RT monitoring  
 RT water pollution

**WATER PUMPS**

INIS: 1993-06-08; ETDE: 1979-03-28

\*BT1 pumps  
 NT1 solar water pumps

**WATER QUALITY**

INIS: 1991-08-16; ETDE: 1975-10-28

BT1 environmental quality  
 RT clean water acts  
 RT gas bubble disease  
 RT water pollution  
 RT water reclamation  
 RT water treatment

**WATER RECLAMATION**

INIS: 1992-03-11; ETDE: 1981-05-18

RT aesthetics  
 RT public health  
 RT water pollution abatement  
 RT water quality  
 RT water resources

**WATER REMOVAL**

INIS: 1991-08-14; ETDE: 1975-11-28

(Prior to August 1991, this concept was indexed to DEHYDRATION.)

UF dewatering  
 BT1 removal  
 RT coal preparation  
 RT dehydration  
 RT dewatering equipment

**WATER REQUIREMENTS**

INIS: 1982-12-03; ETDE: 1976-07-07

UF water demand  
 BT1 demand  
 RT drought resistance  
 RT water  
 RT water resources  
 RT water use

**WATER RESERVOIRS**

UF reservoirs (water)  
 BT1 surface waters  
 NT1 cooling ponds  
 RT aquicludes

RT dams  
 RT energy storage  
 RT energy storage systems  
 RT fresh water  
 RT lakes  
 RT pumped storage power plants  
 RT reservoir engineering  
 RT storage  
 RT water resources  
 RT water supply  
 RT water use

**WATER RESOURCES**

1992-08-18

(Until January 1983, this concept was indexed by coordination of WATER and RESERVES; and from then until August 1992 by coordination of WATER and RESOURCES.)

BT1 resources  
 RT ground water  
 RT surface waters  
 RT water  
 RT water policy  
 RT water reclamation  
 RT water requirements  
 RT water reservoirs  
 RT water rights  
 RT water supply  
 RT water use  
 RT water wells

**WATER RIGHTS**

INIS: 1992-08-18; ETDE: 1976-03-22

Rights to the use of water.

RT legal aspects  
 RT property rights  
 RT water  
 RT water resources

**WATER SATURATION**

INIS: 1992-07-21; ETDE: 1977-01-28

Degree of filling of reservoir pore structure by reservoir water.

BT1 saturation  
 RT gas saturation  
 RT oil saturation  
 RT reservoir rock

**water solutions**

USE aqueous solutions

**WATER SOURCE HEAT PUMPS**

INIS: 2000-04-12; ETDE: 1979-07-24

BT1 heat pumps  
 RT air conditioning  
 RT space heating

**WATER SPRINGS**

INIS: 2000-01-26; ETDE: 1980-06-06

Places where ground water flows naturally from a rock or the soil onto the land surface or into a body of surface water.

UF springs (water)

NT1 mineral springs

NT1 thermal springs

NT2 hot springs

NT3 geysers

NT2 warm springs

RT ground water

RT hydrology

**WATER SUPPLY**

INIS: 1986-05-26; ETDE: 1979-09-26

To be used in the sense of a public utility or other engineered system, e.g. an irrigation system, rather than a natural system.

UF water distribution

RT plumbing

RT public utilities

RT reactor cooling systems

RT water reservoirs

RT water resources  
 RT water utilities  
 RT water wells

**WATER TABLES**

INIS: 1987-12-03; ETDE: 1980-03-04  
 RT aquifers  
 RT ground water  
 RT hydrology

**WATER TREATMENT**

INIS: 1982-12-07; ETDE: 1976-07-07  
 NT1 steam stripping  
 RT bioreactors  
 RT deaerators  
 RT dissolved gases  
 RT drinking water  
 RT waste water  
 RT water quality  
 RT water treatment plants

**WATER TREATMENT PLANTS**

INIS: 1992-05-26; ETDE: 1977-08-09  
 RT water pollution control  
 RT water treatment

**WATER USE**

INIS: 1984-02-22; ETDE: 1983-07-20  
 RT environment  
 RT external zones  
 RT irrigation  
 RT land use  
 RT regional analysis  
 RT water pollution  
 RT water pollution control  
 RT water requirements  
 RT water reservoirs  
 RT water resources

**WATER UTILITIES**

INIS: 1993-06-02; ETDE: 1981-01-27  
 BT1 public utilities  
 RT water supply

**WATER VAPOR**

\*BT1 vapors  
 RT fog  
 RT humidity  
 RT steam  
 RT transpiration

**WATER WALLS**

INIS: 2000-04-12; ETDE: 1980-03-04  
 \*BT1 passive solar heating systems  
 BT1 walls  
 RT sensible heat storage

**WATER WAVES**

INIS: 1992-09-08; ETDE: 1976-08-04  
 BT1 gravity waves  
 NT1 tsunamis  
 RT air-water interactions  
 RT hurricanes  
 RT internal waves  
 RT seas  
 RT storms  
 RT tide  
 RT water currents  
 RT wave energy converters  
 RT wave forces  
 RT wave power

**WATER WELLS**

INIS: 1994-06-27; ETDE: 1981-01-30  
 (Until June 1994 this concept was indexed by WELLS.)  
 BT1 wells  
 RT water resources  
 RT water supply

**WATER WHEELS**

INIS: 2000-04-12; ETDE: 1980-02-11  
 UF waterwheels  
 BT1 wheels  
 RT hydraulic turbines  
 RT hydroelectric power plants

**waterborne particles**

INIS: 1991-08-14; ETDE: 1981-09-08  
 USE particulates

**waterborne particulates**

INIS: 1991-08-14; ETDE: 2002-05-24  
 USE particulates

**WATERFLOODING**

INIS: 1992-07-10; ETDE: 1976-03-11  
 Method of pressure maintenance and secondary recovery in which water is injected through input (injection) wells to drive oil to the production wells.  
 SF polymer flooding  
 BT1 fluid injection  
 NT1 caustic flooding  
 RT petroleum  
 RT well stimulation

**WATERFORD-3 REACTOR**

Energy Operations, Inc., Taft, Louisiana, USA.  
 \*BT1 pwr type reactors

**WATERFORD-4 REACTOR**

Taft, Louisiana, USA. Unit never ordered.  
 \*BT1 pwr type reactors

**WATERPROOFING**

INIS: 1999-10-08; ETDE: 1977-01-28  
 RT coatings  
 RT films  
 RT protective coatings  
 RT sealing materials  
 RT seals  
 RT surface coating  
 RT surface properties  
 RT surface treatments  
 RT wettability

**WATERSHEDS**

INIS: 1997-06-19; ETDE: 1976-04-19  
 The drainage areas or catchment basins of streams.

UF catchment basins  
 NT1 colorado river basin  
 NT1 columbia river basin  
 NT2 pasco basin  
 NT1 connecticut river basin  
 NT1 great lakes basin  
 NT1 mississippi river basin  
 NT1 missouri river basin  
 NT1 monongahela river basin  
 NT1 north platte river basin  
 NT1 piceance creek basin  
 NT1 potomac river basin  
 NT1 powder river basin  
 NT1 tennessee valley region  
 NT1 yellow creek basin  
 RT complex terrain  
 RT drainage  
 RT imperial valley  
 RT land use  
 RT rivers  
 RT runoff  
 RT streams  
 RT surface waters  
 RT valleys

**waterwall furnaces**

INIS: 2000-04-12; ETDE: 1981-06-13  
 USE waterwall incinerators

**WATERWALL INCINERATORS**

INIS: 2000-04-12; ETDE: 1981-06-13  
 UF waterwall furnaces  
 BT1 incinerators  
 RT steam generators

**waterwheels**

INIS: 2000-04-12; ETDE: 1980-02-11  
 USE water wheels

**watson method**

USE sommerfeld-watson theory

**watt distribution**

USE watt fission spectrum

**watt fission source**

USE watt fission spectrum

**WATT FISSION SPECTRUM**

UF watt distribution  
 UF watt fission source  
 \*BT1 neutron spectra  
 RT fission  
 RT prompt neutrons  
 RT thermal fission  
 RT thermal neutrons

**watt-hour meters**

INIS: 1992-07-22; ETDE: 1978-01-23  
 USE power meters

**WATT POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-08-10  
 BT1 power range  
 NT1 power range 01-10 w  
 NT1 power range 10-100 w  
 NT1 power range 100-1000 w

**wattage**

INIS: 1985-01-18; ETDE: 1977-09-19  
 USE power input

**WATTS BAR-1 REACTOR**

TVA, Spring City, Tennessee, USA.  
 \*BT1 pwr type reactors

**WATTS BAR-2 REACTOR**

TVA, Spring City, Tennessee, USA.  
 Indefinitely deferred; construction stopped in early 1990s.  
 \*BT1 pwr type reactors

**WAVE ENERGY CONVERTERS**

1992-09-25  
 Devices for converting energy of water waves.  
 RT energy conversion  
 RT seas  
 RT water waves

**WAVE EQUATIONS**

INIS: 1982-10-29; ETDE: 1976-09-14  
 \*BT1 partial differential equations  
 NT1 dirac equation  
 NT2 dirac spinors  
 NT1 klein-gordon equation  
 NT1 majorana equation  
 NT1 schrodinger equation  
 RT rarita-schwinger theory

**WAVE FORCES**

INIS: 2000-04-12; ETDE: 1977-03-08  
 Forces exerted on mechanical structures by waves.  
 RT storms  
 RT water waves  
 RT wave power

**WAVE FORMS**

UF waveforms  
 RT electromagnetic radiation  
 RT polarization  
 RT wave propagation

**WAVE FUNCTIONS**

- BT1 functions
- RT brillouin theorem
- RT eigenfunctions
- RT fractional-parentage coefficients
- RT hidden variables
- RT hybridization
- RT muffin-tin potential
- RT projection operators
- RT quantum entanglement
- RT quantum states
- RT quantum wells
- RT schrodinger equation
- RT slater method
- RT sudden approximation

**WAVE PACKETS**

- RT wave propagation

**WAVE POWER**

1982-12-07

- BT1 power
- \*BT1 renewable energy sources
- RT water waves
- RT wave forces

**WAVE PROPAGATION**

1996-07-08

(Prior to August 1996 STAPP THEORY was a valid ETDE descriptor.)

- UF propagation (wave)
- SF stapp theory
- SF stapp-ypsilantis-metropolis theory
- RT amplitudes
- RT bifurcation
- RT fermat principle
- RT huygens principle
- RT interference
- RT internal waves
- RT mode control
- RT mode conversion
- RT phase velocity
- RT plasma surface waves
- RT polarization
- RT refraction
- RT refractive index
- RT standing waves
- RT travelling waves
- RT wave forms
- RT wave packets
- RT wavelengths
- RT zero sound

**waveforms**

INIS: 2000-04-12; ETDE: 1983-05-21

- USE wave forms

**WAVEGUIDES**

- NT1 helical waveguides
- RT cyclic accelerators
- RT electrical equipment
- RT gratings
- RT microwave equipment
- RT standing waves
- RT travelling waves

**wavelength dependence**

INIS: 1984-04-04; ETDE: 2002-05-24

- USE frequency dependence

**WAVELENGTHS**

INIS: 1998-02-26; ETDE: 1975-09-12

If the frequency of the wave is known, see the descriptor for the specific frequency range listed under FREQUENCY RANGE.

(Prior to July 1986 FREQUENCY RANGE was used for this concept.)

- NT1 de broglie wavelength
- RT frequency range
- RT infrared radiation
- RT standing waves

- RT wave propagation

**waves (shock)**

- USE shock waves

**waves (standing)**

- USE standing waves

**waves (travelling)**

- USE travelling waves

**waw**

- INIS: 1988-02-02; ETDE: 2002-05-24
- USE wackersdorf reprocessing plant

**WAXES**

1997-06-17

- UF montan waxes
- UF santowax
- \*BT1 other organic compounds
- NT1 carbowax
- NT1 paraffin
- RT dewaxing

**way of life**

INIS: 2000-04-05; ETDE: 1978-11-14

(From November 1978 till March 1997 LIFE STYLES and QUALITY OF LIFE were valid ETDE descriptors.)

- SEE behavior
- SEE standard of living

**way-wigner formula**

1996-07-15

(Until June 1996 this was a valid descriptor.)

- SEE beta decay

**waz 16**

INIS: 2000-04-12; ETDE: 1979-08-09

- USE nickel base alloys

**weak boson**

2000-03-29

- SEE intermediate vector bosons

**WEAK CHARGED CURRENTS**

INIS: 1976-08-17; ETDE: 1976-11-01

- \*BT1 charged currents
- RT weak neutral currents

**WEAK-COUPLING MODEL**

- \*BT1 nuclear models
- RT coupling
- RT particle-hole model
- RT shell models
- RT strong-coupling model

**WEAK HADRONIC DECAY**

INIS: 1978-02-23; ETDE: 1978-05-01

Decay of hadrons due to weak interactions.

- UF non-leptonic decay
- UF nonleptonic decay
- \*BT1 weak particle decay
- RT semileptonic decay
- RT weak interactions

**WEAK INTERACTIONS**

1996-07-18

(Prior to March 1997 FEINBERG-PAIS THEORY was a valid ETDE descriptor.)

- SF feinberg-pais theory
- SF peratization procedure
- \*BT1 fundamental interactions
- NT1 fermi interactions
- NT1 leptonic decay
- RT cabibbo angle
- RT charged currents
- RT electron-quark interactions
- RT goldberger-treiman relation
- RT grand unified theory
- RT lepton-hadron interactions
- RT lepton-lepton interactions

- RT neutral currents
- RT neutrino oscillation
- RT photon-lepton interactions
- RT second-class currents
- RT standard model
- RT weak hadronic decay
- RT weak neutral currents
- RT weak particle decay
- RT weinberg angle

**WEAK NEUTRAL CURRENTS**

1995-08-10

- \*BT1 neutral currents
- RT weak charged currents
- RT weak interactions
- RT weyl unified theory

**WEAK PARTICLE DECAY**

INIS: 1978-02-23; ETDE: 1978-05-01

- \*BT1 particle decay
- NT1 leptonic decay
- NT1 semileptonic decay
- NT1 weak hadronic decay
- RT radiative decay
- RT weak interactions

**weakly cemented formations**

2009-12-21

- USE unconsolidated rock

**weakly interacting massive particles**

2013-11-07

- USE wimps

**WEAKLY IONIZED GASES**Ionization factor under  $10(-4)$ .

- \*BT1 ionized gases

**WEAPONS**

INIS: 2000-04-12; ETDE: 1975-12-16

- NT1 biological warfare agents
- NT1 bombs
- NT1 chemical warfare agents
- NT1 directed-energy weapons
- NT2 laser weapons
- NT1 nuclear weapons
- NT2 enhanced radiation weapons
- NT2 little boy
- NT1 radiological dispersal devices
- RT ammunition
- RT arms control
- RT penetrators

**WEAR**

- RT abrasion
- RT bearings
- RT erosion
- RT friction
- RT gears
- RT grinding
- RT mechanical tests
- RT rolling friction
- RT tribology
- RT wear resistance

**WEAR RESISTANCE**

- SF durability
- BT1 mechanical properties
- RT gears
- RT wear

**WEATHER**

- RT atmospheric precipitations
- RT climates
- RT clouds
- RT droughts
- RT forecasting
- RT frost
- RT hail
- RT hurricanes
- RT meteorology
- RT natural disasters

RT seasons  
 RT storms  
 RT tornadoes  
 RT wind

**WEATHERING**

INIS: 1999-01-21; ETDE: 1976-02-19

*Physical disintegration and chemical decomposition (as of earthy and rocky materials) on exposure to atmospheric agents.*

RT aging  
 RT corrosion  
 RT decomposition

**WEATHERIZATION**

INIS: 1997-06-19; ETDE: 1979-07-18

*Protection from the effects of weather.*

SF caulking  
 RT buildings  
 RT storm doors  
 RT storm windows  
 RT thermal insulation  
 RT weatherstripping

**WEATHERSTRIPPING**

INIS: 2000-04-12; ETDE: 1977-06-21

BT1 materials  
 RT air infiltration  
 RT gaskets  
 RT thermal insulation  
 RT weatherization

**web growth method**

INIS: 2000-04-12; ETDE: 1980-02-11

USE dendritic web growth method

**WEBSITES**

2006-11-29

BT1 document types

**wecs**

INIS: 1991-08-16; ETDE: 1981-08-04

*Wind energy conversion systems.*

USE wind turbines

**WEDDELL SEA**

INIS: 1992-06-04; ETDE: 1984-08-06

*An arm of the southern Atlantic Ocean in Antarctica.*

\*BT1 antarctic ocean  
 \*BT1 atlantic ocean

**WEEDS**

BT1 plants  
 RT gramineae  
 RT herbicides

**weevils**

USE beetles

**wega device**

INIS: 1977-06-13; ETDE: 2002-05-24

USE wega stellarator

**WEGA STELLARATOR**

UF wega device  
 UF wega tokamak  
 \*BT1 stellarators  
 RT tokamak devices

**wega tokamak**

INIS: 1977-06-13; ETDE: 2002-05-24

USE wega stellarator

**WEIERSTRASS FUNCTIONS**

INIS: 2000-04-12; ETDE: 1976-01-23

BT1 functions  
 RT mathematics

**weighing**

(From February 1978 till March 1997  
 WEIGHT MEASUREMENT was used for  
 this concept in ETDE.)  
 USE weight

**WEIGHT**

(From February 1978 till March 1997  
 WEIGHT MEASUREMENT was a valid  
 ETDE descriptor.)

UF weighing  
 UF weight measurement  
 RT density  
 RT mass  
 RT molecular weight  
 RT weight indicators

**WEIGHT INDICATORS**

BT1 measuring instruments  
 NT1 balances  
 NT2 microbalances  
 RT densimeters  
 RT weight

**weight measurement**

INIS: 2000-04-12; ETDE: 1978-02-14

(Prior to March 1997 this was a valid ETDE  
 descriptor.)

USE weight

**WEIGHTING FUNCTIONS**

BT1 functions  
 RT kriging  
 RT statistics

**WEIGHTLESSNESS**

INIS: 1999-07-30; ETDE: 1981-12-21

UF zero gravity  
 RT gravitation  
 RT space flight

**WEIL EQUATION**

BT1 equations  
 RT spin

**WEINBERG ANGLE**

INIS: 1995-08-10; ETDE: 1985-07-23

*A parameter in the standard model of the  
 electroweak interaction that is used to  
 describe neutral-current weak interactions.*

UF electroweak mixing angle  
 BT1 mixing angle  
 RT charged-current interactions  
 RT intermediate vector bosons  
 RT mixing ratio  
 RT neutral-current interactions  
 RT standard model  
 RT weak interactions

**weinberg lepton model**

1995-08-10

(Until July 1995 this was a valid term.)

USE weinberg-salam gauge model

**weinberg model**

1995-08-10

(Prior to November 1995 WEINBERG  
 LEPTON MODEL was used for this concept  
 in ETDE.)

USE weinberg-salam gauge model

**WEINBERG-SALAM GAUGE MODEL**

INIS: 1995-08-10; ETDE: 1976-10-13

(Until July 1995 this concept was indexed by  
 WEINBERG LEPTON MODEL.)

UF electroweak interaction model  
 UF electroweak model  
 UF salam-weinberg gauge model  
 UF standard electroweak model  
 UF weinberg lepton model

UF weinberg model  
 \*BT1 unified field theories  
 \*BT1 unified gauge models  
 RT grand unified theory  
 RT quantum flavordynamics  
 RT standard model

**WEIR OIL RECOVERY SYSTEMS**

INIS: 2000-04-12; ETDE: 1978-01-23

\*BT1 pollution control equipment  
 RT oil spills  
 RT water pollution control

**WEISSENBERG METHOD**

RT rotating crystal method

**WEISSKOPF MODEL**

\*BT1 evaporation model

**weizsaecker-fermi formula**

USE weizsaecker formula

**WEIZSAECKER FORMULA**

UF bethe-weizsaecker relation  
 UF weizsaecker-fermi formula  
 RT liquid drop model  
 RT mass number

**WELDABILITY**

RT welding

**WELDED JOINTS**

(From January 1975 until March 1996 LAP

WELDS was a valid ETDE descriptor.)

UF butt welds  
 UF lap welds  
 UF seam welds  
 UF spot welds  
 UF welds  
 BT1 joints  
 RT welding

**WELDING**

*All endothermic processes for material  
 joining.*

UF fusion (welding)  
 UF seam welding  
 UF spot welding  
 UF stud welding  
 \*BT1 joining  
 NT1 arc welding  
 NT2 gas metal-arc welding  
 NT3 gas tungsten-arc welding  
 NT2 plasma arc welding  
 NT2 shielded metal-arc welding  
 NT2 submerged arc welding  
 NT1 brazing  
 NT1 diffusion welding  
 NT1 electron beam welding  
 NT1 electroslag welding  
 NT1 explosion welding  
 NT1 forge welding  
 NT1 friction welding  
 NT1 gas welding  
 NT1 induction welding  
 NT1 laser welding  
 NT1 magnetic force welding  
 NT1 resistance welding  
 NT2 flash welding  
 NT1 soldering  
 NT1 ultrasonic welding  
 NT1 vacuum welding  
 RT filler metals  
 RT heat affected zone  
 RT melting  
 RT metallurgical flux  
 RT self-welding  
 RT thermite process  
 RT weldability  
 RT welded joints  
 RT welding machines  
 RT welding rods

**welding fluxes**

(Prior to March 1997 this was a valid ETDE descriptor.)

USE metallurgical flux

**WELDING MACHINES**

RT welding  
RT welding rods

**WELDING RODS**

RT welding  
RT welding machines

**welds**

USE welded joints

**well bore damage**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**WELL CASINGS**

1992-05-26

UF casings (well)  
BT1 equipment  
RT cementing  
RT pipes  
RT wells

**WELL COMPLETION**

INIS: 1992-09-03; ETDE: 1976-03-11

Final sealing-off of a drilled well, after drilling apparatus is removed, with valving, safety, and flow-control devices.

RT cementing  
RT grouting  
RT hydraulic equipment  
RT natural gas wells  
RT oil wells  
RT perforation  
RT propping agents  
RT sand consolidation  
RT well drilling  
RT wellheads

**WELL DRILLING**

1992-02-21

BT1 drilling  
RT cuttings removal  
RT directional drilling  
RT drilling equipment  
RT drilling rigs  
RT drills  
RT exploratory wells  
RT geothermal wells  
RT hydraulic equipment  
RT mwd systems  
RT rock drilling  
RT rotary drilling  
RT rotary drills  
RT spark drills  
RT well completion  
RT wells

**WELL INJECTION EQUIPMENT**

INIS: 2000-04-12; ETDE: 1984-03-19

\*BT1 field production equipment  
RT natural gas fields  
RT natural gas wells  
RT oil fields  
RT oil wells

**WELL LOGGING**

Detailed recording of a physical property of a well or borehole as a function of depth.

UF hydrocarbon logging  
NT1 caliper logging  
NT1 chemical logging  
NT1 dipmeter logging  
NT1 electric logging  
NT2 induced polarization logging  
NT2 induction logging

NT2 resistivity logging

NT2 sp logging

NT1 gravity logging

NT1 nuclear magnetic logging

NT1 production logging

NT1 radioactivity logging

NT2 gamma-gamma logging

NT2 gamma logging

NT2 neutron logging

NT3 neutron-gamma logging

NT3 neutron-neutron logging

NT2 radioactive tracer logging

NT2 x-ray fluorescence logging

NT1 sonic logging

NT1 temperature logging

RT boreholes

RT borescopes

RT drill cores

RT geophysical surveys

RT mwd systems

RT well logging equipment

**WELL LOGGING EQUIPMENT**

INIS: 1980-04-02; ETDE: 1979-03-27

Limited to equipment based on nuclear techniques or used in exploration of materials of nuclear interest.

BT1 equipment  
RT geothermal exploration  
RT mwd systems  
RT natural gas deposits  
RT petroleum deposits  
RT probes  
RT radiation detectors  
RT radiation sources  
RT well logging

**well maintenance**

INIS: 1992-03-05; ETDE: 1981-05-18

USE well servicing

**WELL PRESSURE**

INIS: 2000-01-24; ETDE: 1978-08-08

UF bottom-hole pressure

BT1 reservoir pressure  
RT geothermal wells  
RT natural gas wells

**well reconditioning**

INIS: 1992-03-05; ETDE: 1981-05-18

USE well servicing

**WELL RECOVERY EQUIPMENT**

INIS: 2000-04-12; ETDE: 1984-03-19

\*BT1 field production equipment

RT natural gas fields  
RT natural gas wells  
RT oil fields  
RT oil wells

**WELL SERVICING**

INIS: 1992-03-05; ETDE: 1981-05-18

UF well maintenance  
UF well reconditioning  
RT natural gas wells  
RT oil wells  
RT scrapers  
RT well stimulation

**well shooting**

INIS: 2000-04-12; ETDE: 1977-01-28

USE explosive stimulation

**well skin effect**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**WELL SPACING**

INIS: 2000-04-12; ETDE: 1976-07-07

Area location and interrelationship between wells, such as producing oil, natural gas, or

geothermal wells in a field or wells used for radioactive wastes; may be calculated for the maximum ultimate production from a given reservoir.

RT geothermal fields  
RT natural gas fields  
RT oil fields

**WELL STIMULATION**

1999-04-16

One of the techniques to increase oil or gas reservoir production such as acidizing, fracturing, controlled underground explosions, or various cleaning techniques.

BT1 stimulation  
NT1 explosive stimulation  
RT acidization  
RT carbon dioxide injection  
RT displacement fluids  
RT enhanced recovery  
RT fluid injection  
RT fracturing fluids  
RT gas injection  
RT hydraulic fracturing  
RT microemulsion flooding  
RT microemulsions  
RT natural gas wells  
RT oil wells  
RT steam injection  
RT waterflooding  
RT well servicing

**WELL TEMPERATURE**

INIS: 1992-07-21; ETDE: 1978-12-11

BT1 reservoir temperature  
RT temperature measurement

**WELLHEAD PRICES**

INIS: 1992-04-09; ETDE: 1979-06-06

Prices paid at the wellhead for gas or oil produced.

BT1 prices  
RT natural gas wells  
RT oil wells

**WELLHEADS**

INIS: 1992-04-09; ETDE: 1977-01-28

UF christmas trees  
\*BT1 field production equipment  
RT geothermal wells  
RT natural gas wells  
RT oil wells  
RT well completion

**WELLMAN-GALUSHA PROCESS**

2000-04-12

Crushed coal and oxygen-steam mixture are introduced through revolving grate at bottom of gasifier available with or without agitator. Raw gas of 270 btu/scf is produced.

\*BT1 coal gasification

**WELLMAN-INCANDESCENT PROCESS**

INIS: 2000-04-12; ETDE: 1978-04-27

This two-stage gasifier is nearly identical to the IFE two-stage gasifier that was commercially available until the late 1950's from the International Furnace Equipment Co. Ltd.

\*BT1 coal gasification  
RT gas generators

**wellman-lord process**

2000-04-12

USE w-1 sulfur dioxide recovery process

**WELLS**

1976-05-07

NT1 abandoned wells  
NT1 disposal wells

**NT1** dry holes  
**NT1** exploratory wells  
**NT1** gas condensate wells  
**NT1** geothermal wells  
**NT1** injection wells  
**NT1** natural gas wells  
**NT1** oil wells  
**NT1** water wells  
**RT** blowouts  
**RT** boreholes  
**RT** drilling  
**RT** formation damage  
**RT** perforation  
**RT** well casings  
**RT** well drilling

### welton method

USE feynman method

### WENDELL-AMEDEE HOT SPRINGS

INIS: 2000-04-12; ETDE: 1985-12-13

**BT1** kgra  
**RT** california  
**RT** geothermal fields

### WENDELSTEIN-2B STELLARATOR

INIS: 1976-07-06; ETDE: 1976-08-25

**SF** w stellarators  
**\*BT1** stellarators

### WENDELSTEIN-7 STELLARATOR

**SF** w stellarators  
**\*BT1** stellarators

### WENDS

INIS: 1979-12-20; ETDE: 1980-01-24

World ENergy Data System.  
**UF** world energy data system  
**BT1** information systems  
**RT** energy policy

### WENRA

INIS: 1999-04-28; ETDE: 1999-05-03  
 Western European Nuclear Regulators Association.

**BT1** international organizations

### wentzel-kramers-brillouin approximation

USE wkb approximation

### west coast

INIS: 1992-06-04; ETDE: 1979-12-10  
 (Prior to December 1991 this was a valid ETDE descriptor.)

USE us west coast

### west germany

INIS: 2000-04-12; ETDE: 1979-05-25

USE federal republic of germany

### WEST INDIES

**BT1** islands  
**NT1** bahama islands  
**NT1** greater antilles  
**NT2** cuba  
**NT2** hispaniola  
**NT3** dominican republic  
**NT3** haiti  
**NT2** jamaica  
**NT2** puerto rico  
**NT1** lesser antilles  
**NT2** antigua and barbuda  
**NT2** barbados  
**NT2** grenada  
**NT2** martinique  
**NT2** netherlands antilles  
**NT2** saint kitts and nevis  
**NT2** trinidad and tobago  
**NT2** virgin islands  
**NT1** saint lucia  
**NT1** saint vincent and the grenadines

**RT** caribbean sea  
**RT** latin america

### WEST VALLEY PROCESSING PLANT

**\*BT1** fuel reprocessing plants

### WEST VALLEY UF6 FACILITY

INIS: 1985-07-19; ETDE: 1976-08-24

**\*BT1** feed materials plants

### WEST VIRGINIA

**\*BT1** usa  
**RT** monongahela river basin  
**RT** ohio river  
**RT** potomac river  
**RT** potomac river basin

### WESTERN AREA POWER ADMINISTRATION

INIS: 1996-07-16; ETDE: 1980-03-29

**UF** wapa  
**\*BT1** us doe  
**RT** electric power

### WESTERN AUSTRALIA

**\*BT1** australia  
**RT** yeelirrie deposit

### WESTERN EUROPE

INIS: 1995-04-03; ETDE: 1993-08-31

(Prior to July 1991 this was a valid ETDE descriptor. From July 1991 to August 1993 this concept was indexed to EUROPE in ETDE.)

**BT1** europe  
**NT1** austria  
**NT1** belgium  
**NT1** federal republic of germany  
**NT1** france  
**NT2** reunion island  
**NT1** greece  
**NT1** holy see  
**NT1** iceland  
**NT1** ireland  
**NT1** italy  
**NT2** appennines  
**NT2** sicily  
**NT1** luxembourg  
**NT1** malta  
**NT1** monaco  
**NT1** netherlands  
**NT1** portugal  
**NT2** azores islands  
**NT1** san marino  
**NT1** scandinavia  
**NT2** denmark  
**NT2** finland  
**NT2** norway  
**NT2** sweden  
**NT1** spain  
**NT2** canary islands  
**NT1** switzerland  
**NT1** united kingdom

### western new york nuclear research reactor

1993-11-10

USE pulstar-buffalo reactor

### western region

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

### WESTERN US OVERTHRUST BELT

INIS: 2000-04-12; ETDE: 1982-07-27

**UF** overthrust belt  
**UF** rocky mountain overthrust belt  
**RT** idaho

**RT** montana  
**RT** natural gas deposits  
**RT** petroleum deposits  
**RT** utah  
**RT** wyoming

### WESTINGHOUSE GASIFICATION PROCESS

INIS: 2000-04-12; ETDE: 1979-02-23

The process involves two stages: fluidized-bed gasifier and recirculating-bed devolatilizer.

**\*BT1** coal gasification  
**RT** krw gasification process

### westinghouse nuclear training reactor

INIS: 1993-11-10; ETDE: 1980-03-04

USE wntr reactor

### WESTINGHOUSE RECYCLE FUELS PLANT

**\*BT1** fuel fabrication plants  
**\*BT1** fuel reprocessing plants  
**RT** fuel cycle

### WESTINGHOUSE STANDARD REACTOR

1975-10-29

USA.

(Prior to 1975, PWR/41 TYPE REACTORS was used.)

**UF** pwr/41 type reactors  
**\*BT1** pwr type reactors  
**RT** bopssar standard plant  
**RT** gibbssar standard plant

### westinghouse testing reactor

USE wtr reactor

### westvaco process

2000-04-12

Process uses dry activated carbon to remove sulfur dioxide from waste gases.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

### WET ASHING

**UF** ashing (wet)  
**RT** combustion  
**RT** sample preparation  
**RT** waste processing

### wet deposition

INIS: 2000-04-12; ETDE: 1980-01-15

USE washout

### WET OXIDATION PROCESSES

INIS: 1994-07-01; ETDE: 1984-10-10

**\*BT1** waste processing  
**RT** liquid wastes  
**RT** oxidation

### WET SCRUBBERS

2013-11-27

**\*BT1** scrubbers  
**NT1** venturi scrubbers  
**RT** desulfurization  
**RT** flue gas

### WET STORAGE

INIS: 1996-04-16; ETDE: 1997-05-29

**BT1** storage  
**RT** dry storage  
**RT** radioactive waste storage  
**RT** spent fuel storage

### wet-type cooling towers

2000-04-12

USE cooling towers  
 USE open-cycle cooling systems

**WETLANDS**

INIS: 1992-05-08; ETDE: 1981-04-17

- UF peatlands
- \*BT1 aquatic ecosystems
- NT1 marshes
- NT1 swamps
- RT river deltas
- RT surface waters

**WETTABILITY**

- RT surface properties
- RT waterproofing
- RT wetting agents

**WETTING AGENTS**

- BT1 surfactants
- NT1 detergents
- NT2 pluronics
- RT wettability

**WETTING HEAT**

INIS: 2000-04-12; ETDE: 1984-11-08

Heat change that occurs when a powder is wet by a liquid.

- UF heat of wetting
- RT absorption heat
- RT reaction heat

**WEYBURN FIELD**

2008-06-10

Petroleum deposit now being studied as a possible site for carbon sequestration.

- \*BT1 oil fields
- RT carbon sequestration
- RT saskatchewan

**weyl field**

- USE weyl unified theory

**WEYL SPINORS**

2016-05-10

- BT1 spinors

**WEYL UNIFIED THEORY**

- UF weyl field
- \*BT1 unified field theories
- RT electromagnetic fields
- RT gravitational fields
- RT weak neutral currents

**whales**

INIS: 1991-09-30; ETDE: 1981-06-15

- USE cetaceans

**WHEAT**

- UF triticum
- \*BT1 cereals

**WHEELS**

INIS: 2000-01-24; ETDE: 1978-12-28

- NT1 water wheels
- RT gears
- RT tires
- RT vehicles

**WHETSTONE OPERATION**

INIS: 2000-04-12; ETDE: 1979-11-23

- \*BT1 nuclear explosions
- \*BT1 underground explosions
- RT contained explosions

**WHEY**

INIS: 1993-07-19; ETDE: 1978-08-08

Watery part of milk separated from the curd in the process of making cheese.

- \*BT1 milk products
- RT cheese
- RT food industry
- RT milk

**WHISKERS**

- \*BT1 monocrystals

**WHISTLER INSTABILITY**

INIS: 1988-11-16; ETDE: 1985-10-25

- UF whistler mode
- \*BT1 plasma macroinstabilities
- RT beam-plasma systems
- RT plasma waves

**whistler mode**

INIS: 1988-11-16; ETDE: 2002-05-24

- USE whistler instability

**WHISTLERS**

- \*BT1 radio noise
- RT atmospheric
- RT auroral hiss
- RT lightning

**white copper**

1996-06-28

(Prior to July 1996 GERMAN SILVER was a valid ETDE descriptor.)

- USE copper base alloys
- USE nickel alloys
- USE zinc alloys

**WHITE DWARF STARS**

- \*BT1 dwarf stars

**WHITE HOLES**

INIS: 1977-10-17; ETDE: 1976-06-07

A time-reversed black hole, an expanding source with growing intensity and photon energy.

- RT black holes
- RT cosmology
- RT origin
- RT stars

**WHITE RIVER**

2000-04-12

Not related to White River Basin, a geographically separate area in Arkansas and Missouri.

- \*BT1 rivers
- RT colorado
- RT utah

**WHITE RIVER BASIN**

INIS: 2000-04-12; ETDE: 1977-11-28

Not related to White River, a river flowing in Colorado and Utah.

- RT arkansas
- RT missouri

**WHITE RIVER SHALE PROJECT**

INIS: 2000-04-12; ETDE: 1976-03-11

- RT oil shales
- RT utah

**WHITE SANDS SOLAR FACILITY**

INIS: 2000-04-12; ETDE: 1981-10-24

The US Army Solar Test Facility in White Sands, New Mexico.

- BT1 test facilities
- RT solar furnaces

**whiteshell-1 reactor**

- USE wr-1 reactor

**whiteshell nuclear research establishment**

- USE wnre

**WHO**

- UF world health organization
- BT1 international organizations
- RT medicine
- RT united nations

**WHOLE-BODY COUNTERS**

- \*BT1 radiation detectors
- RT gamma spectrometers

- RT whole-body counting

**WHOLE-BODY COUNTING**

- BT1 counting techniques
- RT body
- RT personnel monitoring
- RT radiation protection
- RT radioactivity
- RT radionuclide kinetics
- RT retention
- RT whole-body counters

**WHOLE-BODY IRRADIATION**

- \*BT1 external irradiation
- RT body

**wholesale buyers**

INIS: 1992-04-03; ETDE: 1979-09-28

- USE resellers

**wholesale price index**

INIS: 2000-04-12; ETDE: 1979-09-27

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE wholesale prices

**WHOLESALE PRICES**

INIS: 1992-02-23; ETDE: 1979-06-06

(From September 1979 until March 1996 WHOLESAL PRICE INDEX was a valid ETDE descriptor.)

- UF producer price index
- UF wholesale price index
- BT1 prices
- RT retail prices

**wholesale sellers**

INIS: 1992-04-03; ETDE: 1979-09-28

- USE resellers

**wholesalers**

INIS: 1992-04-03; ETDE: 1979-09-28

- USE resellers

**WHOLESOMENESS**

- RT food
- RT preservation

**WICK-CHANDRASEKHAR METHOD**

1996-07-15

- BT1 calculation methods
- RT transport theory

**WICK METHOD**

1996-07-15

- RT neutron slowing-down theory
- RT slowing-down

**WICK THEOREM**

- RT many-body problem
- RT quantum field theory

**WIDE GAP SPARK CHAMBERS**

- \*BT1 spark chambers

**WIDMANSTÄTTEN STRUCTURE**

- BT1 microstructure
- RT phase transformations

**WIDOWS CREEK STEAM PLANT**

INIS: 2000-06-27; ETDE: 1976-08-04

- \*BT1 fossil-fuel power plants
- RT tennessee valley authority

**WIDTH**

For dimensions only: see also LEVEL WIDTHS, LINE WIDTHS, and PARTICLE WIDTHS.

- BT1 dimensions
- RT size

**WIEDEMANN-FRANZ LAW**

- RT electric conductivity



*RT* thermal conductivity  
**wiederaufarbeitungsanlage karlsruhe**  
*INIS: 1993-11-10; ETDE: 2002-05-24*  
*USE wak*

**wiederaufarbeitungsanlage wackersdorf**  
*INIS: 1993-11-10; ETDE: 2002-05-24*  
*USE wackersdorf reprocessing plant*

**WIGGLER MAGNETS**  
*INIS: 1999-07-02; ETDE: 1977-06-21*  
*UF undulators*  
*\*BT1 magnets*  
*RT synchrotron radiation*

**WIGHTMAN FIELD THEORY**  
*\*BT1 axiomatic field theory*

**WIGNER COEFFICIENTS**  
*UF 9j-symbols*  
*RT angular momentum*  
*RT clebsch-gordan coefficients*  
*RT group theory*  
*RT quantum mechanics*  
*RT racah coefficients*

**WIGNER DISTRIBUTION**  
*RT thermodynamics*

**WIGNER EFFECT**  
*RT graphite*  
*RT radiation effects*

**WIGNER-EISENBUD THEORY**  
*RT nuclear potential*

**WIGNER FORCE**  
*BT1 nuclear forces*

**wigner method**  
*USE peierls method*

**WIGNER SCATTERING**  
*\*BT1 elastic scattering*

**WIGNER-SEITZ METHOD**  
*BT1 calculation methods*  
*RT band theory*

**WIGNER THEORY**  
*RT quantum mechanics*

**WIGNER-WILKINS MODEL**  
*RT slowing-down*

**WILD ANIMALS**  
*UF wildlife*  
*BT1 animals*  
*RT coyotes*  
*RT foxes*  
*RT grazing*  
*RT home range*  
*RT rangelands*  
*RT wolves*

**wilderness areas**  
*INIS: 1992-03-30; ETDE: 1978-08-08*  
*USE nature reserves*

**WILDERNESS PROTECTION ACTS**  
*INIS: 1992-03-30; ETDE: 1983-03-23*  
*BT1 laws*  
*RT environment*  
*RT land use*  
*RT nature reserves*

**wildlife**  
 2013-11-13  
*For wild vegetation SEE PLANTS*  
*USE wild animals*

**WILKINS EQUATION**  
 1996-07-15  
*BT1 equations*  
*RT slowing-down*  
**wilkinson theory**  
 1996-07-15  
 (Until June 1996 this was a valid descriptor.)  
*SEE shell models*

**william h. zimmer-1 reactor**  
*USE zimmer-1 reactor*

**william h. zimmer-2 reactor**  
*INIS: 1980-02-26; ETDE: 1980-03-29*  
*USE zimmer-2 reactor*

**williams-weizsacker approximation**  
*USE equivalent-photon approximation*

**WILLISTON BASIN**  
*INIS: 1992-06-18; ETDE: 1986-02-21*  
*\*BT1 sedimentary basins*  
*RT manitoba*  
*RT montana*  
*RT north dakota*  
*RT petroleum deposits*  
*RT saskatchewan*  
*RT south dakota*

**WILLOWS**  
*INIS: 1992-01-13; ETDE: 1984-05-08*  
*\*BT1 magnoliopsida*  
*\*BT1 trees*

**wilputte process**  
*INIS: 2000-04-12; ETDE: 1978-04-27*  
*This gasifier is used for the gasification of various types of coal by partial combustion with air or oxygen at atmospheric pressure. The gasifier shell is brick-lined and is equipped with a Chapman drum feeder and agitator assembly. Supported under the shell, riding on three sets of rollers and guided by rollers, is the Koller-type revolving grate and ash pan.*  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
*USE coal gasification*

**WILSON LOOP**  
 1983-03-16  
*RT feynman path integral*  
*RT lattice field theory*  
*RT order parameters*  
*RT quantum chromodynamics*  
*RT yang-mills theory*

**WILZBACH METHOD**  
*BT1 labelling*  
*RT labelled compounds*

**WIMPS**  
 2013-11-07  
*UF weakly interacting massive particles*  
*\*BT1 postulated particles*  
*RT neutrinos*  
*RT nonluminous matter*

**WINCHES**  
 1999-07-07  
*\*BT1 materials handling equipment*  
*RT hoists*  
*RT materials handling*

**WIND**  
*RT advection*  
*RT air*  
*RT atmospheric circulation*  
*RT climates*  
*RT fallout*  
*RT gyres*

*RT hurricanes*  
*RT jet stream*  
*RT meteorology*  
*RT natural disasters*  
*RT particle resuspension*  
*RT radioactive clouds*  
*RT sails*  
*RT tornadoes*  
*RT turbulence*  
*RT weather*  
*RT wind loads*

**wind energy conversion systems**  
*INIS: 1991-08-16; ETDE: 1981-07-18*  
*USE wind turbines*

**wind farms**  
*INIS: 1992-04-08; ETDE: 1985-08-22*  
*USE wind turbine arrays*

**wind generators**  
*INIS: 2000-04-12; ETDE: 1976-03-22*  
*USE electric generators*  
*USE wind turbines*

**WIND LOADS**  
*INIS: 1992-07-22; ETDE: 1980-03-29*  
*BT1 dynamic loads*  
*RT high-rise buildings*  
*RT storms*  
*RT stresses*  
*RT wind*

**WIND POWER**  
 1982-12-07  
*BT1 power*  
*\*BT1 renewable energy sources*  
*RT wind power industry*  
*RT wind turbines*

**WIND POWER INDUSTRY**  
*INIS: 1992-02-04; ETDE: 1981-07-18*  
*BT1 industry*  
*RT wind power*

**WIND POWER PLANTS**  
*INIS: 1992-04-08; ETDE: 1976-03-22*  
*Wind turbines supplying electric power to a grid.*  
*BT1 power plants*  
*NT1 efd wind generators*  
*RT wind turbine arrays*

**WIND-POWERED PUMPS**  
*INIS: 1992-04-08; ETDE: 1978-09-11*  
*Wind-mechanical pumps only, for wind-electric pumps use WIND TURBINES and PUMPS.*  
*\*BT1 pumps*  
*RT wind turbines*

**WIND TUNNELS**  
*BT1 equipment*  
*RT aerodynamics*  
*RT ducts*  
*RT supersonic flow*  
*RT tunnels*

**WIND TURBINE ARRAYS**  
*INIS: 1992-04-08; ETDE: 1985-08-22*  
*UF wind farms*  
*RT wind power plants*

**WIND TURBINES**  
 1991-08-16  
*UF wecs*  
*UF wind energy conversion systems*  
*UF wind generators*  
*\*BT1 turbines*  
*NT1 diffuser augmented turbines*  
*NT1 horizontal axis turbines*  
*NT1 vertical axis turbines*

**NT2** giromill turbines

**NT2** tornado turbines

**NT1** vortex augmented turbines

*RT* solar chimneys

*RT* tilt mechanisms

*RT* tipvane rotors

*RT* troposkien shape

*RT* water brakes

*RT* wind power

*RT* wind-powered pumps

## WINDFALL PROFITS TAX

*INIS: 2000-04-12; ETDE: 1979-12-10*

**BT1** taxes

*RT* petroleum industry

*RT* profits

*RT* us economic recovery tax act

## WINDING MACHINES

*INIS: 1999-07-07; ETDE: 1979-05-02*

*Equipment for winding coils.*

**\*BT1** machinery

*RT* electric coils

*RT* magnet coils

## WINDOW FRAMES

*INIS: 2004-11-03; ETDE: 2004-10-29*

*RT* buildings

*RT* windows

## WINDOWS

**BT1** openings

**NT1** storm windows

*RT* bead walls

*RT* buildings

*RT* curtains

*RT* daylighting

*RT* double glazing

*RT* glazing materials

*RT* heat mirrors

*RT* shutters

*RT* skylights

*RT* solar control films

*RT* triple glazing

*RT* window frames

## windscale advanced gas-cooled reactor

*1993-11-10*

USE wagr reactor

## WINDSCALE PRODUCTION REACTORS

**\*BT1** air cooled reactors

**\*BT1** graphite moderated reactors

**\*BT1** natural uranium reactors

**\*BT1** plutonium production reactors

**\*BT1** thermal reactors

## windscale reprocessing plant

*INIS: 1984-06-21; ETDE: 1984-07-10*

USE sellafeld reprocessing plant

## wine

USE beverages

## WINKLER PROCESS

*2000-04-12*

*Davy-Powergas Inc. process for producing intermediate- or high-btu gas that utilizes a fluidized bed gasifier operating at 1500-1850 degrees F and using oxygen and steam. Substitution of air for oxygen will produce low-btu gas.*

*RT* sng processes

## WINOS

*2013-08-26*

**\*BT1** sparticles

*RT* w minus bosons

*RT* w plus bosons

## winston collectors

*INIS: 2000-04-12; ETDE: 1976-11-17*

USE compound parabolic concentrators

## WIPP

*INIS: 1985-04-22; ETDE: 1984-10-10*

*UF* waste isolation pilot plant

**\*BT1** pilot plants

**\*BT1** radioactive waste facilities

**BT1** underground facilities

**\*BT1** us doe

*RT* alpha-bearing wastes

*RT* high-level radioactive wastes

*RT* new mexico

*RT* salt deposits

## WIRE SPARK CHAMBERS

**\*BT1** filmless spark chambers

*RT* multiwire proportional chambers

## WIRES

**NT1** exploding wires

**NT1** superconducting wires

*RT* chains

*RT* filaments

*RT* rods

*RT* ropes

## wires (fuel)

USE fuel wires

## WISCONSIN

*1997-06-17*

**\*BT1** usa

*RT* menominee river

*RT* mississippi river

## wisconsin point beach-1 reactor

*INIS: 1993-11-10; ETDE: 2002-05-24*

USE point beach-1 reactor

## wisconsin point beach-2 reactor

*INIS: 1993-11-10; ETDE: 2002-05-24*

USE point beach-2 reactor

## wisconsin public service power reactor

*1993-11-10*

USE kewaunee reactor

## wisconsin university nuclear reactor

*INIS: 1993-11-10; ETDE: 2002-05-24*

USE uwnr reactor

## wisconsin university tokamak

*ETDE: 2002-05-24*

USE uwmak devices

## wisconsin utilities project-3 reactor

*INIS: 1993-11-10; ETDE: 2002-05-24*

USE wup-3 reactor

## wisconsin utilities project-4 reactor

*INIS: 1993-11-10; ETDE: 2002-05-24*

USE wup-4 reactor

## wisconsin utilities project-5 reactor

*INIS: 1993-11-10; ETDE: 2002-05-24*

USE wup-5 reactor

## wisconsin utilities project-6 reactor

*INIS: 1993-11-10; ETDE: 2002-05-24*

USE wup-6 reactor

## WITWATERSRAND

**BT1** mountains

*RT* transvaal

## WKB APPROXIMATION

*UF* wentzel-kramers-brillouin approximation

**\*BT1** approximations

*RT* scattering

## WMO

*2001-07-17*

*UF* world meteorological organization

**BT1** international organizations

*RT* climates

*RT* meteorology

*RT* united nations

## WNP-1 REACTOR

*Washington Public Power Supply System, Richland, Washington, USA. Canceled in 1995 after construction began (1978).*

*UF* washington public power supply system-1 reactor

*UF* wppss nuclear project no. 1

**\*BT1** pwr type reactors

*RT* n-reactor

## WNP-2 REACTOR

*Energy Northwest, Richland, Washington, USA.*

*(Prior to August 2005 the old name*

*HANFORD-2 REACTOR was also a valid descriptor.)*

*UF* columbia generating station

*UF* hanford-2 reactor

*UF* washington public power supply system-2 reactor

*UF* wppss nuclear project no. 2

**\*BT1** bwr type reactors

## WNP-3 REACTOR

*Washington Public Power Supply System, Satsop, Washington, USA. Canceled in 1995 after construction began (1978).*

*UF* washington public power supply system-3 reactor

*UF* wppss nuclear project no. 3

**\*BT1** pwr type reactors

## WNP-4 REACTOR

*1975-08-20*

*Washington Public Power Supply System, Richland, Washington, USA. Canceled in 1982 after construction began (1975).*

*UF* washington public power supply system-4 reactor

*UF* wppss nuclear project no. 4

**\*BT1** pwr type reactors

## WNP-5 REACTOR

*Washington Public Power Supply System, Satsop, Washington, USA. Canceled in 1982 after construction began (1977).*

*UF* washington public power supply system-5 reactor

*UF* wppss nuclear project no. 5

**\*BT1** pwr type reactors

## WNRE

*UF* whiteshell nuclear research establishment

**\*BT1** atomic energy of canada ltd

## WNTR REACTOR

*INIS: 1985-04-22; ETDE: 1980-03-04*

*Westinghouse Electric Corp. Zion, Illinois, USA. Shut down in 1987.*

*UF* westinghouse nuclear training reactor

**\*BT1** enriched uranium reactors

**\*BT1** fast reactors

**\*BT1** tank type reactors

**\*BT1** training reactors

**\*BT1** water cooled reactors

**\*BT1** water moderated reactors

**WOLF CREEK-1 REACTOR**

1975-10-29  
*Wolf Creek Nuclear Operating Corp.,  
 Burlington, Kansas, USA.*  
 \*BT1 pwr type reactors

**WOLF-RAYET STARS**

\*BT1 main sequence stars

**WOLFENSTEIN PARAMETERS**

BT1 dimensionless numbers  
 RT interactions  
 RT nucleons

**wolfram**

USE tungsten

**WOLFRAMITE**

\*BT1 oxide minerals  
 RT iron oxides  
 RT tungsten oxides

**wolframophosphoric acid**

USE tungstophosphoric acid

**wolsong-1 reactor**

2017-10-30  
 USE wolsung-1 reactor

**wolsong-2 reactor**

2017-10-30  
 USE wolsung-2 reactor

**wolsong-3 reactor**

2017-10-30  
 USE wolsung-3 reactor

**wolsong-4 reactor**

2017-10-30  
 USE wolsung-4 reactor

**WOLSUNG-1 REACTOR**

INIS: 1978-02-23; ETDE: 1978-03-03  
 UF *wolsong-1 reactor*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors

**WOLSUNG-2 REACTOR**

INIS: 1991-12-11; ETDE: 1992-01-24  
 UF *wolsung-2 reactor*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors

**WOLSUNG-3 REACTOR**

1994-01-24  
 UF *wolsong-3 reactor*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors

**WOLSUNG-4 REACTOR**

1994-01-24  
 UF *wolsong-4 reactor*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors

**WOLVES**

INIS: 1993-07-20; ETDE: 1979-07-18  
 \*BT1 mammals  
 RT coyotes  
 RT dogs  
 RT foxes  
 RT wild animals

**WOMEN**

BT1 females  
 \*BT1 man  
 RT adults  
 RT gynecology  
 RT us affirmative action program

**WOOD**

UF *lightwood*  
 RT biomass  
 RT cork  
 RT creosote  
 RT delignification  
 RT fuels  
 RT harvesting  
 RT hemicellulose  
 RT lignin  
 RT paper industry  
 RT solid fuels  
 RT trees  
 RT wood-fuel power plants  
 RT wood fuels  
 RT wood-plastic composites  
 RT wood products industry  
 RT xylans  
 RT xylose

**wood alcohol**

USE methanol

**WOOD BURNING APPLIANCES**

INIS: 1993-01-22; ETDE: 1979-08-07  
 UF *stoves (wood burning)*  
 UF *wood stoves*  
 \*BT1 appliances  
 NT1 wood burning furnaces  
 RT ovens  
 RT stoves

**WOOD BURNING FURNACES**

INIS: 2000-04-12; ETDE: 1977-06-21  
 BT1 furnaces  
 \*BT1 wood burning appliances  
 RT space heating

**WOOD-FUEL POWER PLANTS**

INIS: 1993-01-22; ETDE: 1980-02-11  
 \*BT1 thermal power plants  
 RT wood  
 RT wood fuels

**WOOD FUELS**

INIS: 1992-04-09; ETDE: 1981-01-27  
 UF *firewood*  
 UF *fuelwood*  
 UF *wood pellets*  
 \*BT1 biofuels  
 \*BT1 solid fuels  
 RT biomass  
 RT charcoal  
 RT trees  
 RT wood  
 RT wood-fuel power plants

**WOOD METAL**

1993-10-03  
 \*BT1 alloy-bi50pb25cd12sn12

**WOOD OILS**

INIS: 2000-04-12; ETDE: 1984-09-21  
 \*BT1 oils  
 RT synthetic fuels

**wood pellets**

2004-09-14  
 USE pellets  
 USE wood fuels

**WOOD-PLASTIC COMPOSITES**

\*BT1 composite materials  
 RT organic polymers  
 RT wood

**WOOD PRODUCTS INDUSTRY**

INIS: 1992-03-10; ETDE: 1978-10-30  
*Industry producing products made from wood,  
 including lumber.*  
 UF *lumber industry*  
 BT1 industry

NT1 paper industry  
 RT forestry  
 RT furniture industry  
 RT harvesting equipment  
 RT printing and publishing industry  
 RT wood

**wood stoves**

INIS: 2000-04-12; ETDE: 1993-01-20  
 USE stoves  
 USE wood burning appliances

**WOOD WASTES**

INIS: 1992-03-16; ETDE: 1975-10-01  
 UF *hog fuel*  
 \*BT1 organic wastes  
 \*BT1 solid wastes  
 RT bark

**WOODALL-DUCKHAM PROCESS**

INIS: 2000-04-12; ETDE: 1977-08-24  
*A two-stage fixed bed process with volatile  
 matter removed at low temperature in the first  
 stage and semicoke or char gasified at higher  
 temperatures in the second stage to produce a  
 low btu gas.*

\*BT1 coal gasification  
 RT low btu gas

**WOODS-SAXON POTENTIAL**

UF *saxon-woods potential*  
 \*BT1 nuclear potential  
 RT optical models

**WOOL**

RT fibers  
 RT textiles

**wool fat**

1996-10-23  
 (Prior to March 1997 LANOLIN was used for  
 this concept in ETDE.)  
 USE esters  
 USE lipids  
 USE sterols

**worcester polytechnic institute pool reactor**

1993-11-10  
 USE wpir reactor

**WORK**

(From August 1977 to March 1997 LABOR  
 was a valid ETDE descriptor.)

SF *labor*  
 RT automation  
 RT employment  
 RT ilo  
 RT occupational diseases  
 RT occupations  
 RT personnel  
 RT remote handling  
 RT wages  
 RT working conditions  
 RT working days

**WORK FUNCTIONS**

BT1 functions  
 RT binding energy  
 RT electron emission  
 RT electron tubes  
 RT energy  
 RT metals  
 RT surface potential

**work hardening**

USE strain hardening

**work softening**

1977-07-05  
 USE strain softening

**workers**

USE personnel

**working (materials)**

USE materials working

**WORKING CONDITIONS**

RT air conditioning  
 RT alara  
 RT human factors engineering  
 RT icrp critical group  
 RT industrial medicine  
 RT labor relations  
 RT occupational diseases  
 RT occupational safety  
 RT radiation protection  
 RT safety  
 RT us occupational safety and health act  
 RT work  
 RT working days

**WORKING DAYS**

INIS: 2000-04-12; ETDE: 1993-08-31  
 (Prior to December 1991 this was a valid ETDE descriptor. From December 1991 to August 1993 this concept was indexed by ALTERNATIVE WORK SCHEDULES or WORKING CONDITIONS in ETDE.)

RT alternative work schedules  
 RT employment  
 RT personnel  
 RT work  
 RT working conditions

**WORKING FACES**

INIS: 1999-09-01; ETDE: 1980-05-23  
 RT geologic deposits  
 RT mining

**WORKING FLUIDS**

1982-06-09  
 BT1 fluids  
 NT1 hydraulic fluids  
 NT1 refrigerants  
 RT antifreeze  
 RT energy conversion  
 RT freeze protection  
 RT heat exchangers  
 RT heat pumps  
 RT heat transfer  
 RT heat transfer fluids  
 RT hydrodynamics  
 RT turbines

**WORKMENS COMPENSATION**

UF compensation (workmens)  
 RT accident management  
 RT accidents  
 RT civil liability  
 RT financial security  
 RT hazards  
 RT indemnification agreements  
 RT legal aspects  
 RT victims compensation

**world**

INIS: 2000-04-12; ETDE: 1980-08-25  
 SEE earth planet  
 SEE global aspects

**world association of nuclear operators**

INIS: 1993-11-10; ETDE: 2002-05-24  
 USE wano

**WORLD BANK**

2013-08-05  
 BT1 international organizations  
 BT1 lending institutions  
 RT economic development  
 RT financing

**WORLD ENERGY COUNCIL**

2000-08-21  
 BT1 international organizations  
 RT energy policy

**world energy data system**

INIS: 1979-12-20; ETDE: 1980-01-24  
 USE wends

**world health organization**

USE who

**world meteorological organization**

2001-07-17  
 USE wmo

**world-wide fallout**

USE global fallout

**worms (flat)**

USE platyhelminths

**worms (round)**

USE nematodes

**worms (segmented)**

USE annelids

**WOUNDS**

\*BT1 injuries  
 RT healing  
 RT necrosis  
 RT skin

**WPIR REACTOR**

Worcester Polytechnic Institute, Worcester, Massachusetts, USA.  
 UF worcester polytechnic institute pool reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**wppss nuclear project no. 1**

USE wnp-1 reactor

**wppss nuclear project no. 2**

INIS: 1984-06-21; ETDE: 1997-03-28  
 USE wnp-2 reactor

**wppss nuclear project no. 3**

INIS: 1984-06-21; ETDE: 1997-03-28  
 USE wnp-3 reactor

**wppss nuclear project no. 4**

INIS: 1984-06-21; ETDE: 1997-03-28  
 USE wnp-4 reactor

**wppss nuclear project no. 5**

INIS: 1984-06-21; ETDE: 1997-03-28  
 USE wnp-5 reactor

**WR-1 REACTOR**

AECL, Pinawa, Manitoba, Canada.  
 Permanent shutdown since 1985.  
 UF whiteshell-1 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 materials testing reactors  
 \*BT1 organic cooled reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**WRRR REACTOR**

Walter Reed Army Medical Center, Washington, D.C., USA. Shut down in 1970.  
 UF walter reed research reactor l-54  
 \*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**WSUR REACTOR**

Washington State Univ., Pullman, Washington, USA.  
 UF pullman washington state university reactor  
 UF rscw reactor  
 UF rwsu reactor  
 UF washington state university reactor  
 \*BT1 pool type reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**WT-3 TOKAMAK**

INIS: 1989-12-07; ETDE: 1990-01-03  
 Kyoto University, Kyoto, Japan.  
 \*BT1 tokamak devices

**WTR REACTOR**

Westinghouse Electric Corporation, Madison, Pennsylvania, USA. Shut down in 1963.  
 UF westinghouse testing reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**wuerenlingen proteus reactor**

USE proteus reactor

**WUERGASSEN REACTOR**

Wuergassen, Niedersachsen, Federal Republic of Germany. Permanent shutdown since August 1994.  
 UF kernkraftwerk wuergassen  
 \*BT1 bwr type reactors

**wulfenite**

1996-07-23  
 (Until July 1996 this was a valid descriptor.)  
 USE oxide minerals

**wup-1 reactor**

USE haven-1 reactor

**wup-2 reactor**

USE haven-2 reactor

**WUP-3 REACTOR**

Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.  
 UF wisconsin utilities project-3 reactor  
 \*BT1 pwr type reactors

**WUP-4 REACTOR**

Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.  
 UF wisconsin utilities project-4 reactor  
 \*BT1 pwr type reactors

**WUP-5 REACTOR**

Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.  
 UF wisconsin utilities project-5 reactor  
 \*BT1 pwr type reactors

**WUP-6 REACTOR**

Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.  
 UF wisconsin utilities project-6 reactor  
 \*BT1 pwr type reactors

**wwer-1 reactor**

2003-06-26  
 USE novovoronezh-1 reactor

**wwer-2 reactor**

2003-06-26

USE novovoronezh-2 reactor

**wwer-3 reactor**

2003-06-26

USE novovoronezh-3 reactor

**wwer-4 reactor**

2003-06-26

USE novovoronezh-4 reactor

**wwer-5 reactor**

2003-06-26

USE novovoronezh-5 reactor

**WWER TYPE REACTORS**

1997-08-20

\*BT1 pwr type reactors  
 NT1 armenian-1 reactor  
 NT1 armenian-2 reactor  
 NT1 balakovo-1 reactor  
 NT1 balakovo-2 reactor  
 NT1 balakovo-3 reactor  
 NT1 balakovo-4 reactor  
 NT1 blahutovice-1 reactor  
 NT1 bohunice v-1 reactor  
 NT1 bohunice v-2 reactor  
 NT1 dukovany-1 reactor  
 NT1 dukovany-2 reactor  
 NT1 dukovany-3 reactor  
 NT1 dukovany-4 reactor  
 NT1 greifswald-1 reactor  
 NT1 greifswald-2 reactor  
 NT1 greifswald-3 reactor  
 NT1 greifswald-4 reactor  
 NT1 greifswald-5 reactor  
 NT1 greifswald-6 reactor  
 NT1 juragua-1 reactor  
 NT1 kalinin-1 reactor  
 NT1 kalinin-2 reactor  
 NT1 kalinin-3 reactor  
 NT1 kalinin-4 reactor  
 NT1 kecerovce-1 reactor  
 NT1 khmelnitskij-1 reactor  
 NT1 khmelnitskij-2 reactor  
 NT1 kola-1 reactor  
 NT1 kola-2 reactor  
 NT1 kola-3 reactor  
 NT1 kola-4 reactor  
 NT1 kozloduy-1 reactor  
 NT1 kozloduy-2 reactor  
 NT1 kozloduy-3 reactor  
 NT1 kozloduy-4 reactor  
 NT1 kozloduy-5 reactor  
 NT1 kozloduy-6 reactor  
 NT1 kudankulam-1 reactor  
 NT1 kudankulam-2 reactor  
 NT1 loviisa-1 reactor  
 NT1 loviisa-2 reactor  
 NT1 mochovce-1 reactor  
 NT1 mochovce-2 reactor  
 NT1 novovoronezh-1 reactor  
 NT1 novovoronezh-2 reactor  
 NT1 novovoronezh-3 reactor  
 NT1 novovoronezh-4 reactor  
 NT1 novovoronezh-5 reactor  
 NT1 paks-1 reactor  
 NT1 paks-2 reactor  
 NT1 paks-3 reactor  
 NT1 paks-4 reactor  
 NT1 rostov-1 reactor  
 NT1 rostov-2 reactor  
 NT1 rostov-3 reactor  
 NT1 rovno-1 reactor  
 NT1 rovno-2 reactor  
 NT1 rovno-3 reactor  
 NT1 rovno-4 reactor  
 NT1 rovno-5 reactor  
 NT1 south ukrainian-1 reactor

NT1 south ukrainian-2 reactor  
 NT1 south ukrainian-3 reactor  
 NT1 stendal-1 reactor  
 NT1 tatarian reactor  
 NT1 temelin-1 reactor  
 NT1 temelin-2 reactor  
 NT1 tianwan-1 reactor  
 NT1 tianwan-2 reactor  
 NT1 zaporozhe-1 reactor  
 NT1 zaporozhe-2 reactor  
 NT1 zaporozhe-3 reactor  
 NT1 zaporozhe-4 reactor  
 NT1 zaporozhe-5 reactor  
 NT1 zaporozhe-6 reactor

**WWR-2 REACTOR***Moscow, Russian Federation.*

\*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**wwr-c-baghdad reactor**

INIS: 1976-06-23; ETDE: 1994-08-10

USE irt-baghdad reactor

**wwr-c-bucharest reactor**

INIS: 1976-06-23; ETDE: 2002-05-24

USE wwr-s-bucharest reactor

**wwr-c-budapest reactor**

INIS: 1976-06-23; ETDE: 2002-05-24

USE wwr-s-budapest reactor

**wwr-c-cairo reactor**

INIS: 1976-06-23; ETDE: 2002-05-24

USE wwr-s-cairo reactor

**wwr-c-moscow reactor**

INIS: 1976-06-23; ETDE: 2002-05-24

USE wwr-s-moscow reactor

**wwr-c-prague reactor**

INIS: 1998-09-23; ETDE: 2002-03-27

USE lvr-15 reactor

**wwr-c-tashkent reactor**

INIS: 1976-06-23; ETDE: 2002-05-24

USE wwr-s-tashkent reactor

**wwr-k-agma-ata reactor**

1997-07-30

(Until July 1997 this was a valid descriptor.)

USE wwr-k-almaty reactor

**WWR-K-ALMATY REACTOR**

INIS: 1997-07-30; ETDE: 1997-08-30

*Almaty, Kazakhstan.*

(Prior to August 1997 this descriptor was spelled WWR-K ALMA-ATA REACTOR.)

UF alma-ata wwr-k reactor  
 UF almaty wwr-k reactor  
 UF wwr-k-agma-ata reactor

\*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**wwr-libyan reactor**

2005-01-24

USE irt-1 libya reactor

**WWR-M-KIEV REACTOR***Kiev, Ukraine.*

UF kiev wwr-m reactor  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**WWR-M-LENINGRAD REACTOR***St. Petersburg, Russian Federation.*

UF leningrad wwr-m reactor

\*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**wwr-s-baghdad reactor**

INIS: 1985-06-10; ETDE: 1994-08-10

(Name changed to IRT-BAGHDAD REACTOR; prior to June 1985 this was a valid descriptor.)

USE irt-baghdad reactor

**WWR-S-BUCHAREST REACTOR**

1976-06-23

*Magurele, Romania.*

UF bucharest wwr-s reactor

UF romanian wwr-c reactor

UF wwr-c-bucharest reactor

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 wwr type reactors

**WWR-S-BUDAPEST REACTOR**

1976-06-23

*KFKI Atomic Energy Research Institute, Hungarian Academy of Sciences, Budapest, Hungary.*

UF budapest wwr-s reactor

UF hungarian wwr-c reactor

UF kfk reactor

UF wwr-c-budapest reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 wwr type reactors

**WWR-S-CAIRO REACTOR**

1976-06-23

UF are-rr-1 reactor

UF cairo wwr-s reactor

UF united arab republic wwr-c reactor

UF wwr-c-cairo reactor

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 wwr type reactors

**WWR-S-MOSCOW REACTOR**

1976-06-23

*Moscow, Russian Federation.*

UF moscow wwr-s reactor

UF wwr-c-moscow reactor

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 wwr type reactors

**WWR-S-PRAGUE REACTOR**

1998-09-23

UF czech wwr-c reactor

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 wwr type reactors

**wwr-s-rez reactor**

INIS: 1998-09-23; ETDE: 2002-03-27

USE lvr-15 reactor

**WWR-S-TASHKENT REACTOR**

1976-06-23

*Tashkent, Uzbekistan.*

UF tashkent wwr-s reactor

UF uzbek wwr-c reactor

UF uzbek wwr-s reactor

UF wwr-c-tashkent reactor

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 wwr type reactors

**wvr-s-zittau reactor**

INIS: 1984-04-04; ETDE: 2002-05-24  
USE zlf reactor

**WWR-SM ROSSENDORF REACTOR**

Zentralinstitut fuer Kernforschung,  
Rossendorf bei Dresden, Federal Republic of  
Germany.

UF rossendorf wvr-sm reactor  
\*BT1 isotope production reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 wvr type reactors

**WWR TYPE REACTORS**

UF zamowiec reactor  
\*BT1 enriched uranium reactors  
\*BT1 tank type reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors  
NT1 budapest training reactor  
NT1 irt-1 libya reactor  
NT1 irt-baghdad reactor  
NT1 lvr-15 reactor  
NT1 wvr-2 reactor  
NT1 wvr-k-almaty reactor  
NT1 wvr-m-kiev reactor  
NT1 wvr-m-leningrad reactor  
NT1 wvr-s-bucharest reactor  
NT1 wvr-s-budapest reactor  
NT1 wvr-s-cairo reactor  
NT1 wvr-s-moscow reactor  
NT1 wvr-s-prague reactor  
NT1 wvr-s-tashkent reactor  
NT1 wvr-sm rossendorf reactor  
NT1 wvr-z reactor

**WWR-Z REACTOR**

2000-04-12  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 wvr type reactors

**WYHL-1 REACTOR**

INIS: 1975-10-31; ETDE: 1975-12-16  
Reactor was never constructed.  
UF kws-1 wyhl reactor  
\*BT1 pwr type reactors

**WYHL-2 REACTOR**

INIS: 1975-10-31; ETDE: 1975-12-16  
Reactor was never constructed.  
UF kws-2 wyhl reactor  
\*BT1 pwr type reactors

**wylfa nuclear power station**

USE wylfa reactor

**WYLFA REACTOR**

Anglesey, Wales, UK. WYLFA-1 and 2 are  
permanently shut down since 2015 and 2012.  
UF wylfa nuclear power station  
\*BT1 carbon dioxide cooled reactors  
\*BT1 magnox type reactors  
\*BT1 thermal reactors

**WYOMING**

1997-06-19  
\*BT1 usa  
NT1 powder river basin  
NT1 rock springs sites  
NT1 washakie basin  
RT green river formation  
RT north platte river basin  
RT snake river plain  
RT us naval petroleum reserves  
RT wasatch formation  
RT western us overthrust belt  
RT yellowstone national park

**X-10 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut  
down in November 1963.

UF ornl x-10 area graphite reactor  
\*BT1 air cooled reactors  
\*BT1 graphite moderated reactors  
\*BT1 isotope production reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**X-1700 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
\*BT1 mesons

**X-1935 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
(Prior to December 1987 this concept was  
indexed by S-1930 RESONANCES.)  
UF s-1930 resonances  
\*BT1 mesons

**X-2220 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
(Prior to December 1987 this concept was  
indexed by X-2220RESONANCES.)  
UF x-2220 resonances  
\*BT1 mesons

**x-2220 resonances**

INIS: 1988-03-08; ETDE: 1987-06-09  
(Prior to December 1987 this was a valid  
descriptor.)  
USE x-2220 mesons

**x-2830 resonances**

INIS: 1988-03-08; ETDE: 1977-11-28  
(Prior to December 1987 this was a valid  
descriptor.)  
USE mesons

**X-3075 MESONS**

INIS: 1988-05-13; ETDE: 1988-06-24  
\*BT1 mesons

**x 40 (alloy)**

INIS: 2000-04-12; ETDE: 1979-12-17  
USE alloy-hs-31

**X CENTERS**

2000-04-12  
\*BT1 color centers

**X CHROMOSOME**

INIS: 1980-02-26; ETDE: 1980-03-31  
From then till April 1980 the form X-  
CHROMOSOMES was used.  
(Prior to July 1978  
HETEROCHROMOSOMES was used for this  
concept.)

\*BT1 heterochromosomes  
NT1 human x chromosome

**X CODES**

BT1 computer codes

**X RADIATION**

\*BT1 electromagnetic radiation  
\*BT1 ionizing radiations  
NT1 hard x radiation  
NT1 soft x radiation  
RT biomedical radiography  
RT cosmic x-ray bursts  
RT cosmic x-ray sources  
RT fluoroscopy  
RT gamma radiation  
RT photons  
RT solar x-ray bursts  
RT television  
RT x-ray fluorescence analysis  
RT x-ray photoelectron spectroscopy

RT x-ray spectroscopy

**x-rasers**

INIS: 1978-07-03; ETDE: 1978-03-08  
USE x-ray lasers

**X-RAY DETECTION**

UF photon detection (x-ray)  
\*BT1 radiation detection  
RT x-ray dosimetry  
RT x-ray spectrometers

**X-RAY DIFFRACTION**

UF diffraction (x-ray)  
UF xrd  
\*BT1 diffraction  
RT bragg reflection  
RT crystallography  
RT debye-scherrer method  
RT diffuse scattering  
RT laue method  
RT structural chemical analysis  
RT x-ray diffractometers

**X-RAY DIFFRACTOMETERS**

\*BT1 diffractometers  
RT crystallography  
RT diffraction methods  
RT gamma diffractometers  
RT structural chemical analysis  
RT x-ray diffraction

**X-RAY DOSIMETRY**

BT1 dosimetry  
RT x-ray detection

**X-RAY EMISSION ANALYSIS**

UF particle-induced x-ray emission  
analysis  
\*BT1 nondestructive analysis  
NT1 pixe analysis  
NT1 x-ray fluorescence analysis  
RT electron probes  
RT quantitative chemical analysis  
RT x-ray spectroscopy

**X-RAY EMISSION SPECTROSCOPY**

2016-05-03  
\*BT1 emission spectroscopy

**X-RAY EQUIPMENT**

BT1 equipment  
NT1 x-ray tubes  
RT biomedical radiography  
RT diagnostic techniques  
RT diffraction gratings  
RT electronic equipment  
RT x-ray sources

**X-RAY FLUORESCENCE ANALYSIS**

UF xeqf spectroscopy  
\*BT1 x-ray emission analysis  
RT fluorescence  
RT fluorescence spectroscopy  
RT quantitative chemical analysis  
RT x radiation  
RT x-ray fluorescence analyzers  
RT x-ray fluorescence logging

**X-RAY FLUORESCENCE ANALYZERS**

RT x-ray fluorescence analysis

**X-RAY FLUORESCENCE LOGGING**

INIS: 1978-11-24; ETDE: 1977-03-04  
\*BT1 radioactivity logging  
RT x-ray fluorescence analysis

**X-RAY GALAXIES**

INIS: 1975-09-09; ETDE: 1976-08-24  
Galaxies that emit most of their radiative  
power in the form of x-rays.  
\*BT1 cosmic x-ray sources

BT1 galaxies  
 RT cosmic photons  
 RT cosmic radiation

**X-RAY LASERS**

*INIS: 1978-07-03; ETDE: 1978-03-08*

UF x-rasers

BT1 lasers

**x-ray photoelectron spectrometry**

2002-11-25

USE emission spectroscopy

USE x-ray photoelectron spectroscopy

**X-RAY PHOTOELECTRON SPECTROSCOPY**

2002-11-25

UF esca

UF x-ray photoelectron spectrometry

UF xps

\*BT1 photoelectron spectroscopy

RT electron spectra

RT x radiation

**X-RAY RADIOGRAPHY**

\*BT1 industrial radiography

RT biomedical radiography

**x-ray radiography (biomedical)**

*ETDE: 2002-05-24*

USE biomedical radiography

**X-RAY SOURCES**

*For cosmic sources of x radiation use*

**COSMIC X-RAY SOURCES.**

BT1 radiation sources

RT advanced light source

RT advanced photon source

RT nsls

RT sesame synchrotron laboratory

RT swiss light source

RT synchrotron radiation sources

RT x-ray equipment

**X-RAY SPECTRA**

BT1 spectra

RT x-ray spectroscopy

**X-RAY SPECTROMETERS**

\*BT1 spectrometers

RT x-ray detection

**x-ray spectrometry**

*INIS: 1975-10-23; ETDE: 2002-05-24*

USE x-ray spectroscopy

**X-RAY SPECTROSCOPY**

UF x-ray spectrometry

BT1 spectroscopy

RT x radiation

RT x-ray emission analysis

RT x-ray spectra

**x-ray transmission scanning**

USE photon transmission scanning

**X-RAY TUBES**

BT1 electron tubes

\*BT1 x-ray equipment

**x-zero resonances**

USE eta prime-958 mesons

**XANTHAN GUM**

*INIS: 2000-09-06; ETDE: 2000-02-25*

UF xanthum gum

\*BT1 polysaccharides

**XANTHATES**

\*BT1 organic sulfur compounds

NT1 viscose

**XANTHINES**

\*BT1 organic oxygen compounds

\*BT1 purines  
 NT1 caffeine  
 NT1 theobromine  
 NT1 theophylline  
 NT1 uric acid  
 RT hypoxanthine

**xanthum gum**

*INIS: 2000-04-12; ETDE: 1983-05-21*

USE xanthan gum

**XAPR REACTOR**

2003-08-18

*Xi'an, China.*

\*BT1 pool type reactors

\*BT1 pulsed reactors

\*BT1 research reactors

**xc-224**

*INIS: 2000-04-12; ETDE: 1979-01-30*

USE mar-m509 alloys

**xc-224fe**

*INIS: 2000-04-12; ETDE: 1979-01-30*

USE mar-m509 alloys

**xds computers**

*INIS: 1996-07-15; ETDE: 1979-01-30*

(Until June 1996 this was a valid descriptor.)

USE computers

**XE-2 REACTOR**

2000-04-12

USA.

UF ground experimental engine experiment-2

\*BT1 experimental reactors

\*BT1 space propulsion reactors

RT hydrogen cooled reactors

RT nerva reactor

**XE-PRIME REACTOR**

2000-04-12

*Nevada Test Site, Mercury, Nevada, USA.*

UF ground experimental engine experiment

\*BT1 experimental reactors

\*BT1 hydrogen cooled reactors

\*BT1 propulsion reactors

**XENOBIOTICS**

*INIS: 1981-02-27; ETDE: 1981-03-16*

RT additives

RT detergents

RT drugs

RT nutrients

RT organic polymers

**XENON**

\*BT1 rare gases

**XENON 109**

2007-04-19

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 xenon isotopes

**XENON 110**

*INIS: 1986-04-28; ETDE: 1981-09-08*

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 xenon isotopes

**XENON 111**

*INIS: 1980-04-02; ETDE: 1980-05-06*

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 xenon isotopes

**XENON 112**

*INIS: 1979-04-27; ETDE: 1979-05-25*

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

\*BT1 xenon isotopes

**XENON 113**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

\*BT1 xenon isotopes

**XENON 114**

*INIS: 1978-02-23; ETDE: 1978-05-01*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

\*BT1 xenon isotopes

**XENON 115**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

\*BT1 xenon isotopes

**XENON 116**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

\*BT1 xenon isotopes

**XENON 117**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 xenon isotopes

**XENON 118**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 xenon isotopes

**XENON 119**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 xenon isotopes

**XENON 120**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 xenon isotopes

**XENON 121**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 122**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 xenon isotopes

**XENON 123**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 xenon isotopes

**XENON 123 TARGET**

*INIS: 1975-12-17; ETDE: 1976-07-12*  
BT1 targets

**XENON 124**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 124 TARGET**

*INIS: 1976-02-11; ETDE: 1976-07-12*  
BT1 targets

**XENON 125**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 125 TARGET**

*INIS: 1978-07-31; ETDE: 1978-09-11*  
BT1 targets

**XENON 126**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 126 TARGET**

*INIS: 1976-02-11; ETDE: 1976-07-12*  
BT1 targets

**XENON 127**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 127 TARGET**

*INIS: 1979-02-21; ETDE: 1979-03-28*  
BT1 targets

**XENON 128**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 128 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 129**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 129 BEAMS**

*INIS: 1976-07-30; ETDE: 1976-11-01*  
\*BT1 ion beams

**XENON 129 REACTIONS**

*INIS: 1976-07-30; ETDE: 1976-11-01*  
\*BT1 heavy ion reactions

**XENON 129 TARGET**

*INIS: 1984-05-24; ETDE: 1984-06-29*  
BT1 targets

**XENON 130**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 130 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 131**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 131 BEAMS**

*INIS: 1977-02-08; ETDE: 1977-04-13*  
\*BT1 ion beams

**XENON 131 TARGET**

*INIS: 1979-04-27; ETDE: 1977-06-02*  
BT1 targets

**XENON 132**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 132 BEAMS**

*INIS: 1979-01-18; ETDE: 1979-02-23*  
\*BT1 ion beams

**XENON 132 REACTIONS**

*INIS: 1977-02-08; ETDE: 1977-04-13*  
\*BT1 heavy ion reactions

**XENON 132 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 xenon isotopes

**XENON 134**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 134 REACTIONS**

*1983-09-01*  
\*BT1 heavy ion reactions

**XENON 134 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 135**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 136**

- \*BT1 even-even nuclei
  - \*BT1 intermediate mass nuclei
  - \*BT1 stable isotopes
  - \*BT1 xenon isotopes
- RT xenon 136 beams*

**XENON 136 BEAMS**

\*BT1 ion beams  
*RT xenon 136*

**XENON 136 REACTIONS**

\*BT1 heavy ion reactions

**XENON 136 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 139**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 142**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 xenon isotopes



**XENON 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 146**

*INIS: 1992-09-23; ETDE: 1976-03-25*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 xenon isotopes

**XENON 147**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 xenon isotopes

**XENON BROMIDES**

- \*BT1 bromides
- \*BT1 xenon halides

**XENON CHLORIDES**

- \*BT1 chlorides
- \*BT1 xenon halides

**XENON COMPLEXES**

- BT1 complexes

**XENON COMPOUNDS**

*1996-07-08*

- BT1 rare gas compounds
- NT1 xenon halides
- NT2 xenon bromides
- NT2 xenon chlorides
- NT2 xenon fluorides
- NT2 xenon iodides
- NT1 xenon hydrides
- NT1 xenon oxides

**xenon effect**

- USE poisoning

**XENON FLUORIDES**

- \*BT1 fluorides
- \*BT1 xenon halides

**XENON HALIDES**

*2012-07-25*

- \*BT1 halides
- \*BT1 xenon compounds
- NT1 xenon bromides
- NT1 xenon chlorides
- NT1 xenon fluorides
- NT1 xenon iodides

**XENON HYDRIDES**

*1996-07-15*

(From June 1996 to November 2007 XENON COMPOUNDS + HYDRIDES was used for this concept.)

- \*BT1 hydrides
- \*BT1 xenon compounds

**XENON IODIDES**

*INIS: 1980-11-07; ETDE: 1978-10-23*

- \*BT1 iodides
- \*BT1 xenon halides

**XENON IONS**

- \*BT1 ions

**XENON ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 xenon 109
- NT1 xenon 110
- NT1 xenon 111
- NT1 xenon 112
- NT1 xenon 113
- NT1 xenon 114
- NT1 xenon 115
- NT1 xenon 116
- NT1 xenon 117
- NT1 xenon 118
- NT1 xenon 119
- NT1 xenon 120
- NT1 xenon 121
- NT1 xenon 122
- NT1 xenon 123
- NT1 xenon 124
- NT1 xenon 125
- NT1 xenon 126
- NT1 xenon 127
- NT1 xenon 128
- NT1 xenon 129
- NT1 xenon 130
- NT1 xenon 131
- NT1 xenon 132
- NT1 xenon 133
- NT1 xenon 134
- NT1 xenon 135
- NT1 xenon 136
- NT1 xenon 137
- NT1 xenon 138
- NT1 xenon 139
- NT1 xenon 140
- NT1 xenon 141
- NT1 xenon 142
- NT1 xenon 143
- NT1 xenon 144
- NT1 xenon 145
- NT1 xenon 146
- NT1 xenon 147

**XENON OSCILLATIONS**

*1986-05-26*

*Effects of fission product xenon levels on reactor operation.*

- BT1 poisoning
- RT nuclear poisons
- RT oscillations
- RT reactor poison removal

**XENON OXIDES**

- \*BT1 oxides
- \*BT1 xenon compounds

**XENOTIME**

- \*BT1 phosphate minerals
- RT granites
- RT pegmatites
- RT yttrium phosphates

**xeqf spectroscopy**

*INIS: 1984-04-04; ETDE: 2002-05-24*

- USE x-ray fluorescence analysis

**xeroderma pigmentosum**

*INIS: 2000-04-12; ETDE: 1978-01-23*

*See also XP CELLS.*

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE congenital diseases
- USE hereditary diseases
- USE skin diseases

**xeroderma pigmentosum cells**

*INIS: 1976-07-16; ETDE: 2002-05-24*

- USE xp cells

**XEROGRAPHY**

- UF xeroradiography

- RT electrostatics

- RT photography

**xeroradiography**

*INIS: 1975-12-09; ETDE: 2002-05-24*

*Coordinate, as appropriate, with BIOMEDICAL RADIOGRAPHY or INDUSTRIAL RADIOGRAPHY.*

- USE xerography

**xerox data systems computers**

*INIS: 1996-07-08; ETDE: 2002-05-24*

- USE computers

**XI-1530 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-07*

(Prior to December 1987 this concept was indexed by XI-1530 RESONANCES.)

- UF xi-1530 resonances

- \*BT1 xi baryons

**xi-1530 resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE xi-1530 baryons

**XI-1690 BARYONS**

*1995-07-17*

- \*BT1 xi baryons

**XI-1820 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-07*

(Prior to December 1987 this concept was indexed by XI-1820 RESONANCES.)

- UF xi-1820 resonances

- \*BT1 xi baryons

**xi-1820 resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE xi-1820 baryons

**xi-1930 resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE xi-1950 baryons

**xi-1940 baryons**

*INIS: 1995-08-07; ETDE: 1988-03-07*

(From December 1987 until July 1995 this was a valid term.)

- USE xi-1950 baryons

**XI-1950 BARYONS**

*1995-08-07*

(Until December 1987 this concept was indexed by XI-1930 RESONANCES; from then until July 1995 it was indexed by XI-1940 BARYONS.)

- UF xi-1930 resonances

- UF xi-1940 baryons

- \*BT1 xi baryons

**XI-2030 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-07*

(Prior to December 1987 this concept was indexed by XI-2030 RESONANCES.)

- UF xi-2030 resonances

- \*BT1 xi baryons

**xi-2030 resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE xi-2030 baryons

**XI-2250 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-07*

- \*BT1 xi baryons

**XI-2500 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-07

\*BT1 xi baryons

**XI BARYONS**

INIS: 1995-07-17; ETDE: 1988-03-07

\*BT1 hyperons

NT1 xi-1530 baryons

NT1 xi-1690 baryons

NT1 xi-1820 baryons

NT1 xi-1950 baryons

NT1 xi-2030 baryons

NT1 xi-2250 baryons

NT1 xi-2500 baryons

NT1 xi particles

NT2 antixi particles

NT2 xi minus particles

NT2 xi neutral particles

**XI C NEUTRAL BARYONS**

INIS: 1995-04-03; ETDE: 1995-03-27

\*BT1 charmed baryons

**XI C PLUS BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-07

\*BT1 charmed baryons

**xi minus**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE xi minus particles

**XI MINUS PARTICLES**

INIS: 1987-12-21; ETDE: 1988-07-27

(Prior to August 1985 this concept was indexed by XI-MINUS and from August 1985 to December 1987 by XI MINUS.)

UF xi minus

\*BT1 xi particles

**xi neutral**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE xi neutral particles

**XI NEUTRAL PARTICLES**

INIS: 1987-12-21; ETDE: 1988-07-27

(Prior to August 1985 this concept was indexed by XI-NEUTRAL and from August 1985 to December 1987 by XI NEUTRAL.)

UF xi neutral

\*BT1 xi particles

**xi particle beams**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE hyperon beams

**XI PARTICLES**

\*BT1 xi baryons

NT1 antixi particles

NT1 xi minus particles

NT1 xi neutral particles

**XMA-1 REACTOR**

2000-04-12

USA.

\*BT1 air cooled reactors

\*BT1 aircraft propulsion reactors

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 hydride moderated reactors

**XP CELLS**

INIS: 1976-07-16; ETDE: 1976-09-15

*Xeroderma pigmentosum cells.*

(From January 1978 till March 1997

XERODERMA PIGMENTOSUM was a valid ETDE descriptor.)

UF *xeroderma pigmentosum cells*

BT1 animal cells

**xps**

2002-11-25

USE x-ray photoelectron spectroscopy

**xrd**

2002-11-25

USE x-ray diffraction

**xuv**

USE extreme ultraviolet radiation

**XYLANASE**

INIS: 2000-04-12; ETDE: 1981-01-12

UF xylanases

\*BT1 o-glycosyl hydrolases

**xylanases**

INIS: 2000-04-12; ETDE: 1979-03-28

(Prior to January 1981 this was a valid ETDE descriptor.)

USE xylanase

**XYLANS**

INIS: 2000-04-12; ETDE: 1979-04-12

*Major hemicellulose of hard woods.*

\*BT1 hemicellulose

RT biomass

RT lignin

RT trees

RT wood

**XYLENE-PARA**

\*BT1 xylenes

**XYLENES**

UF dimethylbenzenes

\*BT1 alkylated aromatics

NT1 xylene-para

**XYLENOL ORANGE**

BT1 dyes

BT1 indicators

**XYLENOLS**

2000-04-12

UF dimethylphenols

UF hydroxyxylenes

\*BT1 phenols

**XYLOSE**

\*BT1 aldehydes

\*BT1 pentoses

RT wood

**Y-12 PLANT**

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT oak ridge

RT oak ridge reservation

RT tennessee

**Y CHROMOSOME**

INIS: 1980-02-26; ETDE: 1980-03-29

(Prior to April 1980 this concept was indexed to HETEROCHROMOSOMES in ETDE.)

\*BT1 heterochromosomes

NT1 human y chromosome

**Y CODES**

BT1 computer codes

**y\*resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE baryons

**YALINA FACILITY**

2016-07-11

*Located at the Joint Institute for Power and Nuclear Research 'Sosny', Minsk, Belarus.*

\*BT1 accelerator-driven subcritical systems

**yamaguchi nonlocal potential**

USE yamaguchi potential

**YAMAGUCHI POTENTIAL**

UF yamaguchi nonlocal potential

\*BT1 nucleon-nucleon potential

RT nucleons

**YAMS**

*Tuberous root of plants of the genus Dioscorea.*

\*BT1 magnoliopsida

\*BT1 vegetables

**YANG-FELDMAN FORMALISM**

RT quantum field theory

RT s matrix

**yang-lee distribution**

USE lee-yang theory

**YANG-MILLS THEORY**

RT instantons

RT isospin

RT quantum chromodynamics

RT quantum field theory

RT wilson loop

**YANG THEOREM**

RT angular distribution

RT nuclear reactions

**YANGJIANG-1 REACTOR**

2017-10-25

*Yangjiang, China*

\*BT1 pwr type reactors

**YANGJIANG-2 REACTOR**

2017-10-25

*Yangjiang, China*

\*BT1 pwr type reactors

**YANGJIANG-3 REACTOR**

2017-10-25

*Yangjiang, China*

\*BT1 pwr type reactors

**YANGJIANG-4 REACTOR**

2017-10-25

*Yangjiang, China*

\*BT1 pwr type reactors

**YANGTZE RIVER**

INIS: 1992-06-04; ETDE: 1980-08-12

\*BT1 rivers

RT china

**yankee connecticut reactor**

USE connecticut yankee reactor

**yankee event**

INIS: 1994-10-14; ETDE: 1984-05-23

*A test made during PROJECT CASTLE.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**yankee maine reactor**

USE maine yankee reactor

**yankee rowe reactor**

USE rowe yankee reactor

**yankee vermont reactor**

USE vermont yankee reactor

**YAYOI REACTOR**

*Univ. of Tokyo, Tokai, Ibaraki, Japan.*

\*BT1 fast reactors

\*BT1 research and test reactors

**YEARS LIVING RADIOISOTOPES**

\*BT1 radioisotopes

NT1 actinium 227  
 NT1 aluminium 26  
 NT1 americium 241  
 NT1 americium 242  
 NT1 americium 243  
 NT1 antimony 125  
 NT1 argon 39  
 NT1 argon 42  
 NT1 barium 133  
 NT1 berkelium 247  
 NT1 beryllium 10  
 NT1 bismuth 207  
 NT1 bismuth 208  
 NT1 bismuth 210  
 NT1 cadmium 109  
 NT1 cadmium 113  
 NT1 calcium 41  
 NT1 californium 249  
 NT1 californium 250  
 NT1 californium 251  
 NT1 californium 252  
 NT1 carbon 14  
 NT1 cesium 134  
 NT1 cesium 135  
 NT1 cesium 137  
 NT1 chlorine 36  
 NT1 cobalt 60  
 NT1 curium 243  
 NT1 curium 244  
 NT1 curium 245  
 NT1 curium 246  
 NT1 curium 247  
 NT1 curium 248  
 NT1 curium 250  
 NT1 dysprosium 154  
 NT1 einsteinium 252  
 NT1 europium 150  
 NT1 europium 152  
 NT1 europium 154  
 NT1 europium 155  
 NT1 gadolinium 148  
 NT1 gadolinium 150  
 NT1 gadolinium 152  
 NT1 hafnium 172  
 NT1 hafnium 174  
 NT1 hafnium 178  
 NT1 hafnium 182  
 NT1 holmium 163  
 NT1 holmium 166  
 NT1 indium 115  
 NT1 iodine 129  
 NT1 iridium 192  
 NT1 iron 55  
 NT1 iron 60  
 NT1 krypton 81  
 NT1 krypton 85  
 NT1 lanthanum 137  
 NT1 lanthanum 138  
 NT1 lead 202  
 NT1 lead 205  
 NT1 lead 210  
 NT1 lutetium 173  
 NT1 lutetium 174  
 NT1 lutetium 176  
 NT1 manganese 53  
 NT1 mercury 194  
 NT1 molybdenum 93  
 NT1 neodymium 144  
 NT1 neptunium 235  
 NT1 neptunium 236  
 NT1 neptunium 237  
 NT1 nickel 59

NT1 nickel 63  
 NT1 niobium 91  
 NT1 niobium 92  
 NT1 niobium 93  
 NT1 niobium 94  
 NT1 osmium 186  
 NT1 osmium 194  
 NT1 palladium 107  
 NT1 platinum 190  
 NT1 platinum 193  
 NT1 plutonium 236  
 NT1 plutonium 238  
 NT1 plutonium 239  
 NT1 plutonium 240  
 NT1 plutonium 241  
 NT1 plutonium 242  
 NT1 plutonium 244  
 NT1 polonium 208  
 NT1 polonium 209  
 NT1 potassium 40  
 NT1 promethium 144  
 NT1 promethium 145  
 NT1 promethium 146  
 NT1 promethium 147  
 NT1 protactinium 231  
 NT1 radium 226  
 NT1 radium 228  
 NT1 rhenium 186  
 NT1 rhenium 187  
 NT1 rhodium 101  
 NT1 rubidium 87  
 NT1 ruthenium 106  
 NT1 samarium 146  
 NT1 samarium 147  
 NT1 samarium 148  
 NT1 samarium 151  
 NT1 selenium 79  
 NT1 silicon 32  
 NT1 silver 108  
 NT1 sodium 22  
 NT1 strontium 90  
 NT1 tantalum 179  
 NT1 technetium 97  
 NT1 technetium 98  
 NT1 technetium 99  
 NT1 tellurium 123  
 NT1 terbium 157  
 NT1 terbium 158  
 NT1 thallium 204  
 NT1 thorium 228  
 NT1 thorium 229  
 NT1 thorium 230  
 NT1 thorium 232  
 NT1 thulium 171  
 NT1 tin 121  
 NT1 tin 126  
 NT1 titanium 44  
 NT1 tritium  
 NT1 uranium 232  
 NT1 uranium 233  
 NT1 uranium 234  
 NT1 uranium 235  
 NT1 uranium 236  
 NT1 uranium 238  
 NT1 vanadium 50  
 NT1 zirconium 93  
 RT half-life  
 RT lifetime

**YEASTS**

\*BT1 eumycota  
 BT1 microorganisms  
 NT1 candida  
 NT1 saccharomyces  
 NT2 saccharomyces cerevisiae  
 NT1 torula  
 RT pheromone  
 RT zymosan

**YEELIRRIE DEPOSIT**

*INIS: 1980-12-01; ETDE: 1981-01-09*

\*BT1 uranium deposits

RT uranium ores

RT western australia

**yellow cake**

*INIS: 1977-01-25; ETDE: 1977-04-13*

USE uranium oxides u3o8

**YELLOW CREEK**

*1997-06-19*

\*BT1 rivers

RT colorado

RT yellow creek basin

**YELLOW CREEK-1 REACTOR**

*INIS: 1977-11-21; ETDE: 1976-08-24  
 TVA, Iuka, Mississippi, USA. Canceled in  
 1984 after construction began (1978).*

\*BT1 pwr type reactors

**YELLOW CREEK-2 REACTOR**

*INIS: 1977-11-21; ETDE: 1976-08-24  
 TVA, Iuka, Mississippi, USA. Canceled in  
 1984 after construction began (1978).*

\*BT1 pwr type reactors

**YELLOW CREEK BASIN**

*2000-04-12*

BT1 watersheds

RT colorado

RT yellow creek

**YELLOW RIVER**

*1996-11-27*

\*BT1 rivers

RT china

**YELLOWSTONE NATIONAL PARK**

*1992-06-04*

SF parks

BT1 public lands

RT idaho

RT montana

RT snake river plain

RT wyoming

**YEMEN**

*1991-11-06*

UF north yemen

UF peoples democratic republic of yemen

UF south yemen

UF southern yemen

UF yemen, southern

UF yemen arab republic

BT1 arab countries

BT1 asia

BT1 developing countries

BT1 middle east

**yemen, southern**

*INIS: 2000-04-12; ETDE: 1980-08-12*

USE yemen

**yemen arab republic**

*INIS: 2000-04-12; ETDE: 1980-04-14  
 (Prior to November 1991 this was a valid  
 ETDE descriptor.)*

USE yemen

**yerevan synchrotron**

USE erevan synchrotron

**yield (biological)**

USE productivity

**yield (chemical reaction)**

*2000-04-12*

USE chemical reaction yield

**yield (fission)**

2000-04-12

USE fission yield

**yield (fusion)**

INIS: 2000-04-12; ETDE: 1976-05-19

USE fusion yield

**yield (nuclear reaction)**

2000-04-12

USE nuclear reaction yield

**YIELD STRENGTH**

UF strength (yield)

BT1 mechanical properties

RT tensile properties

**YIELDS**

1993-03-11

Use of a more specific descriptor is recommended.

NT1 chemical reaction yield

NT1 gas yields

NT1 nuclear reaction yield

NT2 fission yield

NT2 fusion yield

NT1 oil yields

RT productivity

**yolk**

USE eggs

**yonggwang-1 reactor**

2000-11-21

Yonggwang, Republic of Korea.

(Until June 2017 this was a valid descriptor)

USE hanbit-1 reactor

**yonggwang-2 reactor**

2000-11-21

Yonggwang, Republic of Korea.

(Until June 2017 this was a valid descriptor)

USE hanbit-2 reactor

**yonggwang-3 reactor**

INIS: 1997-10-03; ETDE: 1998-02-24

Yonggwang, Republic of Korea.

(Until June 2017 this was a valid descriptor)

USE hanbit-3 reactor

**yonggwang-4 reactor**

INIS: 1997-10-03; ETDE: 1998-02-24

Yonggwang, Republic of Korea.

(Until June 2017 this was a valid descriptor)

USE hanbit-4 reactor

**yoshida sarcoma**

USE experimental neoplasms

**YOUNG DIAGRAM**

\*BT1 diagrams

RT group theory

**YOUNG MODEL**

RT transport theory

**YOUNG MODULUS**

BT1 mechanical properties

RT elasticity

RT hooke law

**YRAST STATES**

The lowest energy states for given angular momenta.

BT1 energy levels

RT angular momentum

RT backbending

RT moment of inertia

RT nuclear structure

**YTTERBIUM**

\*BT1 rare earths

**YTTERBIUM 148**

2008-01-28

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 149**

2008-01-28

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 150**

INIS: 1985-04-22; ETDE: 1985-05-07

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 151**

INIS: 1985-10-22; ETDE: 1984-11-29

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 152**

INIS: 1980-12-01; ETDE: 1980-09-05

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 153**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 isomeric transition isotopes

\*BT1 microseconds living radioisotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 ytterbium isotopes

**YTTERBIUM 154**

INIS: 1976-10-07; ETDE: 1976-07-07

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 155**

INIS: 1976-01-28; ETDE: 1975-09-12

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 ytterbium isotopes

**YTTERBIUM 156**

INIS: 1976-11-08; ETDE: 1976-09-15

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 ytterbium isotopes

**YTTERBIUM 157**

1976-07-06

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 ytterbium isotopes

**YTTERBIUM 158**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 159**

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 160**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 161**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 162**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 163**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 164**

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hours living radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 165**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 internal conversion radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 166**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 internal conversion radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 167**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 168**

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 168 TARGET**

ETDE: 1976-07-09

- BT1 targets

**YTTERBIUM 169**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 169 TARGET**

INIS: 1992-09-23; ETDE: 1982-03-29

- BT1 targets

**YTTERBIUM 170**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 170 TARGET**

ETDE: 1976-07-09

- BT1 targets

**YTTERBIUM 171**

- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 171 TARGET**

ETDE: 1976-07-09

- BT1 targets

**YTTERBIUM 172**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 172 TARGET**

ETDE: 1976-07-09

- BT1 targets

**YTTERBIUM 173**

- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 173 TARGET**

ETDE: 1976-07-09

- BT1 targets

**YTTERBIUM 174**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 174 TARGET**

ETDE: 1976-07-09

- BT1 targets

**YTTERBIUM 175**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 176**

- \*BT1 even-even nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 176 TARGET**

ETDE: 1976-07-09

- BT1 targets

**YTTERBIUM 177**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 178**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 179**

1982-06-09

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 180**

INIS: 1987-09-22; ETDE: 1987-10-02

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 181**

2008-01-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM ADDITIONS**

Alloys containing not more than 1% Yb are listed here.

- \*BT1 rare earth additions
- RT ytterbium alloys

**YTTERBIUM ALLOYS**

Alloys containing more than 1% Yb.

- \*BT1 rare earth alloys
- NT1 ytterbium base alloys
- RT ytterbium additions

**YTTERBIUM BASE ALLOYS**

- \*BT1 ytterbium alloys

**YTTERBIUM BORIDES**

- \*BT1 borides
- \*BT1 ytterbium compounds

**YTTERBIUM BROMIDES**

- \*BT1 bromides
- \*BT1 ytterbium halides

**YTTERBIUM CARBIDES**

- \*BT1 carbides
- \*BT1 ytterbium compounds

**YTTERBIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 ytterbium compounds

**YTTERBIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 ytterbium halides

**YTTERBIUM COMPLEXES**

- \*BT1 rare earth complexes

**YTTERBIUM COMPOUNDS**

1997-06-19

- BT1 rare earth compounds
- NT1 ytterbium borides
- NT1 ytterbium carbides
- NT1 ytterbium carbonates
- NT1 ytterbium halides
- NT2 ytterbium bromides
- NT2 ytterbium chlorides
- NT2 ytterbium fluorides
- NT2 ytterbium iodides
- NT1 ytterbium hydrides
- NT1 ytterbium hydroxides
- NT1 ytterbium nitrates
- NT1 ytterbium nitrides
- NT1 ytterbium oxides
- NT1 ytterbium perchlorates
- NT1 ytterbium phosphates
- NT1 ytterbium phosphides
- NT1 ytterbium selenides
- NT1 ytterbium silicates
- NT1 ytterbium silicides
- NT1 ytterbium sulfates
- NT1 ytterbium sulfides
- NT1 ytterbium tellurides
- NT1 ytterbium tungstates

**YTTERBIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 ytterbium halides

**YTTERBIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 ytterbium compounds
- NT1 ytterbium bromides
- NT1 ytterbium chlorides
- NT1 ytterbium fluorides
- NT1 ytterbium iodides

**YTTERBIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 ytterbium compounds

**YTTERBIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 ytterbium compounds

**YTTERBIUM IODIDES**

- \*BT1 iodides
- \*BT1 ytterbium halides

**YTTERBIUM IONS**

- \*BT1 ions

**YTTERBIUM ISOTOPES**

- BT1 isotopes
- NT1 ytterbium 148
- NT1 ytterbium 149
- NT1 ytterbium 150
- NT1 ytterbium 151
- NT1 ytterbium 152
- NT1 ytterbium 153
- NT1 ytterbium 154
- NT1 ytterbium 155
- NT1 ytterbium 156
- NT1 ytterbium 157
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- NT1 ytterbium 165
- NT1 ytterbium 166
- NT1 ytterbium 167
- NT1 ytterbium 168
- NT1 ytterbium 169
- NT1 ytterbium 170
- NT1 ytterbium 171

**NT1** ytterbium 172  
**NT1** ytterbium 173  
**NT1** ytterbium 174  
**NT1** ytterbium 175  
**NT1** ytterbium 176  
**NT1** ytterbium 177  
**NT1** ytterbium 178  
**NT1** ytterbium 179  
**NT1** ytterbium 180  
**NT1** ytterbium 181

**YTTERBIUM NITRATES**

\*BT1 nitrates  
 \*BT1 ytterbium compounds

**YTTERBIUM NITRIDES**

\*BT1 nitrides  
 \*BT1 ytterbium compounds

**YTTERBIUM OXIDES**

\*BT1 oxides  
 \*BT1 ytterbium compounds

**YTTERBIUM PERCHLORATES**

*INIS: 2000-04-12; ETDE: 1975-10-28*  
 \*BT1 perchlorates  
 \*BT1 ytterbium compounds

**YTTERBIUM PHOSPHATES**

*INIS: 1975-10-23; ETDE: 1975-12-16*  
 \*BT1 phosphates  
 \*BT1 ytterbium compounds

**YTTERBIUM PHOSPHIDES**

*INIS: 1993-01-13; ETDE: 1992-09-14*  
 \*BT1 phosphides  
 \*BT1 ytterbium compounds

**YTTERBIUM SELENIDES**

*INIS: 1977-01-25; ETDE: 1977-04-13*  
 \*BT1 selenides  
 \*BT1 ytterbium compounds

**YTTERBIUM SILICATES**

\*BT1 silicates  
 \*BT1 ytterbium compounds

**YTTERBIUM SILICIDES**

*INIS: 1978-07-31; ETDE: 1978-09-11*  
 \*BT1 silicides  
 \*BT1 ytterbium compounds

**YTTERBIUM SULFATES**

\*BT1 sulfates  
 \*BT1 ytterbium compounds

**YTTERBIUM SULFIDES**

\*BT1 sulfides  
 \*BT1 ytterbium compounds

**YTTERBIUM TELLURIDES**

*INIS: 1987-09-22; ETDE: 1976-01-07*  
 \*BT1 tellurides  
 \*BT1 ytterbium compounds

**YTTERBIUM TUNGSTATES**

*INIS: 1979-02-21; ETDE: 1979-03-28*  
 \*BT1 tungstates  
 \*BT1 ytterbium compounds

**yttrialite**

1996-07-15  
 (Until June 1996 this was a valid descriptor.)  
 USE silicate minerals  
 USE thorium minerals

**YTTRIUM**

\*BT1 transition elements

**YTTRIUM 100**

*INIS: 1977-06-13; ETDE: 1977-10-20*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 101**

*INIS: 1984-06-21; ETDE: 1981-01-27*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 102**

*INIS: 1977-01-26; ETDE: 1976-11-17*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 103**

*INIS: 1996-06-17; ETDE: 1996-05-31*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 104**

2007-05-14  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 105**

2007-05-14  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 106**

2007-05-14  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 107**

2007-05-14  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 108**

2007-05-14  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 76**

2007-05-14  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 77**

*INIS: 1990-12-05; ETDE: 1991-01-14*  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 78**

2007-05-14  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

**YTTRIUM 79**

*INIS: 1992-03-26; ETDE: 1992-09-30*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

**YTTRIUM 80**

*INIS: 1980-05-14; ETDE: 1979-12-10*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

**YTTRIUM 81**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 82**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

**YTTRIUM 83**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 84**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 85**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 86**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 87**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes  
 RT radioisotope generators

**YTTRIUM 87 TARGET**

INIS: 1977-01-25; ETDE: 1977-04-13

BT1 targets

**YTTRIUM 88**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 88 TARGET**

INIS: 1977-01-25; ETDE: 1977-04-13

BT1 targets

**YTTRIUM 89**

- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes
- \*BT1 yttrium isotopes

**YTTRIUM 89 TARGET**

ETDE: 1976-07-09

BT1 targets

**YTTRIUM 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 92**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 96**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 yttrium isotopes

**YTTRIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 yttrium isotopes

**YTTRIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 yttrium isotopes

**YTTRIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 yttrium isotopes

**YTTRIUM ADDITIONS**

1996-01-25

*Alloys containing not more than 1% Y are listed here.*

RT yttrium alloys

**YTTRIUM ALLOYS**

1995-02-27

*Alloys containing more than 1% Y.*

\*BT1 transition element alloys

NT1 alloy-c-103

NT1 ge 2541

NT1 yttrium base alloys

RT yttrium additions

**yttrium aluminium garnets**

USE aluminium oxides

USE ferrite garnets

USE yttrium compounds

**YTTRIUM ARSENIDES**

INIS: 1996-07-15; ETDE: 1976-09-14

(From June 1996 to February 2008 YTTRIUM COMPOUNDS + ARSENIDES was used for this concept.)

\*BT1 arsenides

\*BT1 yttrium compounds

**YTTRIUM BASE ALLOYS**

\*BT1 yttrium alloys

**YTTRIUM BORIDES**

\*BT1 borides

\*BT1 yttrium compounds

**YTTRIUM BROMIDES**

\*BT1 bromides

\*BT1 yttrium halides

**YTTRIUM CARBIDES**

\*BT1 carbides

\*BT1 yttrium compounds

**YTTRIUM CARBONATES**

\*BT1 carbonates

\*BT1 yttrium compounds

**YTTRIUM CHLORIDES**

\*BT1 chlorides

\*BT1 yttrium halides

**YTTRIUM COMPLEXES**

\*BT1 transition element complexes

**YTTRIUM COMPOUNDS**

1997-06-19

UF yttrium aluminium garnets

BT1 transition element compounds

NT1 yttrium arsenides

NT1 yttrium borides

NT1 yttrium carbides

NT1 yttrium carbonates

NT1 yttrium halides

NT2 yttrium bromides

NT2 yttrium chlorides

NT2 yttrium fluorides

NT2 yttrium iodides

NT1 yttrium hydrides

NT1 yttrium hydroxides

NT1 yttrium nitrates

NT1 yttrium nitrides

NT1 yttrium oxides

NT2 alloy-in-853

NT1 yttrium perchlorates

NT1 yttrium phosphates

NT1 yttrium phosphides

NT1 yttrium selenides

NT1 yttrium silicates

NT1 yttrium silicides

NT1 yttrium sulfates

NT1 yttrium sulfides

NT1 yttrium tellurides

NT1 yttrium tungstates

**YTTRIUM FLUORIDES**

\*BT1 fluorides

\*BT1 yttrium halides

**YTTRIUM HALIDES**

2012-07-25

\*BT1 halides

\*BT1 yttrium compounds

NT1 yttrium bromides

NT1 yttrium chlorides

NT1 yttrium fluorides

NT1 yttrium iodides

**YTTRIUM HYDRIDES**

\*BT1 hydrides

\*BT1 yttrium compounds

**YTTRIUM HYDROXIDES**

\*BT1 hydroxides

\*BT1 yttrium compounds

**YTTRIUM IODIDES**

\*BT1 iodides

\*BT1 yttrium halides

**YTTRIUM IONS**

\*BT1 ions

**YTTRIUM ISOTOPES**

1999-07-16

BT1 isotopes

NT1 yttrium 100

NT1 yttrium 101

NT1 yttrium 102

NT1 yttrium 103

NT1 yttrium 104

NT1 yttrium 105

NT1 yttrium 106

NT1 yttrium 107

NT1 yttrium 108

NT1 yttrium 76

NT1 yttrium 77

NT1 yttrium 78

NT1 yttrium 79

NT1 yttrium 80

NT1 yttrium 81

NT1 yttrium 82

NT1 yttrium 83

NT1 yttrium 84

NT1 yttrium 85

NT1 yttrium 86

NT1 yttrium 87

NT1 yttrium 88

NT1 yttrium 89

NT1 yttrium 90  
 NT1 yttrium 91  
 NT1 yttrium 92  
 NT1 yttrium 93  
 NT1 yttrium 94  
 NT1 yttrium 95  
 NT1 yttrium 96  
 NT1 yttrium 97  
 NT1 yttrium 98  
 NT1 yttrium 99

**YTTRIUM NITRATES**

\*BT1 nitrates  
 \*BT1 yttrium compounds

**YTTRIUM NITRIDES**

\*BT1 nitrides  
 \*BT1 yttrium compounds

**YTTRIUM ORES**

BT1 ores

**YTTRIUM OXIDES**

\*BT1 oxides  
 \*BT1 yttrium compounds  
 NT1 alloy-in-853

**YTTRIUM PERCHLORATES**

1991-09-16

\*BT1 perchlorates  
 \*BT1 yttrium compounds

**YTTRIUM PHOSPHATES**

\*BT1 phosphates  
 \*BT1 yttrium compounds  
 RT phosphate minerals  
 RT xenotime

**YTTRIUM PHOSPHIDES**

INIS: 1977-01-25; ETDE: 1976-08-04

\*BT1 phosphides  
 \*BT1 yttrium compounds

**YTTRIUM SELENIDES**

INIS: 2000-04-12; ETDE: 1975-11-28

\*BT1 selenides  
 \*BT1 yttrium compounds

**YTTRIUM SILICATES**

1996-07-08

\*BT1 silicates  
 \*BT1 yttrium compounds  
 RT kainosite  
 RT silicate minerals

**YTTRIUM SILICIDES**

INIS: 1977-07-05; ETDE: 1976-05-13

\*BT1 silicides  
 \*BT1 yttrium compounds

**YTTRIUM SULFATES**

\*BT1 sulfates  
 \*BT1 yttrium compounds

**YTTRIUM SULFIDES**

\*BT1 sulfides  
 \*BT1 yttrium compounds

**YTTRIUM TELLURIDES**

INIS: 1978-11-24; ETDE: 1975-11-28

\*BT1 tellurides  
 \*BT1 yttrium compounds

**YTTRIUM TUNGSTATES**

INIS: 1980-02-26; ETDE: 1980-03-29

\*BT1 tungstates  
 \*BT1 yttrium compounds

**YUCCA MOUNTAIN**

INIS: 1985-01-17; ETDE: 1984-06-29

BT1 mountains  
 RT nevada  
 RT nevada test site  
 RT radioactive waste disposal

**yugoslav triga-mk-2 reactor**

INIS: 1984-06-22; ETDE: 2002-05-24

USE triga-2-ljubljana reactor

**yugoslav triga-mk-ii reactor**

2000-04-12

USE triga-2-ljubljana reactor

**yugoslavia**

(Prior to March 2004 this was a valid descriptor.)

SEE bosnia and herzegovina  
 SEE croatia  
 SEE montenegro  
 SEE serbia  
 SEE slovenia  
 SEE the former yugoslav republic of macedonia

**yugoslavia (macedonia)**

INIS: 1997-06-05; ETDE: 1998-04-10

USE the former yugoslav republic of macedonia

**yugoslavia r-a reactor vinca**

USE r-a reactor

**yugoslavia r-b reactor vinca**

USE r-b reactor

**YUKAWA NONLOCAL THEORY**

UF non-local quantum field theory

UF nonlocal quantum field theory

\*BT1 quantum field theory

**YUKAWA POTENTIAL**

\*BT1 nuclear potential

RT nucleon-nucleon potential

RT nucleons

**YUKON RIVER**

INIS: 1992-06-04; ETDE: 1978-10-25

\*BT1 rivers

RT alaska

**YUKON TERRITORY**

INIS: 1979-01-18; ETDE: 1979-02-23

\*BT1 canada

**YVON METHOD**

BT1 calculation methods

RT neutron transport theory

RT spherical harmonics

RT transport theory

**Z CENTERS**

\*BT1 color centers

**Z CODES**

BT1 computer codes

**Z NEUTRAL BOSONS**

INIS: 1986-03-04; ETDE: 1985-10-11

(Prior to October 1985 this concept was indexed to INTERMEDIATE VECTOR BOSONS in ETDE.)

\*BT1 intermediate vector bosons

RT zinos

**z pinch devices (linear)**

USE linear z pinch devices

**Z\*BARYONS**

INIS: 1995-07-17; ETDE: 1988-03-11

(Prior to December 1987 this concept was indexed by Z\*RESONANCES.)

UF z\*resonances

\*BT1 hyperons

**z\*resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE z\*baryons

**ZACHARIASEN MODEL**

RT quantum field theory

**zaire republic**

1997-08-20

(Until August 1997 this was a valid descriptor.)

USE democratic republic of the congo

**ZAMAK**

2000-04-12

\*BT1 aluminium alloys

\*BT1 cadmium additions

\*BT1 copper alloys

\*BT1 iron additions

\*BT1 magnesium additions

\*BT1 tin additions

\*BT1 zinc base alloys

**ZAMBIA**

UF northern rhodesia

UF rhodesia (northern)

BT1 africa

BT1 developing countries

**ZAPOROZHE-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

Ukraine.

\*BT1 wwer type reactors

**ZAPOROZHE-2 REACTOR**

INIS: 1986-12-09; ETDE: 1987-02-24

Ukraine.

\*BT1 wwer type reactors

**ZAPOROZHE-3 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

Ukraine.

\*BT1 wwer type reactors

**ZAPOROZHE-4 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

Ukraine.

\*BT1 wwer type reactors

**ZAPOROZHE-5 REACTOR**

2001-02-21

Ukraine.

\*BT1 wwer type reactors

**ZAPOROZHE-6 REACTOR**

2001-02-21

Ukraine.

\*BT1 wwer type reactors

**zarnowiec reactor**

INIS: 2000-04-12; ETDE: 1977-03-04

(Prior to May 2001, this was a valid ETDE descriptor with BT1 PWR TYPE REACTORS.)

USE wwr type reactors

**zea mays**

USE maize

**ZEBRA REACTOR**

UKAEA, Winfrith, United Kingdom.

UF zero energy breeder reactor assembly

\*BT1 fbr type reactors

\*BT1 research reactors

\*BT1 zero power reactors

RT enriched uranium reactors

RT plutonium reactors

**ZED-2 REACTOR**

UF chalk river zed-2 reactor



*UF* organic cooled and heavy water moderated chalk river reactor  
*UF* organic cooled heavy water moderated chalk river reactor  
 \*BT1 air cooled reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 organic cooled reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**ZEEMAN EFFECT**

*UF* zeeman resonance  
*UF* zeeman spectrum  
*UF* zeeman transition  
*RT* double resonance methods  
*RT* magnetic fields  
*RT* magneto-optical effects  
*RT* paschen-back effect  
*RT* spectral shift

**zeeman resonance**

USE zeeman effect

**zeeman spectrum**

USE zeeman effect

**zeeman transition**

USE zeeman effect

**ZEEP REACTOR**

*Chalk River, Ontario, Canada.  
 Decommissioned since 1973.*

*UF* zero energy experimental pile  
 \*BT1 heavy water moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 plutonium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 zero power reactors

**ZEIN**

*INIS: 2000-04-12; ETDE: 1986-01-24  
 A protein powder derived from maize that contributes the major portion of the protein nutrient value of corn.*

\*BT1 proteins  
*RT* maize

**zemach-glauber formalism**

*1996-07-15  
 (Until June 1996 this was a valid descriptor.)  
 SEE scattering  
 SEE thermal neutrons*

**zener diodes**

USE junction diodes

**ZENITH REACTOR**

*UF* zero energy nitrogen heated thermal reactor  
 \*BT1 graphite moderated reactors  
 \*BT1 nitrogen cooled reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors  
*RT* enriched uranium reactors  
*RT* plutonium reactors  
*RT* thorium reactors

**zentralinstitut fuer isotopen- und strahlenforschung leipzig**

*INIS: 1993-11-10; ETDE: 2002-05-24  
 USE zfi leipzig*

**zentralinstitut fuer kernforschung**

*INIS: 1993-11-10; ETDE: 1991-05-17  
 USE zfk rossendorf*

**ZEOLITES**

*A class of hydrated silicates of aluminium and either sodium or calcium or both.  
 (From April 1975 until March 1996  
 ANALCIME was a valid ETDE descriptor.)*

*UF* analcime  
 \*BT1 inorganic ion exchangers  
 \*BT1 silicate minerals  
 NT1 clinoptilolite  
 NT1 faujasite  
 NT1 heulandite  
 NT1 laumontite  
 NT1 mordenite  
 NT1 wairakite  
*RT* desiccants

**ZEPHYR REACTOR**

*UF* zero energy fast reactor-zephyr  
 \*BT1 fast reactors  
 \*BT1 materials testing reactors  
 \*BT1 natural uranium reactors  
 \*BT1 plutonium reactors  
 \*BT1 zero power reactors

**zeran linac**

*INIS: 1996-07-23; ETDE: 1979-05-25  
 (Until July 1996 this was a valid descriptor.)  
 USE linear accelerators*

**ZERLINA REACTOR**

*Bhabha Atomic Research Centre, Trombay,  
 Maharashtra, India. Decommissioned since  
 1983.*

*UF* zero energy reactor for lattice invest.  
 and new assemblies  
 \*BT1 heavy water moderated reactors  
 \*BT1 organic moderated reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**zero-emission vehicles**

*2005-07-05  
 USE low-emission vehicles*

**zero energy balance**

*ETDE: 1976-05-19  
 USE breakeven*

**zero energy breeder reactor assembly**

*1993-11-10  
 USE zebra reactor*

**zero energy experimental pile**

USE zEEP reactor

**zero energy fast reactor-zephyr**

*1993-11-10  
 USE zephyr reactor*

**zero energy nitrogen heated thermal reactor**

*1993-11-10  
 USE zenith reactor*

**zero energy reactor for lattice invest. and new assemblies**

*1993-11-10  
 USE zerlina reactor*

**zero gradient synchrotron**

USE zgs

**zero gravity**

*INIS: 2000-04-12; ETDE: 1981-12-21  
 USE weightlessness*

**zero net carbon emission**

*2016-03-22  
 USE carbon neutrality*

**zero power critical experiment minerve**

*2000-04-12  
 USE minerve reactor*

**zero power reactor (cornell university)**

*INIS: 1993-11-10; ETDE: 2002-05-24  
 USE zpr reactor*

**ZERO POWER REACTORS**

*1995-12-08*

*UF* cepfr-1 reactor  
*UF* critical assemblies  
*UF* hitrex-2 reactor  
*UF* in-core thermionic reactor  
*UF* itr reactor  
*UF* sr-0f reactor  
*UF* thermionic reactor critical experiments  
*UF* trce(thermionic reactor critical experiments)  
*SF* berkeley nuclear laboratory reactor  
*SF* bnl reactor  
*SF* fcel reactor  
 \*BT1 experimental reactors  
 NT1 agata reactor  
 NT1 akr-1 reactor  
 NT1 anex reactor  
 NT1 anna reactor  
 NT1 apfa-3 reactor  
 NT1 aquilon reactor  
 NT1 bfs reactor  
 NT1 big ten reactor  
 NT1 cfrmf reactor  
 NT1 cml reactor  
 NT1 coral-1 reactor  
 NT1 crocus reactor  
 NT1 dca reactor  
 NT1 dimple reactor  
 NT1 ecel reactor  
 NT1 entc lwsr reactor  
 NT1 ermine reactor  
 NT1 etc reactor  
 NT1 fca reactor  
 NT1 flattop reactor  
 NT1 fr-0 reactor  
 NT1 giacint reactor  
 NT1 godiva reactor  
 NT1 hero reactor  
 NT1 hitrex-1 reactor  
 NT1 horace reactor  
 NT1 hwzpr reactor  
 NT1 ica-zpr reactor  
 NT1 ifr reactor  
 NT1 ipen-mb-1 reactor  
 NT1 jezebel reactor  
 NT1 juno reactor  
 NT1 kahter reactor  
 NT1 kbr-1 reactor  
 NT1 kritz reactor  
 NT1 kuca reactor  
 NT1 lptf reactor  
 NT1 lr-0 reactor  
 NT1 lvr-15 reactor  
 NT1 marius reactor  
 NT1 maryla reactor  
 NT1 masurca reactor  
 NT1 minerve reactor  
 NT1 neptune reactor  
 NT1 nsf-rfp reactor  
 NT1 or-cef reactor  
 NT1 ornl-pca reactor  
 NT1 parka reactor  
 NT1 pdp reactor  
 NT1 peggy reactor  
 NT1 pelinduna reactor  
 NT1 plasma core assembly  
 NT1 prf reactor

**NT1** ptf-unc reactor  
**NT1** purnima-2 reactor  
**NT1** purnima reactor  
**NT1** r-b reactor  
**NT1** ra-0 reactor  
**NT1** ra-2 reactor  
**NT1** ra-8 reactor  
**NT1** rake-2 reactor  
**NT1** rb-1 reactor  
**NT1** rb-3 reactor  
**NT1** rensseleer critical facility  
**NT1** ritmo reactor  
**NT1** rospo reactor  
**NT1** saref reactor  
**NT1** shca reactor  
**NT1** silene reactor  
**NT1** siloette reactor  
**NT1** sm-1 subcritical assembly  
**NT1** sneak reactor  
**NT1** split table reactor  
**NT1** sr-0a reactor  
**NT1** stacy reactor  
**NT1** tca reactor  
**NT1** tr-0 reactor  
**NT1** tracy reactor  
**NT1** vera reactor  
**NT1** zebra reactor  
**NT1** zeep reactor  
**NT1** zenith reactor  
**NT1** zephyr reactor  
**NT1** zerlina reactor  
**NT1** zlfr reactor  
**NT1** zpr reactor  
**NT1** zpr-3 reactor  
**NT1** zpr-6 reactor  
**NT1** zpr-9 reactor  
**NT1** zpr reactor  
**NT1** zr-6 reactor  
**RT** reactor lattices

### zero power research reactor-3 (anl)

*INIS: 1993-11-10; ETDE: 2002-05-24*  
 USE zpr-3 reactor

### zero power research reactor-6 (anl)

*INIS: 1993-11-10; ETDE: 2002-05-24*  
 USE zpr-6 reactor

### zero power research reactor-9 (anl)

*INIS: 1993-11-10; ETDE: 2002-05-24*  
 USE zpr-9 reactor

### ZERO-RANGE APPROXIMATION

\*BT1 approximations  
**RT** elastic scattering  
**RT** finite-range interactions  
**RT** nuclear reaction kinetics

### ZERO SOUND

**RT** sound waves  
**RT** superfluidity  
**RT** wave propagation

### zet pinch

USE longitudinal pinch

### ZETA DEVICES

\*BT1 tlp devices

### zeunerite

1996-07-15  
 (Until June 1996 this was a valid descriptor.)  
 USE oxide minerals  
 USE uranium minerals

### ZFI LEIPZIG

*INIS: 1986-05-23; ETDE: 1986-11-18*  
*Zentralinstitut fuer Isotopen- und Strahlenforschung, Leipzig.*  
**UF** institut fuer isotopen- und strahlenforschung leipzig

**UF** leipzig zfi  
**UF** zentralinstitut fuer isotopen- und strahlenforschung leipzig  
 \*BT1 german fr organizations

### ZFK ROSSENDORF

*INIS: 1977-02-08; ETDE: 1977-04-13*  
*Zentralinstitut fuer Kernforschung, Rossendorf, Germany.*  
**UF** rossendorf zfk  
**UF** zentralinstitut fuer kernforschung  
 \*BT1 german fr organizations

### ZGS

**UF** argonne zgs  
**UF** zero gradient synchrotron  
 \*BT1 synchrotrons

### zhuravlev process

2000-04-12  
 (Prior to July 1993, this was a valid ETDE descriptor.)  
 USE coal gasification

### ZIEGLER CATALYST

**BT1** catalysts  
**RT** catalysis

### ZIKA VIRUS

2018-07-17  
 \*BT1 viruses  
**RT** mosquitoes  
**RT** viral diseases

### ZIMBABWE

*INIS: 1980-09-12; ETDE: 1980-10-07*  
 (Prior to October 1980 this concept was indexed to SOUTHERN RHODESIA in ETDE.)  
**BT1** africa  
**BT1** developing countries  
**NT1** southern rhodesia

### ZIMMER-1 REACTOR

*Cincinnati Gas and Electric Co., Moscow, Ohio, USA. Canceled in 1984 before construction began.*  
**UF** william h. zimmer-1 reactor  
 \*BT1 bwr type reactors

### ZIMMER-2 REACTOR

1980-02-26  
*Cincinnati Gas and Electric Co., Moscow, Ohio, USA. Canceled in 1978 before construction began.*  
**UF** william h. zimmer-2 reactor  
 \*BT1 bwr type reactors

### ZINC

\*BT1 metals

### ZINC 54

2008-01-28  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 zinc isotopes

### ZINC 55

2008-01-28  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 zinc isotopes

### ZINC 56

2008-01-28  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 zinc isotopes

### ZINC 57

*INIS: 1976-05-05; ETDE: 1976-06-07*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 zinc isotopes

### ZINC 58

*INIS: 1986-09-26; ETDE: 1984-05-08*  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 zinc isotopes

### ZINC 59

*INIS: 1982-06-09; ETDE: 1982-03-10*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 zinc isotopes

### ZINC 60

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 zinc isotopes

### ZINC 61

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 zinc isotopes

### ZINC 62

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 zinc isotopes

### ZINC 63

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 zinc isotopes

### ZINC 64

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 zinc isotopes

### ZINC 64 REACTIONS

*INIS: 1983-10-14; ETDE: 1983-11-09*  
 \*BT1 heavy ion reactions

### ZINC 64 TARGET

*ETDE: 1976-07-09*  
**BT1** targets

### ZINC 65

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 zinc isotopes

### ZINC 65 TARGET

*INIS: 1984-05-24; ETDE: 1984-02-10*  
**BT1** targets

### ZINC 66

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei

- \*BT1 stable isotopes
- \*BT1 zinc isotopes

**ZINC 66 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZINC 67**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zinc isotopes

**ZINC 67 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZINC 68**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zinc isotopes

**ZINC 68 REACTIONS**

INIS: 1976-03-02; ETDE: 1976-04-19

- \*BT1 heavy ion reactions

**ZINC 68 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZINC 69**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 70**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zinc isotopes

**ZINC 70 REACTIONS**

INIS: 1978-02-23; ETDE: 1978-05-01

- \*BT1 heavy ion reactions

**ZINC 70 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZINC 71**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 72**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zinc isotopes

**ZINC 73**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 74**

1976-11-08

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 75**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 76**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 77**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 78**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 79**

INIS: 1977-06-13; ETDE: 1976-07-07

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 80**

INIS: 1985-06-07; ETDE: 1985-07-18

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 81**

1992-03-18

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 82**

2008-01-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zinc isotopes

**ZINC 83**

2008-01-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zinc isotopes

**ZINC ADDITIONS**

Alloys containing not more than 1% Zn are listed here.

- \*BT1 zinc alloys
- NT1 nickeline alloy

**ZINC-AIR BATTERIES**

2000-04-12

- \*BT1 metal-gas batteries

**ZINC ALLOYS**

1996-06-28

Alloys containing more than 1% Zn.

- UF german silver
- UF nickel silver
- UF white copper

- BT1 alloys
- NT1 brass
- NT2 brass-alpha
- NT2 brass-beta
- NT1 lynite
- NT1 magnesium alloy-az31b
- NT1 magnesium alloy-ez
- NT1 magnesium alloy-zr
- NT1 muntz metal
- NT1 ounce metal
- NT1 zinc additions
- NT2 nickeline alloy
- NT1 zinc base alloys
- NT2 zamak

**ZINC ARSENIDES**

1978-07-03

- \*BT1 arsenides
- BT1 zinc compounds

**ZINC BASE ALLOYS**

- \*BT1 zinc alloys
- NT1 zamak

**ZINC BORIDES**

- \*BT1 borides
- BT1 zinc compounds

**ZINC BROMIDES**

- \*BT1 bromides
- \*BT1 zinc halides

**ZINC-BROMINE BATTERIES**

INIS: 1992-09-30; ETDE: 1979-02-23

- \*BT1 metal-nonmetal batteries

**ZINC CARBIDES**

- \*BT1 carbides
- BT1 zinc compounds

**ZINC CARBONATES**

- \*BT1 carbonates
- BT1 zinc compounds

**ZINC CHLORIDES**

- \*BT1 chlorides
- \*BT1 zinc halides

**ZINC-CHLORINE BATTERIES**

2000-04-12

- \*BT1 metal-gas batteries

**ZINC COMPLEXES**

- BT1 complexes

**ZINC COMPOUNDS**

1997-06-19

- NT1 zinc arsenides
- NT1 zinc borides
- NT1 zinc carbides
- NT1 zinc carbonates
- NT1 zinc halides
- NT2 zinc bromides
- NT2 zinc chlorides
- NT2 zinc fluorides
- NT2 zinc iodides
- NT1 zinc hydrides
- NT1 zinc hydroxides
- NT1 zinc nitrates
- NT1 zinc nitrides
- NT1 zinc oxides
- NT1 zinc perchlorates
- NT1 zinc phosphates
- NT1 zinc phosphides
- NT1 zinc selenides
- NT1 zinc silicates
- NT1 zinc silicides
- NT1 zinc sulfates
- NT1 zinc sulfides
- NT1 zinc tellurides
- NT1 zinc tungstates
- NT1 zincates

**zinc distillation process**

INIS: 1980-07-24; ETDE: 1979-12-10

USE pyrochemical reprocessing

**ZINC FLUORIDES**

- \*BT1 fluorides
- \*BT1 zinc halides

**zinc halide process**

INIS: 2000-04-12; ETDE: 1976-07-07

Conoco Coal Development Company process using zinc halide catalyst for the hydrogenation and hydrocracking of coal extract and of subbituminous coal. (Prior to March 1994, this was a valid ETDE descriptor.)

USE coal liquefaction

**ZINC HALIDES**

1991-09-16

- \*BT1 halides
- BT1 zinc compounds
- NT1 zinc bromides
- NT1 zinc chlorides
- NT1 zinc fluorides
- NT1 zinc iodides

**ZINC HYDRIDES**

1976-11-08

- \*BT1 hydrides
- BT1 zinc compounds

**ZINC HYDROXIDES**

- \*BT1 hydroxides
- BT1 zinc compounds

**ZINC IODIDES**

- \*BT1 iodides
- \*BT1 zinc halides

**ZINC IONS**

- \*BT1 ions

**ZINC ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 zinc 54
- NT1 zinc 55
- NT1 zinc 56
- NT1 zinc 57
- NT1 zinc 58
- NT1 zinc 59
- NT1 zinc 60
- NT1 zinc 61
- NT1 zinc 62
- NT1 zinc 63
- NT1 zinc 64
- NT1 zinc 65
- NT1 zinc 66
- NT1 zinc 67
- NT1 zinc 68
- NT1 zinc 69
- NT1 zinc 70
- NT1 zinc 71
- NT1 zinc 72
- NT1 zinc 73
- NT1 zinc 74
- NT1 zinc 75
- NT1 zinc 76
- NT1 zinc 77
- NT1 zinc 78
- NT1 zinc 79
- NT1 zinc 80
- NT1 zinc 81
- NT1 zinc 82
- NT1 zinc 83

**ZINC-MANGANESE BATTERIES**

2000-04-12

- \*BT1 metal-metal oxide batteries

**ZINC NITRATES**

- \*BT1 nitrates
- BT1 zinc compounds

**ZINC NITRIDES**

2000-04-12

- \*BT1 nitrides
- BT1 zinc compounds

**ZINC ORES**

- BT1 ores

**ZINC OXIDES**

- \*BT1 oxides
- BT1 zinc compounds

**ZINC PERCHLORATES**

2000-04-12

- \*BT1 perchlorates
- BT1 zinc compounds

**ZINC PHOSPHATES**

- \*BT1 phosphates
- BT1 zinc compounds

**ZINC PHOSPHIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-01-30

- \*BT1 solar cells

**ZINC PHOSPHIDES**

INIS: 1978-04-21; ETDE: 1975-12-16

- \*BT1 phosphides
- BT1 zinc compounds

**ZINC SELENIDES**

- \*BT1 selenides
- BT1 zinc compounds

**ZINC SILICATES**

- \*BT1 silicates
- BT1 zinc compounds

**ZINC SILICIDES**

2000-04-12

- \*BT1 silicides
- BT1 zinc compounds

**ZINC SULFATES**

- \*BT1 sulfates
- BT1 zinc compounds

**ZINC SULFIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

- \*BT1 solar cells

**ZINC SULFIDES**

- \*BT1 inorganic phosphors
- \*BT1 sulfides
- BT1 zinc compounds

**ZINC TELLURIDES**

1976-02-11

- \*BT1 tellurides
- BT1 zinc compounds

**ZINC TUNGSTATES**

INIS: 1981-11-25; ETDE: 1982-01-07

- \*BT1 tungstates
- BT1 zinc compounds

**ZINCATES**

INIS: 2000-04-12; ETDE: 1976-03-11

- BT1 zinc compounds

**ZINOS**

2013-08-26

- \*BT1 sparticles
- RT neutralinos
- RT z neutral bosons

**ZION-1 REACTOR**

Commonwealth Edison Co., Zion, Illinois, USA. Shut down in 1997.

UF zion station unit-1

- \*BT1 pwr type reactors

**ZION-2 REACTOR**

Commonwealth Edison Co., Zion, Illinois, USA. Shut down in 1996.

UF zion station unit-2

- \*BT1 pwr type reactors

**zion station unit-1**

USE zion-1 reactor

**zion station unit-2**

USE zion-2 reactor

**zippeite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE sulfate minerals
- USE uranium minerals

**ZIRCALOY**

For unspecified Zircaloy alloys.

- \*BT1 zirconium base alloys

NT1 alloy-zr98sn-2

NT2 zircaloy 2

NT1 alloy-zr98sn-4

NT2 zircaloy 4

**ZIRCALOY 2**

1993-10-03

- \*BT1 alloy-zr98sn-2

**ZIRCALOY 4**

1993-10-03

- \*BT1 alloy-zr98sn-4

**ZIRCON**

- \*BT1 silicate minerals

RT caldasite

RT zirconium silicates

**ZIRCONATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor, except for the NTs listed below.

BT1 oxygen compounds

\*BT1 zirconium compounds

NT1 plzt

NT1 pzt

RT zirconium oxides

**ZIRCONIUM**

- \*BT1 transition elements

NT1 zirconium-alpha

NT1 zirconium-beta

NT1 zirconium-omega

**ZIRCONIUM 100**

- \*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

\*BT1 zirconium isotopes

**ZIRCONIUM 101**

- \*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

\*BT1 zirconium isotopes

**ZIRCONIUM 102**

- \*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

\*BT1 zirconium isotopes

**ZIRCONIUM 103**

- \*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 104**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 105**

2006-09-04

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 106**

2007-05-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 107**

2007-05-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 108**

2007-05-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 109**

2006-09-04

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 110**

2007-05-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 78**

2007-05-14

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 79**

2007-05-14

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 80**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 81**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 82**

- \*BT1 beta-plus decay radioisotopes

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 83**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 84**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 85**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 86**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 87**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 88**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 89**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 90**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 90 REACTIONS**

INIS: 1984-06-21; ETDE: 1984-07-10

- \*BT1 heavy ion reactions

**ZIRCONIUM 90 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZIRCONIUM 91**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 91 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZIRCONIUM 92**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 92 REACTIONS**

INIS: 1985-01-17; ETDE: 1985-02-22

- \*BT1 heavy ion reactions

**ZIRCONIUM 92 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZIRCONIUM 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 years living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 93 TARGET**

INIS: 1986-01-21; ETDE: 1981-08-21

- BT1 targets

**ZIRCONIUM 94**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 94 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZIRCONIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 96**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 96 REACTIONS**

INIS: 1985-01-17; ETDE: 1985-02-22

- \*BT1 heavy ion reactions

**ZIRCONIUM 96 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZIRCONIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM ADDITIONS**

1996-07-17

*Alloys containing not more than 1% Zr are listed here.*

- \*BT1 zirconium alloys
- NT1 alloy-in-102
- NT1 alloy-mo99
- NT2 alloy-tzm
- NT2 alloy-zm-2a
- NT1 alloy-mo99b
- NT1 alloy-n-10m
- NT1 alloy-n-9m
- NT1 alloy-ni43fe33cr16mo3
- NT2 nimonic pe16
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni55co17cr15mo5al4ti4
- NT2 astroloy
- NT1 alloy-ni58cr20co14mo4ti3
- NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni74cr13al6mo4
- NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
- NT2 inconel 713lc
- NT1 alloy-ni76cr20ti2
- NT2 nimonic 80a
- NT1 magnesium alloy-ek
- NT1 magnesium alloy-ez
- NT1 magnesium alloy-hk31a
- NT1 rene 80
- NT1 rene 95

**ZIRCONIUM ALLOYS**

1995-02-27

*Alloys containing more than 1% Zr.*

- UF transage 129
- UF transage 134
- \*BT1 transition element alloys
- NT1 alloy-c-103
- NT1 alloy-ti89al6mo3
- NT1 alloy-ti90al6
- NT1 alloy-u90nb7zr3
- NT1 alloy-v87cr9fe3
- NT1 zirconium additions
- NT2 alloy-in-102
- NT2 alloy-mo99
- NT3 alloy-tzm
- NT3 alloy-zm-2a
- NT2 alloy-mo99b
- NT2 alloy-n-10m
- NT2 alloy-n-9m
- NT2 alloy-ni43fe33cr16mo3
- NT3 nimonic pe16
- NT2 alloy-ni46cr23co19ti5al4
- NT3 alloy-in-939
- NT2 alloy-ni55co17cr15mo5al4ti4
- NT3 astroloy
- NT2 alloy-ni58cr20co14mo4ti3
- NT3 waspaloy
- NT2 alloy-ni59cr20co17ti2
- NT2 alloy-ni60co15cr10al6ti5mo3
- NT3 alloy-in-100
- NT2 alloy-ni61cr16co9al3ti3w3
- NT3 alloy-in-738
- NT2 alloy-ni74cr13al6mo4
- NT3 inconel 713c
- NT2 alloy-ni75cr12al6mo5
- NT3 inconel 713lc
- NT2 alloy-ni76cr20ti2
- NT3 nimonic 80a
- NT2 magnesium alloy-ek
- NT2 magnesium alloy-ez
- NT2 magnesium alloy-hk31a
- NT2 rene 80

- NT2 rene 95
- NT1 zirconium base alloys
- NT2 alloy-zr97nb3
- NT2 zircaloy
- NT3 alloy-zr98sn-2
- NT4 zircaloy 2
- NT3 alloy-zr98sn-4
- NT4 zircaloy 4

**ZIRCONIUM-ALPHA**

- \*BT1 zirconium

**ZIRCONIUM ARSENIDES***INIS: 1996-07-15; ETDE: 1976-12-16**(From June 1996 to February 2008**ZIRCONIUM COMPOUNDS + ARSENIDES**was used for this concept.)*

- \*BT1 arsenides
- \*BT1 zirconium compounds

**ZIRCONIUM BASE ALLOYS**

- \*BT1 zirconium alloys
- NT1 alloy-zr97nb3
- NT1 zircaloy
- NT2 alloy-zr98sn-2
- NT3 zircaloy 2
- NT2 alloy-zr98sn-4
- NT3 zircaloy 4

**ZIRCONIUM-BETA**

- \*BT1 zirconium

**ZIRCONIUM BORIDES**

- \*BT1 borides
- \*BT1 zirconium compounds

**ZIRCONIUM BROMIDES**

- \*BT1 bromides
- \*BT1 zirconium halides

**ZIRCONIUM CARBIDES**

- \*BT1 carbides
- \*BT1 zirconium compounds

**ZIRCONIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 zirconium compounds

**ZIRCONIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 zirconium halides

**ZIRCONIUM COMPLEXES**

- \*BT1 transition element complexes

**ZIRCONIUM COMPOUNDS**

1996-07-08

- BT1 transition element compounds
- NT1 zirconates
- NT2 plzt
- NT2 pzt
- NT1 zirconium arsenides
- NT1 zirconium borides
- NT1 zirconium carbides
- NT1 zirconium carbonates
- NT1 zirconium halides
- NT2 zirconium bromides
- NT2 zirconium chlorides
- NT2 zirconium fluorides
- NT2 zirconium iodides
- NT1 zirconium hydrides
- NT1 zirconium hydroxides
- NT1 zirconium nitrates
- NT1 zirconium nitrides
- NT1 zirconium oxides
- NT1 zirconium perchlorates
- NT1 zirconium phosphates
- NT1 zirconium phosphides
- NT1 zirconium selenides
- NT1 zirconium silicates
- NT1 zirconium silicides
- NT1 zirconium sulfates
- NT1 zirconium sulfides

- NT1 zirconium tellurides
- NT1 zirconium tungstates

**ZIRCONIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 zirconium halides

**ZIRCONIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 zirconium compounds
- NT1 zirconium bromides
- NT1 zirconium chlorides
- NT1 zirconium fluorides
- NT1 zirconium iodides

**ZIRCONIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 zirconium compounds
- RT hydride moderators

**ZIRCONIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 zirconium compounds

**ZIRCONIUM IODIDES**

- \*BT1 iodides
- \*BT1 zirconium halides

**ZIRCONIUM IONS**

- \*BT1 ions

**ZIRCONIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 zirconium 100
- NT1 zirconium 101
- NT1 zirconium 102
- NT1 zirconium 103
- NT1 zirconium 104
- NT1 zirconium 105
- NT1 zirconium 106
- NT1 zirconium 107
- NT1 zirconium 108
- NT1 zirconium 109
- NT1 zirconium 110
- NT1 zirconium 78
- NT1 zirconium 79
- NT1 zirconium 80
- NT1 zirconium 81
- NT1 zirconium 82
- NT1 zirconium 83
- NT1 zirconium 84
- NT1 zirconium 85
- NT1 zirconium 86
- NT1 zirconium 87
- NT1 zirconium 88
- NT1 zirconium 89
- NT1 zirconium 90
- NT1 zirconium 91
- NT1 zirconium 92
- NT1 zirconium 93
- NT1 zirconium 94
- NT1 zirconium 95
- NT1 zirconium 96
- NT1 zirconium 97
- NT1 zirconium 98
- NT1 zirconium 99

**ZIRCONIUM NITRATES**

- \*BT1 nitrates
- \*BT1 zirconium compounds

**ZIRCONIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 zirconium compounds

**ZIRCONIUM-OMEGA**

- \*BT1 zirconium

**ZIRCONIUM ORES**

1986-03-04

- BT1 ores

**ZIRCONIUM OXIDES**

- \*BT1 oxides
- \*BT1 zirconium compounds
- RT baddeleyite
- RT marignacite
- RT naegite
- RT nogizawalite
- RT oxide minerals
- RT zirconates
- RT zirconolite

**ZIRCONIUM PERCHLORATES**

- INIS: 1981-02-27; ETDE: 1978-03-03
- \*BT1 perchlorates
- \*BT1 zirconium compounds

**ZIRCONIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 zirconium compounds

**ZIRCONIUM PHOSPHIDES**

- \*BT1 phosphides
- \*BT1 zirconium compounds

**ZIRCONIUM SELENIDES**

- \*BT1 selenides
- \*BT1 zirconium compounds

**ZIRCONIUM SILICATES**

- 1996-11-13
- \*BT1 silicates
- \*BT1 zirconium compounds
- RT alvite
- RT lavenite
- RT lovozerite
- RT mesodialyte
- RT silicate minerals
- RT zircon

**ZIRCONIUM SILICIDES**

- 1976-11-08
- \*BT1 silicides
- \*BT1 zirconium compounds

**ZIRCONIUM SULFATES**

- \*BT1 sulfates
- \*BT1 zirconium compounds

**ZIRCONIUM SULFIDES**

- \*BT1 sulfides
- \*BT1 zirconium compounds

**ZIRCONIUM TELLURIDES**

- INIS: 1976-11-08; ETDE: 1976-12-16
- \*BT1 tellurides
- \*BT1 zirconium compounds

**ZIRCONIUM TUNGSTATES**

- 1978-09-28
- \*BT1 tungstates
- \*BT1 zirconium compounds

**ZIRCONOLITE**

- INIS: 1981-09-17; ETDE: 1981-06-13
- \*BT1 oxide minerals
- RT calcium oxides
- RT synroc process
- RT titanium oxides
- RT zirconium oxides

**ZIRFLEX PROCESS**

- \*BT1 reprocessing
- RT solvent extraction

**zittauer lehr- und forschungsreaktor**

- 1980-11-07
- USE zlfr reactor

**ZITTERBEWEGUNG**

- RT quantum mechanics

**ZLFR REACTOR**

1980-11-07  
 Ingenieurhochschule, Zittau, Federal Republic of Germany. Decommissioned since 2006.

- UF wwr-s-zittau reactor
- UF zittauer lehr- und forschungsreaktor
- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 training reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors
- \*BT1 zero power reactors

**ZODIACAL LIGHT**

- UF gegenschein
- UF light (zodiacal)
- \*BT1 electromagnetic radiation
- RT interplanetary space
- RT solar radiation

**zoe reactor**

- USE el-1 reactor

**ZONE MELTING**

- UF floating zone techniques
- BT1 crystal growth methods
- \*BT1 melting
- RT crystal growth
- RT ribbon-to-ribbon method

**ZONE REFINING**

- \*BT1 refining
- BT1 separation processes
- RT crystallization
- RT metallurgy
- RT reprocessing

**ZONES**

- NT1 brillouin zones
- NT1 guinier-preston zones
- NT1 heat affected zone

**zones (auroral)**

- USE auroral zones

**zones (rift)**

- INIS: 2000-04-12; ETDE: 1980-11-08
- USE rift zones

**zones (temperate)**

- INIS: 2000-04-12; ETDE: 1980-11-08
- USE temperate zones

**zoning**

- INIS: 2000-04-12; ETDE: 1980-05-06
- USE land use

**ZOOLOGY**

- BT1 biology

**ZOOPLANKTON**

INIS: 1993-07-20; ETDE: 1977-01-10  
 (Until July 1993, this concept was indexed by PLANKTON.)

- \*BT1 plankton
- RT copepods
- RT crustaceans
- RT daphnia
- RT protozoa

**ZORITA-1 REACTOR**

Permanent shutdown since 2006.  
 UF central nuclear de zorita-1  
 UF jose cabrera reactor  
 \*BT1 pwr type reactors

**ZPPR REACTOR**

ANL/INEEL, Idaho Falls, Idaho, USA. Zero power reactor. Shut down in 1992; in standby mode.

- \*BT1 fast reactors
- \*BT1 research reactors
- \*BT1 zero power reactors

**ZPR-3 REACTOR**

ANL/INEEL, Idaho Falls, Idaho, USA. Variously fueled, unmoderated, uncooled. Shut down in 1970.

- UF anl zero power research reactor-3
- UF zero power research reactor-3 (anl)
- \*BT1 fast reactors
- \*BT1 zero power reactors

**ZPR-6 REACTOR**

ANL, Argonne, Illinois, USA. Variously fueled, unmoderated, uncooled. Shut down in 1981.

- UF anl zero power research reactor-6
- UF zero power research reactor-6 (anl)
- \*BT1 fast reactors
- \*BT1 zero power reactors

**ZPR-9 REACTOR**

ANL, Argonne, Illinois, USA. Uncooled. Shut down in 1982.

- UF anl zero power research reactor-9
- UF zero power research reactor-9 (anl)
- \*BT1 fast reactors
- \*BT1 zero power reactors
- RT breeder reactors
- RT propulsion reactors

**ZPR REACTOR**

Cornell Univ., Ward Laboratory of Nuclear Engineering, Ithaca, New York, USA.

- UF cornell university zero power reactor
- UF zero power reactor (cornell university)
- \*BT1 enriched uranium reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 training reactors
- \*BT1 zero power reactors

**ZR-6 REACTOR**

INIS: 1981-10-15; ETDE: 1975-07-29  
 Central Research Institute for Physics, Budapest, Hungary. Decommissioned since 1990. Permanent shutdown since 2006.

- \*BT1 water cooled reactors
- \*BT1 zero power reactors

**ZRR REACTOR**

Czechoslovakia.

- \*BT1 experimental reactors
- \*BT1 fast reactors
- \*BT1 sodium cooled reactors

**ZT-40 DEVICES**

INIS: 1978-04-21; ETDE: 1978-01-23  
 Los Alamos Experiment on reverse-field pinch.

- \*BT1 reversed-field pinch devices
- RT reverse-field pinch

**ZT-P DEVICES**

INIS: 1986-09-26; ETDE: 1986-04-11

- \*BT1 reversed-field pinch devices
- RT reverse-field pinch

**zuni event**

INIS: 1994-10-14; ETDE: 1984-05-23  
 A test made during PROJECT REDWING. (Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE surface explosions

**zwentendorf reactor**

INIS: 1982-09-21; ETDE: 1982-10-20

USE tullnerfeld reactor

**ZWITTERIONIC COMPOUNDS**

2007-03-05

Neutral compounds having formal unit electrical charges of opposite sign on different atoms.

UF zwitterions

BT1 polar compounds

**zwitterions**

2007-03-05

USE zwitterionic compounds

**ZYGOTES**

INIS: 1993-07-20; ETDE: 1976-02-20

BT1 embryos

RT fertilization

RT gametes

RT ontogenesis

RT reproduction

**ZYMOMONAS MOBILIS**

INIS: 1993-07-20; ETDE: 1982-05-12

\*BT1 bacteria

RT anaerobic conditions

**ZYMOSAN**

1996-07-23

A protein-carbohydrate complex isolated from yeast used to activate the immune system in response to microbial infection. The action of zymosan derives from its ability to stimulate properidin.

RT complement

RT polysaccharides

RT yeasts