SYMBOLS

c	solute concentration in water
d	thickness
d	deuterium excess
f	residence-time distribution function
g	acceleration due to gravity
h	height
k	distribution coefficient
m	thickness
q	deposition rate
r	residual fraction
s	slope
t	age, time
$\bar{t}$	mean residence time
v	velocity
x	proportion for mixing; x coordinate
y	horizontal axis, y coordinate
z	length, distance; z coordinate
A	area; amplitude;specific activity = disintegrations/s
D	diffusion or dispersion coefficient
H	relative humidity; enthalpy
J	flux of solute
K	hydraulic conductivity
M	mass
N_{Sat}	saturated water vapour density
MIX	mixed sample
Q	discharge, recharge, evaporation rate
R	atomic ratio between a rare and the abundant isotope of an element
S	storage coefficient or degree of saturation
T	temperature
$T_{1/2}$	half-life
V	volume
X	end-member of mixing
Y	mixed sample
α	equilibrium fractionation factor
α_{kin}	kinetic fractionation factor
β	compressibility of the rock, water
δ	relative deviation of an isotope ratio from that of a standard
ε	enrichment or depletion = $\alpha - 1$
λ	radioactive decay constant
ρ	density of liquid or vapour
σ	standard deviation
τo	tortuosity
Δ	difference
??	volumetric water content, humidity, field capacity
Σ	sum

SUBSCRIPTS

aqu	aquifer
atm	atmospheric
avg	average
bnd	bound
cap	capillary
char	characteristic
diff	diffusion
dis	discharge
disp	dispersion
ef	evaporation front
eff	effective
equ	equilibrium
eva	evaporation
gas	gas
in	input
init	initial
isot	isotope species
kin	kinetic
liq	liquid
mob	mobile
out	output
por	pores
rec	recharge
res	feed soil water
rock	rock
sol	solid
spl	sample
std	standard
tot	total
trac	tracer