

Appendix C. List of symbols used in text, part I

Symbol	Term
A	Cross-sectional area
A_p	Area of point of sampling spoon
a	Area of manometer
b	Thickness; effective stress due to buoyant weight of submerged deposits
b'	Thickness of aquitard
C	D/R
C_c	Compression index
C_v	Coefficient of consolidation
D	Depth to compressing beds
dh/dt	Rate of subsidence
E	Young's modulus
e	Void ratio; e_0 , initial void ratio
G	Specific gravity
H	Total subsidence
H_0	Initial thickness
h	Applied stress; difference in head; head at given elapsed time
h_a	Average head in aquitard
h_c	Head in confined system
h_0	Head at zero time
h_u	Head in unconfined system
J	Seepage stress
K	Hydraulic conductivity
K'	Vertical hydraulic conductivity
L	Length of flow
M_v	Coefficient of volume compressibility

Symbol	Term
\bar{N}	Average of N (blows)
n	Porosity
p	Total stress (geostatic pressure); water level
p'	Effective stress (effective overburden pressure)
p _a	Applied stress
P ₀	Reference water level
Q	Amount of liquid production; quantity of water discharged in unit time
R	Radius of stressed system
R _u	Ultimate bearing resistance
r _s	Specific retention
S	Storage coefficient; effective stress due to weight of unsaturated deposits
S _C	Final subsidence
S ₀	Sorting coefficient
S _s	Specific storage
S' _s	Specific storage of aquitard (compressible bed)
S _{ke}	Component of S attributable to elastic deformation of the aquifer-system skeleton
S _{ske}	Component of S _s due to elastic deformation of aquifer-system skeleton
S _{kv}	Component of S attributable to inelastic (virgin) deformation, of aquifer-system skeleton
S _{skv}	Component of S _s due to inelastic (virgin) deformation of aquifer-system skeleton
S _{sw}	Component due to compressibility of water
S' _{sk}	Component of specific storage due to compressibility of aquitard
S' _{skv}	S _{kv} /b'; b' is aggregate thickness of aquitards
s	Amount of subsidence; drawdown
T	Transmissivity; time factor
t	time
U	Degree of consolidation
U _t	Excess pore pressure at time t
U _w	Pore pressure (fluid pressure or neutral stress)

Symbol	Term
\bar{v}	Flow velocity vector
w	Moisture content, per cent of dry weight
w_L	Liquid limit
w_P	Plastic limit
Y_s	Specific yield
z	Depth
α_{ke}	Compressibility of aquifer-system skeleton in elastic range of stress
α_{kv}	Compressibility of aquifer-system skeleton in virgin range of stressing
β_w	Compressibility of water
γ	Submerged unit weight
γ_b	Buoyant unit weight of saturated deposits
γ_d	Dry unit weight
γ_m	Moist unit weight
γ_s	Unit weight of solids
γ_w	Unit weight of water
$\Delta p'$	Change in effective stress
ν	Diffusivity; Poisson's ratio
τ	Time constant

