

## Common Designations for Several Important Boundary Conditions

After:

Definition of Boundary and Initial Conditions in the Analysis of Saturated Gournnd-Water Flow Systems - An Introduction, O. Lehn Franke, Thomas E. Reilly, and Gordon D. Bennett, USGS - TWRI Chapter B5, Book 3, 1987.

BOUNDARY CONDITION NAME	BOUNDARY TYPE & GENERAL NAME	FORMAL NAME	MATHEMATICAL DESCRIPTION
Constant Head & Specified Head	Type 1  specified head	Dirichlet	$h = \text{constant}$
No-Flow & Specified Flux	Type 2  specified flux	Neumann	$\frac{dh}{dl} = \text{constant}$
Head-dependent Flux	Type 3  mixed condition	Cauchy	$\frac{dh}{dl} + Ch = \text{constant}$  and C is constant