

Some
Mathe-
matical
Notations

$a \equiv b$, a is 'identically equal to b

$A \Rightarrow B$, A implies B

$A \Leftrightarrow B$, A implies B and B implies A .

\exists , there exists or there exist

\ni , such that

\therefore , therefore

\because , because

iff, if and only if

$\{a_i\}$, the set of all elements a_1, a_2, \dots
upto the terminal value of i .

δ_{mn} , Kronecker δ function for discrete
indices m and n . It equals 1 when
 $m=n$ and 0 when $m \neq n$.

$\delta(x-y)$, Dirac delta function for continuous
arguments x and y .

$\Phi[f(x)]$, Φ is a functional of f . f is a
function of x .