

Variable Key

E	Electric Field Intensity
D	Electric Current Density
H	Magnetic Field Intensity
B	Magnetic Flux Density
J	Current Density
φ_v	Volume Charge Density
c	Free Space Velocity
ϵ_0	Free Space Permittivity
μ_0	Free Space Permiability
$\frac{d\vec{D}}{dt} \equiv J_d$	Displacement Current Density
V	Electric Potential
Q	Charge
q_{ev}	Electric Current Density
$\vec{J} = \text{Conduction Current} + \text{Convection Current}$	
$\sigma \vec{E}$	Conduction Current
σ	Conductivity
$\varphi_v \vec{v}$	Convection Current
\vec{v}	Velocity of Charge