

Symbols/units

Symbol	Quantity	Unit
V	(electric) potential	volt
E	electric field	volt/metre
B	magnetic flux density (magnetic induction)	Tesla = Weber/metre ² = volt.second/metre ²
H	magnetic field strength (intensity)	amp/metre = Coulomb/metre/second
A	vector potential	volt.second/metre
ρ	volume charge density	Coulomb/metre ³
σ	surface charge density	Coulomb/metre ²
J	current density	amp/metre ²
p	(electric) dipole moment	Coulomb.metre
P	polarisation (dipole moment/volume)	Coulomb/metre ²
D	electric displacement	Coulomb/metre ²
m	magnetic dipole moment	amp.metre ²
M	magnetisation (magnetic dipole moment/volume)	amp/metre
χ_e	electric susceptibility	
χ_m	magnetic susceptibility	
ϵ_0	permittivity of free space	8.85×10^{-12} Farad/metre = Coulomb/volt/metre
μ_0	permeability of free space	$4\pi \times 10^{-7}$ Henry/metre = volt.second ² /Coulomb/metre
c	velocity of light in free space	3.0×10^8 metre/second
e (q)	magnitude of electronic charge	1.6×10^{-19} Coulomb