





## PHYSICAL CONSTANTS

Quantity (Units)	Symbol	Best Experimental Value	Approximate Value for Problem Work
Permittivity of free space (F/m)	$\epsilon_0$	$8.854 \times 10^{-12}$	$\frac{10^{-9}}{36\pi}$
Permeability of free space (H/m)	$\mu_0$	$4\pi \times 10^{-7}$	$12.6 \times 10^{-7}$
Intrinsic impedance of free space ( $\Omega$ )	$\eta_0$	376.6	$120\pi$
Speed of light in vacuum (m/s)	$c$	$2.998 \times 10^8$	$3 \times 10^8$
Electron charge (C)	$e$	$-1.6030 \times 10^{-19}$	$-1.6 \times 10^{-19}$
Electron mass (Kg)	$m_e$	$9.1066 \times 10^{-31}$	$9.1 \times 10^{-31}$
Proton mass (kg)	$m_p$	$1.67248 \times 10^{-27}$	$1.67 \times 10^{-27}$
Neutron mass (Kg)	$m_n$	$1.6749 \times 10^{-27}$	$1.67 \times 10^{-27}$
Boltzmann constant (J/K)	$\kappa$	$1.38047 \times 10^{-23}$	$1.38 \times 10^{-23}$
Avogadro's number (/Kg-mole)	N	$6.0228 \times 10^{26}$	$6 \times 10^{26}$
Planck's constant (J · s)	$h$	$6.624 \times 10^{-34}$	$6.62 \times 10^{-34}$
Acceleration due to gravity (m/s <sup>2</sup> )	$g$	9.81	9.8
Universal constant of gravitation (m <sup>2</sup> /Kg · s <sup>2</sup> )	$G$	$6.658 \times 10^{-11}$	$6.66 \times 10^{-11}$
Electron-volt (J)	eV	$1.6030 \times 10^{-19}$	$1.6 \times 10^{-19}$

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