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Abstract

Deakin Uni Physics for the Life Sciences Notes

1 Constants

$$c = 3.00x10^9 m/sec \tag{1}$$
$$e = 1.8010^{-19} C \tag{2}$$
$$g = 9.8 m/sec^2 \tag{3}$$
$$1 \text{ atm} = 1.01 \times 10^5 Pa = 760 mmHg \tag{4}$$
$$\text{Coulomb's } K = 9 \times 10^9 Nm^2 C^{-2} \tag{5}$$
$$\text{Speed of Sound} = 343 m/sec \tag{6}$$
$$1\text{Cal} = 4.186 J \tag{7}$$
$$1\text{eV} = 1.60 \times 10^-19 J \tag{8}$$
$$\text{Electron Mass} = 9.11 \times 10^{-31} Kg \tag{9}$$
$$\text{Proton Mass} = 1.67 \times 10^{-17} Kg \tag{10}$$
$$\text{Atomic Mass Unit} = 1.67 \times 10^{-17} Kg \tag{11}$$
$$\epsilon_0 = 8.85 \times 10^{-12} C^2/Nm^2 \tag{12}$$