

Basic Physics

Work

$$W = F \times x$$

F = Force, N

x = distance

Thermal or Heat Capacity

$$H = mc$$

m = mass, Kg

c = specific Heat, KJ/Kg

Potential Energy

$$PE = mgh$$

m = mass, Kg

h = height, m

Gas Laws

Boyle's Law

$$P_1 V_1 = P_2 V_2$$

Combined

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$$

Power

$$P = \frac{W}{t}$$

$$P = T \times \omega$$

$$P = T \times \frac{2\pi N}{60}$$

Water Equivalent

$$S = mc$$

m = mass, Kg

c = specific Heat, KJ/Kg

Kinetic Energy

$$KE = \frac{1}{2} mv^2$$

Efficiency

$$\eta = \frac{\text{Power output}}{\text{Power input}}$$

Heat

$$Q = mc(T_2 - T_1)$$

Total Energy

$$E = PE + KE + U$$

U = Internal Energy

Charles' Law

$$\frac{V_1}{T_1} = \frac{V_2}{T_2}$$

Characteristic Equation of a gas

$$PV = mRT$$

$$P = \rho RT$$

Gay-Lussac Law

$$\frac{P_1}{T_1} = \frac{P_2}{T_2}$$

Gas Constant

$$R = \frac{R_u}{M}$$

$$R_u = 8314 \text{ J/KgK}$$

M = Molecular mass Kg-mole

Basic Physics Basic Physics

R. H. Dean



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