

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

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

$$P = T \times \omega$$

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

Efficiency

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

Water Equivalent

$$S = mc$$

m = mass, Kg

c = specific Heat, KJ/Kg

Heat

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

Kinetic Energy

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

Total Energy

$$E = PE + KE + U$$

U = Internal Energy

Charles' Law

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

Gay-Lussac Law

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

Characteristic Equation of a gas

$$PV = mRT$$

$$P = \rho RT$$

Gas Constant

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

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

M = Molecular mass Kg-mole

Engineering Clarified

Basic Physics Basic Physics

R. H. Dean

Basic Physics Basic Physics:

Basic Physics Karl F. Kuhn, Frank Noschese, 2020-08-18 Learn physics at your own pace without an instructor *Basic Physics A Self Teaching Guide* 3rd Edition is the most practical and reader friendly guide to understanding all basic physics concepts and terms. The expert authors take a flexible and interactive approach to physics based on new research based methods about how people most effectively comprehend new material. The book takes complex concepts and breaks them down into practical easy to digest terms. Subject matter covered includes Newton's Laws, Energy, Electricity, Magnetism, Light, Sound, and more. There are also sections explaining the math behind each concept for those who would like further explanation and understanding. Each chapter features a list of objectives so that students know what they should be learning from each chapter, test questions, and exercises that inspire deeper learning about physics. High school students, college students, and those re-learning physics alike will greatly enhance their physics education with the help of this one of a kind guide. The third edition of this book reflects and implements new research based methods regarding how people best learn new material. As a result, it contains a flexible and interactive approach to learning physics.

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