

Essential Tool for Physics Laws, Concepts, Variables and Equations including  $\infty$  Sample Problems,  $\Delta$  Common Pitfalls and  $\mathcal{D}$  Helpful Hints

## BASICS

### A. Units for Physical Quantities

| Base Units                | Symbol           | Unit   |
|---------------------------|------------------|--|
| Length                    | $L, s$           | Meter - m                                    |
| Mass                      | $m, M$           | Kilogram - kg                                |
| Temperature               | $T$              | Kelvin - K                                   |
| Time                      | $t$              | Second - s                                   |
| Electric Current          | $I$              | Ampere - A (C/s)                             |
| Derived Units             | Symbol           | Unit   |
| Acceleration              | $a$              | $m/s^2$                                      |
| Ang. Accel.               | $\alpha$         | radian/ $s^2$                                |
| Ang. Momentum             | $L$              | $kg \cdot m^2/s$                             |
| Ang. Velocity             | $\omega$         | radian/sec                                   |
| Angle                     | $\theta, \phi$   | radian                                       |
| Capacitance               | $C$              | Farad F (C/V)                                |
| Charge                    | $Q, q, e$        | Coulomb C (A s)                              |
| Density                   | $\rho$           | $kg/m^3$                                     |
| Displacement              | $s, d, h$        | meter - m                                    |
| Electric Field            | $E$              | V/m  |
| Electric Flux             | $\Phi_e$         | V m  |
| Electromotive Force (EMF) | $\mathcal{E}$    | Volt - V                                     |
| Energy                    | $E, U, K$        | Joule J ( $kg \cdot m^2 \cdot s^{-2}$ )      |
| Entropy                   | $S$              | J/K  |
| Force                     | $F$              | Newton - N ( $kg \cdot m/s^2 = \text{J/m}$ ) |
| Frequency                 | $f, \nu$         | Hertz - Hz (cycle/s)                         |
| Heat                      | $Q$              | Joule - J                                    |
| Magnetic Field            | $B$              | Tesla (Wb/ $m^2$ )                           |
| Magnetic Flux             | $\Phi_m$         | Weber Wb ( $kg \cdot m^2/A \cdot s^2$ )      |
| Momentum                  | $p$              | $kg \cdot m/s$                               |
| Potential                 | $V$              | Voltage V (J/C)                              |
| Power                     | $P, \mathcal{P}$ | Watt - W (J/s)                               |
| Pressure                  | $P$              | Pascal - Pa ( $N/m^2$ )                      |
| Resistance                | $R$              | Ohm $\Omega$ (V/A)                           |
| Torque                    | $\tau$           | N m  |
| Velocity                  | $v$              | m/s  |
| Volume                    | $V$              | $m^3$  |
| Wavelength                | $\lambda$        | meter - m                                    |
| Work                      | $W$              | Joule - J (N m)                              |

### B. Fundamental Physical Constants

| Base Units             | Symbol       | Unit   |
|------------------------|--------------|--|
| Mass of electron       | $m_e$        | $9.11 \times 10^{-31}$ kg                          |
| Mass of proton         | $m_p$        | $1.67 \times 10^{-27}$ kg                          |
| Avogadro Constant      | $N_A$        | $6.022 \times 10^{23}$ mol $^{-1}$                 |
| Elementary charge      | $e$          | $1.602 \times 10^{-19}$ C                          |
| Faraday constant       | $F$          | 96,485 C/mol                                       |
| Speed of light         | $c$          | $3 \times 10^8$ m $s^{-1}$                         |
| Molar Gas Constant     | $R$          | $8.314$ J mol $^{-1}$ K $^{-1}$                    |
| Boltzmann Constant     | $k$          | $1.38 \times 10^{-23}$ J K $^{-1}$                 |
| Gravitational Constant | $G$          | $6.67 \times 10^{-11}$ m $^3$ kg $^{-1}$ s $^{-2}$ |
| Permeability of Space  | $\mu_0$      | $4\pi \times 10^{-7}$ N/A $^2$                     |
| Permittivity of Space  | $\epsilon_0$ | $8.85 \times 10^{-12}$ F/m                         |

### C. Conversion factors and alternative units

|          | Unit              | Description   |
|----------|-------------------|---|
| Angle    | $^\circ$ (degree) | $180^\circ = \pi$ rad   |
| Energy   | Erg               | CGS unit ( $g \cdot cm^2/s^2$ )<br>1 erg = $10^{-7}$ J                |
| Energy   | Electron Volt     | 1 eV = $1.602 \times 10^{-19}$ J                                      |
| Force    | Dyne              | CGS unit ( $g \cdot cm/s^2 = \text{erg/cm}$ )<br>1 dyne = $10^{-5}$ N |
| Volume   | Liter             | 1 L = 1 dm $^3$   |
| Pressure | Bar               | 1 Bar = $10^5$ Pa   |
| Length   | Angstrom          | 1 Å = $1 \times 10^{-10}$ m   |

## MATHEMATICAL CONCEPTS

### A. Vector Algebra

1. Vector: Denotes directional character using (x, y, z) components **Fig. 1**

a. Unit vectors:  $i$  along x,  $j$  along y,  $k$  along z  
b. Vector:  $A = A_x i + A_y j + A_z k$

c. Length of  $A = |A| = \sqrt{A_x^2 + A_y^2 + A_z^2}$

2. Addition of vectors  $A$  &  $B$ , add components:  
 $A + B = (A_x + B_x)i + (A_y + B_y)j + (A_z + B_z)k$

$\Delta$  Sample Addition and Length Calculations:

$$A = 3i + 4j - 3k \quad |A| = \sqrt{9 + 16 + 9} = \sqrt{34} = 5.83$$

$$B = -2i + 6j + 5k \quad |B| = \sqrt{4 + 36 + 25} = \sqrt{65} = 8.06$$

$$A + B = (3 - 2)i + (4 + 6)j + (-3 + 5)k \quad |A + B| = \sqrt{1 + 100 + 4} = \sqrt{105} = 10.25$$

Note:  $|A| + |B| \geq |A + B|$

3. Multiply  $A$  &  $B$ :

a. Dot or scalar product:  $A \cdot B = |A||B|\cos\theta = (A_x B_x + A_y B_y + A_z B_z)$

Note:  $\theta$  is the angle between  $A$  and  $B$ :

$A \cdot B = 0$ , if  $\theta = \pi/2$  **Fig. 2**

$\Delta$  Sample: Scalar product:

$$A \cdot B = 3 \times -2 + 4 \times 6 + -3 \times 5 = -6 + 24 - 15 = 3$$

$$|A + B| = \sqrt{25} = 5 \quad |A - B| = \sqrt{29} = 5.385$$

$$|A| = \sqrt{9 + 16 + 9} = \sqrt{34} = 5.831$$

$$\cos\theta = \frac{A \cdot B}{|A||B|} = \frac{3}{5.385 \times 8.06} = 0.746$$

$$\theta = \cos^{-1}(0.746) = 42^\circ = 0.73 \text{ rad} \quad \text{Fig. 3}$$

### b. Cross or Vector Product:

$$C = A \times B = |A||B|\sin\theta \hat{e}$$

$\theta$  = Angle between  $A$  and  $B$ , vector  $e$  is perpendicular to  $A$  and  $B$

$$A \times B = \begin{vmatrix} i & j & k \\ A_x & A_y & A_z \\ B_x & B_y & B_z \end{vmatrix}$$

$\Delta$  Sample: Vector Product:

$$A = 2i + j \quad B = i + 3j$$

$$A \times B = \begin{vmatrix} i & j & k \\ 2 & 1 & 0 \\ 1 & 3 & 0 \end{vmatrix} = (6 - 1)k = 5k$$

- If  $A$  and  $B$  are in  $x-y$  plane,  $A \times B$  is along the  $+z$  direction

-  $\theta$  is the angle formed by  $A \cdot B$ :  $\sin\theta = \frac{|C|}{|A||B|}$

Given:  $|A| = \sqrt{5}$   $|B| = \sqrt{10}$   $|C| = 5$

$$\sin\theta = \frac{5}{\sqrt{5} \times \sqrt{10}} = \frac{5}{5\sqrt{2}} = \frac{1}{\sqrt{2}} \Rightarrow \theta = 45^\circ = \pi/4 \text{ radians}$$

c. The Right-Hand rule gives the orientation of vector  $e$  **Fig. 4**

### D. Trigonometry

1. Basic relations for a triangle **Fig. 5**

$$\sin \theta = \frac{a}{c}$$

$$\cos \theta = \frac{b}{c}$$

$$\tan \theta = \frac{a}{b} = \frac{\sin \theta}{\cos \theta}$$

$$\sin^2 \theta + \cos^2 \theta = 1$$

2. Standard Cos waves **Fig. 6**

Values Of sin, cos and tan

| $\theta$ rad ( $^\circ$ ) | $\sin \theta$ | $\cos \theta$ | $\tan \theta$ |
|---------------------------|---------------|---------------|---------------|
| 0 (0)                     | 0.000         | 1.000         | 0.000         |
| $\pi/6$ (30)              | 0.500         | 0.866         | 0.577         |
| $\pi/4$ (45)              | 0.707         | 0.707         | 1.000         |
| $\pi/3$ (60)              | 0.866         | 0.500         | 1.732         |
| $\pi/2$ (90)              | 1.000         | 0.000         | $\infty$      |
| $\pi$ (180)               | 0.000         | -1.000        | 0.000         |



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