

Essential Tool for Physics Laws, Concepts, Variables and Equations including ~ Sample Problems, ~ Common Pitfalls and ~ Helpful Hints

## BASICS

### A. Units for Physical Quantities

| Base Units                | Symbol            | Unit                                    |
|---------------------------|-------------------|-----------------------------------------|
| Length                    | $L, x$            | 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                     | $\theta, \varphi$ | 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 ( $kg \cdot m/s^2 = J/m$ )   |
| Frequency                 | $f, \nu$          | Hertz - Hz (cycle/s)                    |
| Heat                      | $Q$               | Joule - J                               |
| Magnetic Field            | $B$               | Tesla (Wb/ $m^2$ )                      |
| Magnetic Flux             | $\Phi_B$          | 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      | $m_e$        | $9.11 \times 10^{-31} \text{ kg}$                                           |
| Mass of proton        | $m_p$        | $1.67 \times 10^{-27} \text{ kg}$                                           |
| Avogadro Constant     | $N_A$        | $6.022 \times 10^{23} \text{ mol}^{-1}$                                     |
| Elementary charge     | $e$          | $1.602 \times 10^{-19} \text{ C}$                                           |
| Faraday constant      | $F$          | $96,485 \text{ C/mol}$                                                      |
| Speed of light        | $c$          | $3 \times 10^8 \text{ m/s}^{-1}$                                            |
| Molar Gas Constant    | $R$          | $8.314 \text{ J/mol} \cdot \text{K}^{-1}$                                   |
| Boltzmann Constant    | $k$          | $1.38 \times 10^{-23} \text{ J/K}^{-1}$                                     |
| Gravitation Constant  | $G$          | $6.67 \times 10^{-11} \text{ m}^2 \cdot \text{kg}^{-1} \cdot \text{s}^{-2}$ |
| Permeability of Space | $\mu_0$      | $4\pi \times 10^{-7} \text{ N/A}^2$                                         |
| Permittivity of Space | $\epsilon_0$ | $8.85 \times 10^{-12} \text{ F/m}$                                          |

### C. Conversion factors and alternative units

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

## MATHEMATICAL CONCEPTS

### A. Vector Algebra

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

a. Unit vectors:  $\hat{i}$  along x;  $\hat{j}$  along y;  $\hat{k}$  along z  
b. Vector  $A = A_x \hat{i} + A_y \hat{j} + A_z \hat{k}$

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

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

~ Sample Addition and Length Calculations:

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

$$= \sqrt{34} = 5.83$$

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

$$= \sqrt{65} = 8.06$$

$$A + B = \hat{i} + 10\hat{j} + 2\hat{k} \quad |A + B| = \sqrt{1 + 100 + 4}$$

$$= \sqrt{105} = 10.25$$

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)

~ Sample: Scalar product:

$$A = 3\hat{i} + 4\hat{j} \quad B = 3\hat{i} + 5\hat{j}$$

$$A \cdot B = 3 \times 3 + 4 \times 5 = 9 + 20 = 29$$

$$|A| = \sqrt{25} = 5 \quad |B| = \sqrt{34} = 5.83$$

$$|B| = \sqrt{9 + 25} = \sqrt{34} = 5.83$$

$$\cos\theta = \frac{A \cdot B}{|A||B|} = \frac{29}{5 \times 5.83} = 0.99$$

$$\theta = \cos^{-1}(0.99) = 3^\circ = 0.2 \text{ rad} \quad \text{Fig. 3}$$

### b. Cross or Vector Product:

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

$\theta$  = Angle between  $A$  and  $B$ ; vector  $n$  is perpendicular to  $A$  and  $B$

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

~ Sample: Vector Product:

$$A = 2\hat{i} + \hat{j} \quad B = \hat{i} + 3\hat{j}$$

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

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

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

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

$$\sin\theta = 5 / (\sqrt{5} \times \sqrt{10}) = 5 / \sqrt{50} = 1 / \sqrt{2}$$

$$\therefore A \cdot B: \theta = 45^\circ = \pi/2 \text{ radians}$$

c. The **Right-hand rule** gives the orientation of vector  $n$  (Fig. 4)

### B. Trigonometry

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

$$\sin\theta = \frac{y}{r}$$

$$\cos\theta = \frac{x}{r}$$

$$\tan\theta = \frac{y}{x} = \frac{\sin\theta}{\cos\theta}$$

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

2. **Sine and Cos waves**

$$\text{Fig. 6}$$

Values Of sin, cos and tan

| $\theta$ rad [ $^\circ$ ] | $\sin\theta$ | $\cos\theta$ | $\tan\theta$ |
|---------------------------|--------------|--------------|--------------|
| 0 [0]                     | 0.00         | 1.00         | 0.00         |
| $\pi/6$ [30]              | 0.50         | 0.866        | 0.577        |
| $\pi/4$ [45]              | 0.707        | 0.707        | 1.00         |
| $\pi/3$ [60]              | 0.866        | 0.50         | 1.732        |
| $\pi/2$ [90]              | 1.00         | 0.00         | $\infty$     |
| $\pi$ [180]               | 0.00         | -1.00        | 0.00         |

sin and cos waves



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