

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	$\Phi_m$	Wbber 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	$c$	$3 \times 10^8 \text{ m/s}$
Molar Gas Constant	$R$	$8.314 \text{ J mol}^{-1} \text{ K}^{-1}$
Boltzmann Constant	$k$	$1.38 \times 10^{-23} \text{ J K}^{-1}$
Gravitational Constant	$G$	$6.67 \times 10^{-11} \text{ m}^3 \text{ kg}^{-1} \text{ s}^{-2}$
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 ( $g \cdot cm^2/s^2$ ) $1 \text{ erg} = 10^{-7} \text{ J}$
Energy	Electron Volt	$1 \text{ eV} = 1.602 \times 10^{-19} \text{ J}$
Force	Dyne	CGS unit ( $g \cdot cm/s^2 = \text{erg/cm}$ ) $1 \text{ dyne} = 10^{-5} \text{ N}$
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:  $i$  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:

$A + B = (A_x + B_x)i + (A_y + B_y)j + (A_z + B_z)k$

$\infty$  Sample Addition and Length Calculations:

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

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

$A + B = i + 10j + 2k$        $|A + B| = \sqrt{1 + 100 + 4} = \sqrt{105} = 10.25$

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**

$\infty$  Sample: Scalar product:

$A = 3i + 4j$        $B = 3i + 5j$

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

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

$\cos\theta = \frac{29}{(5)(5.385)} = 0.796$

$\theta = \cos^{-1}(0.796) = 37^\circ = 0.2\pi \text{ rad}$  **Fig. 3**

### b. Cross or Vector Product:

$C = A \times B = |A||B|\sin\theta e$

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

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

$\infty$  Sample: Vector Product:

$A = 2i + j$        $B = i + 3j$

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

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

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

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

$\sin\theta = \frac{5}{(\sqrt{5})(\sqrt{10})} = \frac{5}{5\sqrt{2}} = \frac{1}{\sqrt{2}}$

$\therefore A \cdot B = 45^\circ = \pi/2$  radians

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

### D. Trigonometry

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

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

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

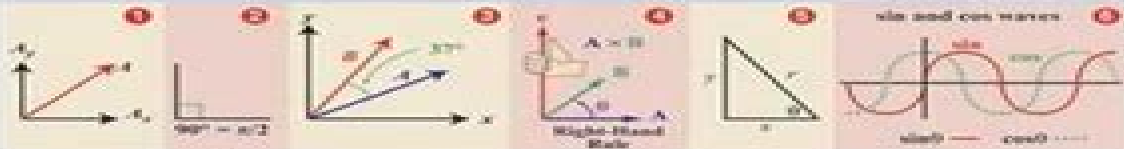
$\tan\theta = \frac{a}{b} = \frac{\sin\theta}{\cos\theta}$

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

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

Values Of sin, cos and tan

$\theta$ and $^\circ$	$\sin\theta$	$\cos\theta$	$\tan\theta$
$0$ ( $0^\circ$ )	0.000	1.000	0.000
$30$ ( $30^\circ$ )	0.500	0.866	0.577
$45$ ( $45^\circ$ )	0.707	0.707	1.000
$60$ ( $60^\circ$ )	0.866	0.500	1.732
$90$ ( $90^\circ$ )	1.000	0.000	$\infty$
$180$ ( $180^\circ$ )	0.000	-1.000	0.000



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