

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	$N_A$	$6.02 \times 10^{23}$ mol $^{-1}$
Elementary charge	$e$	$1.60 \times 10^{-19}$ 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 $^{-1}$
Gravitation 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 ( $g \cdot cm^2/s^2$ ) 1 erg = $10^{-7}$ J
Energy	Electron Volt	1 eV = $1.60 \times 10^{-19}$ J
Force	Dyne	CGS unit ( $g \cdot cm/s^2 = \text{erg/cm}$ ) 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:  
 $A + B = (A_x + B_x)i + (A_y + B_y)j + (A_z + B_z)k$

$\infty$  **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:**

$A = 3i + 4j$        $B = 3i + 5j$   
 $A \cdot B = 3 \times 3 + 4 \times 5 = 9 + 20 = 29$   
 $|A| = \sqrt{25} = 5$        $|B| = \sqrt{29} = 5.385$   
 $\cos\theta = \frac{A \cdot B}{|A||B|} = \frac{29}{5 \times 5.385} = 0.796$   
 $\theta = \cos^{-1}(0.796) = 37^\circ = 0.2\pi$  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:  $|A| = \sqrt{5}$        $|B| = \sqrt{10}$        $|C| = 5$   
 $\sin\theta = \frac{5}{\sqrt{5} \times \sqrt{10}} = \frac{5}{5\sqrt{2}} = \frac{1}{\sqrt{2}}$   
 $\therefore A \cdot B = 45^\circ = \pi/2$  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)**

$\sin \theta$  and  $\cos$  waves

$\theta$ 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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**Sebastian Brünink**



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