

Essential Tool for Physics Laws, Concepts, Variables and Equations including ∞ Sample Problems, Δ 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.	α	radian/ s^2
Ang. Momentum	L	$kg \cdot m^2/s$
Ang. Velocity	ω	radian/sec
Angle	θ, ϕ	radian
Capacitance	C	Farad F (C/V)
Charge	Q, q, e	Coulomb C (A s)
Density	ρ	kg/m^3
Displacement	s, d, h	meter - m
Electric Field	E	V/m
Electric Flux	Φ_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, ν	Hertz - Hz (cycle/s)
Heat	Q	Joule - J
Magnetic Field	B	Tesla (Wb/ m^2)
Magnetic Flux	Φ_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 Ω (V/A)
Torque	τ	N m
Velocity	v	m/s
Volume	V	m^3
Wavelength	λ	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	μ_0	$4\pi \times 10^{-7} \text{ N/A}^2$
Permittivity of Space	ϵ_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:** \hat{i} along x, \hat{j} along y, \hat{k} along z
b. **Vector:** $\vec{A} = A_x\hat{i} + A_y\hat{j} + A_z\hat{k}$

c. **Length of $\vec{A} = (A_x, A_y, A_z)$**

2. **Addition of vectors \vec{A} & \vec{B} , add components:**

$$\vec{A} + \vec{B} = (A_x + B_x)\hat{i} + (A_y + B_y)\hat{j} + (A_z + B_z)\hat{k}$$

Δ **Sample Addition and Length Calculations:**

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

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

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

Note: $|\vec{A}| + |\vec{B}| \geq |\vec{A} + \vec{B}|$

3. **Multiply \vec{A} & \vec{B} :**

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

Note: θ is the angle between \vec{A} and \vec{B} :

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

Δ **Sample: Scalar product:**

$$\vec{A} = 3\hat{i} + 2\hat{j} \quad \vec{B} = 5\hat{i} + 3\hat{j}$$

$$\vec{A} \cdot \vec{B} = 3 \times 5 + 2 \times 3 = 15 + 6 = 21$$

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

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

$$\cos \theta = \frac{\vec{A} \cdot \vec{B}}{|\vec{A}| |\vec{B}|} = \frac{21}{5 \times 5.83} = 0.716$$

$$\theta = \cos^{-1}(0.716) = 37^\circ = 0.2 \text{ rad} \quad \text{Fig. 2}$$

b. Cross or Vector Product:

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

θ = Angle between \vec{A} and \vec{B} , vector \hat{n} is perpendicular to \vec{A} and \vec{B}

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

Δ **Sample: Vector Product:**

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

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

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

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

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

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

$$\therefore \vec{A} \times \vec{B} = 45^\circ = \pi/2 \text{ radians}$$

c. **The Right-Hand rule** gives the orientation of vector \hat{n} **Fig. 3**

D. Trigonometry

1. **Basic relations for a triangle** **Fig. 3**

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

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

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

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

2. **Standard Cos waves**

$$\text{Fig. 4}$$

Values Of sin, cos and tan

θ and $^\circ$	$\sin \theta$	$\cos \theta$	$\tan \theta$
0 (0)	0.00	1.00	0.00
30 (30)	0.50	0.866	0.577
45 (45)	0.707	0.707	1.00
60 (60)	0.866	0.50	1.732
90 (90)	1.00	0.00	∞
180 (180)	0.00	-1.00	0.00



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