

# Reference Guide & Formula Sheet for Physics

Dr. Hoselton & Mr. Price

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## #3 Components of a Vector

$$\text{if } V = 34 \text{ m/sec } \angle 48^\circ$$

then

$$V_x = 34 \text{ m/sec} \cdot (\cos 48^\circ); \text{ and } V_y = 34 \text{ m/sec} \cdot (\sin 48^\circ)$$

## #4 Weight = $m \cdot g$

$$g = 9.81 \text{ m/sec}^2 \text{ near the surface of the Earth}$$

$$= 9.795 \text{ m/sec}^2 \text{ in Fort Worth, TX}$$

Density = mass / volume

$$\rho = \frac{m}{V} \text{ (unit : kg / m}^3\text{)}$$

## #7 Ave speed = distance / time = $v = d/t$

$$\text{Ave velocity} = \text{displacement} / \text{time} = v = d/t$$

$$\text{Ave acceleration} = \text{change in velocity} / \text{time}$$

## #8 Friction Force

$$F_f = \mu \cdot F_{\text{norm}}$$

If the object is not moving, you are dealing with static friction and it can have any value from zero up to  $\mu_s F_{\text{norm}}$

If the object is sliding, then you are dealing with kinetic friction and it will be constant and equal to  $\mu_k F_{\text{norm}}$

## #9 Torque

$$\tau = F \cdot L \cdot \sin \theta$$

Where  $\theta$  is the angle between  $F$  and  $L$ ; unit: Nm

## #11 Newton's Second Law

$$F_{\text{net}} = \Sigma F_{\text{ext}} = m \cdot a$$

## #12 Work = $F \cdot D \cdot \cos \theta$

Where  $D$  is the distance moved and

$\theta$  is the angle between  $F$  and the

direction of motion,

unit : J

## #16 Power = rate of work done

$$\text{Power} = \frac{\text{Work}}{\text{time}}$$

unit : watt

$$\text{Efficiency} = \text{Work}_{\text{out}} / \text{Energy}_{\text{in}}$$

Mechanical Advantage = force out / force in

$$\text{M.A.} = F_{\text{out}} / F_{\text{in}}$$

## #19 Constant-Acceleration Linear Motion

$$v = v_0 + a \cdot t \quad s$$

$$(x - x_0) = v_0 \cdot t + \frac{1}{2} \cdot a \cdot t^2 \quad v$$

$$v^2 = v_0^2 + 2 \cdot a \cdot (x - x_0) \quad t$$

$$(x - x_0) = \frac{1}{2} \cdot (v_0 + v) \cdot t \quad a$$

$$(x - x_0) = v \cdot t - \frac{1}{2} \cdot a \cdot t^2 \quad v_0$$

## #20 Heating a Solid, Liquid or Gas

$$Q = m \cdot c \cdot \Delta T \quad (\text{no phase changes!})$$

$Q$  = the heat added

$c$  = specific heat.

$\Delta T$  = temperature change, K

## #21 Linear Momentum

$$\text{momentum} = p = m \cdot v = \text{mass} \cdot \text{velocity}$$

momentum is conserved in collisions

## #23 Center of Mass – point masses on a line

$$x_{\text{cm}} = \Sigma(m x_i) / M_{\text{total}}$$

## #25 Angular Speed vs. Linear Speed

$$\text{Linear speed} = v = r \cdot \omega = r \cdot \text{angular speed}$$

## #26 Pressure under Water

$$P = \rho \cdot g \cdot h$$

$h$  = depth of water

$\rho$  = density of water

## #28 Universal Gravitation

$$F = G \frac{m_1 m_2}{r^2}$$

$$G = 6.67 \text{ E-11 N m}^2 / \text{kg}^2$$

## #29 Mechanical Energy

$$\text{PE}_{\text{grav}} = P = m \cdot g \cdot h$$

$$\text{KE}_{\text{trans}} = K = \frac{1}{2} m v^2$$

## #30 Impulse = Change in Momentum

$$F \cdot \Delta t = \Delta(m \cdot v)$$

## #31 Snell's Law

$$n_1 \cdot \sin \theta_1 = n_2 \cdot \sin \theta_2$$

## Index of Refraction

$$n = c / v$$

$c$  = speed of light =  $3 \text{ E+8 m/s}$

## #32 Ideal Gas Law

$$P \cdot V = n \cdot R \cdot T$$

$n$  = # of moles of gas

$R$  = gas law constant

$$= 8.31 \text{ J / K mole}$$

## #34 Periodic Waves

$$v = f \cdot \lambda$$

$$f = 1 / T$$

$T$  = period of wave

## #35 Constant-Acceleration Circular Motion

$$\omega = \omega_0 + \alpha \cdot t \quad \theta$$

$$\theta - \theta_0 = \omega_0 \cdot t + \frac{1}{2} \cdot \alpha \cdot t^2 \quad \omega$$

$$\omega^2 = \omega_0^2 + 2 \cdot \alpha \cdot (\theta - \theta_0) \quad t$$

$$\theta - \theta_0 = \frac{1}{2} \cdot (\omega_0 + \omega) \cdot t \quad \alpha$$

$$\theta - \theta_0 = \omega \cdot t - \frac{1}{2} \cdot \alpha \cdot t^2 \quad \omega_0$$

# Reference Guide Formula Sheet For Physics

**Thirumalaisamy P.**  
**Velavancorresponding**



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Walford's Guide to Reference Material Albert John Walford, Anthony P. Harvey, H. Drubba, 1980 Vol 26: Ray Optics: Adaptive Problems Book in Physics (with Detailed Solutions) for College & High School SATYAM SIR, 2021-08-01 Learn Ray

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National Measurement Laboratory (U.S.). Office of Standard Reference Data, Herman M. Weisman, Gertrude B.

Sherwood, 1970

**Walford's Guide to Reference Material: Science & technology** Albert John Walford, Anthony P.

Harvey, H. Drubba, 1980

**Handbook of Mathematics for Engineers and Scientists** Andrei D. Polyannin, Alexander V.

Manzhirrov, 2006-11-27 Covering the main fields of mathematics this handbook focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology The authors describe formulas methods equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution methods for various mathematical equations The book supplies numerous examples graphs figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential integral and functional equations *NBS Technical Note*

,1970 Astrophysical Formulae Kenneth Lang,2006-02-22 This classic reference for the fundamental formulae of physics and astrophysics has become part of nearly every astronomer's and astrophysicist's library A magnificent compendium

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More than 300 Questions from Each Chapter About Author Satyam Sir has graduated from IIT Kharagpur in Civil

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Abbott,W. Alan Price,1993-11-11 A major new reference book bringing together wide ranging expert guidance on coastal

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mathematical modelling and computer simulation Applied Mechanics Reviews ,1973 *The Systematic Identification of*

*Organic Compounds* Christine K. F. Hermann,Terence C. Morrill,Ralph L. Shriner,Reynold C. Fuson,2023-03-28 The

Systematic Identification of Organic Compounds A comprehensive introduction to the identification of unknown organic

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**Electromagnetic Fields** Boris Z. Katsenelenbaum, 2008-06-25

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