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PHYSICS

Class-11th

Fundamental Quantities

Length (m)
 Mass (kg)
 Time (s)
 Temperature (K)
 Current (A)
 Amount of Subst. (mol)
 Luminous intensity (Cd)

% error - $\frac{\Delta a}{a} \times 100$

Kinematic Equation

$$v = u + at$$

$$s = ut + \frac{1}{2}at^2$$

$$v^2 = u^2 + 2as$$

Projectile Motion

Time of flight -
 $T = \frac{2u \sin \theta}{g} = \sqrt{\frac{2h}{g}}$

Max. horizontal distance -
 $R = \frac{u^2 \sin 2\theta}{g} = u \sqrt{\frac{2h}{g}}$
 $R_{\max} = \frac{u^2}{g} \quad (\theta = 45^\circ)$

Max height -
 $H = \frac{u^2 \sin^2 \theta}{2g}$

Velocity -
 $v = \sqrt{u^2 + g^2 t^2}$

Dimensional formula

Speed - $M^0 L^1 T^{-1}$
 Impulse - $M^1 L^1 T^{-2}$
 Power - $M^1 L^2 T^{-3}$

Man in elevator

Apparent weight
 $R = m(a+g)$ upward
 $R = m(g-a)$ downward
 $R = mg$ $v = \text{constant}$
 $R = 0$ $a = g$

Elastic Collision (1-D)

$$v_1 = u_1 \left[\frac{m_1 - m_2}{m_1 + m_2} \right] + \frac{2u_2 m_2}{m_1 + m_2}$$

$$v_2 = u_2 \left[\frac{m_2 - m_1}{m_1 + m_2} \right] + u_1 \left[\frac{2m_1}{m_1 + m_2} \right]$$

Tension (pulley)

$$T = \frac{2Mmg}{M+m}$$

$$a = \frac{g(M-m)}{M+m}$$

Impulse (j) = F × Δt

$$\frac{dj}{dt} = F$$

$$j = \Delta p$$

$$\mu_k < \mu_s$$

Static friction

$$F_{s\max} = \mu_s N$$

$$F_s \leq \mu_s N$$

Elastic Collision (2-D)

$$\frac{1}{2}m_1 u_1^2 = \frac{1}{2}m_1 v_1^2 + \frac{1}{2}m_2 v_2^2$$

$$m_1 v_1 \sin \theta_1 = m_2 v_2 \sin \theta_2$$

$$m_1 u_1 = m_1 v_1 \cos \theta_1 + m_2 v_2 \cos \theta_2$$

Circular Motion

$$F_c = \frac{Mv^2}{r}$$

Kinetic friction

$$F_k = \mu_k N$$

Potential energy

$$W = -mgh = P$$

Kinetic energy

$$K = \frac{1}{2}mv^2$$

$$K = \frac{p^2}{2m}$$

$$K_f - K_i = W$$

Perfectly inelastic (1-D) - (energy lost)

$$\Delta K = -\frac{1}{2} \left[\frac{m_1 m_2}{m_1 + m_2} \right] u_1^2$$

Power

$$P = dw/dt$$

$$P = \vec{F} \cdot \vec{v}$$

elastic collision - $e = 1$
 inelastic ϵ - $0 < e < 1$
 perfectly inelastic - $e = 0$
 super elastic - $e > 1$

Coefficient of restitution

$$e = \frac{v_2 - v_1}{u_1 - u_2}$$

$$1 > \frac{K_f}{K_i} = \frac{m_1}{m_1 + m_2}$$

Physics Notes Chapterwise

J Rink



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