

Advanced Mechanics

Projectile Motion

Projectiles and Acceleration

- An object launched with an initial velocity at an initial angle, not acted upon by forces during flight
- Gravity is constant for HSC ($g = 9.8 \text{ ms}^{-2}$)
- Air resistance is negligible for HSC
- Usually separated into vertical and horizontal components
 - o $u_x = u \cos \theta$
 - o $u_y = u \sin \theta + gt$

Horizontal and vertical direction and velocity

- Horizontal and vertical motion are independent
- Horizontal
 - o $u_x = u_x$ horizontal velocity is the same as initial until landing
 - o $s_x = u_x t$
- Vertical
 - o $u_y = u_y + a_y t$
 - o $s_y = u_y t + \frac{1}{2} a_y t^2$
 - o $u_y^2 = u_y^2 + 2 a_y s_y$ useful for vertical velocity at a specific position rather than time

Circular Motion

Uniform circular motion

- Uniform circular motion is when an object moves in a circle at a constant (uniform) speed
- Constant speed, but there is acceleration as there is a change in direction, therefore changing velocity
- Force causing this movement is centripetal force
 - o Can come from a variety of sources: gravity (orbits), friction (car turning) or tension (spinning string)

Centripetal forces

- Standard examples
 - o Car moving around a bend: Force created by the friction of the tires and the road
 - o Mass on a string: Force created by the tension in the string
 - o Objects on banked tracks: Gravity acting downward, then a normal force perpendicular to the track. Centripetal comes from the vector sum

Quantitative predictions and formulas

- $F_c = \frac{mv^2}{r}$
- $a_c = \frac{v^2}{r}$
- $\omega = \frac{2\pi r}{T}$
- $\omega = \frac{v}{r}$

Energy and work

- Energy is constant in uniform circular motion
- $E_k = \frac{1}{2} mv^2$
- No change in kinetic energy means no work being done

Torque as a rotational force

- Torque: The turning moment of a force, rotational force
- $T = r_{\perp} F = r F \sin \theta$
 - o Angle between the radius and the force applied

Physics 12th Hsc Board Pune Notes

Lei Huang



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