

'PROJECTILE MOTION'

If velocity of particle in one direction is const & Accn in other direction is in \perp direction Remain same w.r.t Motion of particle is called projectile & its path is always parabolic.

Ground - Ground projection

$$T = \frac{2u \sin \theta}{g} = \frac{2uy}{g} \quad \leftarrow \text{time of flight}$$

$$h_{\max} = \frac{u^2 \sin^2 \theta}{2g} = \frac{z^2}{2g} \quad \leftarrow \text{max height}$$

$$R = (u \cos \theta) T = \frac{2u^2 \sin \theta \cos \theta}{g} = \frac{u^2 \sin 2\theta}{g}$$

$$\vec{v} = (u \cos \theta) \hat{i} + (u \sin \theta - gt) \hat{j}$$

$$\alpha = (u \cos \theta) \hat{i} + (u \sin \theta - \frac{1}{2}gt^2) \hat{j}$$

$$y = x \tan \theta - \frac{gx^2}{2u^2 \cos^2 \theta} = x \tan \theta \left[1 - \frac{x}{R} \right]$$

* velocity at time 't'

Horizontal

$$\boxed{v_x = u \cos \theta = \text{const}}$$

Vertical

$$\boxed{v_y = (u \sin \theta) - gt}$$

* Angle of velo. from X-axis

$$\alpha = \tan^{-1} \left(\frac{v_y}{v_x} \right) = \tan^{-1} \left(\frac{u \sin \theta - gt}{u \cos \theta} \right)$$

* Disp. at time 't'

$$|\vec{r}| = \sqrt{x^2 + y^2}$$

- * From bottom to top of t
- * At top position $\alpha = 0$
- * From top to bottom of t

* Horizontal Range

$$\boxed{R = \frac{u^2 \sin 2\theta}{g}}$$

* x.c at lowest point

$$\boxed{K = \frac{1}{2} m u^2}$$

NOTE -> Horizontal component of velocity remain same all points of its path

* At top point path of particle is circular & resultant velo. remain same.

Special case for ground to ground projection

CASE-I -> Max Range condition

$$R = \frac{u^2 \sin 2\theta}{g}$$

$$* u = c, g = c \Rightarrow R = f(\theta) \quad \left(\sin 2\theta = 1 \right)$$

$$\downarrow$$

$$2\theta = 90^\circ, \pi/2$$

$$\boxed{\theta = 45^\circ / \pi/4}$$

$$\# \quad R_{\max} = \frac{u^2}{g} = R_{45^\circ}$$

$$h_{45^\circ} = \frac{u^2 \sin^2 45^\circ}{2g} = \frac{u^2}{4g}$$

$\theta = 90^\circ$ (vertical projection)



$$\boxed{R_{90} = 0}$$

$$h_{90} = \frac{u^2}{2g} = \frac{R_{45^\circ}}{2} \Rightarrow \boxed{R_{45^\circ} = 2h_{90}}$$

$$\boxed{T_{\max} = \frac{2u}{g} = T_{90}}$$

$$\boxed{h_{45^\circ} = \frac{R_{45^\circ}}{4} = \frac{h_{90}}{2}}$$

$$\left. \begin{array}{l} R_{\max} \Rightarrow \theta \Rightarrow 45^\circ \\ h_{\max} \\ T_{\max} \end{array} \right\} \Rightarrow \theta = 90^\circ$$

- 1) $\theta \leq \theta \leq 45^\circ$
- $\theta \uparrow, T \uparrow, h_{\max} \uparrow, R \uparrow$
- 2) $45^\circ < \theta < 90^\circ$
- $\theta \uparrow, T \uparrow, h_{\max} \uparrow, R \uparrow$

Pradeep Physics Class 11 All Question Solution Of Kinematics

Jicheng Xie



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