

PROJECTILE MOTION

1. PROJECTILE THROWN AT AN ANGLE WITH HORIZONTAL



- Consider a projectile thrown with a velocity u making an angle θ with the horizontal.
- Initial velocity u is resolved in components in a coordinate system in which horizontal direction is taken as x -axis, vertical direction as y -axis and point of projection as origin.
 $u_x = u \cos \theta$ $u_y = u \sin \theta$
- Again this projectile motion can be considered as the combination of horizontal and vertical motion. Therefore,

	Horizontal direction	Vertical direction
(a)	Initial velocity $u_x = u \cos \theta$	Initial velocity $u_y = u \sin \theta$
(b)	Acceleration $a_x = 0$	Acceleration $a_y = g$
(c)	Velocity after time t , $v_x = u \cos \theta$	Velocity after time t , $v_y = u \sin \theta - gt$

1.1 Time of flight :

The displacement along vertical direction is zero for the complete flight.
Hence, along vertical direction net displacement = 0

$$\Rightarrow (u \sin \theta) T - \frac{1}{2} gT^2 = 0 \qquad \Rightarrow \qquad T = \frac{2u \sin \theta}{g}$$

1.2 Horizontal range :

$$R = u_x \cdot T \qquad \Rightarrow \qquad R = u \cos \theta \cdot \frac{2u \sin \theta}{g}$$

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

1.3 Maximum height :

At the highest point of its trajectory, particle moves horizontally, and hence vertical component of velocity is zero.

Using 3rd equation of motion i.e.

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

we have for vertical direction

$$0 = u^2 \sin^2 \theta - 2gH \qquad \Rightarrow \qquad H = \frac{u^2 \sin^2 \theta}{2g}$$

Iit Jee Projectile Motion Problems

RD Boyd



Iit Jee Projectile Motion Problems:

Whispering the Secrets of Language: An Mental Quest through **Iit Jee Projectile Motion Problems**

In a digitally-driven world where monitors reign supreme and instant transmission drowns out the subtleties of language, the profound techniques and mental nuances concealed within phrases frequently go unheard. However, located within the pages of **Iit Jee Projectile Motion Problems** a interesting fictional prize blinking with natural emotions, lies an exceptional journey waiting to be undertaken. Penned by a skilled wordsmith, that charming opus attracts readers on an introspective journey, softly unraveling the veiled truths and profound impact resonating within ab muscles cloth of every word. Within the emotional depths of the poignant evaluation, we shall embark upon a genuine exploration of the book is primary subjects, dissect their interesting writing model, and succumb to the powerful resonance it evokes heavy within the recesses of readers hearts.

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