

6.04 KINETIC ENERGY

(i) **Definition.** The energy of a body, due to its motion, is called kinetic energy. It is represented by the symbol K .

(ii) **Explanation.** Motion gives energy (capacity of doing work) to a body. Motion can produce electricity. Hammer in motion can fix a nail.

(iii) **Expression.** Kinetic energy of a body in motion, can be calculated by calculating work done in bringing it into motion from rest.

Let a body of mass m be at rest. Let a force F acting on the body, displace it by a distance s and give it a velocity v and uniform acceleration a .

Then, work done on the body to move it

$$W = F \cdot s = mas = mvv$$

From equation of motion,

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

$$v^2 = 2as \quad (\because u = 0)$$

$$as = \frac{v^2}{2}$$

Putting above $W = \frac{mv^2}{2}$

Hence, kinetic energy, $K = \frac{1}{2}mv^2$.

6.05 POTENTIAL ENERGY

(i) **Definition.** The energy of a body, due to its position or change in configuration, called potential energy of the body. It is represented by the symbol U .

(ii) **Explanation.** Position gives energy to a body. Water falling from more height produce more electricity. Hammer falling from more height can fix a nail deeper.

Change in configuration also gives energy to a body. Coiled spring of a watch can set the watch run for hours. More pulled string of a bow can send an arrow with more velocity more distance.

(iii) **Expression.** The potential energy of a body in any position can be calculated calculating the work done in bringing it to that position from position of zero potential energy.

Let a body of mass m lie on ground (at position of zero potential energy).

Let it be raised (lifted) to a height h against force mg due to gravity.

Then, work done $= mg \cdot h = mgh$

Hence, potential energy, $U = mgh$.

6.06 MOTION WITH INCLINED PROJECTION

When a body is projected at an angle θ with horizontal with a velocity U from a point, its velocity has two components. Horizontal component $U \cos \theta$ remains constant (because g is \downarrow but vertical component $U \sin \theta$ varies due to downward acceleration of gravity. The body goes along a path bent downward. At A, vertical velocity of the body becomes zero and the body does not go further high. A becomes the highest point reached by the body. Vertical height AB is called the maximum height attained by the body and is represented by the symbol H .

As body goes further ahead, due to horizontal velocity $U \cos \theta$, body develops a vertically downward velocity which now increases. Path of body is again bent and it goes along BC . The body returns to point B on same horizontal level as O (called point of projection) with same velocity and same angle but with negative values. B is called point of return of the body. The distance OB is called horizontal range or simply range of the body and is represented by the symbol R .



Fig. 6.06, Motion with inclined projection along a parabola

The time for which body remains in motion (from O to B), is called time of flight of the body and is represented by the symbol T .

The projected body is called projectile and the path is called its trajectory.

Calculation shows that

(i) Equation of trajectory is

$$y = x \tan \theta - \frac{g}{2U^2 \cos^2 \theta} x^2 \text{ which represents a parabola.}$$

(ii) Maximum height attained,

$$H = \frac{U^2 \sin^2 \theta}{2g}$$

(iii) Horizontal range or Range,

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

Comprehensive Physic Practical Manual

Christian G. Meyer



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