

Chapter

6

Work, Energy and Power

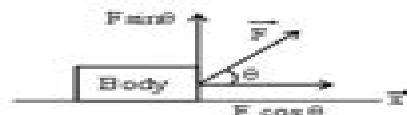
AAJ KA TOPPER

WORK

Work Done by a Constant Force

Work done (W) by a force \vec{F} in displacing a body through a displacement x is given by

$$W = \vec{F} \cdot \vec{x} = Fx \cos \theta$$



Where θ is the angle between the applied force \vec{F} and displacement \vec{x} .

The S.I. unit of work is joule, CGS unit is erg and its dimensions are $[ML^2T^{-2}]$.

1 joule = 10^7 erg

(a) When $\theta = 0^\circ$ then $W = Fx$

(b) When θ is between 0 and $\pi/2$ then $W = Fx \cos \theta = \text{positive}$

(c) When $\theta = \pi/2$ then $W = Fx \cos 90^\circ = 0$ (zero)

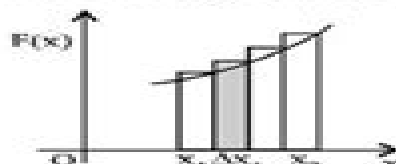
Work done by centripetal force is zero as in this case angle $\theta = 90^\circ$

(d) \therefore When θ is between $\pi/2$ and π then

$$W = Fx \cos \theta = \text{negative}$$

Work Done by a Variable Force

When the force is an arbitrary function of position, we need the techniques of calculus to evaluate the work done by it. The figure shows F_x as function of the position x . We begin by replacing the actual variation of the force by a series of small steps.



The area under each segment of the curve is approximately equal to the area of a rectangle. The height of the rectangle is a constant value of force, and its width is a small displacement Δx . Thus, the step involves an amount of work $\Delta W_n = F_n \Delta x_n$. The total work done is approximately given by the sum of the areas of the rectangles.

$$\text{i.e., } W = \sum F_n \Delta x_n$$



As the size of the steps is reduced, the tops of the rectangle more closely trace the actual curve shown in figure. If the limit $\Delta x \rightarrow 0$, which is equivalent to letting the number of steps tend to infinity, the discrete sum is replaced by a continuous integral.

$$W = \lim_{\Delta x_n \rightarrow 0} \sum F_n \Delta x_n = \int F_x dx$$

Thus, the work done by a force F_x from an initial point A to final

point B is $W_{A \rightarrow B} = \int_{x_A}^{x_B} F_x dx$

The work done by a variable force in displacing a particle from x_1 to x_2

$$W = \int_{x_1}^{x_2} F dx = \text{area under force displacement graph}$$

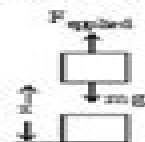
CAUTION : When we find work, we should be cautious about the question, work done by which force? Let us take an example to understand this point. Suppose you are moving a body up without acceleration.

Work done by applied force

$$W_{app} = \vec{F}_{app} \cdot \vec{x} = F_{app} x$$

Work done by gravitational force

$$W_{grav} = \vec{F}_g \cdot \vec{x} = -mgx$$



Conceptual Physical Science Explorations Chapter 6

Work And Energy

Marian Wolfe Dixon



Conceptual Physical Science Explorations Chapter 6 Work And Energy:

Wonder Frank C. Keil, 2022-03-01 How we can all be lifelong wonderers restoring the sense of joy in discovery we felt as children From an early age children pepper adults with questions that ask why and how Why do balloons float How do plants grow from seeds Why do birds have feathers Young children have a powerful drive to learn about their world wanting to know not just what something is but also how it got to be that way and how it works Most adults on the other hand have little curiosity about whys and hows we might unlock a door for example or boil an egg with no idea of what happens to make such a thing possible How can grown ups recapture a child s sense of wonder at the world In this book Frank Keil describes the cognitive dispositions that set children on their paths of discovery and explains how we can all become lifelong wonderers Keil describes recent research on children s minds that reveals an extraordinary set of emerging abilities that underpin their joy of discovery their need to learn not just the facts but the underlying causal patterns at the very heart of science This glorious sense of wonder however is stifled beginning in elementary school Later with little interest in causal mechanisms and motivated by intellectual blind spots as adults we become vulnerable to misinformation and manipulation ready to believe things that aren t true Of course the polymaths among us have retained their sense of wonder and Keil explains the habits of mind and ways of wondering that allow them and can enable us to experience the joy of asking why and how

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