



Fig. 2.2 Pushing the wall, no work is being done

Similarly, a coolie does no work while standing with a heavy load on his head (although he feels tired), since the displacement of load is zero.

2.2 MEASUREMENT OF WORK

If forces F_1 and F_2 (where $F_1 > F_2$) move two different bodies by the same distance, the work done by the force F_1 is said to be more than that by the force F_2 . Similarly, if a force F moves the bodies 1 and 2 by distances S_1 and S_2 respectively (where $S_1 > S_2$), the work done by the force F on body 1 is said to be more than on body 2. Thus the amount of work done depends on both factors : the magnitude of the force applied, and the magnitude of the displacement.

The amount of work done by a force is equal to the product of the force and the displacement of the point of application of the force in the direction of force.

i.e., Work = Force \times displacement of the point of application of force in the direction of force



Fig. 2.3 Work done by a force

In Fig. 2.3, suppose a constant force F displaces a body from position A to position B along its own direction. Then the displacement of the body is AB ($= S$), and the work done is

$$W = F \times S \quad \dots(2.1)^*$$

* In eqn. (2.1), the sign " \times " means simple multiplication of two scalars F and S which are the magnitudes of force and displacement respectively. It does not mean the cross or vector product of two vectors \vec{F} and \vec{S} .

Here we assume that the force does not change during the displacement and it acts throughout the displacement.

In eqn. (2.1), if $S = 0$, then $W = 0$. Thus

If a force acts on a body and the body does not move i.e., displacement is zero, then no work is done.

Work is a *scalar* quantity.

Expression of work ($W = FS \cos \theta$)

It is not necessary that the force always causes the displacement of the body in its own direction. If under some circumstances, a force displaces the body in a direction other than the direction of force, then we can determine the amount of work done by the force in *two* ways : (1) by finding the component of displacement of the body in the direction of force, and (2) by finding the component of force in the direction of displacement.

- (1) **By finding the component of displacement along the force :** In Fig. 2.4, suppose a constant force F acts on a body along AB and displaces the body on an inclined surface from A to C. The displacement of the body is $AC = S$, which is at an angle θ to the direction of force. To find the component of displacement in the direction of force (*i.e.*, along AB), a perpendicular CB is drawn from the point C on AB. Then the component of displacement in the direction of force is AB.



Fig. 2.4 Work done by a force when the displacement is not along the force by taking the component of displacement along the force

Hence, work done $W = F \times AB$

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