

## WORK, ENERGY AND POWER

### The Scalar Product

- Scalar product of any two vectors  $\vec{A}$  and  $\vec{B}$  is represented as  $\vec{A} \cdot \vec{B}$  and it is equal to the product of the magnitudes of the two vectors and the cosine of the angle between the two vectors. That is  $\vec{A} \cdot \vec{B} = AB \cos \theta$

- If  $\vec{A} = A_x \hat{i} + A_y \hat{j} + A_z \hat{k}$  and  $\vec{B} = B_x \hat{i} + B_y \hat{j} + B_z \hat{k}$   
then,  $\vec{A} \cdot \vec{B} = [A_x \hat{i} + A_y \hat{j} + A_z \hat{k}] [B_x \hat{i} + B_y \hat{j} + B_z \hat{k}] = A_x B_x + A_y B_y + A_z B_z$

**Example :** If  $\vec{A} = 3\hat{i} + 2\hat{j} + 5\hat{k}$  and  $\vec{B} = 2\hat{i} - 4\hat{j} + \hat{k}$   
then,  $\vec{A} \cdot \vec{B} = 3(2) + 2(-4) + 5(1)$   
 $= 6 - 8 + 5 = 3$

### Work

- Work is said to be done by a force on a body when the body is displaced.
- Work done by the force is defined as the product of component force in the direction of displacement and displacement.



$$W = (F \cos \theta)(S)$$

$$W = FS \cos \theta$$

$$W = \vec{F} \cdot \vec{S}$$

- The SI unit for work is Joule (J)
- Dimensions are  $[ML^2 T^{-2}]$
- In CGS System unit of work is erg . And  $1J = 10^7 \text{ ergs}$



#### Quick Note

- If the angle between force and displacement is acute ( less than 90 ) then the work done by the force is positive.
- If the angle is obtuse ( greater than 90 ) then work done by force is negative. **Example :** Work done by friction
- If the angle between force and displacement is 90 then work done is zero.

**Example :** When a Coolie with load on head is walking horizontally then the work done due to gravity is zero

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