

CHAPTER 7 Work and Energy

$$W = F_{\parallel} d, \quad W = Fd \cos \theta = \vec{\mathbf{F}} \cdot \vec{\mathbf{d}}, \quad (7-1, 7-3)$$

where θ is the angle between $\vec{\mathbf{F}}$ and $\vec{\mathbf{d}}$.

$$\text{scalar product } \vec{\mathbf{A}} \cdot \vec{\mathbf{B}} = AB \cos \theta \quad (7-2)$$

where θ is the angle between $\vec{\mathbf{A}}$ and $\vec{\mathbf{B}}$.

$$\vec{\mathbf{A}} \cdot \vec{\mathbf{B}} = A_x B_x + A_y B_y + A_z B_z. \quad (7-4)$$

$$W = \lim_{\Delta \ell_i \rightarrow 0} \sum F_i \cos \theta_i \Delta \ell_i = \int_a^b F \cos \theta d\ell. \quad (7-6)$$

$$W = \int_a^b \vec{\mathbf{F}} \cdot d\vec{\ell} = \int_a^b F \cos \theta d\ell, \quad (7-7)$$

where $d\vec{\ell}$ represents an infinitesimal displacement along the path of the object and θ is the angle between $d\vec{\ell}$ and $\vec{\mathbf{F}}$ at each point of the object's path.

$$F_s = -kx. \quad (7-8)$$

$$W = \frac{1}{2}(x)(kx) = \frac{1}{2}kx^2,$$

$$W_{\text{net}} = \frac{1}{2}mv_2^2 - \frac{1}{2}mv_1^2. \quad (7-9)$$

$$\text{kinetic energy } K = \frac{1}{2}mv^2. \quad (7-10)$$

$$\text{work-energy principle } W_{\text{net}} = \Delta K = \frac{1}{2}mv_2^2 - \frac{1}{2}mv_1^2. \quad (7-11)$$

Mathematica For Calculus Based Physics

Thomas M. Nordlund



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