

LIST OF FORMULA PHY

notes by asmarazale (ASID 19/20)

CHAPTER 5 : Energy

① Work

$$W = \underset{\substack{\text{Force acting} \\ \text{displacement}}}{\vec{F} \cdot \vec{d}} \\ = (F \cos \theta) \Delta x \\ \quad \quad \quad \swarrow \quad \quad \quad \searrow \\ \quad \quad \quad \cos 90^\circ = 0$$

② Energy

$$KE = \frac{1}{2} \underset{\substack{\text{kinetic} \\ \text{energy}}}{m} \underset{\substack{\text{velocity}}}{v^2}$$

$W_c + W_{nc} = \Delta KE$
conservative force non-cons.

$$W_{net} = \Delta KE \\ F \Delta x = KE_f - KE_i \\ = \frac{1}{2} m v_i^2 - \frac{1}{2} m v_f^2$$

$$\underset{\substack{\text{gravitational} \\ \text{potential} \\ \text{energy}}}{PE} = mgy \rightarrow (y_f - y_i) \underset{\substack{\text{displacement} \\ \text{vertically}}}{\Delta y}$$

$\downarrow$
gravitational acceleration

$$\text{change in potential energy} = PE_f - PE_i$$

③ Work energy theorem

$$\underset{\text{constant}}{F} / W_{nc} = (KE_f - KE_i) + (PE_f - PE_i)$$

conservation of

④ Mechanical energy

$W_{nc} = 0$

$$KE_i + PE_i = (KE_f + PE_f) \\ \frac{1}{2} m v_i^2 + mgy_i = \frac{1}{2} m v_f^2 + mgy_f$$

⑤ Spring potential energy

$$F_s = -kx$$

shows F opposite direction of x

$$PE_s = \frac{1}{2} \underset{\substack{\text{spring} \\ \text{constant}}}{k} x^2$$

work energy theorem

$$W_{nc} = (KE_f - KE_i) + (PE_{sf} - PE_{si}) + (PE_{sf} - PE_{si})$$

conservation of energy

$$(KE + PE_g + PE_s)_f = (KE + PE_g + PE_s)_i$$

⑥ Power

$$P = \frac{W}{t} = \frac{E}{t}$$

Solution Manual In High School Physics

Puja Mehta



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