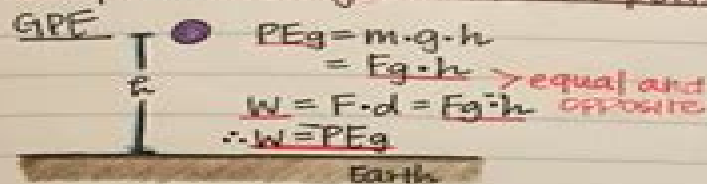


Chapter 23: Electric Potential

23-1 Potential Difference

- Comparison to gravitational potential energy:



- Deriving the equation:

- $dU = -\vec{F} \cdot d\vec{r}$ change in PE for a conservative force F undergoing $d\vec{r}$
- $\vec{F} = q_0 \vec{E}$ force exerted by electrostatic field \vec{E} on pt charge q_0 .
- $dU = -q_0 \vec{E} \cdot d\vec{r}$ resulting change in electric potential energy
- $dV = \frac{dU}{q_0} = -\vec{E} \cdot d\vec{r}$ potential difference
 → potential energy change per unit charge

For a finite displacement from point $a \rightarrow b$

$$\Delta V = V_b - V_a = \frac{\Delta U}{q_0} = -\int_a^b \vec{E} \cdot d\vec{r}$$

This is $-\frac{W}{q}$

scalar function unlike \vec{E}

- Function V is called the electric potential/potential.

- $U = q_0 V$ relation between potential energy and potential

- V is continuous at any point not occupied by a point or line of charge.

- Units

$$\text{Electric Potential} = \left[\frac{\text{Potential energy}}{\text{unit charge}} \right] = \left[\frac{J}{C} \right] = V \text{ or Volts/Voltage}$$

→ $eV = 1.60 \times 10^{-19} \text{ C} \cdot V \text{ or J}$

$$\text{Electric Field} = \left[\frac{N}{C} \right] = \left[\frac{V}{m} \right] \text{ either } \frac{\text{force}}{\text{unit charge}} \text{ or } \frac{\text{change in potential}}{\text{distance}}$$

- Potential and Electric Fields



- \vec{E} points in a direction where V decreases
- positive charge accelerates in direction of \vec{E} : decreasing V
- negative charge accelerates in direction opposite of \vec{E} : increasing V

If released from rest, KE increases and PE decreases.

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