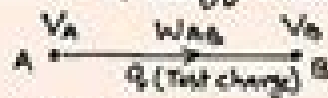


## Electric Potential due to point charge

$$V = \frac{1}{4\pi\epsilon_0} \frac{Q}{r}$$



## Potential difference

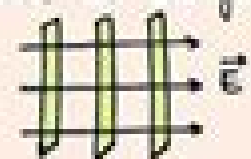


$$V_B - V_A = \frac{W_{AB}}{q}$$

$$V_B - V_A = \frac{U_B - U_A}{q}$$

## Equipotential Surface

- \* Potential is same at all the points of the surface
- \* Electric field is always perpendicular to an equipotential surface
- \* Work done to move a charge on the equipotential surface is always zero



# Electrostatic Potential & Capacitance

## Potential due to a dipole

$$\vec{P} = q \times 2\vec{a}$$



$$V = \frac{1}{4\pi\epsilon_0} \frac{P \cos \theta}{r^2}$$

(i) at axial line

$$\theta = 0^\circ, V = \frac{1}{4\pi\epsilon_0} \frac{P}{r^2}$$

(ii) at equatorial line

$$\theta = 90^\circ, V = 0$$

## Relation b/w Electric field and potential

$$E = -\frac{dV}{dr} \Rightarrow \Delta V = -\int \vec{E} \cdot d\vec{r}$$

## Potential Energy of a dipole

$$U = -PE \cos \theta = -\vec{P} \cdot \vec{E}$$

Work done in rotating a dipole against the torque

$$W_{12} = U_2 - U_1 = -PE [\cos \theta_2 - \cos \theta_1]$$

## Potential Energy of a system of two charges



$$U = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r}$$

## Combination of Capacitors

(i) Series  $\frac{1}{C_s} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$

(ii) Parallel  $C_p = C_1 + C_2 + C_3$

## Capacitance

(i) Parallel Plate Capacitor

$$C = \frac{K\epsilon_0 A}{d} \quad K \rightarrow \text{dielectric const.}$$

(ii) If a dielectric slab of thickness  $t$  ( $t < d$ ) is placed b/w the plates

$$C = \frac{\epsilon_0 A}{\left[ \frac{d-t}{K} + \frac{t}{K} \right]}$$



(iii) Spherical Capacitor

$$C = \frac{4\pi\epsilon_0 R_1 R_2}{R_2 - R_1}$$



# Conceptual Physics Electric Potential

**Cutnell**



## Conceptual Physics Electric Potential:

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*Concepts, Problems, and Solutions in General Physics* Raymond A. Serway, 1975 **Concepts in Physics** Franklin Miller, Thomas J. Dillon, Malcolm K. Smith, 1969 The Evolution of Physics from Early Concepts to Relativity and Quanta Albert Einstein, Leopold Infeld, 1960 Physics for Scientists and Engineers with Modern Physics Raymond A.

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