



# Electric Charges and Fields

## Electric Charge

Charge is a property of matter due to which two bodies interact with each other electromagnetically. There are two kinds of charges- positive and negative. SI unit is coulomb. Charge is quantized and additive.

## Coulomb's Law

Force between two charges

$$\vec{F} = \frac{1}{4\pi\epsilon_0\epsilon_r} \frac{q_1q_2}{r^2} \hat{r}$$

$\epsilon_r$  = dielectric constant of the medium,  $\epsilon_0$  = permittivity of free space



- ◆ Coulomb's Law is applicable only for static point charges.

## Principle of Superposition

Force on a point charge due to many charges is given by

$$\vec{F} = \vec{F}_1 + \vec{F}_2 + \vec{F}_3 + \dots$$

- ◆ The force due to one charge is not affected by the presence of other charges.

## Electric Field or Electric Field Intensity

$$\vec{E} = \frac{\vec{F}}{q}$$

Unit is N/C or V/m.

## Electric Field due to Point Charge Q

$$\vec{E} = \lim_{q \rightarrow 0} \frac{\vec{F}}{q} = \frac{1}{4\pi\epsilon_0} \frac{Q}{r^2} \hat{r}$$

## Null Point for Two Charges



$$x = \frac{\sqrt{Q_1}r}{\sqrt{Q_1} \pm \sqrt{Q_2}}$$

$x \rightarrow$  distance of null point from  $Q_1$  charge

(+) for like charges [null point will be in between  $Q_1$  &  $Q_2$ ]

$\mu_s$  (-) for unlike charges [null point will be outside  $Q_1$  &  $Q_2$  and near weaker charge]

## Equilibrium of Three Point Charges



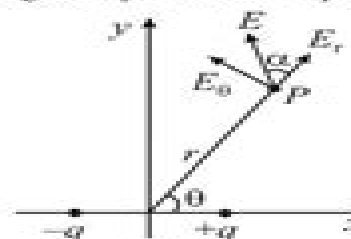
(i)  $Q_1$  &  $Q_2$  must be of like nature.

(ii)  $q$  should be of unlike nature.

$$x = \frac{\sqrt{Q_1}}{\sqrt{Q_1} + \sqrt{Q_2}} r \text{ and } q = \frac{-Q_1Q_2}{(\sqrt{Q_1} + \sqrt{Q_2})^2}$$

## Electric Dipole

- ◆ Electric dipole moment  $\vec{p} = q\vec{d}$ , where  $\vec{d}$  is distance from negative to positive charge.
- ◆ Torque on dipole placed in a uniform electric field  $\vec{\tau} = \vec{p} \times \vec{E}$
- ◆ Electric field at a general point due to a dipole.



$$\text{Electric field: } E = \frac{1}{4\pi\epsilon_0} \frac{p\sqrt{1+3\cos^2\theta}}{r^3}$$

$$\text{Direction: } \tan\alpha = \frac{E_y}{E_x} = \frac{1}{2} \tan\theta$$

# Study Guide Electric Charge

**S Ben Porath**



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