

Electric Charges and Fields

ndjtuition

Charges

- ⊕ Positive charges
- ⊖ Negative charges

Like charges : Repel each other.



Unlike charges : attract each others.



Properties of charges

Quantisation

$$q = ne$$

Where, $n = 0, 1, 2, \dots$
 e is an charge of electron

Additively

$$q_{\text{net}} = eq$$

$$e = 1.6 \times 10^{-19} \text{ C}$$

Conservation

total Charge of an isolated system is constant.

Coulomb's Law

$$F = k \frac{q_1 q_2}{r_{12}^2}, \quad k = \frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ N-m}^2/\text{C}^2$$

Vector Form

$$\vec{F}_{12} = k \frac{q_1 q_2}{r_{12}^2} \hat{r}_{12}$$

$$\hat{r}_{12} = \vec{r}_{12} / r_{12}$$

* Principle of Superposition:

$$\text{or } \vec{F}_2 = \frac{q_1}{4\pi\epsilon_0} \sum_{i=2}^n \frac{q_i}{r_{2i}^2} \hat{r}_{2i}$$

$$\vec{F}_2 = \vec{F}_{12} + \vec{F}_{13} + \vec{F}_{14} + \vec{F}_{15} + \dots + \vec{F}_{1n}$$

$$\epsilon_0 = 8.854 \times 10^{-12} \text{ C}^2/\text{N-m}^2$$

* Electric Field

$$\vec{E} = \frac{\vec{F}}{q_0}$$

$$\text{or } \vec{E} = k \frac{q}{r^2}$$

$$\text{or } \vec{E} = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2}$$

$q_0 = \text{test Charge}$

Dijest Physics 12th

A Loxley



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