

Linear Charge density $\lambda = dq/dl$; $q = \lambda \int dl$
 Surface Charge density $\sigma = dq/dA$; $q = \sigma \int dA$
 Volume Charge density $\rho = dq/dV$; $q = \rho \int dV$

★ Electric field due to a system of charge Unit - N/C
Dimension - $[MLT^{-2}A^{-1}]$

$$\vec{E} = \frac{1}{4\pi\epsilon_0} \sum_{i=1}^n \frac{q_i}{r_{ip}^2} \hat{r}_{ip}$$

P is a point where we want to find electric field due system of 'n' charges

★ Electric dipole moment Unit - C-m
Dimension - $[ATL]$

$$\vec{p} = 2qa\hat{b}$$

\hat{b} unit vector in direction of \vec{p}



★ Electric field due to a dipole

(i) At axial position

$$\vec{E}_{axial} = \frac{1}{4\pi\epsilon_0} \frac{2\vec{p}}{r^3}$$

(ii) At equatorial position

$$\vec{E}_{equa.} = -\frac{1}{4\pi\epsilon_0} \frac{\vec{p}}{r^3}$$

★ Torque on a dipole in a external uniform field

$$\tau = pE \sin\theta \quad \text{or} \quad \tau = \vec{p} \times \vec{E}$$

★ Area Vector

$$\hat{n} = \frac{\vec{A}}{A}$$

\hat{n} = unit vector

★ Solid Angle

$$d\omega = \frac{dA}{r^2} \quad \text{or} \quad d\omega = \frac{dA \cos\theta}{r^2}$$

θ = angle between \hat{n} & \vec{r}

★ Electric flux

$$\phi_E = \int \vec{E} \cdot d\vec{A} \quad \text{or} \quad \phi_E = \int E dA \cos\theta$$

Unit - $N \cdot m^2/C$

Dimension - $[ML^3T^{-2}A^{-1}]$

★ Gauss Theorem

$$\phi_E = \frac{q}{\epsilon_0} = \int \vec{E} \cdot d\vec{A}$$

★ Application of Gauss's law

(i) field due to an infinitely long straight uniformly charged wire.

$$E = \frac{1}{2\pi\epsilon_0} \frac{\lambda}{r}$$

(ii) Due to uniformly charged infinite plane sheet

$$E = \frac{\sigma}{2\epsilon_0}$$

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Raymond A. Serway, V. Gordon Lind



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