Electric Charges and Fields

Coulomb's Law

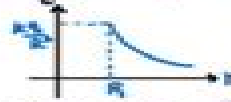$q_1 \circ \underset{r}{\quad} \circ q_2$

$$\vec{F} = \frac{1}{4\pi\varepsilon_0} \frac{q_1 q_2}{r^2} \hat{r}$$

$q = \pm ne$

Gauss's Theorem

$$\phi_E = \oint \vec{E} \cdot d\vec{s} = \frac{Q}{\varepsilon_0}$$

Charge density

linear — $\lambda = \frac{q}{l}$ surface — $\sigma = \frac{q}{A}$ volume — $\rho = \frac{q}{V}$

EF due to infinite sheet of charge → $\vec{E} = \frac{\sigma}{2\varepsilon_0}\hat{n}$

• EF due to infinite long charged wire → $E = \frac{\lambda}{2\pi\varepsilon_0 r}$

• Electric Field

$E_r = \frac{E}{E_0}$

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

Due to Point Charge

$$E = \frac{Kq}{r^2} \qquad K = 9 \times 10^9 \, Nm^2/C^2$$

Electric Dipole moment $\vec{P} = q \, 2\vec{a}$

Electric Field due to dipole

on axial line $E = \frac{2P}{4\pi\varepsilon_0 r^3}$

on equatorial line $E = \frac{P}{4\pi\varepsilon_0 r^3}$

Torque $\vec{\tau} = \vec{P} \times \vec{E}$ or $\tau = PE\sin\theta$

Due to charged Conducting Sphere

$E = \frac{Kq}{r^2}, r>R$ $E = \frac{Kq}{R^2}, r=R$ $E=0 \quad r<R$

Potential due to

Uniformly Charged Sphere

$V = \frac{q}{4\pi\varepsilon_0 r}$

$V = \frac{q}{4\pi\varepsilon_0 R}$

$V = \frac{q}{4\pi\varepsilon_0 R}$

Non Conducting Sphere

Outside $r>R$ $V = \frac{q}{4\pi\varepsilon_0 r}$

On the shell $r=R$ $V = \frac{q}{4\pi\varepsilon_0 R}$

Inside $r<R$ $V = \frac{q}{4\pi\varepsilon_0} \frac{(3R^2 - r^2)}{2R^3}$

Electric Potential & Capacitance

Electric Potential $V = \frac{q}{4\pi\varepsilon_0 r}$

Potential due to dipole → Axial → $V = \frac{P}{4\pi\varepsilon_0 r^2}$ Equatorial → $V = 0$

At any point → $V = \frac{P\cos\theta}{4\pi\varepsilon_0 r^2}$

Electric Potential Energy (for two Charges)

$$U = \frac{q_1 q_2}{4\pi\varepsilon_0 r_{12}}$$

↳ Due to dipole in External Field

$U = pE(\cos\theta_0 - \cos\theta)$ or $U = -\vec{P}\cdot\vec{E}$ θ_0 initial

Relation between $\vec{E}$ & V

$E = -\frac{dv}{dr}$ or $V = -\int \vec{E}\cdot d\vec{r}$

Capacitance $C = \frac{q}{V}$

Series Combination $\frac{1}{C_s} = \frac{1}{C_1} + \frac{1}{C_2}$

Parallel Comb. $C_p = C_1 + C_2$

Capacitance of Parallel Plate Capacitor

Air filled $C = \frac{\varepsilon_0 A}{d}$

Partially filled with dielectric $C = \frac{\varepsilon_0 A}{d - t(1 - \frac{1}{k})}$

Completely filled $C = K\varepsilon_0 \frac{A}{d}$

Filled with Metal $C = \frac{\varepsilon_0 A}{(d-t)}$

Spherical Capacitor

$C = 4\pi\varepsilon_0 \frac{ab}{b-a}$

Capacitance of Isolated Sphere

$$C = 4\pi\varepsilon_0 r$$

Energy stored in a Capacitor

$$U = \frac{1}{2}CV^2 = \frac{1}{2}QV = \frac{1}{2}\frac{Q^2}{C}$$

Energy density

$$u = \frac{U}{V} = \frac{1}{2}\varepsilon_0 E^2$$

Force between plates of Capacitor $F = \frac{Q^2}{2A\varepsilon_0}$

Common Potential

$$V = \frac{q_1 + q_2}{C_1 + C_2} = \frac{C_1 V_1 + C_2 V_2}{C_1 + C_2}$$

Energy Loss $= \frac{1}{2}\frac{C_1 C_2 (V_1 - V_2)^2}{(C_1 + C_2)}$

Current Electricity

Electric Current $i = \frac{q}{t}$

Current density $J = \frac{I}{A}$

Principle of Wheat Stone $\frac{P}{Q} = \frac{R}{S}$

Principle of Meter bridge $\frac{R}{S} = \frac{L_1 (\text{length of wire})}{100 - L_1}$

Power Electric $P = Vi = i^2 R = \frac{V^2}{R}$

Energy $W = Vq = Vit = i^2 Rt = \frac{V^2 t}{R}$

Relation b/w i & V_d $i = Ane V_d$

Principle of potentiometer $K = \frac{V}{L} = \frac{iR}{L}$

Drift Velocity $V_d = \frac{eE\tau}{m} = \frac{eV\tau}{ml}$

Mobility $\mu = \frac{|V_d|}{E}$

Resistivity $\rho = \frac{m}{ne^2\tau}$

Relation b/w J & V $J = \sigma E$

Ohm's Law $V = iR$ $R = \rho\frac{L}{A}$

Conductivity $\sigma = \frac{1}{\rho} = \frac{ne^2\tau}{m}$

Combination of identical cells

Series n-cell $i = \frac{nE}{R + nr}$

Parallel m-cell $i = \frac{mE}{mR + r}$

Mixed $i = \frac{mnE}{mR + nr}$

EMF of a Cell $E = \frac{W}{q}$

$E = V + Ir$

Temp. coefficient $\alpha = \frac{R - R_0}{R_0(T - T_0)}$

Terminal Potential diff $V = \frac{W}{q}$

$r = R\left[\frac{E - V}{V}\right]$

Joule's Law $H = i^2 Rt$ Joule

$H = \frac{i^2 Rt}{4.18}$ Calories

Moving Charges and Magnetism

Magnetic Force

$$\vec{F}_m = q(\vec{V} \times \vec{B})$$

Pitch $(P) = \frac{2\pi m V\cos\theta}{qB}$

Motion of charge in Uniform Transverse Magnetic Field.

$F_m = qVB = \frac{mv^2}{r}$

• **Time period** $T = \frac{2\pi R}{V} = \frac{2\pi m}{qB}$

• **Radius of Circular path**

$r = \frac{mv}{qB} = \frac{P}{qB} = \frac{\sqrt{2mK}}{qB} = \frac{\sqrt{2mqV}}{qB}$

Biot Savart's Law

$$dB = \frac{\mu_0}{4\pi} \frac{idl\sin\theta}{r^2}$$

→ MF at Centre of a Circular Coil $B = \frac{\mu_0 i}{2a}$

→ MF at a point on the axis of Current Carrying Coil $B = \frac{\mu_0}{4\pi} \frac{2\pi Nia^2}{(a^2 + x^2)^{3/2}}$

Force b/w two Current Carrying parallel straight Conductor

$$F = \frac{\mu_0}{4\pi} \frac{2i_1 i_2 l}{r}$$

• **Magnetic force on a Current Carrying Conductor** $\vec{F} = i(\vec{L} \times \vec{B})$

• **Ampere's Circuital Law**

$$\oint \vec{B} \cdot d\vec{l} = \mu_0 i$$

Magnetic field due to an infinitely long straight wire of radius 'a' carrying Current i at a point -

$B = \frac{\mu_0 i}{2\pi a^2}, r<a$ $B = \frac{\mu_0 i}{2\pi a}, r=a$ $B = \frac{\mu_0 i}{2\pi r}, r>a$

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Michael Kriss

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