Electric Charges and Fields

Coulomb's Law

q_1 —— r —— 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 $\quad$ surface $\quad$ volume

$\lambda = \dfrac{q}{l} \quad r = \dfrac{q}{A} \quad r = \dfrac{q}{V}$

E.f due to infinite sheet of charge $\Rightarrow \vec{E} = \dfrac{\sigma}{2\varepsilon_0}\hat{n}$

• E.f due to infinite long charged wire $\Rightarrow E = \dfrac{\lambda}{2\pi\varepsilon_0 r}$

• Electric Field

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

$E_r = \dfrac{E}{\varepsilon_r}$

Due to Point Charge

$$E = \frac{kq}{r^2} \qquad k = 9\times10^9 \, Nm^2/C^2$$

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

Electric Field due to dipole

on axial line $\qquad$ on equatorial line

$E = \dfrac{2P}{4\pi\varepsilon_0 r^3} \qquad E = \dfrac{P}{4\pi\varepsilon_0 r^3}$

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

Due to Charged Conducting Sphere

$E = \dfrac{kq}{r^2}, r>R \quad E = \dfrac{kq}{R^2}, r=R \quad E=0 \; r<R$

Potential due to

Uniformly Charged Sphere $\qquad$ **Non Conducting Sphere**

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

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

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

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

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

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

Electric Potential & Capacitance

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

Potential due to dipole

Axial $\rightarrow V = \dfrac{P}{4\pi\varepsilon_0 r^2}$

Equatorial $\rightarrow V=0$

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

Electric Potential Energy [for two charges]

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

Due to dipole in External Field

$U = pE(\cos\theta_1 - \cos\theta_2)$ or $U = -\vec{P}\cdot\vec{E}$

θ_1 = initial

Relation between $\vec{E}$ & V

$E = -\dfrac{dV}{dr}$ or $V = -\int \vec{E}\cdot d\vec{r}$

Capacitance $\qquad C = \dfrac{q}{V}$

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

Parallel Comb. $\quad C_P = C_1 + C_2$

Capacitance of Parallel Plate Capacitor

Air filled $\qquad C = \dfrac{\varepsilon_0 A}{d}$

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

Spherical Capacitor

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

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

Filled with metal $\quad C = \dfrac{\varepsilon_0 A}{(d-t)}$

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 $\quad F = \dfrac{Q^2}{2A\varepsilon_0}$

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

Current Electricity

Electric Current $\quad i = \dfrac{q}{t}$

Current density $\quad J = \dfrac{I}{A}$

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

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

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

Power $\quad P = Vi = i^2R = \dfrac{V^2}{R}$

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

Drift Velocity $\quad V_d = \dfrac{eET}{m} = \dfrac{eV\tau}{ml}$

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

Mobility $\quad \mu = \dfrac{|V_d|}{E}$

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

Combination of identical cells

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

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

Mixed $\quad i = \dfrac{mnE}{mR + nr}$

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

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

Relation b/w J & $\vec{v}$ $\quad J = \sigma E$

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

$E = V + Ir$

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

Terminal Potential diff $\quad V = \dfrac{W}{q}$

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

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

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

Moving Charges and Magnetism

Magnetic Force

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

Pitch $(P) = \dfrac{2\pi m v\cos\theta}{qB}$

Motion of charge in Uniform Transverse Magnetic Field

$F_m = qvB = \dfrac{mv^2}{r}$

• Time period $\quad T = \dfrac{2\pi R}{v} = \dfrac{2\pi m}{qB}$

• Radius of Circular path $\quad r = \dfrac{mv}{qB} = \dfrac{P}{qB} = \dfrac{\sqrt{2mK}}{qB} = \dfrac{\sqrt{2mqV}}{qB}$

Biot Savart's Law

$$dB = \frac{\mu_0}{4\pi}\frac{i\,dl\sin\theta}{r^2}$$

Force b/w two Current Carrying parallel straight Conductor

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

• Ampere's Circuital Law

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

→ M.F at Centre of a Circular Coil $\quad B = \dfrac{\mu_0 i}{2a}$

→ M.F at a point on the axis of Current Carrying Coil $\quad B = \dfrac{\mu_0}{4\pi}\dfrac{2\pi N i a^2}{(a^2 + x^2)^{3/2}}$

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

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

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

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