Electric Charges and Fields

Coulomb's Law

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

$Q = \pm ne$

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 $\rho = \frac{q}{V}$

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

E.F due to infinite long charged wire $E = \frac{\lambda}{2\pi\varepsilon_0 r}$

- Electric Field $\vec{E} = \frac{\vec{F}}{q_0}$

Due to Point Charge $E = \frac{kq}{r^2}$, $k = \frac{1}{4\pi\varepsilon_0} = 9\times10^9\ Nm^2/C^2$

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

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

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: $U = pE(\cos\theta_1 - \cos\theta)$ or $U = -\vec{P}\cdot\vec{E}$ (θ_1 initial)

Relation between $\vec{E}$ & $\vec{V}$

$E = -\frac{dV}{dr}$ 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 Combination $C_p = C_1 + C_2$

Capacitance of Parallel Plate Capacitor

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

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

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

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

Common Potential $V = \frac{q_1 + q_2}{C_1 + C_2} = \frac{C_1V_1 + C_2V_2}{C_1 + C_2}$

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

Energy Loss $= \frac{1}{2}\frac{C_1C_2(V_1 - V_2)^2}{(C_1 + C_2)}$

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

Potential due to Uniformly Charged Sphere

	outside $r > R$	on the shell $r = R$	inside $r < R$
	$V = \frac{q}{4\pi\varepsilon_0 r}$	$V = \frac{q}{4\pi\varepsilon_0 R}$	$V = \frac{q}{4\pi\varepsilon_0 R}$

Potential due to Non Conducting Sphere

	outside $r > R$	on the shell $r = R$	inside $r < R$
	$V = \frac{q}{4\pi\varepsilon_0 r}$	$V = \frac{q}{4\pi\varepsilon_0 R}$	$V = \frac{q}{4\pi\varepsilon_0}\frac{(3R^2 - r^2)}{2R^3}$

Current Electricity

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

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

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

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

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

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

Relation b/w J & σ $J = \sigma E$

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

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

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

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

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

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

Principle of Meter bridge $\frac{R}{S} = \frac{l_1\ (\text{length of wire})}{100 - l_1}$

Principle of potentiometer $k = \frac{V}{L} = \frac{IR}{L}$

Combination of identical cells

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

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

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

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

Joule's Law $H = i^2Rt$ Joule, $H = \frac{i^2Rt}{4.18}$ Calories

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

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

Moving Charges and Magnetism

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

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

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

- 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 $F = \frac{\mu_0}{4\pi}\frac{2i_1i_2l}{r}$

- 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 -

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

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