

Electric Charges and Fields

Coulomb's Law
 $q_1 \quad r \quad q_2$

$$\vec{F} = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2} \hat{r}$$
 $Q = \pm ne$

Gauss's Theorem
 $\phi_e = \oint \vec{E} \cdot d\vec{S} = \frac{Q}{\epsilon_0}$

Charge density
 linear $\lambda = \frac{Q}{l}$
 surface $\sigma = \frac{Q}{A}$
 volume $\rho = \frac{Q}{V}$

EF due to infinite Sheet of charge
 $\vec{E} = \frac{\sigma}{2\epsilon_0} \hat{n}$
EF due to infinite long charged wire
 $E = \frac{\lambda}{2\pi\epsilon_0 r}$

Electric Field

$\vec{E} = \frac{\vec{F}}{q_0}$
Due to Point Charge
 $E = \frac{kq}{r^2}$ $k = 9 \times 10^9 \text{ Nm}^2/\text{C}^2$

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

Electric Field due to dipole
 on axial line $E = \frac{2P}{4\pi\epsilon_0 r^3}$
 on equatorial line $E = \frac{P}{4\pi\epsilon_0 r^3}$

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

Due to charged Conducting Sphere



$\vec{E}_r = \frac{E}{\epsilon_0}$
Due to Point Charge
 $E = \frac{kq}{r^2}$ $k = 9 \times 10^9 \text{ Nm}^2/\text{C}^2$

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Due to charged Conducting Sphere



Electric Potential & Capacitance

Electric Potential $V = \frac{q}{4\pi\epsilon_0 r}$
Electric Potential Energy [for two charge]
 $U = \frac{q_1 q_2}{4\pi\epsilon_0 r}$

Relation between $\vec{E}$ & V
 $E = -\frac{dV}{dr}$ or $V = -\int \vec{E} \cdot d\vec{r}$

Capacitance of Parallel Plate Capacitor

Air filled $C = \frac{\epsilon_0 A}{d}$
Partially filled with dielectric $C = \frac{\epsilon_0 A}{d} \left(1 + \frac{k}{2}\right)$
Completely filled $C = K\epsilon_0 \frac{A}{d}$
Filled with metal $C = \frac{4\pi\epsilon_0 a b}{(d-t)}$

Potential
 Axial $V = \frac{P}{4\pi\epsilon_0 r^2}$
 Equatorial $V = 0$
 at any point $V = \frac{P \cos\theta}{4\pi\epsilon_0 r^2}$

Capacitance
 Series combination $\frac{1}{C_s} = \frac{1}{C_1} + \frac{1}{C_2}$
 Parallel Comb. $C_p = C_1 + C_2$

Capacitance of Isolated Sphere



Energy stored in a Capacitor
 $U = \frac{1}{2} CV^2 = \frac{1}{2} QV = \frac{1}{2} \frac{Q^2}{C}$

Energy density
 $u = \frac{U}{V} = \frac{1}{2} \epsilon_0 E^2$

Force between plates of Capacitor

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

$F = \frac{Q^2}{2A\epsilon_0}$

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
 $\frac{R}{S} = \frac{l}{100-l}$

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

Power $P = VI = I^2 R = \frac{V^2}{R}$
Energy $W = Vq = VIt = I^2 Rt = \frac{V^2 t}{R}$

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

Relation b/w I & V_d
 $I = AneV_d$

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

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

Combination of identical cells
 Series $i = \frac{nE}{R + nr}$
 Parallel $i = \frac{mE}{mR + r}$
 Mixed $i = \frac{mnE}{mR + nr}$

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

Joule's Law
 $H = I^2 R t$ Joule
 $H = \frac{I^2 R t}{4.18}$ Calories

Relation b/w J & V
 $J = \frac{V}{r}$

EMF of a cell $E = \frac{W}{q}$
 $E = V + Ir$

Terminal Potential diff $V = \frac{W}{q}$
 $r = R \left[\frac{E - V}{V} \right]$

Joule's Law
 $H = I^2 R t$ Joule
 $H = \frac{I^2 R t}{4.18}$ 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
 $F_m = qvB = \frac{mv^2}{r}$

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

Time period
 $T = \frac{2\pi R}{v} = \frac{2\pi m}{qB}$

Ampere's Circuital Law
 $\oint \vec{B} \cdot d\vec{l} = \mu_0 i$

Biot Savart's Law
 $dB = \frac{\mu_0}{4\pi} \frac{i d\vec{l} \times \vec{r}}{r^2}$

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
 $\vec{F} = i(\vec{l} \times \vec{B})$

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

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

Magnetic field due to an infinitely long straight wire of radius 'a' carrying current 'i' at a point
 $B = \frac{\mu_0 i}{2\pi a^2}$ for $r < a$
 $B = \frac{\mu_0 i}{2\pi r}$ for $r = a$
 $B = \frac{\mu_0 i}{2\pi r}$ for $r > a$

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