

Electric Charges and Fields

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

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 $\vec{p} = q \cdot 2a \hat{a}$

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 $\tau = pE \sin\theta$

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 $V = \frac{q}{4\pi\epsilon_0 r}$
 Potential due to dipole: Axial $\rightarrow V = \frac{p \cos\theta}{4\pi\epsilon_0 r^2}$, Equatorial $\rightarrow V = 0$

Electric Potential Energy [for two charges]
 due to dipole in external field: $U = -\vec{p} \cdot \vec{E}$

Relation between 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: $C = \frac{\epsilon_0 A}{d}$
 Partially filled with dielectric: $C = \frac{\epsilon_0 A}{d} (1 + \frac{t}{b-a})$
 Completely filled: $C = K\epsilon_0 \frac{A}{d}$
 Filled with metal: $C = \frac{2\epsilon_0 A}{(d-t)}$

Capacitance of Isolated Sphere
 $C = 4\pi\epsilon_0 R$

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

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

Force between plates of Capacitor
 $F = \frac{Q^2}{2A\epsilon_0}$

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

Potential due to Non Conducting Sphere

Uniformly Charged Sphere
 Outside $r > R$: $V = \frac{q}{4\pi\epsilon_0 r}$
 On the shell $r = R$: $V = \frac{q}{4\pi\epsilon_0 R}$
 Inside $r < R$: $V = \frac{q}{4\pi\epsilon_0 R} \left(\frac{3R^2 - r^2}{2R^3} \right)$

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

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

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

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

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

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

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

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

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

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

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

Joule's Law
 $H = I^2 R t$ Joule
 $H = I^2 R t$ Calories (4-18)

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

Power $P = VI = I^2 R = \frac{V^2}{R}$

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



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

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

MF of a point on the axis of current carrying coil
 $B = \frac{\mu_0 2\pi Ni a^2}{4\pi (a^2 + x^2)^{3/2}}$

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

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

Biot Savart's Law
 $dB = \frac{\mu_0}{4\pi} \frac{idl \sin\theta}{r^2}$

Force b/w two current carrying parallel straight conductor
 $F = \frac{\mu_0 2i_1 i_2 l}{4\pi r}$

Magnetic force on a current carrying conductor
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