

### 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:  $C = \frac{\epsilon_0 A}{d} (1 + \frac{k}{2})$   
 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**  
 $U = \frac{1}{2} CV^2 = \frac{1}{2} QV = \frac{1}{2} \frac{Q^2}{C}$

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

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

### 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  $r < R$ :  $V = \frac{q}{4\pi\epsilon_0} \left( \frac{3R^2 - r^2}{2R^3} \right)$

### Energy density & Force between plates of Capacitor

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

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

### 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**  
 $K = \frac{V}{L} = \frac{R}{L}$

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

**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  $I$  &  $V_d$**   
 $I = AneV_d$

**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)  
 $H = I^2 R t$  (Calories) 4-18

**Power & Energy**  
 Power:  $P = Vi = I^2 R = \frac{V^2}{R}$   
 Energy:  $W = Vq = VIt = I^2 R t = \frac{V^2 t}{R}$

### Moving Charges and Magnetism

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

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

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

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

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

### 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**  
 $r = \frac{mv}{qB} = \frac{p}{qB} = \frac{\sqrt{2mqV}}{qB}$

### Moving Charges and Magnetism (continued)

**Motion of charge in Uniform Transverse Magnetic Field (continued)**  
 $r = \frac{mv}{qB} = \frac{p}{qB} = \frac{\sqrt{2mqV}}{qB}$

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