

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

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

# 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**  
 $V_d = \frac{eE\tau}{m} = \frac{eV}{ml}$   
**Relation b/w I &  $V_d$**   
 $I = Anev_d$

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

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

# 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**  
 $F_m = qvB = \frac{mv^2}{r}$   
 • 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**  
 $dB = \frac{\mu_0}{4\pi} \frac{idl \sin\theta}{r^2}$

**Force b/w two Current Carrying parallel straight Conductor**  
 $F = \frac{\mu_0}{4\pi} \frac{2i_1 i_2 l}{r}$

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

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

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

**Magnetic force on a Current Carrying Conductor**  
 $\vec{F} = i(\vec{l} \times \vec{B})$

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

# Electric Potential & Capacitance

**Electric Potential**  $V = \frac{q}{4\pi\epsilon_0 r}$   
**Electric Potential Energy** [for two Charge]  
 $U = \frac{q_1 q_2}{4\pi\epsilon_0 r}$  due to dipole in external field  $U = pE(\cos\theta_1 - \cos\theta_2)$  or  $U = -\vec{p} \cdot \vec{E}$

**Capacitance**  
 $C = \frac{Q}{V}$   
 Series combination  $\frac{1}{C_s} = \frac{1}{C_1} + \frac{1}{C_2}$   
 Parallel Comb.  $C_p = C_1 + C_2$   
 Spherical Capacitor  $C = 4\pi\epsilon_0 \frac{ab}{b-a}$

**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  $C = \frac{2\pi\epsilon_0 ab}{(d-t)}$

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

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

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

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

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

**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

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