

# 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

**Due to Point Charge**  
 $\vec{E} = \frac{Q}{4\pi\epsilon_0 r^2} \hat{r}$   
 $K = 9 \times 10^9 \text{ Nm}^2/\text{C}^2$

**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  $\tau = P \sin\theta$

**Due to charged Conducting Sphere**



**Electric Potential**  
 $V = \frac{Q}{4\pi\epsilon_0 r}$   
**Relation between  $\vec{E}$  &  $\nabla$**   
 $E = -\frac{dV}{dr}$  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  $C = \frac{\epsilon_0 A}{d} \left(1 + \frac{k}{2}\right)$   
 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**  
 $C = 4\pi\epsilon_0 R$

# Electric Potential & Capacitance

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

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

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

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

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

# 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**  
 $H = I^2 Rt$  Joule  
 $H = \frac{I^2 Rt}{4.18}$  Calories

**Relation b/w  $J$  &  $V$**   
 $J = \tau E$

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

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

**Temp. Coefficient**  
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# 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**  
 $\vec{F} = i(\vec{l} \times \vec{B})$

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

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

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**Jonathan David**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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