

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 $\vec{P} = q \cdot 2a$

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



$\vec{E}_r = \frac{E}{\epsilon_0}$

Electric Potential $V = \frac{q}{4\pi\epsilon_0 r}$

Relation between $\vec{E}$ & $\vec{V}$
 $E = -\frac{dV}{dr}$ 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 $C = \frac{\epsilon_0 A}{d} \left(1 + \frac{k}{2}\right)$
Completely filled $C = K\epsilon_0 \frac{A}{d}$
Filled with metal $C = \frac{3\epsilon_0 A}{(d-t)}$



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

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



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 $\frac{R}{S} = \frac{l_1}{100 - l_1}$

Drift Velocity $V_d = \frac{e E t}{m} = \frac{e V E}{m l}$

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

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

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

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

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

Terminal Potential diff $V = \frac{E}{1 + \frac{r}{R}}$

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

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

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

Relation b/w I & V_d $I = A n e V_d$

Force b/w two Current Carrying parallel straight Conductor

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

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 -

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

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

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

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

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

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

Diagram of a wire with current i and a magnetic field B, showing the path of a charged particle with velocity v.

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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