

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
 $\vec{E} = \frac{Q}{4\pi\epsilon_0 r^2} \hat{r}$
 $E = \frac{kQ}{r^2}$ $k = 9 \times 10^9 \text{ Nm}^2/\text{C}^2$

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



Uniformly Charged Sphere

$V = \frac{Q}{4\pi\epsilon_0 r}$
 $V = \frac{Q}{4\pi\epsilon_0 R}$
 $V = \frac{Q}{4\pi\epsilon_0 R}$

Potential due to Non Conducting 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 $r < R$
 $V = \frac{Q}{4\pi\epsilon_0} \left(\frac{3R^2 - r^2}{2R^3} \right)$

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

$I = Anev_d$

Electric Potential & Capacitance

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

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

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 $C = \frac{\epsilon_0 A}{d} \left(1 + \frac{k}{2} \right)$
 Completely filled $C = K\epsilon_0 \frac{A}{d}$
 Filled with metal $C = \frac{2\pi\epsilon_0 ab}{(d-t)}$

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
 Axial $V = \frac{P}{4\pi\epsilon_0 r^2}$
 Equatorial $V = 0$

Capacitance
 Spherical Capacitor $C = 4\pi\epsilon_0 \frac{ab}{b-a}$
 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

$C = 4\pi\epsilon_0 R$

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



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

$\oint \vec{B} \cdot d\vec{l} = \mu_0 i$

Magnetic field due to a Circular coil

$B = \frac{\mu_0 i}{2a}$

Magnetic field due to 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

$\vec{F} = i(\vec{l} \times \vec{B})$

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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**Cathy Smith, Georgina Buttel, Sonya
Ankerholz-Potts**



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