



Electrons

$$e = -1.6 \times 10^{-19} \text{ coulombs (C)}$$

$$e = 9.11 \times 10^{-31} \text{ Kg}$$

$$1 \text{ coulomb} = 6.25 \times 10^{18} e$$

$$F_e = \frac{kQ_1Q_2}{d^2} = qE$$

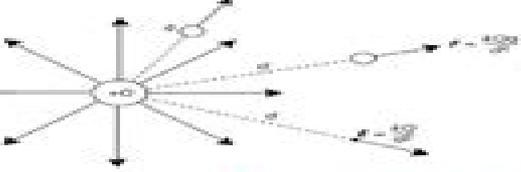
Coulomb's Law

$F_e$  = force between the 2 objects  
 $k$  = constant =  $9 \times 10^9 \frac{Nm}{C^2}$   
 $Q_1, Q_2$  = charge of object 1 & 2 (C)

Surface Area of a sphere =  $4\pi r^2$

**Electric Field Strength**

Force per coulomb exerted on a test charge at that point



$$E = \frac{F}{q} = \frac{kQ}{d^2} = \frac{V}{m} \text{ also } E = \frac{V}{m} = \frac{E}{1}$$

$$F_e = qE$$

$E$  = electric field strength (N/C) (NC<sup>-1</sup>) (V/m)  
 In the same direction as  $F_e$  if  $Q$  is positive

**Electric Potential near point charge Q**

$$V_1 = \frac{kQ}{d_1} \quad V_2 = \frac{kQ}{d_2}$$

Potential  $V$  of surface of a sphere  $V = \frac{kQ}{r}$

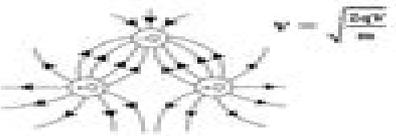
**ELECTRIC POTENTIAL DIFFERENCE**

(Work (Joules) needed to move charge between 2 points)

$$\Delta V = \frac{W}{q} = \frac{\text{Joules}}{\text{Coulomb}} = \frac{Nm}{C} = V_2 - V_1 = Ed$$

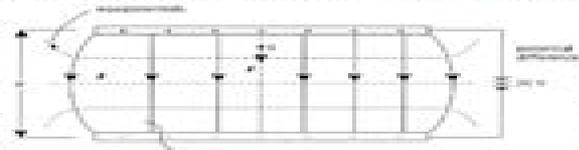
$$\text{HENCE } \frac{V}{m} = \frac{N}{C} = E$$

ENERGY METHOD  $W = qV = qEd = \frac{1}{2}mv^2$



$$v = \sqrt{\frac{2qV}{m}}$$

**Parallel oppositely charged plates UNIFORM**



$$E(\text{Vm}^{-1}) = \frac{\text{Volts}}{\text{metre}} = \frac{V}{d} = \frac{F_e}{q} = \frac{kQ}{d^2}$$

$$V = Ed = \frac{W}{q} \quad w = qed$$

$$F_e = \frac{kQ_1Q_2}{d^2} = qE$$

FORCE METHOD  $a = \frac{F_e}{m} = \frac{qE}{m}$

$$v^2 = u^2 + 2as \quad t = \frac{d}{v} \quad s = ut + \frac{1}{2}at^2$$

$$v = \sqrt{2ad} = \sqrt{\frac{2qE_s}{m}} = \sqrt{\frac{2F_e s}{m}}$$

**MILIKANS LAW** (in suspension)

$$F_e = Eq = F_w = mg$$

$$q = \frac{mg}{E}$$

**ELECTRON GUN**

$$q_e \times V = \frac{mv^2}{2} \rightarrow v = \sqrt{\frac{2 \times q_e \times V}{m}}$$

$$I = \frac{Q}{t} = \frac{q}{t} = nqv$$

$$V = IR = \frac{qR}{t} = nqvR = EMF$$

$$R = \frac{V}{I} = \frac{Vt}{q} = \frac{V}{nqv}$$

Ohm's Law

$I$  = Electric current (Amps) (rate of flow of charges with time)

$R$  = Resistance of wire (Ohms)( $\Omega$ ) (Volt/amp)  
 Dependent on temperature  $T \uparrow R \uparrow$

$V$  = EMF voltage = the force moving  $q$  (V) (J/C)

$v$  =  $d$  drift velocity (m/s)

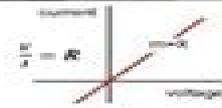
$n$  = number of  $d$  per metre

$$R \propto L \quad R = \frac{L}{A} \quad R = \rho \frac{L}{A}$$

$\rho$  = Resistivity of wire ( $\Omega/m$ )

$L$  = Length of wire

$A$  = cross sectional area =  $\pi r^2$



**- I(+) + -> CONVENTIONAL CURRENT pos -> neg**

**Junction Law**

$$I_1 = I_2 + I_3$$

**RESISTORS IN SERIES**

$$R_T = R_1 + R_2 + R_3 + R_4$$



**RESISTORS IN PARALLEL**

$$\frac{1}{R_T} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots$$



**Loop Law**

$$V - V_1 + V_2 + V_3 = 0$$

$$V = V_1 + V_2 + V_3$$



Lower Resistance = Thicker Filament

**POWER (Watts) Rate of energy transfer**

$$P = \frac{\text{Energy (W)}}{t} = \frac{qV}{t} = IV = \frac{V^2}{R} = I^2R$$

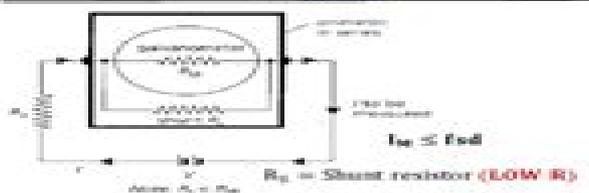
$$R = \frac{P}{I^2} = \frac{qV}{qI^2} = \frac{V^2}{P} = \frac{V^2 t}{w} = \frac{Vt}{q} = \frac{V}{I}$$

$$I = \frac{P}{V} = \frac{w}{IV} = \frac{q}{t} = \frac{C}{s} = \pm \sqrt{\frac{P}{R}} \text{ OR } \sqrt{\frac{qV}{tR}} = \frac{V}{R}$$

$$V = \frac{P}{I} = \frac{Pt}{q} = \frac{w}{q} = \frac{w}{q} = \frac{I}{C} = \frac{Nm}{C} = \pm \sqrt{RP} = \frac{qR}{t} = IR$$

$$W = qV = \frac{V^2 t}{R} = I^2 R t = Pt = IVt = \frac{1}{2}mv^2$$

Efficiency =  $\frac{\text{Power in}}{\text{Power out}} \times 100$



$R_s = \text{Shunt resistor (LOW } R)$

$$I_s \times R_s = I_m \times R_m$$

$$I_{tot} = I_s + I_m$$

$$R_s = \frac{I_m \times R_m}{I_{tot} - I_m}$$



$R_s = \text{series resistor (HIGH } R)$

$$V = I_m \times (R_s + R_m)$$

THERMISTORS

# Physics Electricity And Magnetism Study Guide

**CO Houle**



## **Physics Electricity And Magnetism Study Guide:**

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