



Electrons

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

$$\epsilon = 9.11 \times 10^{-31} \text{ kg}$$

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

$$F_e = \frac{kQ_1 Q_2}{d^2} = qE$$

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 = $4\pi r^2$

Coulomb's Law

Electric Field Strength

Force per coulomb exerted on a test charge at that point



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

$$F_e = qE$$

E = electric field strength (N/C) (NC^{-1}) (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 $V = \frac{kQ}{r}$

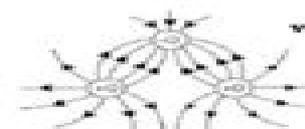
ELECTRIC POTENTIAL DIFFERENCE

(work (joules) needed to move charge between 2 points)

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

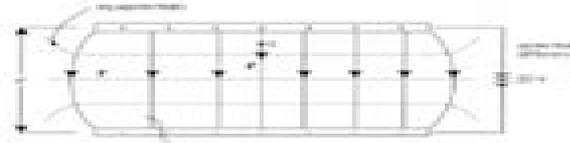
HENCE $\frac{V}{m} = \frac{N}{C} = E$

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



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

Parallel charged plates UNIFORM



$$E(V/m) = \frac{\text{Volts}}{\text{metre}} = \frac{V}{d} = \frac{F}{Q} = \frac{kQ}{d^2}$$

$$V = Ed = \frac{W}{q} \quad W = qEd$$

$$F_e = \frac{kQ_1 Q_2}{d^2} = qE$$

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

$$v^2 = u^2 + 2as \quad u = 0 \quad s = \frac{W}{qE} = \frac{1}{2}vd^2$$

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

MILKING LAW (in the previous)

$$F_e = Ee = F_e = meE$$

$$e = \frac{mev}{E}$$

ELECTRON GUN

$$e \times V = \frac{mev^2}{2} \rightarrow v = \sqrt{\frac{2 \times e \times V}{m}}$$

$$I = \frac{V}{R} = \frac{q}{t} = neqv$$

$$V = IR = \frac{qV}{t} = neqvR = EdR$$

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

Ohm's Law

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

R = Resistance of wire (ohms) (Ω) = (volts/amp)
Depends on on temperature $T \propto R$

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

v = drift velocity (m/s)

n = number of e per metre

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

ρ = Resistivity of wire (Ω/m)

L = Length of wire

A = cross sectional area = πr^2

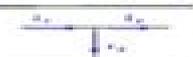


CURRENT CARRYING WIRE IN A MAGNETIC FIELD

- 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

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

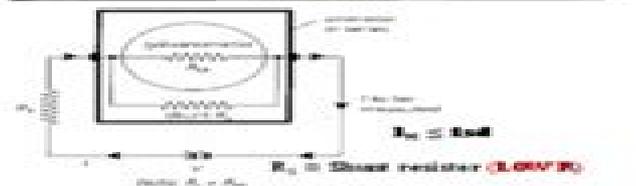
$$R = \frac{P}{I^2} = \frac{qV}{Q^2} = \frac{V^2}{P} = \frac{V^2 t}{W} = \frac{W}{Q^2} = \frac{Vt}{q} = \frac{V}{I}$$

$$I = \frac{P}{V} = \frac{W}{qV} = \frac{q}{t} = \frac{C}{s} = \pm \sqrt{\frac{P}{R}} \text{ or } \sqrt{\frac{qV}{tR}} = \frac{V}{R}$$

$$V = \frac{P}{I} = \frac{Pt}{q} = \frac{W}{q} = \frac{W}{q} = \frac{I}{C} = \frac{It}{C} = \pm \sqrt{\frac{WP}{C}} = \frac{qV}{I} = IR$$

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

Efficiency = $\frac{\text{Power to Resistance}}{\text{Power to Resistance}} \times 100$



R_1 = Shunt resistor (LOW R)

$$I_1 \times R_1 = I_2 \times R_2$$

$$I_{tot} = I_1 + I_2$$

$$R_T = \frac{I_{tot} \times R_{tot}}{I_{tot} - I_1}$$



R_1 = series resistor (HIGH R)

$$V = I_{tot} \times (R_1 + R_2)$$

ELECTROMAGNETIC INDUCTION



Physic Study Guide Magnetism

Kathleen Armour



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web one type of titration uses a neutralization reaction in which an acid and a base react to produce a salt and water in equation 1 the acid is hcl hydrochloric acid and the base