



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)

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

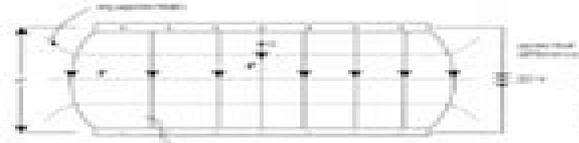
HENCE  $\frac{V}{m} = \frac{N}{C} = E$

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



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

**Parallel charged plates UNIFORM**



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

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

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

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

$$v^2 = u^2 + 2as \quad s = \frac{d}{2} \quad s = \frac{m}{2} \times \frac{1}{m^2}$$

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

**MILKING LAW (in the previous)**

$$F_e = Ee = F_e = meE$$

$$e = \frac{meE}{F_e}$$

**ELECTRON GUN**

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

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

$$V = IR = \frac{qV}{I} = neqR = eDnV$$

$$R = \frac{V}{I} = \frac{V}{neq} = \frac{V}{neqv}$$

Ohm's Law

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

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

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

$v$  = drift velocity (m/s)

$n$  = number of  $e$  per metre

$$R \propto L \quad R \propto \frac{1}{A} \quad R = \rho \frac{L}{A}$$

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

$L$  = Length of wire

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



**CURRENT CARRYING WIRE IN A MAGNETIC FIELD**

**JUNCTION LAW**

**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**

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

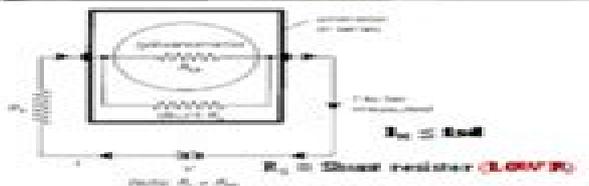
$$R = \frac{P}{I^2} = \frac{qV}{Q^2} = \frac{V^2}{P} = \frac{V^2 t}{W} = \frac{W}{Q^2} = \frac{Vt}{q} = \frac{V}{I}$$

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

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

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

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



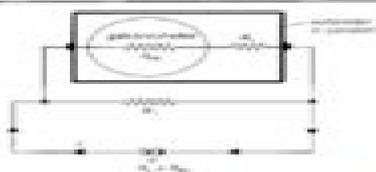
$$I_{in} \leq I_{out}$$

$R_1$  = Short resistor (LOW R)

$$I_1 \times R_1 = I_{in} \times R_{in}$$

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

$$R_{in} = \frac{I_{in} \times R_{in}}{I_{in} - I_{in}}$$



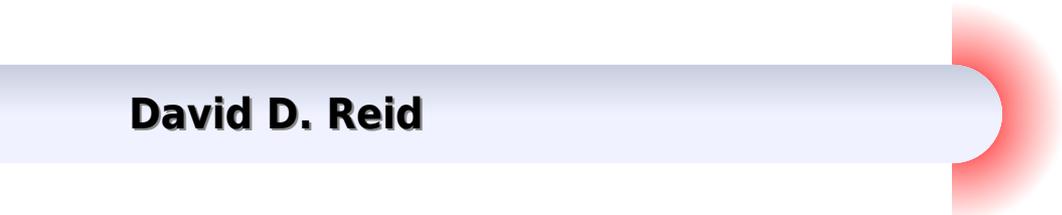
$R_1$  = series resistor (HIGH R)

$$V = I_{in} \times (R_1 + R_{in})$$

**ELECTROMAGNETIC INDUCTION**

# Physics Magnetic Fields Study Guide Answers

**David D. Reid**



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