

**Electrons**

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

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

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

**Coulomb's Law**

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

$F_e$  = force between the 2 objects

$k = \text{constant} = 9 \times 10^9 \frac{\text{Nm}}{\text{C}^2}$

$Q_1, Q_2$  = 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

$E = \frac{F}{q} = \frac{kq}{d^2} = \frac{V}{r}$  also  $E = V/m = \frac{V}{d}$

$F_e = qE$

$E$  = electric field strength (N/C) ( $\text{NC}^{-1}$ ) (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)

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

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

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

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

**Parallel oppositely charged plates UNIFORM**

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

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

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

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

$v^2 = u^2 + 2as \quad u = \frac{0}{s} \quad s = ad = \frac{1}{2}at^2$

$v = \sqrt{2as} = \sqrt{\frac{2qEds}{m}} = \sqrt{\frac{2F_e s}{m}}$

**MILKING LAYER** (in this position)

$F_e = Ee = F_m = mg$

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

**ELECTRON GUN**

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

**Ohm's Law**

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

$V = IR = \frac{qV}{t} = \frac{mqvR}{t} = Edv$

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

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

$R$  = Resistance of wire (ohms) ( $\Omega$ ) (volts/amp)  
Depends on temperature 'T' &  $I$

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

$v$  =  $e$  drift velocity ( $\text{ms}^{-1}$ )

$n$  = number of  $e$  per metre

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

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

$L$  = Length of wire

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



CURRENT CARRYING WIRE IN A MAGNETIC FIELD

$-I(1) = \rightarrow$  CONVENTIONAL CURRENT pos  $\rightarrow$  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**

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

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

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

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

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

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

$I_{\text{tot}} \leq 1 \text{ A}$

$R_0$  = Short resistor (LOW  $R$ )

$I_0 \times R_0 = I_{\text{tot}} \times R_{\text{tot}}$

$I_{\text{tot}} = I_0 + I_{\text{tot}}$

$R_0 = \frac{I_{\text{tot}} \times R_{\text{tot}}}{I_{\text{tot}} - I_0}$

$R_0$  = series resistor (HIGH  $R$ )

$V = I_{\text{tot}} \times (R_0 + R_{\text{tot}})$

ELECTROMAGNETIC INDUCTION

# Study Guide Magnetic Fields

**John D. Cutnell, Kenneth W. Johnson**



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