

**CH3: CURRENT**

**Intro:** - Current = motion of charge  
 Scalar  $I = \frac{dq}{dt}$   
**Ohm's Law:** -  $V = IR$  Vector form:  $E = \int \frac{J}{\sigma} dl$   
 $R = \frac{\rho l}{A}$   
**Resistance:** -  $R = \frac{m l}{n e^2 A}$   
 stretching/compressing string:  $\frac{R}{R_0} = \left(\frac{l}{l_0}\right)^2$   
 radius change:  $\frac{R}{R_0} = \left(\frac{r_0}{r}\right)^2$   
**Drift speed:** -  $V_d = \mu_e n e A$   
 $V_d = \mu_e n e E$

**Thermal Effect on R:**  
 $R_T = R_0 (1 + \alpha \Delta T)$   
 Metal Cond.  $\alpha > 0$  (ex. Cu)  
 Semiconductors  $\alpha < 0$  (ex. Si, Ge)  
 $R_p = R_0 (1 + \alpha \Delta T)$   
**OPIMIC vs Non ohmic**  
 $V = IR$  - not always valid for reverse voltage

**Colour Coding:** -  $R = I \times R = 10^3 \pm 10\%$   
 BBROYGBVW  
 Gold - 5%  
 Silver - 10%  
 None - 20%

**Combination of Resistors:**  
 $R_{eq} = R_1 + R_2$   
 $\frac{1}{R_p} = \frac{1}{R_1} + \frac{1}{R_2}$   
**Wheatstone:** -  
 Balanced:  $\frac{R_1}{R_2} = \frac{R_3}{R_4}$   
 Unbalanced: - if  $R_1 R_4 \neq R_2 R_3$

**Symmetry:** -  
 L Mirror (I)  
 L Folding (V)  
**Ladder:** -  
 $X = 22 + 23$

**Star-Delta:** -  
 $A = \frac{BC}{B+C}$   
 $B = \frac{AC}{A+C}$   
 $C = \frac{AB}{A+B}$   
 $I = AB + BC + CA$

**Mixed Grouping:**

$E_{eq} = nE$   
 (for same E  $\rightarrow E_{eq} = E$  for parallel comb)  
 $Y_{eq} = \frac{nY}{n}$

**Cond for max current:** -  
 $R_{ext} = R_{int}$   
 $P_{max} = \frac{E^2}{4R}$

**Electrical Energy:** -  
 Battery charging  
 Discharge  $V_{chg} = V_{batt}$   
 V.I  $\rightarrow$  absorbed power

**Resistor:** -  $P = VI = I^2 R$   
 absorbed  $E = P \times t$   
**Power Rating:** -  
 $R = \frac{V^2}{P}$   
 Brightness  $\propto$  Power

**Circuit with 2 or more batteries:**  
 $R_1 = I^2 R_1$   
 $R_2 = I^2 R_2$

**Structure of Cell:**  
 Electrolyte  
 External resistor

**Power Loss in Transmission:**  
 Wires: Electric  
 $P_{loss} = VI$   
 Press in cable  $= R_c = I^2 R_c = \frac{P^2 R_c}{V^2}$   
 $R_c \propto \frac{1}{V^2}$

**Lighening in clouds:** -  
 $P \approx 10^{10} W$   
 air gets polarized  
 Ground  $E_{air} = 10^5 V/m$   
 falls due to polarization  
 In fair weather:  $E \approx 120 V/m$  due to  $\sigma$  on earth

**Series:** -  
 $E_T = E_1 + E_2$   
 $Y_T = \frac{Y_1 Y_2}{Y_1 + Y_2}$   
**Parallel:** -  
 $E_T = \frac{E_1 + E_2}{2}$   
 $Y_T = \frac{Y_1 + Y_2}{2}$

**Charging & Discharging of Capacitor:**

$q = Q_0 (1 - e^{-t/\tau})$   
 $Q_0 = C V_0$   
 $V = \frac{q}{C} (1 - e^{-t/\tau})$   
 $q = Q_0 e^{-t/\tau}$   
 $V = \frac{q}{C} e^{-t/\tau}$

**Time Constant:** -  
 $\tau = RC$   
 across capacitor  
 $R = \frac{l}{\sigma A}$   
 $C = \frac{\epsilon_0 \epsilon_r A}{d}$

**Steady state:** -  $C = 0 \rightarrow$  capacitor  
**Heat Produced:** -  $H = I^2 R t$   
**Leaky Capacitor:** -  $Z = \frac{1}{\sigma} \epsilon_r \epsilon_0$

**Electrical Instrument:** -  
 1) Meter Bridge: -  
 $R = \frac{l_1}{l_2} (100 - l_2)$   
 Errors  $\rightarrow \frac{\Delta R}{R} = \frac{\Delta l_1}{l_1} + \frac{\Delta l_2}{l_2}$   
 Min  $\Delta R$  is 10% of  $R$

2) Ammeter: -  
 $I = I_g (1 + \frac{R_g}{R_p})$   
 End correct  $\rightarrow$  add in eq. length of wire  
 3) Voltmeter: -  
 $V = I_g (G + R)$

4) Potentiometer: -  
 $E_1 = \frac{l_1}{l_2} E_2$   
 $E_1 = \frac{l_1}{l_2} E_2$   
 $K = \frac{E_2}{R_2}$

**Efficiency of Current:** -  
 $\eta = \frac{\text{Power Output}}{\text{Power Input}} \times 100$

**Sensitivity:**  $R_T (1 + \alpha \Delta T) K_1$   
 Sensitivity  $\propto R_T (1 + \alpha \Delta T) K_1$

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