

**CH3: CURRENT**

**Intro:** - Current = motion of charge  
 Scalar  $I = \frac{dq}{dt}$   
**Ohm's Law:** -  $V = IR$  Vector form:  $E = \int \frac{J}{\sigma}$   
 $R = \frac{\rho l}{A}$   
**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:  $\frac{R}{R_0} = \left(\frac{r}{r_0}\right)^{-2}$   
**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)  
 $R_f = R_0 (1 + \alpha \Delta T)$   
**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:** - Mirror (I), Folding (V)  
 Ladder C:  $X = \frac{22 + 13}{20}$

**Ladder C:**  $X = \frac{22 + 13}{20}$   
**Star-Delta:**  $A = \frac{3 \times 3}{3+3+3} = 1$   
 $I = AB + BC + CA$

**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:  $V_{chg} > V_{battery}$   
 Discharge:  $V_{chg} < V_{battery}$   
 $V.I \rightarrow$  absorbed power

**Resistor:** -  $P = VI = I^2 R$   
 absorbed  $E = P \times t$   
**Power Rating:** -  $R = \frac{V^2}{P}$   
 Brightness  $\propto$  Power  
 $P_1 = I^2 R_1$ ,  $P_2 = I^2 R_2$

**Circuit with 2 or more batteries:**  
 $R = I R_1 + I R_2$   
 for series  $\rightarrow P = I^2 R$

**Structure of Cell:**  
 EMF, Terminal Voltage  $V = E - I r$   
**Relation in  $V$  &  $E$ :**  
 Discharging of cell:  $V = E - I r$   
 Charging:  $V = E + I r$   
 Open ckt:  $V = E$   
 Short ckt:  $V = 0$   
 $I_{max} = \frac{E}{r}$

**Grouping:**  
 Series:  $E_{eq} = E_1 + E_2$   
 Parallel:  $E_{eq} = \frac{E_1 + E_2}{n}$

**Charging & Discharging of Capacitor:**

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

**Steady State:** -  $C = 0 \rightarrow$  capacitor  
**Heat Produced:** -  $H = I^2 R t$   
**Leaky Capacitor:** -  $\tau = RC$   
**Electrical Instrument:**  
 1) Meter Bridge:  $R = \frac{l_2}{l_1} R_1$   
 Errors:  $\frac{\Delta R}{R} = \frac{\Delta l_2}{l_2} + \frac{\Delta l_1}{l_1}$   
 2) Ammeter:  $I_{total} = I + I_g$   
 3) Voltmeter:  $V = I_g (G + R)$   
 4) Potentiometer:  $E_1 = \frac{l_1}{l_2} E_2$

**Power Loss in Transmission:**  
 Wires:  $P_{loss} = VI$   
 Press in cable:  $P_c = I^2 R_c = \frac{P^2 R_c}{V^2}$   
**Lighening in clouds:**  
 $P \approx 10^{10} W$   
 falls due to polarization  
 In fair weather:  $E \approx 120 V/m$   
 due to  $-ve$   $q$  on earth  
 (air  $\rightarrow$  dielectric strength  $\rightarrow 3 \times 10^6 V/m$ )

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

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**Roman Wölfel**



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