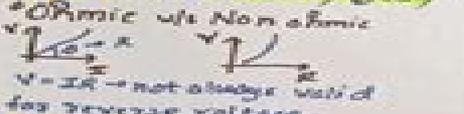


CH3: CURRENT

Intro: - Current = motion of charge
 Scalar $I = \frac{dq}{dt}$ any
Ohm's Law: - $V = IR$ Vector form: $E = \int \frac{dV}{dr}$
 $R = \frac{\rho l}{A}$ Resistivity
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:

 Metal Cond. $\alpha > 0$ (at. T) $R = R_0(1 + \alpha \Delta T)$
 Alloy (Co, Ni) $\alpha \approx 0$
 Semiconductors $\alpha < 0$ (at. T)
OPIMIC vs Non ohmic

 $V = IR$ - not always valid for reverse voltage
Colour Coding: - $R = I \times R = 10^3 \pm 10\%$
 BBROYGBVAVW
 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 C:
 $X = \frac{22 + 13}{20}$
L Star-Delta:
 $A = \frac{3 \times 3}{3+3+3} = 1$
 $B = \frac{3 \times 3}{3+3+3} = 1$
 $C = \frac{3 \times 3}{3+3+3} = 1$
 $I = AB + BC + CA$

Mixed Grouping:

 $E_{eq} = nE$
 (for same E $\rightarrow E_{eq} = E$ for parallel comb)
 $R_{eq} = \frac{nR}{n}$
Cond for max current:
 $R_{ext} = r_{int}$
 $I_{max} = \frac{E}{2R}$
Electrical Energy:
 Battery charging
 Discharge $V_{chg} = nE$
 $V_{chg} = nE - IR$
 $V.I \rightarrow$ absorbed power
Resistor: - $P = VI = I^2 R$
 absorbed $E = P \times t$
Power Rating: - $R = \frac{V^2}{P}$
 Brightness of Power
 $P_1 = \frac{V^2}{R_1}$
 $P_2 = \frac{V^2}{R_2}$
 $R_1 > R_2 \Rightarrow P_1 < P_2$
Circuit with 2 or more cells:

Structure of Cell:
 Local circuit
 External resistor

Kirchoff's Laws:
KCL: - $\sum I_{in} = \sum I_{out}$
 Conservation of charge
KVL: - $\sum V = 0$
 Conservation of energy
Re using KVL: - 1) Connect battery
 2) Draw current (i, i', i'') and distribute using KCL
 3) Take loop \rightarrow KVL \rightarrow Take a loop including battery + all min-resistor $\rightarrow V = I R_{eq}$
Re of same circuit: - (Each resistor)
 L 1) Busy diagonal $R_{eq} = 5R$
 L 2) Face diagonal $R_{eq} = 3R$
 L 3) Same Edge $R_{eq} = 2R$
Loop of Identical Batteries:

Cell:
 $E = \frac{W}{q}$
 Terminal Voltage $V = E - ir$
Relation in V & E:
 Discharging of cell: $V = E - ir$
 Charging: $V = E + ir$
 Open ckt: $V = E$
 Short ckt: $V = 0$
 $I_{max} = \frac{E}{r}$
Grouping:
 L Series: $E_{eq} = E_1 + E_2$
 L Parallel: $E_{eq} = \frac{E_1 + E_2}{2}$

Charging & Discharging of Capacitor:
 $q = Q(1 - e^{-t/\tau})$
 $i = \frac{dq}{dt} = \frac{Q}{\tau} e^{-t/\tau}$
 $V = \frac{q}{C} = \frac{Q}{C} (1 - e^{-t/\tau})$
Time Constant: $\tau = RC$
 across capacitor
Steady state: - $C = 0 \rightarrow$ capacitor
Heat Produced: - $H = I^2 R t$
Leaky Capacitor: - $\tau = RC$
Electrical Instrument:
 L 1) Meter Bridge: $R = \frac{l_1}{l_2} R_2$
 Errors in $\frac{l_1}{l_2} = \frac{\Delta l_1}{l_1} + \frac{\Delta l_2}{l_2} + \frac{\Delta R_2}{R_2}$
 End correct \rightarrow add in eq. length of wire
 L 2) Ammeter: $I = I_0 \frac{R_m}{R_m + R}$
 L 3) Voltmeter: $V = I_0 (G + R)$
 L 4) Potentiometer: $\frac{E_1}{E_2} = \frac{l_1}{l_2}$
 $E = E_0 - E_{loss}$
 $K = \frac{E_{loss}}{E_0}$
Power Loss in Transmission:
 Wires: Electric
 $P_{loss} = VI$
 Press in cable: $P_c = I^2 R_c = \frac{P^2 R_c}{V^2}$
Lighening in clouds:
 $P \approx 10^{10} W$
 air gets polarized
 Ground $E_{air} = 10^5 V/m$
 falls due to polarization
 In fair weather: $E = 120 V/m$
 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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