

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: $\frac{R}{R_0} = \left(\frac{r_0}{r}\right)^4$
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: $V_{chg} < V_{battery}$
Resistor: - $P = VI = I^2 R$
 absorbed $E = P t$

Power Rating: - $R = \frac{V^2}{P}$
 Brightness of Power
 $P = I^2 R$
 for series $\rightarrow P \propto R$

Circuit with 2 or more batteries:
 $V = E_1 + E_2$
 $R_{eq} = R_1 + R_2$

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: $R = \frac{l_2}{l_1} R_2$
 Errors: $\frac{\Delta R}{R} = \frac{\Delta l_2}{l_2} + \frac{\Delta R_2}{R_2}$
 End correct: add in eq. length of wire.

2) Ammeter: $I = \frac{V}{R}$
 Voltmeter: $V = I_g (G + R)$
 Potentiometer: $E_1 = \frac{l_1}{l_2} E_2$

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

Lightening in clouds:
 air gets polarized
 Ground $E_{air} = 10^5 V/m$
 falls due to polarization
 In fair weather: $E = 120 V/m$ due to $-q$ on earth

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

Efficiency of Current:
 $\eta = \frac{\text{Power Output}}{\text{Power Input}} \times 100$
 Sensitivity: $RT(1/T) \times K$

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Arshad Iqbal



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