

CH3: CURRENT

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

Thermal Effect on R:
 $R_T = R_0 (1 + \alpha \Delta T)$
 Metal Cond. $\alpha > 0$
 Semiconductors $\alpha < 0$
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/discharging
 Discharge: $V_{dg} = \text{on battery}$
 $V \cdot I \rightarrow \text{absorbed power}$
 Resistor: $P = VI = I^2 R$
 absorbed $E = P \cdot t$

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 cells:
 Structure of 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: - Series: $E_{eq} = E_1 + E_2$
 Parallel: $E_{eq} = \frac{E_1 + E_2}{n}$

Charging & Discharging of Capacitor:

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

Steady State: - $C = 0 \rightarrow \text{capacitor}$
Heat Produced: - $H = I^2 R t$
Leaky Capacitor: - $\tau = RC$

Electrical Instrument: - Meter Bridge: $R = \frac{l_2}{l_1} R_1$
 Errors: $\frac{\Delta R}{R} = \frac{\Delta l_2}{l_2} + \frac{\Delta l_1}{l_1}$
Ammeter: - $I_g = (I - I_g) \times S$
Voltmeter: - $V = I_g (G + R)$

Potentiometer: - $E_1 = \frac{l_1}{l_2} E_2$
 Sensitivity: $\propto RT(I + i) R_1$

Power Loss in Transmission: - Wires: $P_{loss} = VI$
 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: - $P \approx 10^{10} W$
 falls due to polarization
 In fair weather: $E \approx 120 V/m$

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

(air \rightarrow dielectric strength $\rightarrow 3 \times 10^6 V/m$)

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Yi-Tong Ma



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The Top Books of the Year A Levels Physics Notes Pdf The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. A Levels Physics Notes Pdf : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Camera (Backup Camera) ... TYPE: Digital TFT-LCD Color Monitor. RESOLUTION: 320x240.