

Quiz 2: Electric Circuits DL 3,4,5 FNT 3,4

charges flow in an electric circuit \rightarrow Current, $I = \frac{\text{amount of charge}}{\text{time}}$ (see flow rate in a fluid system)



I = current = same/constant

$$I_{in} = I_{out}$$

$$\left(\Delta P = \frac{\Delta PE}{V_0} + \frac{\Delta PE}{V_H} \right) = \frac{I_{\text{pump}}}{V_0} - IR$$

$$\Delta(\text{Total Head}) = \frac{I_{\text{pump}}}{V_0} - IR$$

Ohm's Law

current I (A = amperes) = flow rate of electric charge = $\frac{\text{charge}}{\text{time}}$

voltage V (V = volts) = electric pressure (electric potential difference) = $\frac{\text{electric energy}}{\text{charge}}$

resistance R (Ω = ohms) = "friction/dissipation" of a resistor

charge q/Q (C = coulombs): $q_e = 1.6 \times 10^{-19} \text{ C}$

Emf \mathcal{E} (V = volts) = electromotive force; electric potential of battery = $\frac{\text{(pump) energy of battery}}{\text{charge}}$

$$\Delta P = \frac{E_{\text{pump}}}{V_0} - IR$$

\downarrow \downarrow \downarrow

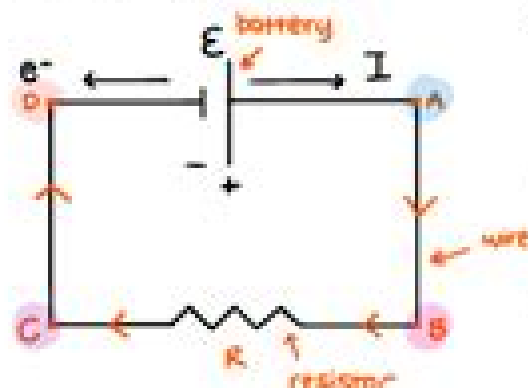
$$\Delta V = \mathcal{E} - IR$$

(Ohm's Law)

Simple Circuits

current (I) flows: $+$ \rightarrow $-$ terminal of the battery (opp. of e^-)

current



Voltage is **gained** through battery

$$\Delta V_{\text{battery}} = V_A - V_D = \mathcal{E} > 0$$

Voltage is **lost** through resistors

$$\Delta V_R = V_C - V_B = IR < 0 \text{ (voltage drop)}$$

no change through a wire

$$\Delta V = V_B - V_A = 0$$

Circuit symbols:

———— wire (I)

—|— battery (\mathcal{E})

—— resistor (R)

—— light bulb (R)

—— switch

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WJ Hussar



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Table of Contents Physics Current And Circuits Study Guide Answers

1. Understanding the eBook Physics Current And Circuits Study Guide Answers
 - The Rise of Digital Reading Physics Current And Circuits Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Current And Circuits Study Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physics Current And Circuits Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Current And Circuits Study Guide Answers
 - Personalized Recommendations
 - Physics Current And Circuits Study Guide Answers User Reviews and Ratings
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 7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Physics Current And Circuits Study Guide Answers
 - Interactive Elements Physics Current And Circuits Study Guide Answers
 8. Staying Engaged with Physics Current And Circuits Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Current And Circuits Study Guide Answers
 9. Balancing eBooks and Physical Books Physics Current And Circuits Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Current And Circuits Study Guide Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physics Current And Circuits Study Guide Answers
 - Setting Reading Goals Physics Current And Circuits Study Guide Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physics Current And Circuits Study Guide Answers
 - Fact-Checking eBook Content of Physics Current And Circuits Study Guide Answers
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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