

## 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  $R$  ( $\Omega$  = 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 =  $\frac{\text{(pump) energy of battery}}{\text{charge}}$

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

↓                      ↓                      ↓

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

(Ohm's Law)

## Simple Circuits

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

current



Voltage is **gained** through battery

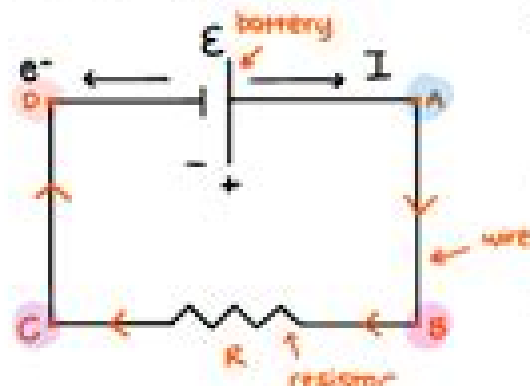
$$\Delta V_{\text{battery}} = V_A - V_D = \mathcal{E} > 0$$

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 ( $I$ )

—  $\mathcal{E}$  — battery ( $\mathcal{E}$ )

—  $R$  — resistor ( $R$ )

—  $\text{light bulb}$  ( $R$ )

—  $\text{switch}$

# Physics Current And Circuits Study Guide Answers

**RJ Shavelson**



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Questions Chapter 28 Rotational Motion Questions Chapter 29 Second Law of Thermodynamics Questions Chapter 30 Simple Harmonic Motion Questions Chapter 31 Special Relativity Questions Chapter 32 Straight Line Motion Questions Chapter 33 Transverse Waves Questions Chapter 34 Two and Three Dimensional Motion Questions Chapter 35 Vector Quantities Questions Chapter 36 Work Kinetic Energy Theorem Questions The Alternating Fields and Currents Quiz Questions PDF e Book Chapter 1 interview questions and answers on Alternating current damped oscillations in an RLS circuit electrical mechanical analog forced and free oscillations LC oscillations phase relations for alternating currents and voltages power in alternating current circuits transformers The Astronomical Data Quiz Questions PDF e Book Chapter 2 interview questions and answers on Aphelion distance from earth eccentricity of orbit equatorial diameter of planets escape velocity of planets gravitational acceleration of planets inclination of orbit to earth s orbit inclination of planet axis to orbit mean distance from sun to planets moons of planets orbital speed of planets perihelion period of rotation of planets planet densities planets masses sun earth and moon The Capacitors and Capacitance Quiz Questions PDF e Book Chapter 3 interview questions and answers on Capacitor in parallel and in series capacitor with dielectric charging a capacitor cylindrical capacitor parallel plate capacitor The Circuit Theory Quiz Questions PDF e Book Chapter 4 interview questions and answers on Loop and junction rule power series and parallel resistances single loop circuits work energy and EMF The Conservation of Energy Quiz Questions PDF e Book Chapter 5 interview questions and answers on Center of mass and momentum collision and impulse collisions in one dimension conservation of linear momentum conservation of mechanical energy linear momentum and Newton s second law momentum and kinetic energy in collisions Newton s second law for a system of particles path independence of conservative forces work and potential energy The Coulomb s Law Quiz Questions PDF e Book Chapter 6 interview questions and answers on Charge is conserved charge is quantized conductors and insulators and electric charge The Current Produced Magnetic Field Quiz Questions PDF e Book Chapter 7 interview questions and answers on Ampere s law and law of Biot Savart The Electric Potential Energy Quiz Questions PDF e Book Chapter 8 interview questions and answers on Introduction to electric potential energy electric potential and equipotential surfaces The Equilibrium Indeterminate Structures Quiz Questions PDF e Book Chapter 9 interview questions and answers on Center of gravity density of selected materials of engineering interest elasticity equilibrium indeterminate structures ultimate and yield strength of selected materials of engineering interest and Young s modulus of selected materials of engineering interest The Finding Electric Field Quiz Questions PDF e Book Chapter 10 interview questions and answers on Electric field electric field due to continuous charge distribution electric field lines flux and Gauss law The First Law of Thermodynamics Quiz Questions PDF e Book Chapter 11 interview questions and answers on Absorption of heat by solids and liquids Celsius and Fahrenheit scales coefficients of thermal expansion first law of thermodynamics heat of fusion of common substances heat of transformation heat of vaporization of common substances introduction to thermodynamics molar specific heat substance specific heat in

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    - Chapter 4: Physics Current And Circuits Study Guide Answers in Specific Contexts
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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
  - Physics Current And Circuits Study Guide Answers and Bestseller Lists
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  - Physics Current And Circuits Study Guide Answers eBook Subscription Services
  - Physics Current And Circuits Study Guide Answers Budget-Friendly Options
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  - ePub, PDF, MOBI, and More
  - Physics Current And Circuits Study Guide Answers Compatibility with Devices
  - Physics Current And Circuits Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physics Current And Circuits Study Guide Answers
  - 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
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  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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