

Question: 9

(a) Name and state the law which relates the potential difference and current in a conductor.

(b) What is the necessary condition for a conductor to obey the law named above in part (a)?

Solution:

(a) The law is known as Ohm's law. This law states that the current flowing through the conductor is directly proportional to the potential difference across its ends provided that the physical conditions and the temperature of the conductor remain constant.

(b) The necessary condition for a conductor to obey Ohm's law is that the temperature should remain constant.

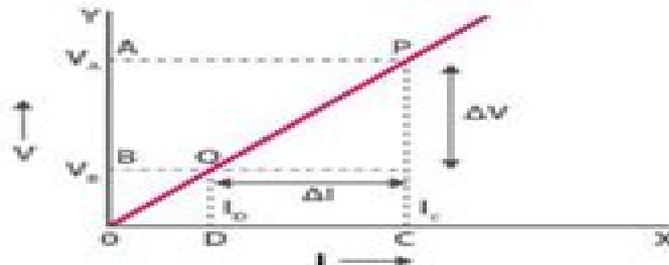
Question: 10

(a) Draw a V-I graph for a conductor obeying Ohm's law.

(b) What does the slope of V-I graph for a conductor represent?

Solution:

(a) V-I graph for a conductor obeying Ohm's law is given below



(b) Slope of V-I graph for a conductor represents resistance.

Chapter 8 Physics Answers

Douglas Brandt



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Table of Contents Chapter 8 Physics Answers

1. Understanding the eBook Chapter 8 Physics Answers
 - The Rise of Digital Reading Chapter 8 Physics Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 8 Physics 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 Chapter 8 Physics Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 8 Physics Answers
 - Personalized Recommendations
 - Chapter 8 Physics Answers User Reviews and Ratings
 - Chapter 8 Physics Answers and Bestseller Lists
5. Accessing Chapter 8 Physics Answers Free and Paid eBooks

- Chapter 8 Physics Answers Public Domain eBooks
 - Chapter 8 Physics Answers eBook Subscription Services
 - Chapter 8 Physics Answers Budget-Friendly Options
6. Navigating Chapter 8 Physics Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 8 Physics Answers Compatibility with Devices
 - Chapter 8 Physics Answers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 8 Physics Answers
 - Highlighting and Note-Taking Chapter 8 Physics Answers
 - Interactive Elements Chapter 8 Physics Answers
 8. Staying Engaged with Chapter 8 Physics Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 8 Physics Answers
 9. Balancing eBooks and Physical Books Chapter 8 Physics Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 8 Physics Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Chapter 8 Physics Answers
 - Setting Reading Goals Chapter 8 Physics Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Chapter 8 Physics Answers
 - Fact-Checking eBook Content of Chapter 8 Physics 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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