

## Chapter 20 Electricity

## Section 20.1 Electric Charge and Static Electricity

(pages 600–603)

*This section explains how electric charge is created and how positive and negative charges affect each other. It also discusses the different ways that electric charge can be transferred.*

### Reading Strategy (page 600)

**Identifying Main Ideas** Copy the table on a separate sheet of paper. As you read, write the main ideas. For more information on this Reading Strategy, see the Reading and Study Skills in the Skills and Reference Handbook at the end of your textbook.

Characteristics of Electric Charge	
Topic	Main Idea
Electric Charge	An excess or shortage of electrons produces a net electric charge.
Electric Forces	Like charges repel and opposite charges attract.
Electric Fields	The strength of a field depends on the net charge and distance from the charge.
Static Electricity	Charge can be transferred by friction, contact, and induction.

### Electric Charge (pages 600–601)

- What are the two types of electric charge?  
a. Positive                      b. Negative
- Is the following sentence true or false? In an atom, negatively charged electrons surround a positively charged nucleus.  
true
- Is the following sentence true or false? If a neutral atom gains one or more electrons, it becomes a positively charged ion.  
false
- What is the SI unit of electric charge? The coulomb

### Electric Forces (page 601)

- Circle the letter of each sentence that is true about electric force.
  - Like charges attract and opposite charges repel.
  - ☒ Electric force is the attraction or repulsion between electrically charged objects.
  - Electric force is inversely proportional to the amount of charge.
  - ☒ Electric force is inversely proportional to the square of the distance between two charges.

# Section 20 Electric Charge And Static Electricity Answers

**Thomas Bond,Chris Hughes**



## **Section 20 Electric Charge And Static Electricity Answers:**

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## **Table of Contents Section 20 Electric Charge And Static Electricity Answers**

1. Understanding the eBook Section 20 Electric Charge And Static Electricity Answers
  - The Rise of Digital Reading Section 20 Electric Charge And Static Electricity Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Section 20 Electric Charge And Static Electricity 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 Section 20 Electric Charge And Static Electricity Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Section 20 Electric Charge And Static Electricity Answers
  - Personalized Recommendations
  - Section 20 Electric Charge And Static Electricity Answers User Reviews and Ratings
  - Section 20 Electric Charge And Static Electricity Answers and Bestseller Lists
5. Accessing Section 20 Electric Charge And Static Electricity Answers Free and Paid eBooks
  - Section 20 Electric Charge And Static Electricity Answers Public Domain eBooks
  - Section 20 Electric Charge And Static Electricity Answers eBook Subscription Services
  - Section 20 Electric Charge And Static Electricity Answers Budget-Friendly Options
6. Navigating Section 20 Electric Charge And Static Electricity Answers eBook Formats

- ePub, PDF, MOBI, and More
- Section 20 Electric Charge And Static Electricity Answers Compatibility with Devices
- Section 20 Electric Charge And Static Electricity Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Section 20 Electric Charge And Static Electricity Answers
  - Highlighting and Note-Taking Section 20 Electric Charge And Static Electricity Answers
  - Interactive Elements Section 20 Electric Charge And Static Electricity Answers
- 8. Staying Engaged with Section 20 Electric Charge And Static Electricity Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Section 20 Electric Charge And Static Electricity Answers
- 9. Balancing eBooks and Physical Books Section 20 Electric Charge And Static Electricity Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Section 20 Electric Charge And Static Electricity Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Section 20 Electric Charge And Static Electricity Answers
  - Setting Reading Goals Section 20 Electric Charge And Static Electricity Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Section 20 Electric Charge And Static Electricity Answers
  - Fact-Checking eBook Content of Section 20 Electric Charge And Static Electricity 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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