

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.

20 1 Electric Charge And Static Electricity Answers

Arshad Iqbal



20 1 Electric Charge And Static Electricity Answers:

Understanding DC Circuits Dale Patrick, Stephen W. Fardo, 1999-11-30 *Understanding DC Circuits* covers the first half of a basic electronic circuits theory course integrating theory and laboratory practice into a single text. Several key features in each unit make this an excellent teaching tool: objectives, key terms, self tests, lab experiments, and a unit exam. *Understanding DC Circuits* is designed with the electronics beginner and student in mind. The authors use a practical approach, exposing the reader to the systems that are built with DC circuits, making it easy for beginners to master even complex concepts in electronics while gradually building their knowledge base of both theory and applications. Each chapter includes easy-to-read text accompanied by clear and concise graphics fully explaining each concept before moving onto the next. The authors have provided section quizzes and chapter tests so the readers can monitor their progress and review any sections before moving onto the next chapter. Each chapter also includes several electronics experiments allowing the reader to build small circuits and low-cost projects for the added bonus of hands-on experience in DC electronics. *Understanding DC Circuits* fully covers dozens of topics including energy and matter, static electricity, electrical current, conductors, insulators, voltage, resistance, schematic diagrams, and symbols, wiring diagrams, block diagrams, batteries, tools, and equipment, test and measurement, series circuits, parallel circuits, magnetism, electromagnetism, inductance, capacitance, soldering techniques, circuit troubleshooting, basic electrical safety, plus much more. Integrates theory and lab experiments. Contains course and learning objectives and self-quizzes. Heavily illustrated.

Physics Extension File Jim Breithaupt, 2002 This physics extension file includes teaching notes, guidance on coursework activities, and equipment. It has at least one assignment for each topic in the textbooks, suitable for classwork and homework. A comprehensive range of practical activities are included. It contains extensive Key Skills and ICT materials. An exam file resource containing a complete set of exam-style questions in a format that can be used throughout Years 10 and 11 or as a resource for a revision programme is included.

Oral Medicine and Radiology Question-Answer Mr. Rohit Manglik, 2024-07-30 This book uses a question and answer format to simplify the study of oral medicine and radiology, providing clear explanations and exam-focused content for dental students.

Basic Electronics & Communication Engineering: Electronics & Communication Short Questions and Answers Yashwant Kumar Parte, 2022-08-25 The book *Basics of Electronics and Communication Engineering Short Question and Answers* is written to cater the needs of students for review purpose at the Engineering or polytechnic level of Electronics and Communication Telecommunication Engineering streams. The basic principles of the book are learning and motivation. Easy explanation of practice problems and short answer type review questions are the principal features of this book.

Science Explorer Physical Science Michael J. Padilla, Ioannis Miaculis, Martha Cyr,

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