



Section 1 Electric Charge

Underlined words and phrases are to be filled in by students on the Note-taking Worksheet.

- A. Protons have positive electric charge; electrons have negative electric charge.
1. In most atoms, the charges of the protons and electrons cancel each other out and the atom has no net charge.
 2. Atoms become charged by gaining or losing electrons.
 3. **Static electricity**—the accumulation of excess electric charges on an object
- B. Electrically charged objects obey the following rules:
1. **Law of conservation of charge**—charge may be transferred from object to object, but it cannot be created or destroyed
 2. Opposite charges attract, and like charges repel.
 3. Charges can act on each other even at a distance, because any charge that is placed in an electric field will be pushed or pulled by the field.
 4. Electrons move more easily through **conductors**, like metals.
 5. Electrons do not move easily through **insulators**, such as plastic, wood, rubber, and glass.
- C. Transferring electric charge
1. Charging by contact
 - a. The process of transferring charge by touching or rubbing
 - b. Example: static electricity from your feet rubbing the carpet
 2. Charging by induction
 - a. The rearrangement of electrons on a neutral object caused by a nearby charged object
 - b. Example: a negatively charged balloon near your sleeve causes an area of your sleeve to become positively charged
 3. Static discharge
 - a. A transfer of charge through the air between two objects because of a buildup of static electricity
 - b. Example: lightning
 4. **Grounding**—using a conductor to direct an electric charge into the ground
- D. The presence of electric charges can be detected by an electroscope.

DISCUSSION QUESTION:

What do you think happens when you get static electricity in your hair? *Usually this happens after your hair rubs against something like a sweater or a hairbrush. Some electrons from your hair move to the sweater or hairbrush, causing the sweater or hairbrush to have a negative charge, and your hair to have a positive charge. Your hair will be attracted to the sweater or hairbrush. Strands of hair that are positively charged also might repel one another and lift straight up in the air.*

Physical Science Chapter 7 Directed Reading Electricity Answers

Michael Hoelscher



Physical Science Chapter 7 Directed Reading Electricity Answers:

Focus on physical science Charles H. Heimler, 1989 **Science Explorer Physical Science** Michael J. Padilla, Ioannis Miaculis, Martha Cyr, **Addison-Wesley Introduction to Physical Science** Michael B. Leyden, 1988 *PRINCIPLES OF PHYSICS* P. V. NAIK, 2012-06-12 This well received book now in its fifth edition presents the subject matter in a pedagogically sound manner with focus on teaching problem solving The specific needs of these students have influenced the selection of topics for inclusion in the book The book provides students with a solid understanding of the fundamental concepts with due emphasis on developing skills to solve exercise problems aimed at both testing and extending the knowledge of the students Divided into 23 chapters the book comprises topics on four major areas mechanics optics electricity and electronics and modern physics including quantum mechanics and lasers In this fifth edition two new chapters on Acoustics and Heat and Thermodynamics are incorporated to widen the coverage and enhance the usefulness of this text This book is intended for the undergraduate students of physics as well as for the first year engineering students of several disciplines **The Electrical World and Engineer** ,1901 *Electrical World* ,1887 The Science of Energy Crosbie Smith, 1998 Although we take it for granted today the concept of energy transformed nineteenth century physics In The Science of Energy Crosbie Smith shows how a North British group of scientists and engineers including James Joule James Clerk Maxwell William and James Thomson Fleeming Jenkin and P G Tait developed energy physics to solve practical problems encountered by Scottish shipbuilders and marine engineers to counter biblical revivalism and evolutionary materialism and to rapidly enhance their own scientific credibility Replacing the language and concepts of classical mechanics with terms such as actual and potential energy the North British group conducted their revolution in physics so astutely and vigorously that the concept of energy a valuable commodity in the early days of industrialization became their intellectual property Smith skillfully places this revolution in its scientific and cultural context exploring the actual creation of scientific knowledge during one of the most significant episodes in the history of physics *A Text-book of Physics for the Use of Students of Science and Engineering* John Duncan, Sydney George Starling, 1920 **The Journal of Education** ,1901 Current literature of the month ,1923

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