



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

RD Boyd



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Science Explorer Physical Science Michael J. Padilla, Ioannis Miaculis, Martha Cyr, **Focus on physical science** Charles H. Heimler, 1989 **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 **Addison-Wesley Introduction to Physical Science** Michael B. Leyden, 1988 **A Text-book of Physics for the Use of Students of Science and Engineering** John Duncan, Sydney George Starling, 1920 Gas World, 1908 **The Electrical Journal**, 1879 *Electrical Experimenter*, 1920 *Popular Science*, 1947-11 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **Atlanta Magazine**, 2005-01 Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region **Oswaal CBSE LMP Last Minute Preparation System Class 12 Science Stream (Physics, Chemistry, Mathematics, Biology & English Core) With board Additional Practice questions For 2024 Board Exams #WinTheBoards** Oswaal Editorial Board, 2023-11-27 Description of the product Revision Notes to fill learning gaps Mind Maps Mnemonics for crisp recall Concept Videos for Visual Learnings Board Additional Practice Papers 1 2 for Exam Practice **Circuit Analysis** J E Whitehouse, John E. Whitehouse, 1997-12-30 The author carefully points out the logical thread of the subject of Circuit Analysis in this text for electronic and electrical engineering students He makes clear that the theory is not as ad hoc as it would at first appear **Longman Active Science 7** Narayanan Vidhu, 2009-09 **Resources**

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web may 22 2023 this paper describes the design as well as development of pico hydropower which offers a cost effective reliable and efficient alternative power source and handy at remote locations static and flow analyses are validated and related to the findings presented in this paper