

Electricity & Magnets

Study Guide & Review Worksheets

Name _____

Electricity and Magnets

1. What are 3 examples of conductors?
2. What are 3 examples of insulators?
3. Julius is an electrician. Why does he use a light switch?
4. What happens to the flow of electricity in an open circuit?
5. Amy rubs a balloon on her head. Her hair is attracted to the balloon. What causes Amy's hair to be attracted to the balloon?

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Electricity & Magnets

Terms to Know

- **Conductor**, Materials that allow electricity to easily flow through them.
- **Insulator**, Materials that do not allow electricity to flow easily through them.
- **Open Circuit**, A circuit that does not allow a continuous flow of electricity.
- **Closed Circuit**, A complete circuit that allows electricity to flow.
- **Electrical Energy**, Energy produced by the movement of charged particles.

Conductors

Conductors are materials which allow electricity to easily flow through them.



gold



copper



iron

Insulators

Insulators are materials that do not allow electricity to flow easily through them.



rubber



wood



plastic

Simple Circuit

A simple circuit consists of a bulb, battery, and wire.

Open Circuit



In an open circuit, there is an opening in the path. The opening stops the flow of the electrical current.

Closed Circuit



In a closed circuit, the path is complete. The completed path allows the electrical current to continuously flow.

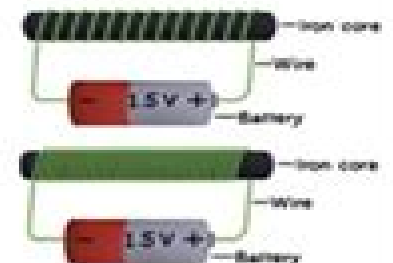
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Electricity

Electricity is the flow of charged particles or when coming out of the ground, it is called lightning.



magnets



Example: The bottom magnet has more strength because it has more coils.

Energy Transformations

Energy can be transformed into other forms of energy.

Electrical to Mechanical



fan

Electrical to Thermal



toaster

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Atampt Basic Electricity Study Guide

Rachel Sandford



Atampt Basic Electricity Study Guide:

Basic Electricity & Practical Wiring Thomas Hoerner, 2007-05-15 This manual covers circuits measuring electric power and costs switching grounding for safety wire and current protection transmission and distribution of electricity and the service entrance Considerable emphasis on safety including the use of the GFCI Each unit includes practical wiring exercises explaining the topics covered along with the proper use of electrical tools Basic Electrical Engineering | AICTE Prescribed Textbook (English) S.K. Sahdev, 2021-08-27 This textbook Basic Electrical Engineering is based on the latest syllabus of the Universities AICTE and Educational Institutes In this edition some material of the book has been rewritten to make the presentation easily comprehensible More illustrative examples mainly from IAS IES and GATE and other competitive examinations have been added Various problems with answers have been added to support the text For quick revision summary highlights are given at the end of each chapter Salient Features DC Circuits AC Circuits Transformers Electrical Machines Power converters Electrical Installations Basic Electrical and Electronics Engineering Ramana Pilla, Gulivindala Suresh & Venkata Lalitha Narla, This book is designed based on the revised Syllabus R23 of JNTU for the undergraduate B Tech BE Students of all branches who study Basic Electrical and Electronics Engineering The book establishes a firm understanding of the basic laws of electric circuits electrical machines measuring instruments energy resources electricity bill safety measures semiconductor devices basic electronic circuits and digital electronics The book also describes various waveforms including sinusoidal and other periodic for evaluation of RMS value average value form factor and peak factor principle of operation construction details performance equations and applications of DC machine principle of operation and construction details of moving iron instruments moving coil instruments energy meter cathode ray oscilloscope properties of semiconductor materials principle of operation of PN junction diode principle of operation of bipolar junction transistor transistor types and their configurations various number systems BCD Excess 3 Gray codes and their conversions Boolean algebra etc The contents of this book are presented in a simple way for easy understanding of students and can be used as self study material *Basic Electrical and Electronics Engineering-I (For ASTU Assam)* Bandyopadhyay, Jyoti Prasad, Books in this series have been specially designed to meet the requirements of a large spectrum of engineering students of ASTU those who find learning concepts difficult and want to study through solved examples and those who wish to study the traditional way A large number of solved examples are the backbone of this series and are aimed at instilling confidence in the students to take on the examinations Basic Electrical and Electronics Engineering I has been specially designed to serve as a textbook for an introductory course on basic electrical and electronics engineering It meets the requirements of a large spectrum of 1st semester undergraduate students of all branches of engineering The book has been developed with an eye on the interpretation of concepts and application of theories The language has been kept very simple so that students are able to assimilate the subject matter with ease A large number of solved examples have also been

provided for self assessment Key Features Complete coverage of all the modules of the syllabi of ASTU and also useful for GATE and other graduate level exams Comprehensive and lucid presentation of the basic concepts Over 200 worked out examples including conceptual guidelines Over 380 multiple choice questions with answers A large number of short questions and answers **Basic Electricity** Rufus P. Turner,1963 **Electronics for Engineering Technology** Glade Wilcox,1969 Automotive Electrical and Electronic Systems with Shop Manual Frank C. Derato,1994 Part of the Basic Automotive Series Automotive Electrical and Electronic Systems can be used in any introductory course in automotive electronics and electricity The text opens with up to date coverage of electricity magnetism and semi conductors Topics that follow include starting systems lighting systems power accessories and the latest electronic systems including speed controls and new to this edition automotive micro computers Also new to this text are ignition and passive restraint systems The accompanying shop manual provides detailed coverage of specific repairs and service techniques using step by step procedures The text and its correlated shop manual help prepare students for Automotive Service Excellence ASE certification it also provides end of chapter questions that use a format similar to the ASE tests The contents of both volumes are based on the competencies and standards set by the National Institute for Automotive Service Excellence

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