

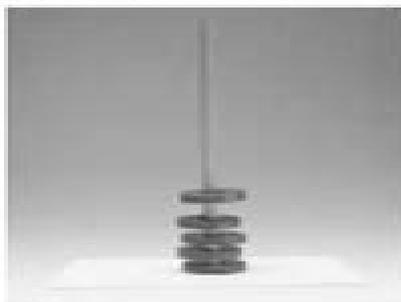
Practice Problems

24.1 Magnets: Permanent and Temporary

pages 643–651

page 647

- If you hold a bar magnet in each hand and bring your hands close together, will the force be attractive or repulsive if the magnets are held in the following ways?
 - the two north poles are brought close together
repulsive
 - a north pole and a south pole are brought together
attractive
- Figure 24-7 shows five disk magnets floating above each other. The north pole of the top-most disk faces up. Which poles are on the top side of each of the other magnets?



■ Figure 24-7

south, north, south, north

- A magnet attracts a nail, which, in turn, attracts many small tacks, as shown in Figure 24-3 on page 645. If the north pole of the permanent magnet is the left end, as shown, which end of the nail is the south pole?
the bottom (the point)

- Why do magnetic compasses sometimes give false readings?
because Earth's magnetic field is distorted by objects made of iron, nickel, or cobalt in the vicinity of the compass, and by ore deposits of these same metals

page 650

- A long, straight, current-carrying wire runs from north to south.
 - A compass needle placed above the wire points with its north pole toward the east. In what direction is the current flowing?
from south to north
 - If a compass is put underneath the wire, in which direction will the compass needle point?
west
- How does the strength of a magnetic field, 1 cm from a current-carrying wire, compare with each of the following?
 - the strength of the field that is 2 cm from the wire
Because magnetic field strength varies inversely with the distance from the wire, the magnetic field at 1 cm will be twice as strong as the magnetic field at 2 cm.
 - the strength of the field that is 3 cm from the wire
Because magnetic field strength varies inversely with the distance from the wire, the magnetic field at 1 cm will be three times as strong as the magnetic field at 3 cm.

Physics Principles Problems Solutions Manual Chapter 24

Aristoteles



Physics Principles Problems Solutions Manual Chapter 24:

Student Solutions Manual and Study Guide for Serway and Jewett's Physics for Scientists and Engineers, Sixth Edition

John R. Gordon, Ralph V. McGrew, Raymond A. Serway, 2004 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions *Physics* John D. Cutnell, Kenneth W. Johnson, David Young, Shane Stadler, 2021-10-12 Physics 12th Edition focuses on conceptual understanding problem solving and providing real world applications and relevance Conceptual examples Concepts and Calculations problems and Check Your Understanding questions help students understand physics principles Math Skills boxes multi concept problems and Examples with reasoning steps help students improve their reasoning skills while solving problems The Physics Of boxes and new Physics in Biology Sports and Medicine problems show students how physics principles are relevant to their everyday lives A wide array of tools help students navigate through this course and keep them engaged by encouraging active learning Animated pre lecture videos created and narrated by the authors explain the basic concepts and learning objectives of each section Problem solving strategies are discussed and common misconceptions and potential pitfalls are addressed Chalkboard videos demonstrate step by step practical solutions to typical homework problems Finally tutorials that implement a step by step approach are also offered allowing students to develop their problem solving skills *Study Guide, Student Solutions Manual* John R. Gordon, 1998 Physics, Volume 2 John D. Cutnell, Kenneth W. Johnson, David Young, Shane Stadler, 2021-10-05 In the newly revised Twelfth Edition of Physics Volume 2 an accomplished team of physicists and educators delivers an accessible and rigorous approach to the skills students need to succeed in physics education Readers will learn to understand foundational physics concepts solve common physics problems and see real world applications of the included concepts to assist in retention and learning The text includes Check Your Understanding questions Math Skills boxes multi concept problems and worked examples The second volume of a two volume set Volume 2 explores ideas and concepts like the reflection refraction and wave particle duality of light Throughout students knowledge is tested with concept and calculation problems and team exercises that focus on cooperation and learning **Study Guide and Student Solutions Manual** Douglas Brandt, 2000 Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the reader into the physics The new edition features an unrivaled suite of media and on line resources that enhance the understanding of physics Many new topics have been incorporated such as the Otto cycle lens combinations three phase alternating current and many more New developments and discoveries in physics have been added including the Hubble space telescope age and inflation of the universe and distant planets Modern physics topics are often discussed within the framework of classical physics where appropriate For scientists and engineers who are interested in learning physics **Physics for Global Scientists and**

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