

## Practice Problems

17.1 Reflection from Plane Mirrors  
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1. Explain why the reflection of light off ground glass changes from diffuse to specular if you spill water on it.  
Water fills in the rough areas and makes the surface smoother.
2. If the angle of incidence of a ray of light is  $42^\circ$ , what is each of the following?
  - a. the angle of reflection  
 $\theta_r = \theta_i = 42^\circ$
  - b. the angle the incident ray makes with the mirror  
 $\theta_{i, \text{mirror}} = 90^\circ - \theta_i = 90^\circ - 42^\circ = 48^\circ$
  - c. the angle between the incident ray and the reflected ray  
 $\theta_i + \theta_r = 2\theta_i = 84^\circ$
3. If a light ray reflects off a plane mirror at an angle of  $35^\circ$  to the normal, what was the angle of incidence of the ray?  
 $\theta_i = \theta_r = 35^\circ$
4. Light from a laser strikes a plane mirror at an angle of  $38^\circ$  to the normal. If the laser is moved so that the angle of incidence increases by  $13^\circ$ , what is the new angle of reflection?
 
$$\begin{aligned}\theta_i &= \theta_{i, \text{initial}} + 13^\circ \\ &= 38^\circ + 13^\circ = 51^\circ \\ \theta_r &= \theta_i = 51^\circ\end{aligned}$$
5. Two plane mirrors are positioned at right angles to one another. A ray of light strikes one mirror at an angle of  $30^\circ$  to the normal. It then reflects toward the second mirror. What is the angle of reflection of the light ray off the second mirror?

$$\begin{aligned}\theta_{r1} &= \theta_{i1} = 30^\circ \\ \theta_{i2} &= 90^\circ - \theta_{r1} \\ &= 90^\circ - 30^\circ = 60^\circ\end{aligned}$$

## Section Review

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6. **Reflection** A light ray strikes a flat, smooth, reflecting surface at an angle of  $80^\circ$  to the normal. What is the angle that the reflected ray makes with the surface of the mirror?
 
$$\begin{aligned}\theta_r &= \theta_i \\ &= 80^\circ \\ \theta_{r, \text{mirror}} &= 90^\circ - \theta_r \\ &= 90^\circ - 80^\circ \\ &= 10^\circ\end{aligned}$$
7. **Law of Reflection** Explain how the law of reflection applies to diffuse reflection.  
The law of reflection applies to individual rays of light. Rough surfaces make the light rays reflect in many different directions.
8. **Reflecting Surfaces** Categorize each of the following as a specular or a diffuse reflecting surface: paper, polished metal, window glass, rough metal, plastic milk jug, smooth water surface, and ground glass.  
Specular: window glass, smooth water, polished metal. Diffuse: paper, rough metal, ground glass, plastic milk jug.
9. **Image Properties** A 50-cm-tall dog stands 3 m from a plane mirror and looks at its image. What is the image position, height, and type?
 
$$\begin{aligned}d_i &= d_o \\ &= 3 \text{ m}\end{aligned}$$

# Physics Principles Problems Solutions Manual Chapter 17

**Herbert Kreyszig, Erwin Kreyszig**



## **Physics Principles Problems Solutions Manual Chapter 17:**

Physics, Volume One: Chapters 1-17 John D. Cutnell, Kenneth W. Johnson, 2014-12-15 Cutnell and Johnson has been the 1 text in the algebra based physics market for almost 20 years The 10th edition brings on new co authors David Young and Shane Stadler both out of LSU The Cutnell offering now includes enhanced features and functionality The authors have been extensively involved in the creation and adaptation of valuable resources for the text This edition includes chapters 1 17

**Physics** John D. Cutnell, Kenneth W. Johnson, 2009-09-08 Designed for medical professionals who may struggle with making the leap to conceptual understanding and applying physics the eighth edition continues to build transferable problem solving skills It includes a set of features such as Analyzing Multiple Concept Problems Check Your Understanding Concepts Calculations and Concepts at a Glance This helps the reader to first identify the physics concepts then associate the appropriate mathematical equations and finally to work out an algebraic solution **Physics, Volume 1** John D.

Cutnell, Kenneth W. Johnson, David Young, Shane Stadler, 2021-10-05 In the newly revised Twelfth Edition of Physics Volume 1 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 first volume of a two volume set Volume 1 explores ideas and concepts like Newton s Laws of Motion the Ideal Gas Law and kinetic theory Throughout students knowledge is tested with concept and calculation problems and team exercises that focus on cooperation and learning Principles of Physics Raymond A. Serway, John W. Jewett, 2002 This successful text was the first to address the

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**Student Solutions Manual** John R. Gordon, 1998 Selman's The Fundamentals of Imaging Physics and Radiobiology Victor White, 2020-10-16 This tenth edition of Selman s The Fundamentals of Imaging Physics and Radiobiology is the continuation of a seminal work in radiation physics and radiation biology first published by Joseph Selman MD in 1954 by Charles C Thomas Publisher Ltd Springfield IL Many significant changes have been made in this tenth edition Color photographs and new illustrations have been provided for several existing chapters and for the new chapters in this book

Revisions and updates have been completed for Chapters 1 through 28 whereas Chapters 29 to 33 are all new The overall style of Doctor Selman is still present but with any revision the style of the present author is also present In essence the author's reason for revising this book was to better reflect current radiology practice and to honor the work of Doctor Selman Topics discussed in this textbook deal with the physics of x radiation the biological interaction of radiation with matter and all aspects of imaging equipment and technology commonly found in the modern radiology department The chapter on computed tomography CT has been heavily revised and updated Protective measures regarding radiation safety and radiation hazards for workers and patients are thoroughly discussed and new chapters on dual energy x ray absorptiometry DXA magnetic resonance imaging MRI ultrasound US fusion and molecular imaging have been added This book will be very helpful to students about to take the ARRT R registry examination but it is not a registry review book per se This book also serves as a good overview of radiologic imaging physics for radiographers and other medical professionals

*Physics for Scientists and Engineers with Modern Physics* Ginsberg, 1994-11      Radiography Essentials for Limited Practice Bruce W Long, Eugene D Frank, Ruth Ann Ehrlich, 2012-12 Thorough preparation for the ARRT Limited Scope Exam and clinical practice is a key focus of this title Concise coverage incorporates all of the content mandated by the ASRT Core Curriculum for Limited X ray Machine Operators The latest information on state licensure and limited radiography terminology ensures you understand the role of the limited practitioner Topics include x ray science and techniques radiation safety radiographic anatomy pathology and positioning of upper and lower extremities spine chest and head patient care and ancillary clinical skills Over 1 000 anatomy illustrations positioning photos and x rays teach anatomy and demonstrate patient positioning and the resulting x rays in detail Math and radiologic physics concepts are presented in a easy to follow way Bone densitometry chapter provides all the information needed to perform bone densitometry exams and to pass the ARRT bone densitometry certification exam Step by step instructions for positioning the patient for the radiographic procedures performed by limited operators EXPANDED Digital imaging concepts reflect current practice and meet the requirements of the ASRT Limited Scope Content Specifications NEW The most common podiatric and chiropractic radiography procedures have been added for practitioners working in states that have limited podiatric or chiropractic license categories NEW Updated drawings photos and medical radiographs enhance understanding of key concepts and illustrate current technology UPDATED Patient care section now includes discussions of mechanical lifts and safe storage of chemicals as well as a table of normal pediatric and adult vital signs      *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

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