

Practice Problems

16.1 Illumination
pages 431–438

page 436

1. A lamp is moved from 30 cm to 90 cm above the pages of a book. Compare the illumination on the book before and after the lamp is moved.

$$\frac{E_{\text{after}}}{E_{\text{before}}} = \frac{\left(\frac{P}{4\pi d_{\text{after}}^2}\right)}{\left(\frac{P}{4\pi d_{\text{before}}^2}\right)} = \frac{d_{\text{before}}^2}{d_{\text{after}}^2}$$

$$= \frac{(30 \text{ cm})^2}{(90 \text{ cm})^2} = \frac{1}{9}; \text{ therefore, after}$$

the lamp is moved the illumination is one-ninth of the original illumination.

2. What is the illumination on a surface that is 3.0 m below a 150-W incandescent lamp that emits a luminous flux of 2275 lm?

$$E = \frac{P}{4\pi d^2} = \frac{2275 \text{ lm}}{4\pi(3.0 \text{ m})^2} = 2.0 \times 10^1 \text{ lx}$$

3. Draw a graph of the illuminance produced by a 150-W incandescent lamp between 0.50 m and 5.0 m.

Illuminance of a 150-W bulb

$$P = 2275, \quad d = 0.50, 0.75, \dots, 5.0$$

$$E(d) = \frac{P}{4\pi d^2}$$



4. A 64-cd point source of light is 3.0 m above the surface of a desk. What is the illumination on the desk's surface in lux?

$$P = 4\pi(64 \text{ cd}) = 256\pi \text{ lm}$$

$$\text{so } E = \frac{P}{4\pi d^2} = \frac{256\pi \text{ lm}}{4\pi(3.0 \text{ m})^2} = 7.1 \text{ lx}$$

5. A public school law requires a minimum illuminance of 160 lx at the surface of each student's desk. An architect's specifications call for classroom lights to be located 2.0 m above the desks. What is the minimum luminous flux that the lights must produce?

$$E = \frac{P}{4\pi d^2}$$

$$P = 4\pi E d^2$$

$$= 4\pi(160 \text{ lm/m}^2)(2.0 \text{ m})^2$$

$$= 8.0 \times 10^3 \text{ lm}$$

6. A screen is placed between two lamps so that they illuminate the screen equally, as shown in **Figure 16-7**. The first lamp emits a luminous flux of 1445 lm and is 2.5 m from the screen. What is the distance of the second lamp from the screen if the luminous flux is 2375 lm?



Figure 16-7 (Not to scale)

$$E_1 = E_2$$

$$\text{So } \frac{P_1}{d_1^2} = \frac{P_2}{d_2^2}$$

$$\text{or } d_2 = d_1 \sqrt{\frac{P_2}{P_1}}$$

$$= (2.5 \text{ m}) \sqrt{\frac{2375}{1445}}$$

$$= 3.2 \text{ m}$$

Chapter 15 Study Sound Physics Principles Problems

Jicheng Xie



Chapter 15 Study Sound Physics Principles Problems:

General Physics II Mehdi Rahmani-Andebili, 2025-10-26 This essential study guide is designed for students enrolled in a General Physics II course. The textbook includes problems with detailed solutions to enhance students' understanding of the subject matter. It features partially and fully solved exercises and hints for required formulas and answers. This structure enables students to practice independently while guiding them through problem-solving methods. The topics covered in the guide include electrostatics, electrical charge, capacitance and capacitors, current, resistance and resistors, magnetic fields, electromagnetic induction, fluid dynamics, thermodynamics, as well as transverse and longitudinal waves and optics including mirrors and lenses. With its comprehensive solutions, multiple problem-solving approaches, and clear explanations of concepts, this hands-on guide will help improve students' problem-solving skills and foster a solid understanding of General Physics II. Additionally, it serves as a valuable resource for instructors in developing questions, tests, and quizzes.

Automotive Tire Noise and Vibrations Xu Wang, 2020-07-29 Automotive Tire Noise and Vibrations Analysis: Measurement and Simulation presents the latest generation mechanisms of tire road noise. The book focuses not only on tire road noise issues from the tire road structures, materials, and dynamics but also from a whole vehicle system. The analyses cover finite element modeling, mathematical simulations, and experimental tests, including works done to mitigate noise. This book provides a summary of tire noise and vibration research with a focus on new simulation and measurement techniques. Covers new measurement techniques and simulation strategies that are critical in accurately assessing tire noise and vibration. Provides recent simulation progress and findings of CAE on analysis of generation mechanisms of the tire road noise. Features a Statistical Energy Analysis (SEA) and model of a multilayer trim to enhance the sound absorption of tire road noise.

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Principles of Underwater Sound University of California (1868-1952). Division of War Research. Sonar Data Division, California. University. Division of War Research. Sonar Data Division, 1946

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Vedic Creationism Ashish Dalela, 2008-12 The idea that the universe was created by God often meets hostile opposition from proponents of rationality and science because unlike science that creates empirical laws, religious theories seem to make no verifiable predictions. But in Vedic Creationism, author Ashish K. Dalela shows that a personal theistic account of creation given in the Vedas has radical implications for the study of matter and questions of creation, including new verifiable predictions based upon a different conception of reality. An expansive examination of the meaning of the universe by comparing and contrasting varying philosophical vantages, Vedic Creationism covers the journey from Vedic notions on God's personality and conscious mind to the implication these ideas have for the origins of life and the attainment of quantum gravity. Dalela relates the ideas in Vedic philosophy with the

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Table of Contents Chapter 15 Study Sound Physics Principles Problems

1. Understanding the eBook Chapter 15 Study Sound Physics Principles Problems
 - The Rise of Digital Reading Chapter 15 Study Sound Physics Principles Problems
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 15 Study Sound Physics Principles Problems
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 15 Study Sound Physics Principles Problems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 15 Study Sound Physics Principles Problems
 - Personalized Recommendations
 - Chapter 15 Study Sound Physics Principles Problems User Reviews and Ratings
 - Chapter 15 Study Sound Physics Principles Problems and Bestseller Lists
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 - Chapter 15 Study Sound Physics Principles Problems Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 15 Study Sound Physics Principles Problems
 - Highlighting and Note-Taking Chapter 15 Study Sound Physics Principles Problems
 - Interactive Elements Chapter 15 Study Sound Physics Principles Problems
 8. Staying Engaged with Chapter 15 Study Sound Physics Principles Problems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 15 Study Sound Physics Principles Problems
 9. Balancing eBooks and Physical Books Chapter 15 Study Sound Physics Principles Problems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 15 Study Sound Physics Principles Problems
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Chapter 15 Study Sound Physics Principles Problems
 - Setting Reading Goals Chapter 15 Study Sound Physics Principles Problems
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Chapter 15 Study Sound Physics Principles Problems
 - Fact-Checking eBook Content of Chapter 15 Study Sound Physics Principles Problems
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
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- Integration of Multimedia Elements
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