

## Practice Problems

16.1 Illumination  
pages 431–438

page 438

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?

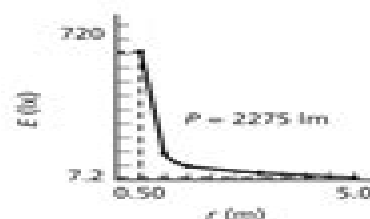
$$E = \frac{P}{4\pi d^2} = \frac{2275 \text{ lm}}{4\pi(3.0 \text{ m})^2} = 2.0 \times 10^1 \text{ lx}$$

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**

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

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



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)

$$E_1 = E_2$$

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

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

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

$$= 3.2 \text{ m}$$

# Physics Principles Problems Answers Chapter 25

**Zitzewitz**



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Questions Chapter 28 Rotational Motion Questions Chapter 29 Second Law of Thermodynamics Questions Chapter 30 Simple Harmonic Motion Questions Chapter 31 Special Relativity Questions Chapter 32 Straight Line Motion Questions Chapter 33 Transverse Waves Questions Chapter 34 Two and Three Dimensional Motion Questions Chapter 35 Vector Quantities Questions Chapter 36 Work Kinetic Energy Theorem Questions The Alternating Fields and Currents Quiz Questions PDF e Book Chapter 1 interview questions and answers on Alternating current damped oscillations in an RLS circuit electrical mechanical analog forced and free oscillations LC oscillations phase relations for alternating currents and voltages power in alternating current circuits transformers The Astronomical Data Quiz Questions PDF e Book Chapter 2 interview questions and answers on Aphelion distance from earth eccentricity of orbit equatorial diameter of planets escape velocity of planets gravitational acceleration of planets inclination of orbit to earth s orbit inclination of planet axis to orbit mean distance from sun to planets moons of planets orbital speed of planets perihelion period of rotation of planets planet densities planets masses sun earth and moon The Capacitors and Capacitance Quiz Questions PDF e Book Chapter 3 interview questions and answers on Capacitor in parallel and in series capacitor with dielectric charging a capacitor cylindrical capacitor parallel plate capacitor The Circuit Theory Quiz Questions PDF e Book Chapter 4 interview questions and answers on Loop and junction rule power series and parallel resistances single loop circuits work energy and EMF The Conservation of Energy Quiz Questions PDF e Book Chapter 5 interview questions and answers on Center of mass and momentum collision and impulse collisions in one dimension conservation of linear momentum conservation of mechanical energy linear momentum and Newton s second law momentum and kinetic energy in collisions Newton s second law for a system of particles path independence of conservative forces work and potential energy The Coulomb s Law Quiz Questions PDF e Book Chapter 6 interview questions and answers on Charge is conserved charge is quantized conductors and insulators and electric charge The Current Produced Magnetic Field Quiz Questions PDF e Book Chapter 7 interview questions and answers on Ampere s law and law of Biot Savart The Electric Potential Energy Quiz Questions PDF e Book Chapter 8 interview questions and answers on Introduction to electric potential energy electric potential and equipotential surfaces The Equilibrium Indeterminate Structures Quiz Questions PDF e Book Chapter 9 interview questions and answers on Center of gravity density of selected materials of engineering interest elasticity equilibrium indeterminate structures ultimate and yield strength of selected materials of engineering interest and Young s modulus of selected materials of engineering interest The Finding Electric Field Quiz Questions PDF e Book Chapter 10 interview questions and answers on Electric field electric field due to continuous charge distribution electric field lines flux and Gauss law The First Law of Thermodynamics Quiz Questions PDF e Book Chapter 11 interview questions and answers on Absorption of heat by solids and liquids Celsius and Fahrenheit scales coefficients of thermal expansion first law of thermodynamics heat of fusion of common substances heat of transformation heat of vaporization of common substances introduction to thermodynamics molar specific heat substance specific heat in

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## **Table of Contents Physics Principles Problems Answers Chapter 25**

1. Understanding the eBook Physics Principles Problems Answers Chapter 25
  - The Rise of Digital Reading Physics Principles Problems Answers Chapter 25
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Principles Problems Answers Chapter 25
  - 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 Physics Principles Problems Answers Chapter 25
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Principles Problems Answers Chapter 25
  - Personalized Recommendations
  - Physics Principles Problems Answers Chapter 25 User Reviews and Ratings
  - Physics Principles Problems Answers Chapter 25 and Bestseller Lists
5. Accessing Physics Principles Problems Answers Chapter 25 Free and Paid eBooks
  - Physics Principles Problems Answers Chapter 25 Public Domain eBooks
  - Physics Principles Problems Answers Chapter 25 eBook Subscription Services
  - Physics Principles Problems Answers Chapter 25 Budget-Friendly Options

6. Navigating Physics Principles Problems Answers Chapter 25 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physics Principles Problems Answers Chapter 25 Compatibility with Devices
  - Physics Principles Problems Answers Chapter 25 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physics Principles Problems Answers Chapter 25
  - Highlighting and Note-Taking Physics Principles Problems Answers Chapter 25
  - Interactive Elements Physics Principles Problems Answers Chapter 25
8. Staying Engaged with Physics Principles Problems Answers Chapter 25
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physics Principles Problems Answers Chapter 25
9. Balancing eBooks and Physical Books Physics Principles Problems Answers Chapter 25
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physics Principles Problems Answers Chapter 25
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physics Principles Problems Answers Chapter 25
  - Setting Reading Goals Physics Principles Problems Answers Chapter 25
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics Principles Problems Answers Chapter 25
  - Fact-Checking eBook Content of Physics Principles Problems Answers Chapter 25
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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