

# Physics

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(Chapter 12)(Atoms)  
(Class 12)  
Exercises

## Question 12.1:

Choose the correct alternative from the clues given at the end of the each statement:

- (a) The size of the atom in Thomson's model is \_\_\_\_ the atomic size in Rutherford's model. (much greater than/no different from/much less than.)  
 (b) In the ground state of \_\_\_\_ electrons are in stable equilibrium, while in \_\_\_\_ electrons always experience a net force. (Thomson's model/ Rutherford's model.)  
 (c) A classical atom based on \_\_\_\_ is doomed to collapse. (Thomson's model/ Rutherford's model.)  
 (d) An atom has a nearly continuous mass distribution in a \_\_\_\_ but has a highly non-uniform mass distribution in \_\_\_\_ (Thomson's model/ Rutherford's model.)  
 (e) The positively charged part of the atom possesses most of the mass in \_\_\_\_ (Rutherford's model/both the models.)

## Answer 12.1:

- (a) The sizes of the atoms taken in Thomson's model and Rutherford's model have the same order of magnitude.  
 (b) In the ground state of Thomson's model, the electrons are in stable equilibrium. However, in Rutherford's model, the electrons always experience a net force.  
 (c) A classical atom based on Rutherford's model is doomed to collapse.  
 (d) An atom has a nearly continuous mass distribution in Thomson's model, but has a highly non-uniform mass distribution in Rutherford's model.  
 (e) The positively charged part of the atom possesses most of the mass in both the models.

## Question 12.2:

Suppose you are given a chance to repeat the alpha-particle scattering experiment using a thin sheet of solid hydrogen in place of the gold foil. (Hydrogen is a solid at temperatures below 14 K.) What results do you expect?

## Answer 12.2:

In the alpha-particle scattering experiment, if a thin sheet of solid hydrogen is used in place of a gold foil, then the scattering angle would not be large enough. This is because the mass of hydrogen ( $1.67 \times 10^{-27}$  kg) is less than the mass of incident  $\alpha$ -particles ( $6.64 \times 10^{-27}$  kg). Thus, the mass of the scattering particle is more than the target nucleus (hydrogen). As a result, the  $\alpha$ -particles would not bounce back if solid hydrogen is used in the  $\alpha$ -particle scattering experiment.

## Question 12.3:

What is the shortest wavelength present in the Paschen series of spectral lines?

## Answer 12.3:

Rydberg's formula is given as:

$$\frac{hc}{\lambda} = 21.76 \times 10^{-19} \left[ \frac{1}{n_1^2} - \frac{1}{n_2^2} \right]$$

Where,

$h$  = Planck's constant =  $6.6 \times 10^{-34}$  Js and  $c$  = Speed of light =  $3 \times 10^8$  m/s. ( $n_1$  and  $n_2$  are integers)

The shortest wavelength present in the Paschen series of the spectral lines is given for values  $n_1 = 3$  and  $n_2 = \infty$ .

$$\frac{hc}{\lambda} = 21.76 \times 10^{-19} \left[ \frac{1}{(3)^2} - \frac{1}{(\infty)^2} \right]$$

$$\begin{aligned} \lambda &= \frac{6.6 \times 10^{-34} \times 3 \times 10^8 \times 9}{21.76 \times 10^{-19}} \\ &= 8.189 \times 10^{-7} \text{ m} \\ &= 818.9 \text{ nm} \end{aligned}$$

## Question 12.4:

A difference of 2.3 eV separates two energy levels in an atom. What is the frequency of radiation emitted when the atom makes a transition from the upper level to the lower level?

# Physics Chapter 5 Review Answers

**United States. Bureau of Naval  
Personnel**



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**Cracking the SAT Physics Subject Test** Steven A. Leduc, 2005-03 Offers tips on preparation including advice on test taking strategy and studying for the test and provides two full length sample tests with explanatory answers **Cracking the SAT Physics Subject Test, 2013-2014 Edition** Princeton Review, 2013-04-30 If you need to know it it s in this book This eBook version of the 2013 2014 edition of Cracking the SAT Physics Subject Test has been optimized for on screen viewing with cross linked questions answers and explanations It includes 2 full length practice tests with detailed explanations Accessible engaging subject review including coverage of Newton s Laws work energy and power linear momentum rotational motion electric potential and capacitance electromagnetic function motion oscillations thermal physics optics waves circuits and more Tons of sample problems and drills Princeton Review AP Physics 2 Premium Prep, 10th Edition The Princeton Review, 2025-02-11 EVERYTHING YOU NEED TO HELP SCORE A PERFECT 5 Ace the NEWLY UPDATED AP Physics 2 Exam with this comprehensive study guide including 3 full length practice tests 2 in the book 1 online with complete explanations content reviews exam strategies and access to online extras AP Physics 2 is getting an update Starting with the Fall 2024 course and the May 2025 exam students testing on this challenging topic will find both an expanded range of content and a revised exam format with new question types This book addresses it all and helps you approach test day with confidence Techniques That Actually Work Tried and true strategies to avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need for a High Score Fully updated to reflect the latest College Board standards for AP Physics 2 Comprehensive coverage of thermodynamics electrostatics magnetic fields electromagnetism geometric and physical optics and more Tons of charts and figures to illustrate key concepts Access to study plans a handy list of equations and formulas helpful pre college information and more via your online Student Tools Practice Your Way to Excellence 3 full length practice tests 2 in the book 1 online with detailed answer explanations Practice drills at the end of each content review chapter Step by step walk throughs of sample questions **CliffsNotes HESI A2 Science Cram Plan** Michael Reid, 2021-04-13 A study guide for the HESI A2 science nursing school test that calendarizes a study plan for test takers depending on how much time they have left before taking the test *Science Of Learning Physics, The: Cognitive Strategies For Improving Instruction* Jose Mestre, Jennifer Docktor, 2020-11-24 This book on the teaching and learning of physics is intended for college level instructors but high school instructors might also find it very useful Some ideas found in this book might be a small tweak to existing practices whereas others require more substantial revisions to instruction The discussions of student learning herein are based on research evidence accumulated over decades from various fields including cognitive psychology educational psychology the learning sciences and discipline based education research including physics education research Likewise the teaching suggestions are also based on research findings As for any other scientific endeavor physics education research is an empirical field where

experiments are performed data are analyzed and conclusions drawn Evidence from such research is then used to inform physics teaching and learning While the focus here is on introductory physics taken by most students when they are enrolled however the ideas can also be used to improve teaching and learning in both upper division undergraduate physics courses as well as graduate level courses Whether you are new to teaching physics or a seasoned veteran various ideas and strategies presented in the book will be suitable for active consideration

**Nanocrystal Quantum Dots** Victor I. Klimov, 2017-12-19 A review of recent advancements in colloidal nanocrystals and quantum confined nanostructures Nanocrystal Quantum Dots is the second edition of Semiconductor and Metal Nanocrystals Synthesis and Electronic and Optical Properties originally published in 2003 This new title reflects the book's altered focus on semiconductor nanocrystals Gathering contributions from leading researchers this book contains new chapters on carrier multiplication generation of multiexcitons by single photons doping of semiconductor nanocrystals and applications of nanocrystals in biology Other updates include New insights regarding the underlying mechanisms supporting colloidal nanocrystal growth A revised general overview of multiexciton phenomena including spectral and dynamical signatures of multiexcitons in transient absorption and photoluminescence Analysis of nanocrystal specific features of multiexciton recombination A review of the status of new field of carrier multiplication Expanded coverage of theory covering the regime of high charge densities New results on quantum dots of lead chalcogenides with a focus studies of carrier multiplication and the latest results regarding Schottky junction solar cells Presents useful examples to illustrate applications of nanocrystals in biological labeling imaging and diagnostics The book also includes a review of recent progress made in biological applications of colloidal nanocrystals as well as a comparative analysis of the advantages and limitations of techniques for preparing biocompatible quantum dots The authors summarize the latest developments in the synthesis and understanding of magnetically doped semiconductor nanocrystals and they present a detailed discussion of issues related to the synthesis magneto optics and photoluminescence of doped colloidal nanocrystals as well A valuable addition to the pantheon of literature in the field of nanoscience this book presents pioneering research from experts whose work has led to the numerous advances of the past several years

**Hearing Loss** Robert Thayer Sataloff, Pamela C. Roehm, 2024-10-29 Covering all aspects of the anatomy physiology diagnosis and treatment of hearing loss this is an accessible and comprehensive text for all clinicians interested in expanding their knowledge of hearing loss There have been many exciting developments in the nearly two decades since the fourth edition was published This revised edition includes new material on cochlear biology synaptopathy regenerative therapy for sensorineural hearing loss systemic causes of hearing loss such as autoimmune inner ear disease advances in audiometry and aural rehabilitation and many other topics In addition it contains expanded chapters on tinnitus dizziness and facial paralysis as well as updated material on otoacoustic emissions sudden hearing loss hearing protection devices temporal bone tumors nutraceutical research and hearing in dogs The book is extensively augmented with case reports that illustrate important

principles The book is of value to otolaryngologists general practitioners pediatricians residents medical students audiologists nurses audiometric technicians attorneys and other professionals with an interest in the ear and hearing

**Handbook of Magnetic Materials** K.H.J. Buschow, 2007-12-15 Volume 17 of the Handbook on the Properties of Magnetic Materials as the preceding volumes has a dual purpose As a textbook it is intended to be of assistance to those who wish to be introduced to a given topic in the field of magnetism without the need to read the vast amount of literature published As a work of reference it is intended for scientists active in magnetism research To this dual purpose Volume 17 of the Handbook is composed of topical review articles written by leading authorities In each of these articles an extensive description is given in graphical as well as in tabular form much emphasis being placed on the discussion of the experimental material in the framework of physics chemistry and material science It provides the readership with novel trends and achievements in magnetism composed of topical review articles written by leading authorities intended to be of assistance to those who wish to be introduced to a given topic in the field of magnetism as a work of reference it is intended for scientists active in magnetism research provide the readership with novel trends and achievements in magnetism *Cold and Ultracold Collisions in Quantum Microscopic and Mesoscopic Systems* John Weiner, 2003-12-04 Cold and ultracold collisions occupy a strategic position at the intersection of several powerful themes of current research in chemical physics in atomic molecular and optical physics and even in condensed matter The nature of these collisions has important consequences for optical manipulation of inelastic and reactive processes precision measurement of molecular and atomic properties matter wave coherences and quantum statistical condensates of dilute weakly interacting atoms This crucial position explains the wide interest and explosive growth of the field since its inception in 1987 The author reviews elements of the quantum theory of scattering theory collisions taking place in the presence of one or more light fields and collisions in the dark below the photon recoil limit imposed by the presence of any light field Finally it reviews the essential properties of these mesoscopic quantum systems and describes the key importance of the scattering length to condensate stability *MCAT*

*Comprehensive Review 1999*, 1998-11 Complete Review of ALL the science you need to know Full Length Practice Test with complete explanations for each question 2 Full Length Verbal Reasoning Tests with detailed explanations and strategies

Electromagnetic Waves For Thermonuclear Fusion Research Ernesto Mazzucato, 2014-04-02 The science of magnetically confined plasmas covers the entire spectrum of physics from classical and relativistic electrodynamics to quantum mechanics During the last sixty years of research our initial primitive understanding of plasma physics has made impressive progress thanks to a variety of experiments from tabletop devices with plasma temperatures of a few thousands of degrees and confinement times of less than 100 microseconds to large tokamaks with plasma temperatures of up to five hundred million degrees and confinement times approaching one second We discovered that plasma confinement is impaired by a variety of instabilities leading to turbulent processes with scales ranging from the plasma size to a few millimeters Understanding

these phenomena which have slowed down progress towards a fusion reactor requires the use of very sophisticated diagnostic tools many of which employ electromagnetic waves The primary objective of this book is to discuss the fundamental physics upon which the application of electromagnetic waves to the study of magnetically confined plasmas is based

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*Applied Mechanics Reviews*, 1974

**Communications Technician O 3 & 2** United States. Bureau of Naval Personnel, 1965

From LED to Solid State Lighting S. W. Ricky Lee, Jeffery C. C. Lo, Mian Tao, Huaiyu Ye, 2021-09-17 FROM LED TO SOLID STATE LIGHTING A comprehensive and practical reference complete with hands on exercises and experimental data In From LED to Solid State Lighting Principles Materials Packaging Characterization and Applications accomplished mechanical engineers Shi Wei Ricky Lee Jeffery C C Lo Mian Tao and Huaiyu Ye deliver a practical overview of the design and construction of LED lighting modules from the fabrication of the LED chip to the LED modules incorporated in complete LED lighting fixtures The distinguished authors discuss the major advantages of solid state lighting including energy savings environmental friendliness and lengthy operational life as well as the contributions offered by the packaging of light emitting diodes in the pursuit of these features Readers will discover presentations of the technical issues that arise in packaging LED components like interconnection phosphor deposition and encapsulation They ll also find insightful elaborations on optical design analysis and characterization Discussions of LED applications technology roadmaps and IP issues round out the included material This important book also includes Thorough introductions to lighting photometry and colorimetry the fundamentals of light emitting diodes and the fabrication of LED wafers and chips Practical discussions of the packaging of LED chips wafer level packaging of LED arrays and optical and electrical characterization Comprehensive explorations of board level assembly and LED modules and optical and electrical characterization In depth examinations of thermal management reliability engineering for LED packaging and applications for general lighting Perfect for post graduate students and practicing engineers studying or working in the field of LED manufacturing for solid state lighting applications From LED to Solid State Lighting Principles Materials Packaging Characterization and Applications is also an indispensable resource for managers and technicians seeking a one stop guide to the subject

**Scientific and Technical**

**Aerospace Reports**, 1990      Advanced Engineering Mathematics, International Adaptation Erwin Kreyszig, 2025-05-12

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**Laser Technology in Biomimetics** Volker Schmidt, Maria Regina Belegatis, 2014-01-02 Lasers are progressively more used as versatile tools for fabrication purposes The wide range of available powers wavelengths operation modes repetition rates etc facilitate the processing of a large spectrum of materials at exceptional precision and quality Hence manifold methods were established in the past and novel methods are continuously under development Biomimetics the translation from nature inspired principles to technical applications is strongly multidisciplinary This field offers intrinsically a wide scope of applications for laser based methods regarding structuring and modification of materials This book is dedicated to laser fabrication methods in biomimetics It introduces both a laser technology as well as an application focused approach The book covers the most important laser lithographic methods and various biomimetics application scenarios ranging from coatings and biotechnology to construction medical applications and photonics

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Nanomaterials and Nanocomposites, Nanostructures, and Their Applications Olena Fesenko, Leonid Yatsenko, 2024-10-31 This book highlights some of the latest advances in nanotechnology and nanomaterials from leading researchers in Ukraine Europe and beyond It features contributions presented at the 11th International Conference on Nanotechnologies and Nanomaterials and was jointly organized by the Institute of Physics of the National Academy of Sciences of Ukraine University of Tartu Estonia

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