

College Physics 7th Edition Serway

ENERGY: ITS USE AND THE ENVIRONMENT, Fourth Edition is an introductory textbook that emphasizes the physical principles behind energy and its effects on our environment. The text explains the basic physical principles behind the use of energy, including the study of mechanics, electricity and magnetism, thermodynamics, and atomic and nuclear physics. It also covers crucial environmental questions that currently are receiving much public attention, such as global warming, radioactive waste, municipal solid waste and nuclear energy production materials. The new fourth edition continues to emphasize the impact energy issues have on the individual and society. By placing energy issues within the context of everyday examples and asking students to define and support critical arguments, ENERGY utilizes relevant applications to capture student interest. A new ongoing email service provides subscribing instructors the opportunity to seamlessly incorporate current events into their course lectures. The text can be used in physics, technology, physical science, and environmental science courses for non-science majors. Many of the standard topics found in introductory physics textbooks are included. As a result, this book can be used as the text in a conceptual physics course with energy as the central theme. No math or other science prerequisite is necessary.

Since the invention of the laser, our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology. As the reality of all-optical systems quickly comes into focus, it is more important than ever to have a thorough understanding of light and the optical components used to control it. Comprising chapters drawn from the author's highly anticipated book *Photonics: Principles and Practices*, *Light and Optics: Principles and Practices* offers a detailed and focused treatment for anyone in need of authoritative information on this critical area underlying photonics. Using a consistent approach, the author leads you step-by-step through each topic. Each skillfully crafted chapter first explores the theoretical concepts of each topic, and then demonstrates how these principles apply to real-world applications by guiding you through experimental cases illuminated with numerous illustrations. The book works systematically through light, light and shadow, thermal radiation, light production, light intensity, light and color, the laws of light, plane mirrors, spherical mirrors, lenses, prisms, beamsplitters, light passing through optical components, optical instruments for viewing applications, polarization of light, optical materials, and laboratory safety. Containing several topics presented for the first time in book form, *Light and Optics: Principles and Practices* is simply the most modern, comprehensive, and hands-on text in the field.

Since the invention of the laser, our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology. An explosion of new materials, devices, and applications makes it more important than ever to stay current with the latest advances. Surveying the field from fundamental concepts to state-of-the-art developments, *Photonics: Principles and Practices* builds a comprehensive understanding of the theoretical and practical aspects of photonics from the basics of light waves to fiber optics and lasers. Providing self-contained coverage and using a consistent approach, the author leads you step-by-step through each topic. Each skillfully crafted chapter first explores the theoretical concepts of each topic and then demonstrates how these principles apply to real-world applications by guiding you through experimental cases illuminated with numerous illustrations. Coverage is divided into six broad sections, systematically working through light, optics, waves and diffraction, optical fibers, fiber optics testing, and laboratory safety. A complete glossary, useful appendices, and a thorough list of references round out the presentation. The text also includes a 16-page insert containing 28 full-color illustrations. Containing several topics presented for the first time in book form, *Photonics: Principles and Practices* is simply the most modern, comprehensive, and hands-on text in the field.

For Chapters 1-14, this manual contains detailed solutions to approximately 12 problems per chapter. These problems are indicated in the textbook with boxed problem numbers. The manual also features a skills section, important notes from key sections of the text, and a list of important equations and concepts.

The Companion Web Site (<http://www.pse6.com>), newly revised for this edition, features student access to Quizzes, Web Links, Internet Exercises, Learning Objectives, and Chapter Outlines. In addition, instructors have password-protected access to a downloadable file of the Instructor's Manual, a Multimedia Manager demo, and PowerPoint' files of QUICK QUIZZES.

Environmental professionals who look beyond their specialties and acquire knowledge in a variety of sciences not only make solving on-the-job problems easier for themselves, but they also increase their employment opportunities. This fifth book in the 'non-specialist' series provides both professionals and students with a clear, concise overview of the most important aspects of physics in a way that anyone, even those who have never taken a formal physics course, can relate to. Starting with the basic principles of measurement, conversion factors, and math operations, the author explores the topics of motion and force, work and energy, gravity, atoms, heat, sound, light and color, and basic electricity. Each chapter examines the jargon, concepts, key concerns, and applications of physics in action and ends with a chapter review test.

[Advances in Mechatronics and Control Engineering](#)

[A Multi-Objective Design Approach](#)

[Chemistry and Physics for Nurse Anesthesia, Second Edition](#)

[Physical Optics](#)

[Adult collection](#)

[Kinematics, Newtonian and Lagrangian](#)

[Photonics](#)

[Introduction to Classical Mechanics](#)

[Principles and Applications](#)

[A Student Centered Approach](#)

This user-friendly text, written in a clear and friendly manner by leading experts in the field, is intended primarily for undergraduate athletic training students. It encourages students to understand both the how and the why of therapeutic modality use so readers become thinking, decision-making professionals. It provides the knowledge needed to evaluate and select treatment for orthopedic injury and pain are covered, from electrotherapy to therapeutic heat and cold to therapeutic massage.

Since the invention of the laser, our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology. As the reality of all-optical systems comes into focus, it is more important than ever to stay current with the latest advances in the optics and components that enable photonics technology. Comprising chapters drawn from the author's highly anticipated book *Photonics: Principles and Practices*, *Light and Optics: Principles and Practices* offers a detailed and focused treatment for anyone in need of authoritative information on this critical area underlying photonics. Using a consistent approach, the author leads you step-by-step through each topic. Each skillfully crafted chapter first explores the theoretical concepts of each topic, and then demonstrates how these principles apply to real-world applications by guiding you through experimental cases illuminated with numerous illustrations. The book works systematically through the principles of waves, diffraction, interference, diffraction gratings, interferometers, spectrometers, and several aspects of laser technology to build a thorough understanding of how to study and manipulate the behavior of light for various applications. Several full-color illustrations as well as a chapter on laboratory safety. Containing several topics presented for the first time in book form, *Physical Optics: Principles and Practices* is simply the most modern, detailed, and hands-on text in the field.

Equipping readers with the ability to analyze the aerodynamic forces on an aircraft, the book provides comprehensive knowledge of the characteristics of subsonic and supersonic airflow. This book begins with the fundamental physics principles of aerodynamics, then introduces the Continuity Equation, Energy Equations, and Bernoulli's Equation, which form the basis for understanding the forces acting on an aircraft across a range of speeds and their effects on the aircraft's performance, including a discussion on the difference in aerofoil and aircraft shapes. Aircraft stability issues are analyzed, along with the development of a boundary layer over an aerofoil, the changes of air speed and air pressure, and the effects of air pressure on the aircraft. A thorough understanding of the nature of airflow over aircraft during subsonic, transonic, and supersonic flight. The book emphasizes the connection between operating actions in flight and aerodynamic requirements. The content will be of interest to senior undergraduates studying to obtain their Airline Transport Pilot License (ATPL)/Airline Transport Pilot (ATP) certificate, and aircraft maintenance engineers.

This book introduces Tanzanian students to the fascinating world of Mechanics - the science of motion and equilibrium. Concepts of mechanics namely vector and scalar quantities, forces, the laws of motion, work, energy, the conservation laws, gravitation, circular, orbital and oscillatory motions cut across not only most branches of physics such as electromagnetism, but also are applied to most branches of engineering and technology. This makes mechanics an important component of physics which students must master well at an early stage before branching to various career options. That is why undergraduate programs in sciences at most universities offer mandatory courses on basic mechanics within the first year of study. This book covers three crucial subareas of mechanics namely Kinematics, Newtonian mechanics and Lagrangian mechanics. Chapter 1 covers introductory aspects. Kinematics is discussed in chapter 2. Newton's laws of motion are introduced in chapter 3. Chapter 4 deals with the conservation of linear momentum. Work, energy and power are covered in chapter 5. Motion and oscillations are covered in chapters 6, 7 and 8 respectively. Chapter 9 presents the aspects of rigid body dynamics, and Lagrangian mechanics is introduced in chapter 10, which lays a foundation for advanced courses in mechanics. The language of physics is universal, and the book is suited to students globally. However, the book recognises and addresses the fact that there is a marked heterogeneity in the background of students ranging from those who are well prepared to those who are not so well prepared. The book meets the needs of all students. It presents detailed explanations of difficult-to-grasp topics with the help of simple but clearly drawn and labeled diagrams. The discussions and conclusions are presented point-by-point. A unique feature of the book is a number of 'Recipes' which give students tailor made guidance to problems solving. Application of the recipe is illustrated by a solved example, followed by a similar exercise for students to practice. There are a large number of problems and exercises at the end of each chapter to further sharpen their skills.

Achieve success in your physics course by making the most of what PHYSICS FOR SCIENTISTS AND ENGINEERS has to offer. From a host of in-text features to a range of outstanding technology resources, you'll have everything you need to understand the natural forces and principles of physics. Throughout every chapter, the authors have built in a wide range of exercises to help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Mechatronics is the synergistic combination of precision mechanical engineering, electronic control and systems thinking in the design of products and manufacturing processes. It relates to the design of systems, devices and products aimed at achieving an optimal balance between basic mechanical structure and its overall control. Volume is indexed by Thomson Research Alert as follows: Chapter 1: Engineering Design of Machines and Equipment for Manufacturing; Chapter 2: Materials and Processing Technologies; Chapter 3: Robotics and its Motor System; Chapter 4: Sensors, Measurement, Monitoring and Detection; Chapter 5: Electronics and Microelectronics; Chapter 6: Data Acquisition and Data Processing, Computational Techniques; Chapter 7: Applications; Chapter 8: Software, Communication and Computer Applications in Industry and Engineering; Chapter 9: Engineering Education, Engineering Management, Products Design and Manufacture Management; Chapter 10: Other Related Topics.

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[The Cumulative Book Index](#)

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[Physics for Scientists and Engineers with Modern Physics](#)

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[Books in Print 1993-94](#)

This updated Eleventh Edition of COLLEGE PHYSICS is designed throughout to help students master physical concepts, improve their problem-solving skills, and enrich their understanding of the world around them. The book offers a logical presentation of concepts, a consistent problem-solving strategy, and an unparalleled array of worked examples to help students develop a true understanding of physics. This edition is enhanced by a streamlined presentation, new problems, Interactive Video Vignettes, new conceptual questions, new techniques, and hundreds of new and revised problems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This volume is important because despite various external representations, such as analogies, metaphors, and visualizations being commonly used by physics teachers, educators and researchers, the notion of using the pedagogical functions of multiple representations to support teaching and learning is still a gap in physics education. The research presented in the three sections of the book is introduced by descriptions of various psychological theories that are applied in different ways for designing physics teaching and learning in classroom settings. The following chapters of the book illustrate teaching and learning with respect to applying specific physics multiple representations in different levels of the education system and in different physics topics using analogies and models, different modes, and in reasoning and representational competence. When multiple representations are used in physics for teaching, the expectation is that they should be successful. To ensure this is the case, the implementation of representations should consider design principles for using multiple representations. Investigations regarding their effect on classroom communication as well as on the learning results in all levels of schooling and for different topics of physics are reported. The book is intended for physics educators and their students at universities and for physics teachers in schools to apply multiple representations in physics in a productive way.

The new edition of this widely-used sourcebook details the startlingly array of diagnostic equipment available in the medical laboratory of the nineties, and also covers maintenance and quality assurance for each type of instrument. This book includes 17 completely rewritten chapters and 7 new ones, on nephelometry and turbidimetry, gas chromatography, mass spectrometry, flow cytometry, automated immunoassay systems, automated blood bank systems, and physician's office laboratory instrumentation.

While physics can seem challenging, its true quality is the sheer simplicity of fundamental physical theories--theories and concepts that can enrich your view of the world around you. COLLEGE PHYSICS, Tenth Edition, provides a clear strategy for connecting those theories to a consistent problem-solving approach, carefully reinforcing this methodology throughout the text and connecting it to real-world examples. For students planning to take the MCAT exam, the text includes exclusive test prep and review tools to help you prepare. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Presents a multi-objective design approach to the many powermagnetic devices in use today Power Magnetic Devices: A Multi-Objective Design Approachaddresses the design of power magnetic devices—includinginductors, transformers, electromagnets, and rotating electricmachinery—using a structured design approach based on formalsingle- and multi-objective optimization. The book opens with a discussion of evolutionary-computing-basedoptimization. Magnetic analysis techniques useful to the design ofall the devices considered in the book are then set forth. Thismaterial is then used for inductor design so readers can start thedesign process. Core loss is next considered; this material is usedto support transformer design. A chapter on force and torqueproduction feeds into a chapter on electromagnet design. This isfollowed by chapters on rotating machinery and the design of apermanent magnet AC machine. Finally, enhancements to the designprocess including thermal analysis and AC conductor losses due toskin and proximity effects are set forth. Power Magnetic Devices: Focuses on the design process as it relates to power magneticdevices such as inductors, transformers, electromagnets, androtating machinery Offers a structured design approach based on single- andmulti-objective optimization Helps experienced designers take advantage of new techniqueswhich can yield superior designs with less engineering time Provides numerous case studies throughout the book tofacilitate readers ' comprehension of the analysis and designprocess Includes Powerpoint-slide-based student and instructor lecturenotes and MATLAB-based examples, toolboxes, and design codes Designed to support the educational needs of students, PowerMagnetic Devices: A Multi-Objective Design Approach also servesas a valuable reference tool for practicing engineers anddesigners. MATLAB examples are available via the book supportsite.

Written for undergraduate biomechanics courses, Applied Biomechanics: Concepts and Connections, Second Edition is a comprehensive resource that focuses on making connections between biomechanics and other subdisciplines of exercise science. With that in mind, each chapter contains a Concepts section and a Connections section. The Concepts are the core nuts and bolts of understanding the mechanics of movement. The Connections are designed to show how the Concepts are used in the many diverse areas within the movement sciences.

[Principles and Practices](#)

[Physics for Nonphysicists](#)

[Introductory Physics with Aviation Applications](#)

[Proceedings of the GIREP-EPEC & PHEC 2009 International Conference "Physics Community and Cooperation" - Volume 2](#)

[Light and Optics](#)

[Principles of Physics: A Calculus-Based Text, Volume 1](#)

[Chemistry and Physics for Nurse Anesthesia, Third Edition](#)

[The Art and the Science](#)

[Energy](#)

[Multiple Representations in Physics Education](#)

Promotes ease of understanding with a unique problem-solving method and new clinical application scenarios! With a focus on chemistry and physics content that is directly relevant to the practice of anesthesia, this text delivers—in an engaging, conversational style—the

breadth of scientific information required for the combined chemistry and physics course for nurse anesthesia students. Now in its third edition, the text is updated and reorganized to facilitate a greater ease and depth of understanding. It includes additional clinical application scenarios, detailed, step-by-step solutions to problems, and a Solutions Manual demonstrating a unique method for solving chemistry and physics problems and explaining how to use a calculator. The addition of a third author--a practicing nurse anesthetist--provides additional clinical relevance to the scientific information. Also included is a comprehensive listing of need-to-know equations. The third edition retains the many outstanding learning features from earlier editions, including a special focus on gases, the use of illustrations to demonstrate how scientific concepts relate directly to their clinical application in anesthesia, and end-of-chapter summaries and review questions to facilitate self-assessment. Ten on-line videos enhance teaching and learning, and abundant clinical application scenarios help reinforce scientific principles and relate them to day-to-day anesthesia procedures. This clear, easy-to-read text will help even the most chemistry- and physics-phobic students to master the foundations of these sciences and competently apply them in a variety of clinical situations. New to the Third Edition: The addition of a third co-author--a practicing nurse anesthetist--provides additional clinical relevance Revised and updated to foster ease of understanding Detailed, step-by-step solutions to end-of-chapter problems Solutions Manual providing guidance on general problem-solving, calculator use, and a unique step-by-step problem-solving method Additional clinical application scenarios Comprehensive list of all key equations with explanation of symbols New instructor materials include PowerPoint slides. Updated information on the gas laws Key Features: Written in an engaging, conversational style for ease of understanding Focuses solely on chemistry and physics principles relevant to nurse anesthetists Provides end-of-chapter summaries and review questions Includes abundant illustrations highlighting application of theory to practice

"[A] welcome addition to the reference materials necessary for the study of nurse anesthesia...The textbook is divided into logical, easy to use sections that cover all areas necessary for the practice of nurse anesthesia...This is a text that is easy to read and able to be incorporated into any nurse anesthesia chemistry and physics course. I would recommend this textbook to any program director." --Anthony Chipas, PhD, CRNA Division Director Anesthesia for Nurses Program Medical University of South Carolina At last. . . a combined chemistry & physics nursing anesthesia text. This textbook offers combined coverage of chemistry and physics to help students learn the content needed to master the underlying principles of nursing anesthesia. Because many graduate nursing students are uncomfortable with chemistry and physics, this text presents only the specific content in chemistry and physics that relates to anesthesia. Written in a conversational, accessible style, the book teaches at a highly understandable level, so as to bridge the gap between what students recall from their undergraduate biochemistry and physics courses, and what they need to know as nurse anesthetists. The book contains many illustrations that demonstrate how the scientific concepts relate directly to clinical application in anesthesia. Chapters cover key topics relating to anesthesiology, including the basics of both chemistry and physics, fluids, a concentration on gas laws, states of matter, acids and bases, electrical circuits, radiation, and radioactivity. With this text, students will benefit from: A review of the math, chemistry, and physics basics that relate to clinical anesthesia A conversational presentation of just what students need to know, enabling a fast and complete mastery of clinically relevant scientific concepts Heavy use of illustrations throughout chapters to complement the text End-of-chapter review questions that help students assess their learning PowerPoint Slides available to qualified instructors.

Praise for the first edition: "[A] welcome addition to the reference materials necessary for the study of nurse anesthesia...The textbook is divided into logical, easy to use sections that cover all areas necessary for the practice of nurse anesthesia...This is a text that is easy to read and able to be incorporated into any nurse anesthesia chemistry and physics course. I would recommend this textbook to any program director." --Anthony Chipas, PhD, CRNA Division Director, Anesthesia for Nurses Program Medical University of South Carolina Nurse anesthesia students will welcome the second edition of this text designed for the combined course in chemistry and physics that is required for this program. It is written in a clear, conversational style to counteract the trepidation that often accompanies the study of chemistry and physics, and includes only those core scientific concepts that relate to clinical anesthesia application. Numerous illustrations demonstrate how the scientific concepts relate directly to their clinical application in anesthesia, and plentiful case studies exemplify and reinforce basic concepts. Review question at the end of each chapter facilitate self-assessment. This second edition offers numerous features that will further assist students with understanding and mastery of the material. These new features are the direct result of knowledge gained from on-line and traditional classroom teaching experiences. They include chapter summaries, additional questions and answers at the end of each chapter specific to nurse anesthesia, end-of-chapter summaries, and lists of formulas and constants discussed in the book. Fifteen videos vividly demonstrate the key principles of the chemistry and physics of nurse anesthesia. Corresponding to various sections of the book, they supplement and illustrate text content. Also available are revised PowerPoint slides for faculty use. The first edition of this popular text is currently being used by eight nurse anesthesia programs throughout the United States and many additional programs plan to adopt the second edition. New to the Second Edition: Emphasizes content in chemistry and physics that relates specifically to anesthesia, with a strong focus on gases Includes case studies to illustrate and reinforce knowledge Provides additional end-of-chapter problems focused on anesthesia Relates core scientific concepts to clinical anesthesia application Offers fifteen videos demonstrating key principles of the physics and chemistry of nurse anesthesia

Achieve success in your physics course by making the most of what PHYSICS FOR SCIENTISTS AND ENGINEERS WITH MODERN PHYSICS has to offer. From a host of in-text features to a range of outstanding technology resources, you'll have everything you need to understand the natural forces and principles of physics. Throughout every chapter, the authors have built in a wide range of examples, exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Radio-Frequency Heating in Food Processing: Principles and Applications covers the fundamentals of radio-frequency (RF) heating and the use of RF-heating technologies in modern food processing, preservation, and related industries. Focusing on industrial and lab-scale applications where RF heating has been employed successfully or reported to have potential benefits over conventional heating options, this state-of-the-art reference: Explains the similarities, differences, advantages, and limitations of RF and microwave heating as applied to agricultural products Describes fiber-optics temperature sensors and their utility in monitoring temperature during RF and microwave heating Discusses the dielectric and thermo-physical properties of agricultural products amenable to RF and microwave heating, presenting measurement techniques, mathematical concepts, and computer simulation models Provides practical perspectives on industrial RF units used in manufacturing food products, addressing free-running oscillators and 50-? designs for RF heaters and applicators Uses finite-element formulations to determine design parameters including resonant modes, circuit impedance, and electric field distribution in RF applicators Examines RF-heating effects on microorganisms, enzymes, and food quality attributes for products such as poultry, beef, pork, eggs, fish, milk, fruits, vegetables, and seafood Explores RF-heating applications beyond food processing, such as agricultural product deinfestation, waste treatment, counterfeit prevention, package tracking, and transportation of food from farm to table Radio-Frequency Heating in Food Processing: Principles and Applications supplies an in-depth overview of the fundamental science and engineering principles governing RF applications, as well as a solid understanding of industrial RF unit design options, challenges, and opportunities for development.

PRINCIPLES OF PHYSICS is the only text specifically written for institutions that offer a calculus-based physics course for their life science majors. Authors Raymond A. Serway and John W. Jewett have revised the Fifth Edition of PRINCIPLES OF PHYSICS to include a new worked example format, new biomedical applications, two new Contexts features, a revised problem set based on an analysis of problem usage data from WebAssign, and a thorough revision of every piece of line art in the text. The Enhanced WebAssign course for PRINCIPLES OF PHYSICS is very robust, with all end-of-chapter problems, an interactive YouBook, and book-specific tutorials. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

[Student Solutions Manual and Study Guide for Serway and Faughn's College Physics, Seventh Edition](#)

[Radio-Frequency Heating in Food Processing](#)

[Student Solutions Manual and Study Guide for Serway and Faughn's College Physics, Seventh Edition](#)

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[Chemistry and Physics for Nurse Anesthesia](#)

[Aerodynamics Principles for Air Transport Pilots](#)

Covers 180 features of Earth's solar system, including every major body and phenomenon, offering detailed basic information on all major aspects.

A world list of books in the English language.

This book covers system safety methods related to occupational health and safety. It argues for anticipating hazards, risk reduction strategies for hazards processes, and making sure workers' tasks correspond to human capabilities. To this end, the text provides pro-active methods for identifying hazards, assessing risk, analyzing hazards, using tools from system safety, conducting post-incident investigations, considering human errors, applying risk reduction strategies, and managing process safety. While emphasizing methods suitable for all countries, it includes references to U.S. military and Department of Energy documents, as well as a discussion of fault-tree construction.

COLLEGE PHYSICS provides students with a clear and logical presentation of the basic concepts and principles of physics. The authors include a broad range of contemporary applications to motivate students understanding of how physics works in the real world. In addition, new pedagogy, reflecting the findings of physics education research, has been added to help students improve their problem solving skills and conceptual understanding. The innovative technology program is perfectly tailored to support any course design. All end-of-chapter problems, worked examples, and quick quizzes are available in WebAssign (enhanced with hints and feedback), allowing instructors to securely create and administer homework assignments in an interactive online environment. For instructors utilizing classroom response technology, a complete suite of questions, pre-formatted in PowerPoint, is available to support the JoinIn on TurningPoint interactive lecture solution, or the clicker software of your choosing. For students planning on taking the MCAT exam, a new appendix provides detailed conceptual and quantitative explanations of key examination areas, as well as additional MCAT-styled questions and answers for additional practice. This text, which covers the standard topics in classical physics and 20th century physics, is divided into six parts. Newtonian mechanics and the physics of fluids (Part I); heat and thermodynamics (Part II); wave motion and sound (Part III); electricity and magnetism (Part IV); properties of light and the field of geometric and wave optics (Part V); and an introduction to special relativity, quantum physics, and atomic and nuclear physics (Part VI). Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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