

# Conceptual Physical Science Explorations

Alfred Wegener Carbon Dioxide Capture and Storage Microbiology The Practice Book for Conceptual Physics: Pearson New International Edition Conceptual Physical Science, Explorations Physics of the Impossible Lab Notebook Spiral Bound 100 Carbonless Pages (Original Page Perforated) One Minute Mysteries Conceptual Physical Science Conceptual Exploration Conceptual Integrated Science Concepts and Techniques in Oil and Gas Exploration Exploratory Research in the Social Sciences CONCEPTUAL PHYSICAL SCIENCE EXPLORATIONS Assessment of Mars Science and Mission Priorities Metamaterials Conceptual Physical Science The Dispossessed Conceptual Physics The Scientific Context for Exploration of the Moon CONCEPTUAL PHYSICAL SCIENCE EXPLORATIONS INTERNATIONAL EDITION / LABORATORY. Conceptual Chemistry Conceptual Physical Science, Books a la Carte Edition Conceptual Physics Explorations in Physics Exam Prep for: Laboratory Manual for Conceptual Physical The Order of Time Studyguide for Classroom Management Modeling and Visualization of Complex Systems and Enterprises Practice Book for Conceptual Physical Science Explorations Advanced Building Materials Mastering Physics - For Conceptual Physics Exam Prep for: Conceptual Physical Science Explorations & CPO Focus on Physical Science Exam Prep for: Conceptual Physical Science Explorations & Exam Prep for: Books a la Carte for Conceptual Physical Conceptual Physical Science-explorations The

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Iranian MetaphysicalsConceptual Physical Science ExplorationsExplorations in Mathematical Physics

## **Alfred Wegener**

Conceptual Physics, Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems. Hewitt's text is famous for engaging readers with analogies and imagery from real-world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics. With this strong foundation, readers are better equipped to understand the equations and formulas of physics, and motivated to explore the thought-provoking exercises and fun projects in each chapter. Included in the package is the workbook. Mechanics, Properties of Matter, Heat, Sound, Electricity and Magnetism, Light, Atomic and Nuclear Physics, Relativity. For all readers interested in conceptual physics.

## **Carbon Dioxide Capture and Storage**

### **Microbiology**

Guided by the precept that to understand any phenomenon well, it is necessary to start by looking at it in broad, nonspecialized terms, Robert A Stebbins takes the reader through the process of exploratory research in an easy-to-read style providing the

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student or researcher with a complete reference for carrying out this type of research.

### **The Practice Book for Conceptual Physics: Pearson New International Edition**

Within the Office of Space Science of the National Aeronautics and Space Administration (NASA) special importance is attached to exploration of the planet Mars, because it is the most like Earth of the planets in the solar system and the place where the first detection of extraterrestrial life seems most likely to be made. The failures in 1999 of two NASA missions- Mars Climate Orbiter and Mars Polar Lander-caused the space agency's program of Mars exploration to be systematically rethought, both technologically and scientifically. A new Mars Exploration Program plan (summarized in Appendix A) was announced in October 2000. The Committee on Planetary and Lunar Exploration (COMPLEX), a standing committee of the Space Studies Board of the National Research Council, was asked to examine the scientific content of this new program. This goals of this report are the following: -Review the state of knowledge of the planet Mars, with special emphasis on findings of the most recent Mars missions and related research activities; -Review the most important Mars research opportunities in the immediate future; -Review scientific priorities for the exploration of Mars identified by COMPLEX (and other scientific advisory groups) and their motivation, and consider the degree to which recent discoveries suggest a reordering of

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priorities; and -Assess the congruence between NASA's evolving Mars Exploration Program plan and these recommended priorities, and suggest any adjustments that might be warranted.

### **Conceptual Physical Science, Explorations**

John Suchocki's *Conceptual Chemistry*, Second Edition makes chemistry come alive for the non-science student through an engaging writing style, fun and easy-to-perform experiments, and a multimedia package that is as uniquely integrated as it is extensive. Building on the success of the First Edition, this revised book provides a fresh, insightful, and welcoming look into the concepts of chemistry. Suchocki uses his considerable experience to emphasize a conceptual understanding of our everyday world from the perspective of atoms and molecules. Real-world examples and student activities are woven throughout the text, and calculations are incorporated in select instances where they assist in conceptual understanding. Twelve core chapters cover basic chemical concepts including atomic models, chemical bonding, and chemical reactions. These are followed by seven chapters organized around applied chemistry topics such as nutrition, drugs, agriculture, water resources, the atmosphere, modern materials, and energy sources. Extensive end-of-chapter study materials encourage critical thinking and increase student understanding. The compelling supplemental multimedia package features an unprecedented level of integration with the text,

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including The Chemistry Place Website and Conceptual Chemistry Alive! a 12 CD-ROM set in which the author is available to each student as a personal and portable guest lecturer. The set includes video presentations, animations, a bank of more than 600 new questions, and more.

### **Physics of the Impossible**

### **Lab Notebook Spiral Bound 100 Carbonless Pages (Original Page Perforated)**

### **One Minute Mysteries**

Helps students to: \* Increase their scientific literacy and improve their critical thinking abilities. \* acquire mastery of a diverse subset of scientific concepts. \* develop positive attitudes about science. \* become comfortable reading graphs and interpreting their meaning. \* learn to use computers and other modern technologies with skill and confidence.

### **Conceptual Physical Science**

Teleportation, time machines, force fields, and interstellar space ships—the stuff of science fiction or potentially attainable future technologies? Inspired by the fantastic worlds of Star Trek, Star Wars, and Back to the Future, renowned theoretical physicist and bestselling author Michio Kaku takes an informed,

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serious, and often surprising look at what our current understanding of the universe's physical laws may permit in the near and distant future. Entertaining, informative, and imaginative, *Physics of the Impossible* probes the very limits of human ingenuity and scientific possibility.

### **Conceptual Exploration**

Explains multi-level models of enterprise systems and covers modeling methodology. This book addresses the essential phenomena underlying the overall behaviors of complex systems and enterprises. Understanding these phenomena can enable improving these systems. These phenomena range from physical, behavioral, and organizational, to economic and social, all of which involve significant human components. Specific phenomena of interest and how they are represented depend on the questions of interest and the relevant domains or contexts. *Modeling and Visualization of Complex Systems and Enterprises* examines visualization of phenomena and how understanding the relationships among phenomena can provide the basis for understanding where deeper exploration is warranted. The author also reviews mathematical and computational models, defined very broadly across disciplines, which can enable deeper understanding. Presents a 10 step methodology for addressing questions associated with the design or operation of complex systems and enterprises. Examines six archetypal enterprise problems including two from healthcare, two from urban systems, and one each from financial systems.

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and defense systems Provides an introduction to the nature of complex systems, historical perspectives on complexity and complex adaptive systems, and the evolution of systems practice Modeling and Visualization of Complex Systems and Enterprises is written for graduate students studying system science and engineering and professionals involved in system science and engineering, those involved in complex systems such as healthcare delivery, urban systems, sustainable energy, financial systems, and national security.

### **Conceptual Integrated Science**

### **Concepts and Techniques in Oil and Gas Exploration**

This is the first textbook on attribute exploration, its theory, its algorithms for applications, and some of its many possible generalizations. Attribute exploration is useful for acquiring structured knowledge through an interactive process, by asking queries to an expert. Generalizations that handle incomplete, faulty, or imprecise data are discussed, but the focus lies on knowledge extraction from a reliable information source. The method is based on Formal Concept Analysis, a mathematical theory of concepts and concept hierarchies, and uses its expressive diagrams. The presentation is self-contained. It provides an introduction to Formal Concept Analysis with emphasis on its ability to derive algebraic structures from qualitative data, which can

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be represented in meaningful and precise graphics.

### **Exploratory Research in the Social Sciences**

This collection of papers, which was subjected to strict peer-review by 2 to 4 expert referees, aims to collect together the latest advances in, and applications of, traditional constructional materials, advanced constructional materials and green building materials. It cannot fail to suggest new ideas and strategies to be tried in this field.

## **CONCEPTUAL PHYSICAL SCIENCE EXPLORATIONS**

### **Assessment of Mars Science and Mission Priorities**

Concepts before computation is what this Hewitt text is all about. The text brings physics, chemistry, earth science, and astronomy together in a manner that captivates students' interest. This is serious science in a very readable and student-friendly format. With an emphasis on qualitative analysis, students get a gut feel for the science they're studying. Students will learn to appreciate and differentiate among major scientific ideas rather than reduce them to algebraic problem solving. This sets the foundation for more serious study of the life sciences in subsequent courses.

## **Metamaterials**

### **Conceptual Physical Science**

NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value-this format costs significantly less than a new textbook. Before purchasing, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. Opening the Doors of Science Conceptual Physical Science, Sixth Edition, provides a conceptual overview of basic, essential topics in physics, chemistry, earth science, and astronomy with optional quantitative analyses. The authors focus on concepts before computations. With its clear, friendly writing style, and strong integration of the sciences, this book connects well with all students.

### **The Dispossessed**

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by combining Hewitt's leading conceptual approach with a friendly writing style, strong integration of the sciences, more quantitative coverage, and a wealth of media resources to help professors in class, and students out of class. It provides a conceptual overview of basic, essential topics in physics, chemistry, earth science, and astronomy with optional quantitative coverage.

### Conceptual Physics

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Physics" with MasteringPhysics(R), Twelfth Edition Paul Hewitt integrates a compelling text and the most advanced media to make physics interesting, understandable, and relevant for non-science majors. The Twelfth Edition will delight you with informative and fun Hewitt-Drew-It screencasts, updated content, applications, and new learning activities in MasteringPhysics. Hewitt's text is guided by the principle of "concepts before calculations" is famous for engaging students with analogies and imagery from the real-world that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics. This program presents a better teaching and learning experience--for you. Personalize learning with MasteringPhysics: MasteringPhysics provides you with engaging experiences that coach you through physics with specific wrong-answer feedback, hints, and a huge variety of educationally effective content. Prepare for lecture: NEW 100 Hewitt-Drew-It screencasts, authored and narrated by Paul Hewitt, explain physics concepts through animation and narration. The exciting new Screencasts, accessed through QR codes in the textbook, will enable you to engage with the physics concepts more actively outside of class. Make physics delightful: Relevant and accessible narrative, analogies from real-world situations, and simple representations of the underlying mathematical relationships make physics more appealing. Build a strong conceptual understanding of physics: You will gain a solid understanding of physics through practice and problem solving in the book and in MasteringPhysics.0321908600 / 9780321908605

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### **The Scientific Context for Exploration of the Moon**

Have you ever wondered why the language of modern physics centres on geometry? Or how quantum operators and Dirac brackets work? What a convolution really is? What tensors are all about? Or what field theory and lagrangians are, and why gravity is described as curvature? This book takes you on a tour of the main ideas forming the language of modern mathematical physics. Here you will meet novel approaches to concepts such as determinants and geometry, wave function evolution, statistics, signal processing, and three-dimensional rotations. You will see how the accelerated frames of special relativity tell us about gravity. On the journey, you will discover how tensor notation relates to vector calculus, how differential geometry is built on intuitive concepts, and how variational calculus leads to field theory. You will meet quantum measurement theory, along with Green functions and the art of complex integration, and finally general relativity and cosmology. The book takes a fresh approach to tensor analysis built solely on the metric and vectors, with no need for one-forms. This gives a much more geometrical and intuitive insight into vector and

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tensor calculus, together with general relativity, than do traditional, more abstract methods. Don Koks is a physicist at the Defence Science and Technology Organisation in Adelaide, Australia. His doctorate in quantum cosmology was obtained from the Department of Physics and Mathematical Physics at Adelaide University. Prior work at the University of Auckland specialised in applied accelerator physics, along with pure and applied mathematics.

### **CONCEPTUAL PHYSICAL SCIENCE EXPLORATIONS INTERNATIONAL EDITION /LABORATORY.**

### **Conceptual Chemistry**

### **Conceptual Physical Science, Books a la Carte Edition**

"The author of the theory of continental drift - the direct ancestor of the modern theory of plate tectonics and one of the key scientific concepts of the past century - Wegener also made major contributions to geology, geophysics, astronomy, geodesy, atmospheric physics, meteorology, and glaciology. Remarkably, he completed this pathbreaking work while grappling variously with financial difficulty, war, economic depression, scientific isolation, illness, and injury. He ultimately died of overexertion on a journey to probe the Greenland icecap and calculate its rate of drift.

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Greene places Wegener's upbringing and theoretical advances in earth science in the context of his brilliantly eclectic career, bringing Wegener to life by analyzing his published scientific work, delving into all of his surviving letters and journals, and tracing both his passionate commitment to science and his thrilling experiences as a polar explorer, a military officer during World War I, and a world-record-setting balloonist."--From publisher description.

### **Conceptual Physics**

### **Explorations in Physics**

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. This best-selling introduction to the physical and life sciences emphasizes concepts over computation and treats equations as a guide to thinking so the reader can connect ideas. Conceptual Integrated Science covers physics, chemistry, earth science, astronomy, and biology at a level appropriate for non-science students. The conceptual approach relates science to everyday life, is personal and direct, deemphasizes jargon, and emphasizes central ideas. The conceptual ideas serve as the foundation supporting and integrating all the sciences.

### **Exam Prep for: Laboratory Manual for Conceptual Physical**

## Read Online Conceptual Physical Science Explorations

What do the occult sciences, séances with the souls of the dead, and appeals to saintly powers have to do with rationality? Since the late nineteenth century, modernizing intellectuals, religious leaders, and statesmen in Iran have attempted to curtail many such practices as "superstitious," instead encouraging the development of rational religious sensibilities and dispositions. However, far from diminishing the diverse methods through which Iranians engage with the immaterial realm, these rationalizing processes have multiplied the possibilities for metaphysical experimentation. *The Iranian Metaphysicals* examines these experiments and their transformations over the past century. Drawing on years of ethnographic and archival research, Alireza Doostdar shows that metaphysical experimentation lies at the center of some of the most influential intellectual and religious movements in modern Iran. These forms of exploration have not only produced a plurality of rational orientations toward metaphysical phenomena but have also fundamentally shaped what is understood as orthodox Shi'i Islam, including the forms of Islamic rationality at the heart of projects for building and sustaining an Islamic Republic. Delving into frequently neglected aspects of Iranian spirituality, politics, and intellectual inquiry, *The Iranian Metaphysicals* challenges widely held assumptions about Islam, rationality, and the relationship between science and religion.

### **The Order of Time**

For one- or two-semester physical science survey

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courses for non-science majors. Opening the Doors of Science Conceptual Physical Science, Sixth Edition, provides a conceptual overview of basic, essential topics in physics, chemistry, earth science, and astronomy with optional quantitative analyses. The authors focus on concepts before computations. With its clear, friendly writing style, and strong integration of the sciences, this book connects well with all students. Also available with MasteringPhysics MasteringPhysics™ from Pearson is the leading online teaching and learning system designed to improve results by engaging students before, during, and after class with powerful content. Ensure that students arrive ready to learn by assigning educationally effective content before class, and encourage critical thinking and retention with in-class resources such as Learning Catalytics™. Students can further master concepts after class through traditional homework assignments that provide hints and answer-specific feedback. The Mastering gradebook records scores for all automatically graded assignments while diagnostic tools give instructors access to rich data to assess student understanding and misconceptions. Mastering brings learning full circle by continuously adapting to each student and making learning more personal than ever—before, during, and after class. Note: You are purchasing a standalone product; MasteringPhysics does not come packaged with this content. Students, if interested in purchasing this title with MasteringPhysics, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and MasteringPhysics, search for: 0134060482 /

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### **Studyguide for Classroom Management**

Focused on the idea that the rules of the physical world can be taught using a conceptual approach that emphasizes qualitative analysis, the Hewitt team has created a book that is highly readable, flexible, and hands-on. Thirty-four concisely written chapters allow you to better select topics to match your course and the needs of your readers in a one- or two- semester course. Conceptual Physical Science Explorations, Second Edition presents a clear and engaging introduction to physics, chemistry, astronomy, and earth sciences. The authors use analogies and everyday examples to clarify key concepts and help readers better understand the world around them. The book's consistent, high-quality coverage stimulates active learning with critical thinking exercises, hands-on experiments, review questions, and quantitative problems. Conceptual Physical Science Explorations is less rigorous in coverage and written more simply than Conceptual Physical Science,

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Fourth Edition, and directed primarily to college courses where readers are less well prepared, and in some cases, remedial. The Second Edition features updated content, new Chapter Opening statements, and more. About Science, Newton's First Law of Motion - Inertia, Newton's Second Law of Motion - Force and Acceleration, Newton's Third Law of Motion - Action and Reaction, Momentum, Energy, Gravity, Fluid Mechanics, Heat, Electricity, Magnetism, Waves and Sound, Light and Color, Properties of Light, The Atom, Nuclear Energy, Elements of Chemistry, How Atoms Bond and Molecules Attract, How Chemicals Mix, How Chemicals React, Two Types of Chemical Reactions, Organic Compounds, The Chemistry of Drugs, Nutrition, Rocks and Minerals, Earth's Interior, Plate Tectonics, Earth's Surface Features, Earth History Over Time, Oceans and Atmosphere, Driving Forces of Weather, The Solar System, Stars and Galaxies, The Structure of Space and Time. Intended for those interested in learning the basics of conceptual physical science.

### **Modeling and Visualization of Complex Systems and Enterprises**

IPCC Report on sources, capture, transport, and storage of CO<sub>2</sub>, for researchers, policy-makers and engineers.

### **Practice Book for Conceptual Physical Science Explorations**

This book is filled with computational exercise,

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misconception-busting questions, analogies, and straightforward practice questions and problems that help students “tie it all together.”

### **Advanced Building Materials**

Because of the Moon’s unique place in the evolution of rocky worlds, it is a prime focus of NASA’s space exploration vision. Currently NASA is defining and implementing a series of robotic orbital and landed missions to the Moon as the initial phase of this vision. To realize the benefits of this activity, NASA needs a comprehensive, well-validated, and prioritized set of scientific research objectives. To help establish those objectives, NASA asked the NRC to provide guidance on the scientific challenges and opportunities enabled by sustained robotic and human exploration of the Moon during the period 2008-2023 and beyond. This final report presents a review of the current understanding of the early earth and moon; the identification of key science concepts and goals for moon exploration; an assessment of implementation options; and a set of prioritized lunar science concepts, goals, and recommendations. An interim report was released in September 2006.

### **MasteringPhysics - For Conceptual Physics**

### **Exam Prep for: Conceptual Physical Science Explorations &**

## **CPO Focus on Physical Science**

One of TIME's Ten Best Nonfiction Books of the Decade "Meet the new Stephen Hawking . . . The Order of Time is a dazzling book." --The Sunday Times From the bestselling author of Seven Brief Lessons on Physics, comes a concise, elegant exploration of time. Why do we remember the past and not the future? What does it mean for time to "flow"? Do we exist in time or does time exist in us? In lyric, accessible prose, Carlo Rovelli invites us to consider questions about the nature of time that continue to puzzle physicists and philosophers alike. For most readers this is unfamiliar terrain. We all experience time, but the more scientists learn about it, the more mysterious it remains. We think of it as uniform and universal, moving steadily from past to future, measured by clocks. Rovelli tears down these assumptions one by one, revealing a strange universe where at the most fundamental level time disappears. He explains how the theory of quantum gravity attempts to understand and give meaning to the resulting extreme landscape of this timeless world. Weaving together ideas from philosophy, science and literature, he suggests that our perception of the flow of time depends on our perspective, better understood starting from the structure of our brain and emotions than from the physical universe. Already a bestseller in Italy, and written with the poetic vitality that made Seven Brief Lessons on Physics so appealing, The Order of Time offers a profoundly intelligent, culturally rich, novel appreciation of the mysteries of time.

## **Exam Prep for: Conceptual Physical Science Explorations &**

### **Exam Prep for: Books a la Carte for Conceptual Physical**

This workbook provides 150 practice pages of insightful questions to help students develop an understanding of all the key ideas. It features a user-friendly tone that makes wide use of analogies. It can be used in class to develop concepts, or as an out-of-class tutorial.

## **Conceptual Physical Science-explorations**

An astonishing tale of one man's search for Utopia.

### **The Iranian Metaphysicals**

Leading experts explore the exotic properties and exciting applications of electromagnetic metamaterials. *Metamaterials: Physics and Engineering Explorations* gives readers a clearly written, richly illustrated introduction to the most recent research developments in the area of electromagnetic metamaterials. It explores the fundamental physics, the designs, and the engineering aspects, and points to a myriad of exciting potential applications. The editors, acknowledged leaders in the field of metamaterials, have invited a group of leading researchers to present both their own findings and the full array of state-of-the-art applications for

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antennas, waveguides, devices, and components. Following a brief overview of the history of artificial materials, the publication divides its coverage into two major classes of metamaterials. The first half of the publication examines effective media with single (SNG) and double negative (DNG) properties; the second half examines electromagnetic band gap (EBG) structures. The book further divides each of these classes into their three-dimensional (3D volumetric) and two-dimensional (2D planar or surface) realizations. Examples of each type of metamaterial are presented, and their known and anticipated properties are reviewed. Collectively, *Metamaterials: Physics and Engineering Explorations* presents a review of recent research advances associated with a highly diverse set of electromagnetic metamaterials. Its multifaceted approach offers readers a combination of theoretical, numerical, and experimental perspectives for a better understanding of their behaviors and their potential applications in components, devices, and systems. Extensive reference lists provide opportunities to explore individual topics and classes of metamaterials in greater depth. With full-color illustrations throughout to clarify concepts and help visualize actual results, this book provides a dynamic, user-friendly resource for students, engineers, physicists, and other researchers in the areas of electromagnetic materials, microwaves, millimeter waves, and optics. It equips newcomers with a basic understanding of metamaterials and their potential applications. Advanced researchers will benefit from thought-provoking perspectives that will deepen their knowledge and lead them to new areas

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of investigation.

### **Conceptual Physical Science Explorations**

" Challenges readers of all ages to become super sleuths. These fun mysteries are each one minute long and have a unique twist--you need to tap into your mathematical wisdom to solve them"--From publisher description.

### **Explorations in Mathematical Physics**

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780131707504 .

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