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used routinely in treatment planning, and sophisticated methods are available for overlaying anatomical images with computer generated multidimensional treatment plans. Treatment procedures such as conformal and intensity-modulated radiation therapy, high dose-rate brachytherapy, and image-guided and image-guided and adaptive radiation therapy have become standard operating procedures in radiation therapy clinics around the world. Calibration protocols have been extensively revised, and quality assurance in radiation therapy has become a subject in itself. These procedures, and others that represent state-of-the-art radiation therapy including quality

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engineering, are discussed at length in this new edition. The 4th edition has an increased number of chapters (20 compared to 16) and includes new topics of interest to the practicing radiation oncologist and medical physicist:- The chapter on diagnostic imaging has been expanded to include molecular imaging.- A new chapter has been added on proton radiotherapy.- A new chapter has been added on radiation oncology informatics.- A new chapter has been added on quality and safety engineering. - A new chapter on dynamic delivery techniques, explaining the standard (e.g., IMRT) and new treatment techniques (e.g., VMAT). - The treatment planning and

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brachytherapy chapters omit a detailed explanation of historical techniques that no one uses clinically any longer, in favor of including a new focus on modern computer-based techniques in widespread clinical use. - The Problem sections in each chapter have been expanded to include designated ?easy? question designed to give a broad understanding of a topic, and ?hard? questions that would be designed to help the student understand the details of a topic. This book argues that the traditional image of Feyerabend is erroneous and that, contrary to common belief, he was a great admirer of science. It shows how Feyerabend presented a vision of science that

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represented how science really works. Besides giving a theoretical framework based on Feyerabend's philosophy of science, the book offers criteria that can help readers to evaluate and understand research reported in important international science education journals, with respect to Feyerabend's epistemological anarchism. The book includes an evaluation of general chemistry and physics textbooks. Most science curricula and textbooks provide the following advice to students: Do not allow theories in contradiction with observations, and all scientific theories must be formulated inductively based on experimental facts. Feyerabend questioned this

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widely prevalent premise of science education in most parts of the world, and in contrast gave the following advice: Scientists can accept a hypothesis despite experimental evidence to the contrary and scientific theories are not always consistent with all the experimental data. No wonder Feyerabend became a controversial philosopher and was considered to be against rationalism and anti-science. Recent research in philosophy of science, however, has shown that most of Feyerabend's philosophical ideas are in agreement with recent trends in the 21st century. Of the 120 articles from science education journals, evaluated in this book only 9% recognized that Feyerabend

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was presenting a plurality of perspectives based on how science really works. Furthermore, it has been shown that Feyerabend could even be considered as a perspectival realist. Among other aspects, Feyerabend emphasized that in order to look for breakthroughs in science one does not have to be complacent about the truth of the theories but rather has to look for opportunities to “break rules” or “violate categories.” Mansoor Niaz carefully analyses references to Feyerabend in the literature and displays the importance of Feyerabend’s philosophy in analyzing, historical episodes. Niaz shows through this remarkable book a deep

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understanding to the essence of science. - Calvin Kalman, Concordia University, Canada In this book Mansoor Niaz explores the antecedents, context and features of Feyerabend's work and offers a more-nuanced understanding, then reviews and considers its reception in the science education and philosophy of science literature. This is a valuable contribution to scholarship about Feyerabend, with the potential to inform further research as well as science education practice.- David Geelan, Griffith University, Australia

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E-Study Guide For: Principles of Physics: A Calculus-Based Text,

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4th Edition by Raymond A. Serway,
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and comprehensive coverage of all the essential principles of physics that undergraduate diagnostic radiography students need to know in order to operate diagnostic equipment more easily, effectively and safely. It also covers the basic physics that therapeutic radiographers require in order to provide optimal treatment to their patients. "Aims" at start of each chapter encapsulate chapter contents, and

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Education

Principles of Physics

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concepts in the minds of the students and increase their confidence in the subject. Many boxed features are used to separate the examples from the text and to highlight some important physical outcomes and rules. The appendices are chosen in such a way that all basic simple conversion factors, basic rules and formulas, basic rules of differentiation and integration can be viewed quickly, helping student to understand the elementary mathematical steps used for solving the examples and exercises. Instructors teaching form this textbook will be able to gain online access to the solutions

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manual which provides step-by-step solutions to all exercises contained in the book. The solutions manual also contains many tips, coloured illustrations, and explanations on how the solutions were derived.

One of the field's most respected introductory texts, Modern Physics provides a deep exploration of fundamental theory and experimentation. Appropriate for second-year undergraduate science and engineering students, this esteemed text presents a comprehensive introduction to the concepts and methods that form the basis of modern physics,

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including examinations of relativity, quantum physics, statistical physics, nuclear physics, high energy physics, astrophysics, and cosmology. A balanced pedagogical approach examines major concepts first from a historical perspective, then through a modern lens using relevant experimental evidence and discussion of recent developments in the field. The emphasis on the interrelationship of principles and methods provides continuity, creating an accessible “storyline” for students to follow. Extensive pedagogical tools aid in comprehension, encouraging students to think

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Ideal for use with any introductory physics text, Loyd's PHYSICS LABORATORY MANUAL is suitable for either calculus- or algebra/trigonometry-based physics courses. Designed to help students demonstrate a physical principle and learn techniques of careful measurement, Loyd's PHYSICS LABORATORY MANUAL also emphasizes conceptual understanding and includes a

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thorough discussion of physical theory to help students see the connection between the lab and the lecture. Available with InfoTrac Student Collections <http://gocengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Science for Geography and Environment introduces students (and academics who need to brush up their knowledge!) to scientific principles in a lively and accessible way, allowing them to proceed through the text at their own pace. The book is structured

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which Raymond A. Serway and John W. Jewett, Jr. earned their reputations. Likewise, PHYSICS FOR SCIENTISTS AND ENGINEERS, will continue to accompany Enhanced WebAssign in the most integrated text-technology offering available today. In an environment where new Physics texts have appeared with challenging and novel means to teach students, this book exceeds all modern standards of education from the most solid foundation in the Physics market today.

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Now in paperback, this book provides an overview of the physics of condensed matter systems. Assuming

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This updated and expanded version of the second edition explains the physical principles underlying the behaviour of glaciers and ice sheets. The text has been revised in order to keep pace with the extensive developments which have occurred since 1981. A new chapter, of major interest, concentrates on the deformation of subglacial till. The book concludes with a chapter on information regarding past climate and atmospheric composition obtainable from ice cores. Building upon Serway and Jewetta's solid foundation in the modern classic text, *Physics for Scientists and Engineers*, this first Asia-Pacific edition of *Physics* is a practical and engaging introduction to

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Physics. Using international and local case studies and worked examples to add to the concise language and high quality artwork, this new regional edition further engages students and highlights the relevance of this discipline to their learning and lives.

This book is an entry-level undergraduate physics textbook, which is suitable for physics, pre-engineering, pre-medical, pre-law, biotechnology or general science students. The approach adopted in this text places emphasis on simplifying abstract concepts by using short derivations of important equations as well as introducing problem-solving strategies that will help the reader to learn quickly to apply simple concepts to solve complex problems in general physics. To address any deficiency in mathematical knowledge needed to succeed in a physics course, Chapter Zero reviews important

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