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Nuclear and Particle Physics-Brian R. Martin 2004-08-28 This text is an accessible, balanced introduction to nuclear and particle physics, providing an overview of the theoretical and experimental aspects of the subject.

Nuclear Physics: Principles and Applications-Liley 2006-09 Market; Desc: This text is aimed at undergraduates in science and engineering who require knowledge of the fundamental principles of nuclear physics and its applications. It includes a wide range of problems, and provides many worked examples and exercises.

Nuclear Physics: A Very Short Introduction-Frank Close 2015-07-23 This book gives an account of how this area of physics has progressed, including the recognition of how heavy nuclei are built up in the cores of stars and in supernovae, the identification of alpha and gamma, and the development of quantum chromodynamics (QCD). Exploring key concepts such as the stability of different configurations of protons and neutrons in nuclei, Frank Close shows how nuclear physics helps the physics of the stars and Earth itself.

Problems and Solutions on Atomic, Nuclear and Particle Physics-Yong-Koo Lim 2000-03-04 This book, part of the seven-volume series Major American Universities PhD Qualifying Questions and Solutions contains detailed solutions to 483 questions/problems on atomic, molecular, nuclear and particle physics as well as experimental methodology. The problems are of a standard appropriate to advanced undergraduate and graduate syllabus, and blend together two objectives—understanding of physical principles and practical application. The volume is an invaluable supplement to textbooks.

Intermediate Physics for Medicine and Biology-Russell K. Hobbie 1988 This text is specifically designed to provide students of medicine and biology with an introduction to physics that is relevant to the study of the body and the physics of medical applications. It is aimed at undergraduates in science and engineering who require knowledge of the fundamental principles of nuclear physics and its applications. It includes a wide range of problems, and provides many worked examples and exercises.

Introductory Nuclear Physics David Halliday 1966

Modern Physics, Loose-Leaf-Kenneth S. Krane 2013-06-18 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 extended text presents a comprehensive introduction to the field the basis of modern physics, including examinations of relativity, quantum physics, statistical physics, nuclear physics, high-energy physics, astrophysics, and cosmology. A balanced pedagogical approach explores major concepts from several historical perspectives, 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 aids in comprehension, encouraging students to think critically and strengthen their ability to apply conceptual knowledge to practical applications. Numerous exercises and worked examples reinforce fundamental principles.

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Fundamentals of Nuclear Science and Engineering Second Edition. Kenneth S. L Polli 2007-09-07 Since the publication of the bestselling first edition, there have also been many other developments, especially in the areas of reactor technologies, and national security which have stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering, this book provides the succinct description of the essential elements of nuclear science and technology in a manner that is accessible to engineers and teachers in the field. The book presents a clear, concise, and comprehensive introduction to the theory, experiment, and applications of modern physics. This eagerly awaited second edition puts the modern back into modern physics courses. Pedagogical features throughout the text focus the reader on the core concepts and theories while offering ample, more advanced sections, examples, and cutting-edge applications to suit a variety of teaching styles. Critically acclaimed for its lucid style, in the second edition, Randy Harris applies the same insights into recent developments in physics, engineering, and technology. Physics student-friendly approach, including the fundamentals of energy, particle, and nuclear physics, radiological behavior, the biological effects of radiation effects on the body and the environment, and the behavior of waves, Bound States: Simple Cases, Unbound States: Oscillations, and Particle-Wave Propagation, Quantum Mechanics in Three Dimensions and The Hydrogen Atom, Spin and Atomic Physics, Statistical Mechanics, Boiling: Molecules and Solids, Nuclear Physics, Fundamental Particles and Interactions. For all readers interested in modern physics.

Radiation Detection and Measurement—Glenn R. Knoll 1989 This new edition of the methods and instrumentation used in the detection of radiation has been revised and updated to reflect recent advances. It covers modern engineering practice, provides useful design information and contains an up-to-date review of the literature.

Concepts of Nuclear Physics—Bernhard L. Cohen 1984

Computer Solutions in Physics—Steven Van Wyk 2008 With the great progress in numerical methods and the speed of the modern personal computer, if you can formulate a calculation, then you can likely obtain a numerical solution. The solution of a practical physics problem typically consists of formulating the problem as a mathematical model, solving the mathematical model, and interpreting the solution. The computer can be an essential tool in solving physics problems. The mathematics needed to solve physics problems is usually elementary, requiring no basic knowledge of quantum mechanics. This book presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. The book is divided into two parts: the first part covers the basic concepts of nuclear physics and the second part covers actual applications of nuclear science to modern society. The second edition includes revised and updated information throughout the text. A new feature to aid the student is a set of interactive simulations with help support from the National Science Foundation. Icons in the text indicate the problems designed for use with the software. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.
the stars, and into the life forms that originate on the planets. Moreover, the energy we depend on for life originates from nuclear reactions that occur at the center of the Sun. Synthesis of the elements and nuclear energy production in stars are the topics of nuclear astrophysics, which is the subject of this book. It presents nuclear structure and reactions, thermonuclear reaction rates, experimental nuclear methods, and nucleosynthesis in detail. These topics are discussed in a coherent way, enabling the reader to grasp their interconnections intuitively. The book serves both as a textbook for advanced undergraduate and graduate students, with worked examples and end-of-chapter exercises, but also as a reference book for use by researchers working in the field of nuclear astrophysics.

Nuclear Sizes and Structure  - Roger C. Barrett 1977

Student Solutions Manual to accompany Radiation Detection and Measurement, 4e - Glenn F. Knoll 2012-03-20 This is the resource that engineers turn to in the study of radiation detection. The fourth edition takes into account the technical developments that continue to enhance the instruments and techniques available for the detection and spectroscopy of ionizing radiation. New coverage is presented on ROC curves, micropattern gas detectors, new sensors for scintillation light, and the excess noise factor. Revised discussions are also included on TLDs and cryogenic spectrometers, radiation backgrounds, and the VME standard. Engineers will gain a strong understanding of the field with this updated book.