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The volume is an invaluable supplement to textbooks.* **Basic Ideas and Concepts in Nuclear Physics An Introductory Approach, Third Edition** CRC Press *The third edition of a classic book, Basic Ideas and Concepts in Nuclear Physics sets out in a clear and consistent manner the various elements of nuclear physics. Divided into four main parts: the constituents and characteristics of the nucleus; nuclear interactions, including the strong, weak and electromagnetic forces; an introduction to nuclear structure; and recent developments in nuclear structure research, the book delivers a balanced account of both theoretical and experimental nuclear physics for students studying the topic. In addition to the numerous revisions and updates to the previous edition to capture the developments in the subject over the last five years, the book contains a new chapter on the structure and stability of very light nuclei. As with the previous edition the author retains a comprehensive set of problems and the book contains an extensive and well-chosen set of diagrams. He keeps the book up to date with recent experimental and theoretical research, provides mathematical details as and when necessary, and illustrates topics with box features containing examples of recent experimental and theoretical research results.* **McGraw-Hill Encyclopedia of Science and Technology An International Reference Work Variational Methods in Nuclear Reactor Physics** Elsevier *Nuclear Science and Technology, Volume 10: Variational Methods in Nuclear Reactor Physics presents the mathematical methods of a variational origin that are useful in obtaining approximate solutions to science and engineering problems. This book is composed of five chapters and begins with a discussion on the variation principles for physical systems described by both inhomogeneous and homogeneous equations to develop a generalized perturbation theory. Chapter 2 deals with the applications of variational estimates and generalized perturbation theory to neutron transport problems. Chapter 3 covers the variation principles of the Lagrangian form that are constructed for a general, linear- time-dependent process and for the specific case of the P1 neutron kinetics equations. Chapter 4 presents the general procedure for the variational derivation of synthesis approximations and their applications to problems in reactor physics. This chapter also examines the relationship of the spatial synthesis and finite-element method and a hybrid method that combines features of both methods. Chapter 5 describes the relationship of variation theory with the Hamilton-Jacobi theory and with the optimization theories of the maximum principle and dynamic programming. Nuclear physicists and researchers will find this text invaluable.* **Basic Concepts in Nuclear and Particle Physics** Amazon *The book 'Basic Concepts in Nuclear and Particle Physics' in very simple language, so as to make it understandable to a physics student. 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The Preparation Of The More Commonly Used Radioisotopes And Their Uses As Tracers In Research, Medicine, Agriculture And Industry Are Described. The Book Also Covers The Elements Of Radiation And Radiochemistry Illustrated With Additional Examples. The Section On Mossbauer Effect Is Retained. The Chapter On The Detection And Measurement Of Radioactivity Is Revised To Include Thermo Luminescence And Cerenkov Detectors.* *New Additions In The Present Edition Include A Whole Chapter On The Separation And Uses Of Stable And Radioactive Isotopes Needed In Bulk Amounts In The Atomic Age. How An Extension Of Basic Principles Of Nuclear Magnetic Resonance (Nmr) Has Led To The Sophisticated Magnetic Resonance Imaging (Mri), The Latest Diagnostic Tool In Medicine Is Discussed Lucidly. Another Chapter Is Added Entitled A Roll-Call Of Elementary Particles , Wherein The Baffling Properties Of Quarks And Gluons, With Their Esoteric Flavours, Colours, Strangeness And Charm Are Reviewed Showing How Their Scientific Characteristics Tend To Merge In Philosophy.* *The Book Meets The Needs Of Honours And Post-Graduate Students Offering Nuclear, Radiation And Radiochemistry.* **Nuclear Science Series Report Introductory Nuclear Physics** John Wiley & Sons **Journal of Heat Transfer Fundamentals of Nuclear Science and Engineering Second Edition** CRC Press *Since the publication of the bestselling first edition, there have been numerous advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering, this book presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition— A chapter on radiation detection by Douglas McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications Flexible organization of material that allows for quick reference This edition also takes an in-depth look at particle accelerators, nuclear fusion reactions and devices, and nuclear technology in medical diagnostics and treatment. In addition, the author discusses applications such as the direct conversion of nuclear energy into electricity. The breadth of coverage is unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of Fundamentals of Nuclear Science and Engineering is a key reference for any physicists or engineer.* **Books in Series Original, Reprinted, In-print, and Out-of-print Books, Published Or Distributed in the U.S. in Popular, Scholarly and Professional Series** New York : R. R. Bowker **Science Abstracts Physics abstracts. Section A. Transactions of the American Nuclear Society Introduction to Nuclear and Particle Physics** World Scientific *' The original edition of Introduction to Nuclear and Particle Physics was used with great success for single-semester courses on nuclear and particle physics offered by American and Canadian universities at the undergraduate level. It was also translated into German, and used overseas. Being less formal but well-written, this book is a good vehicle for learning the more intuitive rather than formal aspects of the subject. It is therefore of value to scientists with a minimal background in quantum mechanics, but is sufficiently substantive to have been recommended for graduate students interested in the fields covered in the text. In the second edition, the material begins with an exceptionally clear development of Rutherford scattering and, in the four following chapters, discusses sundry phenomenological issues concerning nuclear properties and structure, and general applications of radioactivity and of the nuclear force. This is followed by two chapters dealing with interactions of particles in matter, and how these characteristics are used to detect and identify such particles. A chapter on accelerators rounds out the experimental aspects of the field. The final seven chapters deal with elementary-particle phenomena, both before and after the realization of the Standard Model. This is interspersed with discussion of symmetries in classical physics and in the quantum domain, bringing into full focus the issues concerning CP violation, isotopic spin, and other symmetries. The final three chapters are devoted to the Standard Model and to possibly new physics beyond it, emphasizing unification of forces, supersymmetry, and other exciting areas of current research. The book contains several appendices on related subjects, such as special relativity, the nature of symmetry groups, etc. There are also many examples and problems in the text that are of value in gauging the reader's understanding of the material. Contents: Rutherford Scattering Nuclear Phenomenology Nuclear Models Nuclear Radiation Applications of Nuclear Physics Energy Deposition in Media Particle Detection Accelerators Properties and Interactions of Elementary Particles Symmetries Discrete Transformations Neutral Kaons, Oscillations, and CP Violation Formulation of the Standard Model Standard Model and Confrontation with Data Beyond the Standard Model Readership: Advanced undergraduates and researchers in nuclear and particle physics. Keywords: Rutherford Scattering; Nuclear Properties; Nuclear Structure; Elementary Particles; Sub-Structure of Particles; Particle Detectors; Interactions in Matter; The Standard Model; Symmetries of Nature; Theories of Nuclear and Particle Structure; Radioactivity; Supersymmetry Reviews: "The book by Das and Ferbel is particularly suited as a basis for a one-semester course on both subjects since it contains a very concise introduction to those topics and I like very much the outline and contents of this book." Kay Konigsmann Universität Freiburg, Germany "The book provides an introduction to the subject very well suited for the introductory course for physics majors. Presentation is very clear and nicely balances the issues of nuclear and particle physics, exposes both theoretical ideas and modern experimental methods. Presentation is also very economic and one can cover most of the book in a one-semester course. In the second edition, the authors updated the contents to reflect the very recent developments in the theory and experiment. They managed to do it without substantial increase of the size of the book. I used the first edition several times to teach the course 'Introduction to Subatomic Physics' and I am looking forward to use this new edition to teach the course next year." Professor Mark Strikman Pennsylvania State University, USA "This book can be recommended to those who find elementary particle physics of absorbing interest." Contemporary Physics ' **Nuclear Forces Introduction to Theoretical Nuclear Physics Nuclear Physics Proceedings, supplements. B Advances in Nuclear Science and Technology** Academic Press *Advances in Nuclear Science and Technology, Volume 1 provides an authoritative, complete, coherent, and critical review of the nuclear industry. This book covers a variety of topics, including nuclear power stations, graft polymerization, diffusion in uranium alloys, and conventional power plants. Organized into seven chapters, this volume begins with an overview of the three stages of the operation of a power plant, either nuclear or conventionally fueled. This text then examines the major problems that face the successful development of commercial nuclear power plants. Other chapters consider the synthesis of graft copolymers by radiation-induced graft polymerization. This book discusses as well the processes of technical importance in the nuclear field, such as the bonding of fuel materials to cladding, or the release of fission gases from fuel elements. The final chapter deals with the effects of nuclear radiation in causing chemical changes in matter. This book is a valuable resource for scientists and engineers.* **International Series of Monographs on Nuclear Energy Reactor design physics. 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