

Atomic Nuclear Physics 2nd Edition

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SMITH OBRIEN

Fundamentals of Nuclear Science and Engineering Second Edition World Scientific

This manual gives the solutions to all problems given in the book by A Das and T Ferbel. The problems are discussed in full detail, to help both the student and teacher get a better grasp of the issues brought up in the text and in the associated problems.

Introduction To Nuclear And Particle Physics (2nd Edition) CRC Press

Nobel Laureate's lucid treatment of kinetic theory of gases, elementary particles, nuclear atom, wave-corpuscles, atomic structure and spectral lines, much more. Over 40 appendices, bibliography.

Atomic and Nuclear Physics Oxford University Press

This is the second edition of an established textbook on nuclear physics for senior undergraduates and postgraduate students. Professor Heyde has taken the opportunity to make the book more useful for students and teachers by adding an extensive set of problems. To bring the book up to date, he has revised several chapters and added a new chapter on nuclei at the extremes of stability. The book has evolved from a course taught by the author and gives a balanced account of both theoretical and experimental nuclear physics. It is also ideal for researchers wanting an accessible introduction to the subject. Emphasis is given to depth of treatment rather than skimming over topics and there are many diagrams as well as box inserts illustrating particular topics.

Introduction to Nuclear Physics CRC Press

After the death of Dr. Littlefield it was decided that I should undertake the revision of the whole of Atomic and Nuclear Physics: an Introduction for the third edition, and it was soon apparent that major changes were necessary. I am confident that these changes would have had Dr. Littlefield's approval. The prime consideration for the present edition has been to modernize at a minimum cost. As much as possible of the second edition has therefore been retained, but where changes have been made they have been fairly drastic. Thus the chapters on fine structure, wave mechanics, the vector model of the atom, Pauli's principle and the Zeeman effect have been completely restructured. The chapters on nuclear models, cosmic rays, fusion systems and fundamental particles have been brought up to date while a new chapter on charm and the latest ideas on quarks has been included. It is hoped that the presentation of the last named will give readers a feeling that physics research can be full of adventure and surprises.

Atomic and Nuclear Physics John Wiley & Sons

"The textbook itself is the culmination of the authors' many years of teaching and research in atomic physics, nuclear and particle physics, and modern physics. It is also a crystallization of their intense passion and strong interest in the history of physics and the philosophy of science. Together with the solution manual which presents solutions to many end-of-chapter problems in the textbook, they are a valuable resource to the instructors and students working in the modern atomic field."--Publisher's website.

Nuclear Physics John Wiley & Sons

This fifth edition of the book is the thoroughly revised work in the different shape. The fundamental objectives of the book remain the same as in the previous editions - to present the concepts in a clear and more interesting manner than other existing texts keeping the mathematics as simple as possible and to present the concepts and techniques through clear diagrams. Almost in all the chapters new topics based on new theories and techniques developed during the last two and half decades have been added at the appropriate places.

Nuclear Physics S. Chand Publishing

A recipient of the PROSE 2017 Honorable Mention in Chemistry & Physics, *Radioactivity: Introduction and History, From the Quantum to Quarks, Second Edition* provides a greatly expanded overview of radioactivity from natural and artificial sources on earth, radiation of cosmic origins, and an introduction to the atom and its nucleus. The book also includes historical accounts of the lives, works, and major achievements of many famous pioneers and Nobel Laureates from 1895 to the present. These leaders in the field have contributed to our knowledge of the science of the atom, its nucleus, nuclear decay, and subatomic particles that are part of our current knowledge of the structure of matter, including the role of quarks, leptons, and the bosons (force carriers). Users will find a completely revised and greatly expanded text that includes all new material that further describes the significant historical events on the topic dating from the 1950s to the present. Provides a detailed account of nuclear radiation - its origin and properties, the atom, its nucleus, and subatomic particles including quarks, leptons, and force carriers (bosons) Includes fascinating biographies of the pioneers in the field, including captivating anecdotes and insights Presents meticulous accounts of experiments and calculations used by pioneers to confirm their findings

Atomic and Nuclear Physics Open Road Media

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.

Nuclear Physics Springer Science & Business Media

Appropriate for intermediate or advanced courses in modern or nuclear physics, this text provides treatment of modern, atomic and nuclear physics, including X-ray absorption and magnetic resonance theory. It blends historical and current developments and application techniques in research.

Essential Nuclear Medicine Physics World Scientific Publishing Company

This book describes atomic physics and the latest advances in this field at a level suitable for fourth year undergraduates. The numerous examples of the modern applications of atomic physics include Bose-Einstein condensation of atoms, matter-wave interferometry and quantum computing with trapped ions.

Atoms and Photons and Quanta, Oh My! John Wiley & Sons

A clear and concise introduction to nuclear physics suitable for a core undergraduate physics course.

Nuclear and Particle Physics Cambridge University Press

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Basic Ideas and Concepts in Nuclear Physics Springer

Covers all the phenomenological and experimental data on nuclear physics and demonstrates the latest experimental developments that can be obtained. Introduces modern theories of fundamental processes, in particular the electroweak standard model, without using the sophisticated underlying quantum field theoretical tools. Incorporates all major present applications of nuclear physics at a level that is both understandable by a majority of physicists and scientists of many other fields, and useful as a first introduction for students who intend to pursue in the domain.

X-rays in Atomic and Nuclear Physics John Wiley & Sons

This book deals with the methods of X-ray production at a level which is accessible to advanced undergraduates and researchers who use X-rays. It also discusses the fundamentals of these physical properties from an experimental viewpoint which is not covered in more specialised texts.

Atomic Physics Elsevier

The second edition of this highly successful, original text discusses the production and characterization of X-rays. The book focuses on the fundamentals of X-ray physical properties from an experimental viewpoint. SI units are used throughout and the material has been updated thoroughly to reflect the changes in the use of X-rays and recent developments in the field. The text begins with a survey of work conducted before 1945. Continuous and characteristic spectra are discussed, followed by a description of techniques used in their study. Further studies of production, absorption and scattering in atomic and nuclear processes are described, including a completely new chapter on X-ray production by protons, alpha-particles and ions.

Introduction to Atomic and Nuclear Physics Springer Science & Business Media

Dr. S. B. Patel is Professor of Physics, Bombay University. He has taught physics for more than twenty years at the B. Sc. and M.Sc. levels at Ramnarain Ruia College, Bombay. He earned his Ph.D. in Nuclear Physics from Tifr-Bombay University in 1976. Later he was involved in post-doctoral research at the Lawrence Berkeley Laboratory, California. His field of specialization is nuclear spectroscopy.

Introductory Nuclear Physics Morgan & Claypool Publishers

An accessible introduction to nuclear and particle physics with equal coverage of both topics, this text covers all the standard topics in particle and nuclear physics thoroughly and provides a few extras, including chapters on experimental methods; applications of nuclear physics including fission, fusion and biomedical applications; and unsolved problems for the future. It includes basic concepts and theory combined with current and future applications. An excellent resource for physics and astronomy undergraduates in higher-level courses, this text also serves well as a general reference for graduate studies.

Atomic Physics McGraw-Hill Science, Engineering & Mathematics

This book was written to provide students who have limited backgrounds in the physical sciences and math with an accessible textbook on nuclear science. Expanding on the foundation of the bestselling first edition, *Introduction to Nuclear Science, Second Edition* provides a clear and complete introduction to nuclear chemistry and physics, from basic concepts to nuclear power and medical applications. Incorporating suggestions from professors using this book for their courses, the author has created a new text that is approximately 60 percent larger and more comprehensive

and flexible than the first. New to This Edition: Thorough review of nuclear forensics, radiology, gamma cameras, and decay through proton or neutron emission More detailed explanations of the necessary mathematics A chapter on dosimetry of radiation fields Expanded discussion of applications, introduced earlier in the text More in-depth coverage of nuclear reactors, including a new chapter examining more reactor types, their safety systems, and recent accidents such as the one in Fukushima, Japan Additional end-of-chapter problems throughout the book A new appendix with nuclear data for all nuclides mentioned This book covers energetics, nuclear stability, radioactive decay, nuclear reactions, interactions of radiation with matter, detection methods, and safety measures, including monitoring and regulations. It explores applications in medicine, power generation, food safety, waste, and weapons. This updated, expanded edition provides a much-needed textbook and resource for undergraduate students in science and engineering as well as those studying nuclear medicine and radiation therapy. It also serves as a general introduction to nuclear science for all interested readers.

Atomic and Nuclear Physics CRC Press

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Nuclear Physics Springer

In This edition of the book, only minor changes have been made in some chapters. In the chapter on Nuclear Models (Ch. IX), the discussions on the individual particle model has been shortened to some extent and the relevant reference have been added where the readers can get the details.