

Frank Close

NUCLEAR PHYSICS

A Very Short Introduction

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continuing right now *Handbook of Nuclear Physics* Isao Tanihata,Hiroshi Toki,Toshitaka Kajino,2023-09-04 This handbook is a comprehensive systematic source of modern nuclear physics It aims to summarize experimental and theoretical discoveries and an understanding of unstable nuclei and their exotic structures which were opened up by the development of radioactive ion RI beam in the late 1980s The handbook comprises three major parts In the first part the experiments and measured facts are well organized and reviewed The second part summarizes recognized theories to explain the experimental facts introduced in the first part Reflecting recent synergistic progress involving both experiment and theory the chapters both parts are mutually related The last part focuses on cosmo nuclear physics one of the mainstream subjects in modern nuclear physics Those comprehensive topics are presented concisely Supported by introductory reviews all chapters are designed to present their topics in a manner accessible to readers at the graduate level The book therefore serves as a valuable source for beginners as well helping them to learn modern nuclear physics Discovering Thermodynamics Jeffrey Moran,Joseph Kantrowitz,2011-08-15 Introduces thermodynamics presents a history of the field and discusses the advances in thermometry *Dialectical Materialism and Quantum Physics* Hanoeh Gutfreund,Juergen Renn,2025-11-04 This is the story of David Bohm s hitherto unpublished notes uncovered from a series of lectures given in Israel in 1957 to a group of Marxist physicists from the Hashomer Hatsair young guard movement The notes explore quantum theory and dialectical materialism as well as shedding light on the intellectual and emotional resources of his persistent rebellion against orthodoxies in science The discussion places his lectures notes in a wider historical scientific and philosophical context and traces Bohm s intellectual development from an early attempt to better understand the Copenhagen interpretation of quantum mechanics to his elaboration of an alternative causal interpretation based on the notion of hidden variables As the lecture notes strikingly illustrate dialectical materialism played a fundamental role for the further development of his understanding of quantum mechanics Bohm placed the notions of infinity of nature and the unity of opposites in the center of his natural philosophy drawing from the works of Hegel Marx Engels and Lenin The authors also examine Bohm s legacy in the history of quantum mechanics and his contribution to preparing the second quantum revolution Bohm s engagement with dialectical materialism and his role as a dissident to the orthodox interpretation of quantum mechanics were pivotal in bringing about the novel insights and technologies associated with this second quantum revolution During the 1960s Bohm developed a growing interest in the nature of consciousness and engaged with the philosopher Jiddu Krishnamurti In spite of a seemingly fundamental break with earlier philosophical positions this new phase in Bohm s intellectual odyssey was not completely unrelated to his fascination with and deep understanding of Hegel s philosophy which the lecture notes amply document for the first time **American Book Publishing Record** ,2003

CERN Courier European Organization for Nuclear Research,2009 This journal is devoted to the latest research on physics publishing articles on everything from elementary particle behavior to black holes and the history of the universe

Nuclear Power Maxwell Irvine, 2011-05-26 With the World desperate to find energy sources that do not emit carbon gasses nuclear power is back on the agenda and in the news following the increasing cost of fossil fuels and concerns about the security of their future supply However the term nuclear power causes anxiety in many people and there is confusion concerning the nature and extent of the associated risks Here Maxwell Irvine presents a concise introduction to the development of nuclear physics leading up to the emergence of the nuclear power industry He discusses the nature of nuclear energy and deals with various aspects of public concern considering the risks of nuclear safety the cost of its development and waste disposal Dispelling some of the widespread confusion about nuclear energy Irvine considers the relevance of nuclear power the potential of nuclear fusion and encourages informed debate about its potential ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable **Nuclear Physics, Neutron Physics And Nuclear Energy - Proceedings The IX International School** W Andrejtscheff, D Elenkov, 1990-07-04 The properties of the harmonic oscillator with random frequency or and random damping formed the content of the first edition The second edition includes hundreds of publications on this subject since 2005 The noisy oscillator continues to be the subject of intensive studies in physics chemistry biology and social sciences The new and the latest type of a stochastic oscillator has also been considered namely an oscillator with random mass Such model describes among other phenomena Brownian motion with adhesion where the molecules of the surrounding medium not only randomly collide but also stick to the Brownian particle for some random time thereby changing its mass This edition contains two new chapters eight new sections and an expanded bibliography A wide group of researchers students and teachers will benefit from this book Isotopes Rob Ellam, 2016-05-12 An isotope is a variant form of a chemical element containing a different number of neutrons in its nucleus Most elements exist as several isotopes Many are stable while others are radioactive and some may only exist fleetingly before decaying into other elements In this Very Short Introduction Rob Ellam explains how isotopes have proved enormously important across all the sciences and in archaeology Radioactive isotopes may be familiar from their use in nuclear weapons nuclear power and in medicine as well as in carbon dating They have been central to establishing the age of the Earth and the origins of the solar system Combining previous and new research Ellam provides an overview of the nature of stable and radioactive isotopes and considers their wide range of modern applications ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable Structure Of Hadrons And Hadronic Matter: International Summer School Olaf Scholten, J H Koch, 1991-07-22 This is an introductory

textbook on amorphous magnets for students and scientists in physics and materials science Basic physical arguments are given and experimental data are systematically collected and discussed The book deals mostly with the qualitative and semiquantitative aspects of materials that can be deduced in a relatively simple way from the fundamental equations of solid state physics

Progress in Particle and Nuclear Physics Amand Faessler, 1978 Vols 1 6 8 9 11 13 consist of Proceedings of the International School of Nuclear Physics **Particle Physics**, The Nature of Hadrons and Nuclei by Electron Scattering Amand Faessler, 2016-06-06 Progress in Particle and Nuclear Physics Volume 24 The Nature of Hadrons and Nuclei by Electron Scattering covers the proceedings of the International School of Nuclear Physics The book presents 24 papers that discuss topics concerning hadrons and nuclei The coverage of the text includes electron scattering and few nucleon systems occupation probabilities of shell model orbitals and the response function of nuclear matter The book also tackles the internal spin structure of the nucleon parity violating electron scattering and hard pion exchange currents and the backward deuteron disintegration The text will be of great use to scientists involved in hadron and nucleon research

Modern Atomic And Nuclear Physics (Revised Edition) Joseph H Hamilton, Fujia Yang, 2010-01-29 The book 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 The book gives students a broad perspective of the current understandings of the basic structures of matter from atoms nucleus to leptons quarks and gluons along with the essential introductory quantum mechanics and special relativity Fundamentals aside the book retrospects the historical development and examines the challenging future directions of nuclear and particle physics Interwoven within the content are up to date examples of very recent developments and future plans that show in detail how the techniques and ideas of atomic nuclear and particle physics have been used and are being used to solve important problems in basic and applied areas of physics chemistry and biology that are closely linked to the prevailing major societal problems in medicine energy resources new custom made materials and environmental pollution as well as areas that encroach the broad cultural and historical interest The uncertain path of success and failure opportunities seized and missed and the axiom of probability and scientists intuition in the unfolding human drama of scientific discovery are vividly presented Throughout the highly perceptive book readers especially the students are encouraged to reflect on problems and ask questions

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