

Geometrical Relationships Of Macroscopic Nuclear Physics

Acta Physica Polonica 2003

Theory of Nuclear Fission Hans J. Krappe 2012-02-04 This book brings together various aspects of the nuclear fission phenomenon discovered by Hahn, Strassmann and Meitner almost 70 years ago. Beginning with an historical introduction the authors present various models to describe the fission process of hot nuclei as well as the spontaneous fission of cold nuclei and their isomers. The role of transport coefficients, like inertia and friction in fission dynamics is discussed. The effect of the nuclear shell structure on the fission probability and the mass and kinetic energy distributions of the fission fragments is presented. The fusion-fission process leading to the synthesis of new isotopes including super-heavy elements is described. The book will thus be useful for theoretical and experimental physicists, as well as for graduate and PhD students.

Nuclear and Atomic Physics with the Accelerators of the Nineties Ziemowid Sujkowski 1991

Proceedings of the International Workshop Fission Dynamics of Atomic Clusters and Nuclei Jo?o da Provid?ncia 2001 In this volume, the main results of the last sixty years of research in nuclear fission are summarized, showing how ideas advanced from the beginning, for nuclei have also found useful applications in the new area of atomic clusters. The present status of the physics of fission is discussed in depth, and perspectives for further research are outlined. Contents: Fission Studies with Large Detector Arrays (J K Hwang et al.); Fission, Decay of Nuclei and the Extension of the Periodic System (W Greiner); Neutron Halo of Fissile Nuclei (V I Serov et al.); Decay Channels of Hot Nuclei and Hot Metallic Clusters (P FrAbrich); Cluster Radioactivity (A A Ogloblin et al.); Static and Dynamical Properties of Simple Metal Clusters: Analogies with Atomic Nuclei (J A Alonso et al.); The Role of Exotica in Studying Nuclear Fission (F F Karpeshin); Particle-Accompanied Fission (M Mutterer et al.); Quaternary Fission (F Gannenwein et al.); Bremsstrahlung Emission in Alpha-Decay (D M Brink); A Model for Particle Induced Fission (F B Malik); Fusion-Fission Reactions of Heaviest Nuclei. Synthesis of Superheavy Elements with $Z=114$ and $Z=116$ (Yu Ts Oganessian et al.); and other papers. Readership: Students and researchers in atomic, molecular and nuclear physics."

Microcluster Physics Satoru Sugano 2013-03-07 A lucid account of the fundamental physics of all types of microclusters, outlining the dynamics and static properties of this new phase of matter between a solid and a molecule. Since the book's first publication, the field of microclusters has experienced surprising developments, which are reviewed in this new edition: The determination of atomic structure, spontaneous alloying, super-shell, fission, fragmentation, evaporation, magnetism, fullerenes, nanotubes, atomic structure of large silicon clusters, superfluidity of a He cluster, water clusters in liquid, electron correlation and optimization of the geometry, and scattering.

International Conference on Exotic Nuclei and Atomic Masses Michel Saint Simon 1995

Atomic and Nuclear Clusters G.S. Anagnostatos 2012-12-06 The Second International Conference on Atomic and Nuclear Clusters '93 was organized in a joint effort by the 'Demokritos' National Center for Scientific Research, G. S. Anagnostatos (representing the atomic physics) and the Hahn-Meitner-Institut, W. von Oertzen (representing the nuclear physics). The subject of clusters - small aggregates of particles - is a topic of primary interest in both atomic and nuclear physics, and also in other fields like in the case of quark-structure of baryons and in cosmology. The interplay between atomic and nuclear physics is a particularly fascinating one because many concepts are common to both fields (quantal effects, shells, geometric structures, collective modes, fission etc.) This conference was the second after the first one organized by Professor M. Brenner in Abo (Finland) in 1991. The general atmosphere of a joint forum for atomic and nuclear physicists was very fruitful and thus the decision to have a sequence of such meetings has been taken. A third one is planned in St. Petersburg (Russia) with Professor K. Gridnev (St. Petersburg) and Mme. Professor C. Bnkhignac (Orsay) as Chairpersons. The conference site, Fin\ on Santorini island (Greece), was a wonderful choice for a conference. It is small, which helps to keep people concentrated in a smaller community, it has a perfect convention center, the P. Nomikos Conference Center, and a very beautiful landscape formed by a large volcanic crater.

Introductory Nuclear Physics Peter Edward Hodgson 1997 This book is a comprehensive balanced and up-to-date introduction to nuclear physics that describes the experiments made to study nuclear reactions and nuclear structure, and the theories and models that have been developed to understand the properties of nucleic and their interactions. After a historical introduction, there are chapters on nuclear accelerators and detectors, elementary particles, nuclear forces, nuclear reaction theory, nuclear models, nuclear and heavy ion reactions, nuclear astrophysics and nuclear reactors. While primarily aimed at undergraduates it will also serve as a reference for graduate students and professional nuclear physicists.

Nuclear and Particle Physics Mira Dey 2012-12-06 "Nuclear and Particle Physics" both have been very distinct subjects for decades, and are now developing more and more interfaces. Thus, hitherto typical methods of particle physics are adopted by nuclear physics. The authors try to build bridges between both fields and give nuclear physicists a thorough introduction from the fundamentals of particle physics to current research in this field. Contents: - Introduction - Preliminaries and Simple Models - Currents, Anomaly, Solitons, and Fractional Fermions - More on Chiral Symmetry - Introduction to Instantons - Relevance of Instantons - Chiral Perturbation Theory - The Topological and Non-Topological Soliton Model - QCD Sum Rules - References

Heavy Elements and Related New Phenomena Walter Greiner 1999-06-17 This book reviews recent developments in the field of superheavy elements and the related phenomena of fission, cluster radioactivity, and drip line physics. Both the experimental and theoretical aspects are dealt with in detail. For the production of new elements in the laboratory, the process of cold compound nucleus formation is found to be most favorable both theoretically and experimentally. However, experimentally, hot fusion of nuclei has also been used. Both the physical and chemical methods of synthesizing new elements are discussed. The theoretical approaches considered here are those of the quantum-mechanical fragmentation theory, the self-consistent Hartree-Fock theory, and the relativistic mean field theory. Fission, a process inverse to the fusion of two nuclei, is also observed to be most favourably a cold phenomenon. Other important results are bi-modal fission and high n-multiplicity fission, which leads to the hyperdeformed scission mode. Cluster radioactivity is discussed both as a heavy cluster emission process and as super-asymmetric fission. The theory as well as the present experimental status are reviewed. Physics at drip lines is interesting not only for their structural properties but also for their use in the fusion of two nuclei; both aspects are discussed. Contents: New Developments in the Study of Superheavy Elements: Discovery of the Heaviest Elements (G M?nzenberg & S Hofmann) Chemical Properties of the Transactinide Elements (J V Kratz) Two-centre Shell Model in Cold Synthesis of Superheavy Elements (R K Gupta & W Greiner) New Developments in Fission Physics: Cold Fission (H-G Clerc) High Neutron Multiplicity and Cold Binary and Ternary Spontaneous Fission of ^{252}Cf (A V Ramayya et al.) Quantum Mechanical Fragmentation Theory for Cold Distribution of Masses and Charges in Fissioning Nuclei and Nuclei Formed in Heavy Ion Reactions (R K Gupta & W Greiner) New Cluster Radioactivity and the Super-asymmetric Fission: Measurements on Cluster Radioactivity — Present Experimental Status (R Bonetti & A Guglielmetti) Numerical and Analytical Super-asymmetric Fission Model for Exotic Cluster Decays (D N Poenaru & W Greiner) Collective Description of Exotic Cluster Decays and Shell Structure Effects of Parent/Daughter Nuclei (R K Gupta) Extensions in New Directions: Nuclear Astrophysics, Physics of Nuclei Near Drip-lines and Strange Matter: Nuclear Astrophysics at the Beginning of the Twenty-first Century (R N Boyd) Two- and Three-Body Properties of Halo Nuclei (I J Thompson & J S Vaagen) Neutron Drip-line Nuclei: Their Halo Structure, Synthesis, and Decay via Cluster Emissions (R K Gupta et al.) and other papers Readership: Nuclear physicists. Keywords: Superheavy Elements; Cold Fusion Theory and Experiments; Cold Multinucleon Transfer; Hot Fusion; Chemical Properties; Cold Binary and Ternary Fission; Fusion-Fission; Cluster Radioactivity and Its Fine Structure; Drip-Lines; Halo Nuclei; Quantum Mechanical Fragmentation; Skyrme-Hartree-Fock and Relativistic Mean-Field Theories; Strange-Matter; Nuclear Astrophysics

International Conference on Exotic Nuclei and Atomic Masses 1995

Large Clusters of Atoms and Molecules T.P. Martin 2012-12-06 Proceedings of the NATO Advanced Study Institute, Erice, Sicily, Italy, June 19-29, 1995

The Nuclear Shell Model Kris L.G. Heyde 2012-12-06 This book is aimed at enabling the reader to obtain a working knowledge of the nuclear shell model and to understand nuclear structure within the framework of the shell model. Attention is concentrated on a coherent, self-contained exposition of the main ideas behind the model with ample illustrations to give an idea beyond formal exposition of the concepts. Since this text grew out of a course taught for advanced undergraduate and first-year graduate students in theoretical nuclear physics, the accents are on a detailed exposition of the material with step-by-step derivations rather than on a superficial description of a large number of topics. In this sense, the book differs from a number of books on theoretical nuclear physics by narrowing the subject to only the nuclear shell model. Most of the expressions used in many of the existing books treating the nuclear shell model are derived here in more detail, in a practitioner's way. Due to frequent student requests I have expanded of detail in order to take away the typical phrase ". . . after some the level simple and straightforward algebra one finds . . .". The material could probably be treated in a one-year course (implying going through the problem sets and setting up a number of numerical studies by using the provided computer codes). The book is essentially self-contained but requires an introductory course on quantum mechanics and nuclear physics on a more general level.

Nuclear Fission Patrick Talou 2023-01-01 This book provides advanced students and postdocs, as well as current practitioners of any field of nuclear physics involving fission an understanding of the nuclear fission process. Key topics covered are: fission cross sections, fission fragment yields, neutron and gamma emission from fission and key nuclear technologies and applications where fission plays an important role. It addresses both fundamental aspects of the fission process and fission-based technologies including combining quantitative and microscopic modeling.

Nucleon Correlations in Nuclei Anton N. Antonov 2012-12-06 In recent years there has been growing interest in the nucleon-nucleon correlations inside nuclei. In many respects the motions of the nucleons can be very well described by an overall mean field, so that the motion of each nucleon is governed by the mean field due to all the other nucleons. This concept underlies the Fermi-gas, Hartree-Fock and shell models and has enabled a range of nuclear properties to be calculated, often to surprising accuracy. It gradually became clear, however, that these mean-field models are limited by the effects due to the very strong interactions between the nucleons that occur at short distances; these are the short-range correlations. They are responsible for instance for the high-momentum components in the nucleon momentum distribution, and prevent the simultaneous description of the nuclear density and momentum distributions by the same mean field. It thus becomes necessary to develop methods for including the effects of nucleon correlations in nuclei, and these are the main subject of this book. Some related problems of nuclear structure were discussed in an earlier book by the same authors: *Nucleon Momentum and Density Distributions in Nuclei* (Clarendon Press, Oxford, 1988). The main aim of that book was to study the effects of nucleon-nucleon correlations, both short-range and tensor, on the nucleon momentum distribution, which is particularly sensitive to these correlations, and on the nucleon density distribution.

An Introduction to Nuclear Fission Walid Younes 2021-11-15 This hands-on textbook introduces physics and nuclear engineering students to the experimental and theoretical aspects of fission physics for research and applications through worked examples and problem sets. The study of nuclear fission is currently undergoing a renaissance. Recent advances in the field create the opportunity to develop more reliable models of fission predictability and to supply measurements and data to critical applications including nuclear energy, national security and counter-proliferation, and medical isotope production. An Introduction to Nuclear Fission provides foundational knowledge for the next generation of researchers to contribute to nuclear fission physics.

The Nuclear Fission Process Cyriel Wagemans 1991-09-20 This text provides a comprehensive review of knowledge regarding nuclear fission from both the purely scientific and practical points of view. Topics discussed include fission barriers, spontaneous fission, neutron-induced fission cross-sections, photon- and electron-induced fission, charged particle induced fission fragment angular momentum and ternary fission. The characteristics of other reaction products are also discussed. Contributed articles from several distinguished nuclear scientists guarantee adequate treatment of some of the specialized research fields included in the text. Intended primarily as an introduction to nuclear fission for graduate students, this book will also provide useful information for nuclear physicists involved with research or teaching.

Physics and Chemistry of Fission H. Mårten 1992 Contents: Fission Fragment Distributions: Experiment and Theory -- Fission Barriers, Fission Channels, Fission Valleys; Fragment Charge Distributions in Low Energy Fission; Double-Energy, Double-Velocity Measurement of Fission Fragments from Thermal Neutron Induced Fission; Odd-Even Neutron and Proton Effects in Low Energy Nuclear Fission; Energy Balance in MeV Neutron Induced Fission; Formation of the Fragment Mass and Energy Distributions in Fission of Nuclei Lighter than Radium; A New Approach to Determine Elemental Yield, Charge Polarisation and Odd-even Effects in Fission; Fundamental Fission Problems -- Dissipation and Friction in Nuclear Fission; Influence of Diabaticity on Fission Fragment Mass Asymmetry; Space Parity Violation in Nuclear Fission.

Romanian Journal of Physics 2000

Clustering Phenomena in Atoms and Nuclei Marten Brenner 2013-06-29 In these days of specialization it is important to bring together physicists working in diverse areas to exchange and share their ideas and excitement. This leads to cross-fertilization of ideas, and it enriches, as in biological systems, a specialized field with new strength, development and direction derived from another area. Although this might be an uncommon thing, it is an important step in our understanding of the physical world around us, which is, after all, the main purpose of physics. The seed for this conference was really sowed when one of us (MB) and Mr. Manngård showed some α -scattering data at backward angles to FBM one summer about four years ago. That occasion led to a long research collaboration between the Abo Akademi physicists and other scientists in several countries. The actual idea to explore the possibility of holding a conference, however, crystallized in the summer of 1989 during a visit of FBM to Abo Akademi. The final decision to organize a conference was made after MB visited Professor Ben Mottelson in Copenhagen and Professor Anagnostatos in Athens. At this point it was recognized that there are similarities as well as differences between clustering phenomena in nuclei and systems consisting of atoms. It was therefore conjectured that it could be very stimulating to bring together these groups to exchange their ideas and to learn from each other's fields. A conference along these lines, we hoped, would contribute to an increased mutual understanding.

American Journal of Physics 1988

A Langevin Equation Description of Dynamic Nuclear Deformation Neil Lucien Roeth 1992

High Energy Physics Index 1989

Quantization of Fields with Constraints Dmitri Gitman 2012-12-06 Gauge field theories underlie all models now used in elementary particle physics. These theories refer to the class of singular theories which are also theories with constraints. The quantization of singular theories remains one of the key problems of quantum field theory and is being intensively discussed in the literature. This book is an attempt to fill the need for a comprehensive analysis of this problem, which has not heretofore been met by the available monographs and reviews. The main topics are canonical quantization and the path integral method. In addition, the Lagrangian BRST quantization is completely described, for the first time in a monograph. The book also presents a number of original results obtained by the authors, in particular, a complete description of the physical sector of an arbitrary gauge theory, quantization of singular theories with higher theories with time-dependent constraints, and correct derivatives, quantization of canonical quantization of theories of a relativistic point-like particle. As a general illustration we present quantization of field theories such as electrodynamics, Yang-Mills theory, and gravity. It should be noted that this monograph is aimed not only at giving the reader the rules of quantization according to the principle "if you do it this way, it will be good", but also at presenting strong arguments based on the modern interpretation of the classical and quantum theories which show that these methods are the natural, if not the only possible ones.

Geometrical Relationships of Macroscopic Nuclear Physics Rainer W. Hasse 2012-12-06 The aim of this book is to provide a single reference source for the wealth of geometrical formulae and relationships that have proven useful in the description of atomic nuclei and nuclear processes. While many of the sections may be useful to students and instructors it is not a text book but rather a reference book for experimentalists and theoreticians working in this field. In addition the authors have avoided critical assessment of the material presented except, of course, by variations in emphasis. The whole field of macroscopic (or Liquid Drop Model) nuclear physics has its origins in such early works as [Weizsacker 35] and [Bohr

39]. It continued to grow because of its success in explaining collective nuclear excitations [Bohr 52] and fission (see the series of papers culminating in [Cohen 62]). These developments correspond to the first maximum in the histogram below, showing the distribution by year of the articles cited in our Bibliography. After the Liquid Drop Model had been worked out in some detail the development of the Strutinsky approach [Strutinsky 68] (which associates single particle contributions to the binding energy with the shape of the nucleus) gave new life to the field. The growth of interest in heavy-ion reaction studies has also contributed.

Physics Briefs 1994

Modern Nuclear Chemistry Walter D. Loveland 2017-03-21 Written by established experts in the field, this book features in-depth discussions of proven scientific principles, current trends, and applications of nuclear chemistry to the sciences and engineering. • Provides up-to-date coverage of the latest research and examines the theoretical and practical aspects of nuclear and radiochemistry • Presents the basic physical principles of nuclear and radiochemistry in a succinct fashion, requiring no basic knowledge of quantum mechanics • Adds discussion of math tools and simulations to demonstrate various phenomena, new chapters on Nuclear Medicine, Nuclear Forensics and Particle Physics, and updates to all other chapters • Includes additional in-chapter sample problems with solutions to help students • Reviews of 1st edition: "... an authoritative, comprehensive but succinct, state-of-the-art textbook ..." (The Chemical Educator) and "...an excellent resource for libraries and laboratories supporting programs requiring familiarity with nuclear processes ..." (CHOICE)

Progress of Time-Dependent Nuclear Reaction Theory Yoritaka Iwata 2019-07-03 This book is a compilation of the latest theoretical methods for treating models in nuclear reactions. Initial chapters in this volume explain different aspects of time-dependent nuclear density functional theory, such as numerical calculations, density constrained models, multinucleon transfer reactions, and superfluid time dependent density functional theory. In addition, the volume also presents chapters covering other topics in nuclear physics, such as quantum molecular dynamics, cluster models in stable and unstable nuclei, chain structure theory in light nuclei, many-body systems and more. The volume is intended as a guidebook for graduate students and researchers to understand recent theories used in applied nuclear particle physics and astrophysics.

Handbook of Nuclear Physics Isao Tanihata 2023-10-06 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.

Handbook for Calculations of Nuclear Reaction Data, RIPL-2 International Atomic Energy Agency 2006 The practical use of such nuclear model codes requires a considerable numerical input that describes the properties of the nuclei and the interactions involved. Experts have used a variety of different methods and input data sets, often developed over many years in their own laboratories. Many of these input databases are poorly or not at all documented, and are not always available for other users. With the trend towards reduced funding for nuclear data evaluations, there is a real threat that the immense amount of accumulated knowledge of nuclear data input parameters and associated calculations may be compromised or even lost for future applications. Therefore, the IAEA has undertaken an extensive coordinated effort to develop a library of evaluated and tested nuclear-model input parameters: RIPL-2.--Publisher's description.

Collective Motion and Phase Transitions in Nuclear Systems A. A. Raduta 2007 This volume contains the invited contributions that were presented at the Predeal International Summer School in Nuclear Physics 2006. It covers the recent achievements in the fields of nuclear structure, double beta decay, nuclear multifragmentation, kaon and dilepton production in heavy ion collisions, and the quark-gluon plasma. The treatment is both theoretical and experimental, with emphasis on the collective aspects and related phase transitions. The papers are authored by many leading researchers in the field."

Advances in Nuclear Physics J.W. Negele 2012-12-06 The two comprehensive reviews in this volume address two fundamental problems that have been of long-standing interest and are the focus of current effort in contemporary nuclear physics: exploring experimentally the density distributions of constituents within the nucleus and understanding nuclear structure and interactions in terms of hadronic degrees of freedom. One of the major goals of experimental probes of atomic nuclei has been to discover the spatial distribution of the constituents within the nucleus. As the energy and specificity of probes have increased over the years, the degree of spatial resolution and ability to select specific charge, current, spin, and isospin densities have correspondingly increased. In the first chapter, Batty, Friedman, Gils, and Rebel provide a thorough review of what has been learned about nuclear density distributions using electrons, muons, nucleons, antinucleons, pions, alpha particles, and kaons as probes. This current understanding, and the limitations thereof, are crucial in framing the questions that motivate the next generation of experimental facilities to study atomic nuclei with electromagnetic and hadronic probes. The second chapter, by Machleidt, reviews our current understanding of nuclear forces and structure in terms of hadronic degrees of freedom, that is, in terms of mesons and nucleons. Such an understanding in terms of hadronic variables is crucial for two reasons. First, since effective hadronic theories are quite successful in describing a broad range of phenomena in low-energy nuclear physics, and there are clear experimental signatures of meson exchange currents in nuclei, we must understand their foundations.

The Skyrme Model Vladimir G. Makhankov 2012-12-06 The December 1988 issue of the International Journal of Modern Physics A is dedicated to the memory of Tony Hilton Royle Skyrme. It contains an informative account of his life by Dalitz and Aitchison's reconstruction of a talk by Skyrme on the origin of the Skyrme model. From these pages, we learn that Tony Skyrme was born in England in December 1922. He grew up in that country during a period of increasing economic and political turbulence in Europe and elsewhere. In 1943, after Cambridge, he joined the British war effort in making the atomic bomb. He was associated with military projects throughout the war years and began his career as an academic theoretical physicist only in 1946. During 1946-61, he was associated with Cambridge, Birmingham and Harwell and was engaged in wide-ranging investigations in nuclear physics. It was this research which eventually culminated in his studies of nonlinear field theories and his remarkable proposals for the description of the nucleon as a chiral soliton. In his talk, Skyrme described the reasons behind his extraordinary suggestions, which when first made must have seemed bizarre. According to him, ideas of this sort go back many decades and occur in the work of Sir William Thomson, who later became Lord Kelvin. Skyrme had heard of Kelvin in his youth.

Relativistic Electronic Structure Theory - Fundamentals 2002-11-22 The first volume of this two part series is concerned with the fundamental aspects of relativistic quantum theory, outlining the enormous progress made in the last twenty years in this field. The aim was to create a book such that researchers who become interested in this exciting new field find it useful as a textbook, and do not have to rely on a rather large number of specialized papers published in this area. • No title is currently available that deals with new developments in relativistic quantum electronic structure theory • Interesting and relevant to graduate students in chemistry and physics as well as to all researchers in the field of quantum chemistry • As treatment of heavy elements becomes more important, there will be a constant demand for this title

Nuclear Models Walter Greiner 2012-12-06 Theoretical physics has become a many-faceted science. For the young student it is difficult enough to cope with the overwhelming amount of new scientific material that has to be learned, let alone to obtain an overview of the entire field, which ranges from mechanics through electrodynamics, quantum mechanics, field theory, nuclear and heavy-ion science, statistical mechanics, thermodynamics, and solid state theory to elementary-particle physics. And this knowledge should be acquired in just 8-10 semesters during which, in addition, a Diploma or Master's thesis has to be worked on or examinations prepared for. All this can be achieved only if the university teachers help to introduce the student to the new disciplines as early on as possible, in order to create interest and excitement that in turn set free essential new energy. Naturally, all inessential material must simply be eliminated. At the Johann Wolfgang Goethe University in Frankfurt we therefore confront

the student with theoretical physics immediately in the first semester. Theoretical Mechanics I and II, Electrodynamics, and Quantum Mechanics I - an Introduction are the basic courses during the first two years. These lectures are supplemented with many mathematical explanations and much support material. After the fourth semester of studies, graduate work begins and Quantum Mechanics II - Symmetries, Statistical Mechanics and Thermodynamics, Relativistic Quantum Mechanics, Quantum Electrodynamics, the Gauge Theory of Weak Interactions, and Quantum Chromodynamics are obligatory.

The Physics of Warm Nuclei Helmut Hofmann 2008-04-17 This book offers a comprehensive survey of basic elements of nuclear dynamics at low energies and discusses similarities to mesoscopic systems. It addresses systems with finite excitations of their internal degrees of freedom, so that their collective motion exhibits features typical for transport processes in small and isolated systems. The importance of quantum aspects is examined with respect to both the microscopic damping mechanism and the nature of the transport equations. The latter must account for the fact that the collective motion is self-sustained. This implies highly nonlinear couplings between internal and collective degrees of freedom — different to assumptions made in treatments known in the literature. A critical discussion of the use of thermal concepts is presented. The book can be considered self-contained. It presents existing models, theories and theoretical tools, both from nuclear physics and other fields, which are relevant to an understanding of the observed physical phenomena.

Structure and Properties of Atomic Nanoclusters Julio A. Alonso 2012 Atomic clusters are aggregates of atoms containing a few to several thousand atoms. Due to the small size of these pieces of matter, the properties of atomic clusters in general are different from those of the corresponding material in the macroscopic bulk phase. This monograph presents the main developments of atomic clusters and the current status of the field. The book treats different types of clusters with very different properties: clusters in which the atoms or molecules are tied by weak van der Waals interactions, metallic clusters, clusters of ionic materials, and network clusters made of typical covalent elements. It includes methods of experimental cluster synthesis as well as the structural, electronic, thermodynamic and magnetic properties of clusters, covering both experiments and the theoretical work that has led to our present understanding of the different properties of clusters. The question of assembling nanoclusters to form solids with new properties is also considered. Having an adequate knowledge of the properties of clusters can be of great help to any scientist working with objects of nanometric size. On the other hand, nanoclusters are themselves potentially important in fields like catalysis and nanomedicine.

Dynamical Features Of Nuclei And Finite Fermi Systems - Proceedings Of The International Workshop Vinas X 1994-07-05

Relativistic Aspects Of Nuclear Physics - Proceedings Of The 5th Workshop Takeshi Kodama 1998-11-20 This is a collection of review articles and more specialized papers on the main issues of early universe physics. Both theoretical and experimental fields of research are dealt with.

The Neutron

Geometrical Relationships Of Macroscopic Nuclear Physics

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