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Atoms and molecules. Volumes I-III of Relativistic Theory of Atoms and Molecules constitute the only available bibliography on related calculations. In Volume III, 3792 new references covering 1951-1989 are added to the database. The material is characterized by an analysis of the respective papers. The volume gives the user a comprehensive bibliography on relativistic atomic and molecular calculations, including studies on the Dirac equation and related solid-state work.

Advances in Nuclear Physics 30:2014-03 The purpose of this special issue is to present an up-to-date survey of basic and applied aspects of nuclear physics. The articles reflect the most recent research and development in a wide range of fields, such as nuclear structure, nuclear reactions, and applications of nuclear physics. The papers cover theoretical and experimental results, as well as applications of nuclear physics in various fields, including medicine, energy, and materials science. The issue is divided into two parts: theoretical aspects and experimental results. The theoretical part includes topics such as nuclear structure, nuclear reactions, and astrophysics. The experimental results section covers various experimental techniques and their applications. The articles are written by leading experts in the field and provide a comprehensive overview of the current state of nuclear physics research.
Relativistic Density Functional for Nuclear Structure - Jie Meng 2016-01-11

This book aims to provide a detailed introduction to the state-of-the-art covariant density functional theory, which follows the Lorentz invariance from the very beginning and is able to describe nuclear many-body quantum systems microscopically and self-consistently. Covariant density functional theory was introduced in nuclear physics in the 1970s and has since been developed and used to describe the diversity of nuclear properties and phenomena with great success. In order to provide an advanced and updated textbook of covariant density functional theory for graduate students and nuclear physics researchers, this book summarizes the enormous amount of material that has accumulated in the field of covariant density functional theory over the last few decades as well as the latest developments in this area. Moreover, the book contains enough details for readers to follow the formalism and theoretical results, and provides exhaustive references to explore the research literature. Contents: Concept of Covariant Density Functional Theory (P. Ring) Relativistic Mean-Field Theory (J Meng, P Ring and P W Zhao) Relativistic Mean Field Description of Exotic Nuclei (J Meng, P Ring and S G Zhou) Relativistic Hartree–Fock–Bogoliubov Theory: Ground States and Excitations (W H Long, J Meng and N Van Giai) Superheavy Nuclei and Fusion Barriers (B N Lu, J Zhao, S G Zhao and S G Zhou) Relativistic Symmetries in Nuclear Single-Particle Spectra (J Y Guo, H Z Liang, J Meng and S G Zhou) Relativistic Approaches (K Ragno and J M Yao) Rotating Nuclei: From Ground State to the Extremes of Spin and Deformation (A V Alماzov) Nuclear Symmetries (J Meng, S G Zhao and P W Zhao) Small Amplitude Motion (N Paar and Y Niu) Nuclear Shell Structure and Response with Quasiparticle–Vibration Coupling (E Litvinova and P Ring) Beyond the Relativistic Mean-Field Approximation — Collective Correlations (Z P Li, T Niki, ´D Vetemar and J M Yao) Heavy Element in Astrophysical Nucleosynthesis (B H Sun and Z M Niu) Relativistic Density Functional Theory for Finite Nuclei and Neutron Stars (P Piekarewicz) Relativistic Versus Non-Relativistic Mean Field (P-G Reinhard) Readability: Graduate students in nuclear physics, nuclear physicists, theoretical physicists interested in the study of quantum many-body problems. Key Features: This book focuses on the covariant version of density functional theory, summarizes the latest developments as well as the enormous amount of material that has accumulated over the last few decades, and provides a comprehensive overview of its development and applications for nuclear structure. This book contains enough details for a beginner in nuclear physics to follow the formalism and theoretical results, and provides exhaustive references to explore the research literature. The authors include all the experts in this field including many world-leading scientists from China, Europe, Japan, and United States. Keywords: Covariant Density Functional Theory; Relativistic Mean-Field; Pairing Correlations; Exotic Nuclei; Hartree–Fock–Bogoliubov Theory; Relativistic Symmetries; Superheavy Nuclei; Fusion; Hypernuclei; Well-Deformed and Superdeformed Rotational Excitation; Electric and Magnetic Rotation; Collective Excitations; Small Amplitude Motion; Quasiparticle–Vibration Coupling; Beyond Mean-Field Approximation; Astrophysical Nucleosynthesis; Neutron Star.