

Computational Methods in Condensed Matter: Electronic Structure

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Computational Methods in Condensed Matter: Electronic Structure A.A. Katsnelson, V.S. Stepanyuk, A. Szasz, O.V.

Farberovich, 1992-03-02 Blurb Contents This current and comprehensive treatment of the physics of small amplitude waves in hot magnetized plasmas provides a thorough update of the author's classic Theory of Plasma Waves. New topics include quasi-linear theory, inhomogeneous plasmas, collisions, absolute and convective instability, and mode conversion. Valuable for graduates and advanced undergraduates and an indispensable reference work for researchers in plasmas, controlled fusion, and space science.

Electronic Structure Calculations for Solids and Molecules Jorge José Kohanoff, 2014-05-14 This textbook for graduate students in physics and chemistry describes the theoretical approaches and computational techniques for studying the behavior of electrons. The first part covers the theoretical methods, including both density functional theory and Hartree-Fock theory, and the latter part discusses the different computational methods.

Electronic Structure Calculations for Solids and Molecules Jorge Kohanoff, 2006-06-29 Electronic structure problems are studied in condensed matter physics and theoretical chemistry to provide important insights into the properties of matter. This 2006 graduate textbook describes the main theoretical approaches and computational techniques, from the simplest approximations to the most sophisticated methods. It starts with a detailed description of the various theoretical approaches to calculating the electronic structure of solids and molecules, including density functional theory and chemical methods based on Hartree-Fock theory. The basic approximations are thoroughly discussed, and an in-depth overview of recent advances and alternative approaches in DFT is given. The second part discusses the different practical methods used to solve the electronic structure problem computationally, for both DFT and Hartree-Fock approaches. Adopting a unique and open approach, this textbook is aimed at graduate students in physics and chemistry and is intended to improve communication between these communities. It also serves as a reference for researchers entering the field.

Electronic Structure Richard M. Martin, 2004-04-08 The study of the electronic structure of materials is at a momentous stage with the emergence of computational methods and theoretical approaches. Many properties of materials can now be determined directly from the fundamental equations for the electrons, providing insights into critical problems in physics, chemistry, and materials science. This book provides a unified exposition of the basic theory and methods of electronic structure, together with instructive examples of practical computational methods and real-world applications. Appropriate for both graduate students and practising scientists, this book describes the approach most widely used today: density functional theory, with emphasis upon understanding the ideas, practical methods, and limitations. Many references are provided to original papers, pertinent reviews, and widely available books. Included in each chapter is a short list of the most relevant references and a set of exercises that reveal salient points and challenge the reader.

Electronic Structure Calculations on Graphics Processing Units Ross C. Walker, Andreas W. Goetz, 2016-02-16 Electronic Structure Calculations on Graphics Processing Units From Quantum Chemistry to

Condensed Matter Physics provides an overview of computing on graphics processing units GPUs a brief introduction to GPU programming and the latest examples of code developments and applications for the most widely used electronic structure methods The book covers all commonly used basis sets including localized Gaussian and Slater type basis functions plane waves wavelets and real space grid based approaches The chapters expose details on the calculation of two electron integrals exchange correlation quadrature Fock matrix formation solution of the self consistent field equations calculation of nuclear gradients to obtain forces and methods to treat excited states within DFT Other chapters focus on semiempirical and correlated wave function methods including density fitted second order Møller Plesset perturbation theory and both iterative and perturbative single and multireference coupled cluster methods Electronic Structure Calculations on Graphics Processing Units From Quantum Chemistry to Condensed Matter Physics presents an accessible overview of the field for graduate students and senior researchers of theoretical and computational chemistry condensed matter physics and materials science as well as software developers looking for an entry point into the realm of GPU and hybrid GPU CPU programming for electronic structure calculations [Electronic Structure](#) Richard M. Martin, 2004-04-08 An important graduate textbook in condensed matter physics by highly regarded physicist **Computer Simulations Of Molecules And Condensed Matter: From Electronic Structures To Molecular Dynamics** Xin-zheng Li, Enge Wang, 2018-01-18 This book provides a relatively complete introduction to the methods used in computational condensed matter A wide range of electronic structure theories are introduced including traditional quantum chemistry methods density functional theory many body perturbation theory and more Molecular dynamics simulations are also discussed with extensions to enhanced sampling and free energy calculation techniques including umbrella sampling meta dynamics integrated tempering sampling etc As a further extension beyond the standard Born Oppenheimer molecular dynamics some simulation techniques for the description of quantum nuclear effects are also covered based on Feynman's path integral representation of quantum mechanics The book aims to help beginning graduate students to set up a framework of the concepts they should know before tackling the physical chemical problems they will face in their research *Theoretical and Computational Methods in Mineral Physics* Renata M. Wentzcovitch, Lars Stixrude, 2018-12-17 Volume 71 of Reviews in Mineralogy and Geochemistry represents an extensive review of the material presented by the invited speakers at a short course on Theoretical and Computational Methods in Mineral Physics held prior December 10-12 2009 to the Annual fall meeting of the American Geophysical Union in San Francisco California The meeting was held at the Doubletree Hotel Executive Meeting Center in Berkeley California Contents Density functional theory of electronic structure a short course for mineralogists and geophysicists The Minnesota density functionals and their applications to problems in mineralogy and geochemistry Density functional perturbation theory for quasi harmonic calculations Thermodynamic properties and phase relations in mantle minerals investigated by first principles quasiharmonic theory First principles quasiharmonic thermoelasticity of mantle

minerals An overview of quantum Monte Carlo methods Quantum Monte Carlo studies of transition metal oxides Accurate and efficient calculations on strongly correlated minerals with the LDA U method review and perspectives Spin state crossover of iron in lower mantle minerals results of DFT U investigations Simulating diffusion Modeling dislocations and plasticity of deep earth materials Theoretical methods for calculating the lattice thermal conductivity of minerals Evolutionary crystal structure prediction as a method for the discovery of minerals and materials Multi Mbar phase transitions in minerals Computer simulations on phase transitions in ice Iron at Earth's core conditions from first principles calculations First principles molecular dynamics simulations of silicate melts structural and dynamical properties Lattice dynamics from force fields as a technique for mineral physics An efficient cluster expansion method for binary solid solutions application to the halite silvite NaCl KCl system Large scale simulations Thermodynamics of the Earth's mantle

Computer-Aided Drug Discovery Methods: A Brief Introduction Manos C. Vasiou, 2024-10-11 Computer Aided Drug Discovery Methods A Brief Introduction explores the cutting edge field at the intersection of computational science and medicinal chemistry This comprehensive volume navigates from foundational concepts to advanced methodologies illuminating how computational tools accelerate the discovery of new therapeutics Beginning with an overview of drug discovery principles the book explains topics such as pharmacophore modeling molecular dynamics simulations and molecular docking It discusses the application of density functional theory and the role of artificial intelligence in therapeutic development showcasing successful case studies and innovations in COVID 19 research Ideal for undergraduate and graduate students as well as researchers in academia and industry this book serves as a vital resource in understanding the complex landscape of modern drug discovery It emphasizes the synergy between computational methods and experimental validation shaping the future of pharmaceutical sciences toward more effective and targeted therapies

Computational Physics Joseph Marie Thijssen, 1999-06-17 This book describes computational methods used in theoretical physics with emphasis on condensed matter applications

Many-Body Approach to Electronic Excitations Friedhelm Bechstedt, 2014-12-01 The many body theoretical basis and applications of theoretical spectroscopy of condensed matter e g crystals nanosystems and molecules are unified in one advanced text for readers from graduate students to active researchers in the field The theory is developed from first principles including fully the electron electron interaction and spin interactions It is based on the many body perturbation theory a quantum field theoretical description and Green's functions The important expressions for ground states as well as electronic single particle and pair excitations are explained Based on single particle and two particle Green's functions the Dyson and Bethe Salpeter equations are derived They are applied to calculate spectral and response functions Important spectra are those which can be measured using photoemission inverse photoemission optical spectroscopy and electron energy loss inelastic X ray spectroscopy Important approximations are derived and discussed in the light of selected computational and experimental results Some numerical implementations

available in well known computer codes are critically discussed The book is divided into four parts i In the first part the many electron systems are described in the framework of the quantum field theory The electron spin and the spin orbit interaction are taken into account Sum rules are derived ii The second part is mainly related to the ground state of electronic systems The total energy is treated within the density functional theory The most important approximations for exchange and correlation are delighted iii The third part is essentially devoted to the description of charged electronic excitations such as electrons and holes Central approximations as Hedin s GW and the T matrix approximation are discussed iv The fourth part is focused on response functions measured in optical and loss spectroscopies and neutral pair or collective excitations

Progress on Meshless Methods A. J. M. Ferreira,E. J. Kansa,G. E. Fasshauer,V.M.A. Leitao,2008-11-23 In recent years meshless meshfree methods have gained considerable attention in engineering and applied mathematics The variety of problems that are now being addressed by these techniques continues to expand and the quality of the results obtained demonstrates the effectiveness of many of the methods currently available The book presents a significant sample of the state of the art in the field with methods that have reached a certain level of maturity while also addressing many open issues The book collects extended original contributions presented at the Second ECCOMAS Conference on Meshless Methods held in 2007 in Porto The list of contributors reveals a fortunate mix of highly distinguished authors as well as quite young but very active and promising researchers thus giving the reader an interesting and updated view of different meshless approximation methods and their range of applications The material presented is appropriate for researchers engineers physicists applied mathematicians and graduate students interested in this active research area **Subject and Author**

Index 1990 E. Gutsche,2022-01-19 No detailed description available for Subject and Author Index 1990 **Quantum Chemistry, Atomic, Molecular, and Condensed Matter Theory and Computational Methods - Quantum Chemistry Symposium - No. 26** Per-Olov Löwdin,1992-12-08 Prominent multinational contributors present articles on condensed matter physics quantum biology and quantum chemistry Among the topics covered reactive molecular collisions density functional theory atomic and molecular phenomena in astrophysics non Born Oppenheimer methods thin films and surfaces

Journal of the Physical Society of Japan ,2005 **Computational Physics as a New Frontier in Condensed Matter Research** Hajime Takayama,1995 *High-Tc Superconductivity* Nie Luo,George H. Miley,2021-02-25 The exciton mechanism of high Tc superconductivity in copper oxides was initially proposed by Prof J Bardeen His insight is largely shared by another luminary in superconductivity Prof V L Ginzburg The main author of the book Dr Nie Luo was motivated by their insights to give a geometrical explanation to the excitonic Coulomb interaction and has developed a unique formalism to understand and predict physical properties of high Tc superconductors This work is supported by increasingly strong evidence for electron hole interactions in p type cuprates The presence of electrons in hole doped cuprates is revealed by the works of the authors and many others including the late Prof L P Gor'kov The book also tries to understand the interlayer

Coulomb ILC pairing model by the excitonic Coulomb interaction Developed by Prof A J Leggett ILC theory shares many views with Ginzburg s approach The other author of the book Prof George H Miley shares with us his personal experience with Prof Bardeen on the exciton s role in physics problems including high Tc superconductivity The results and predictions of this excitonic Coulomb mechanism have been verified by an increasing number of experiments This book summarizes the current status and fathoms future directions *The Cumulative Book Index* ,1992 A world list of books in the English language *Energy and Technology Review* ,1994 *Science & Technology Review* ,1994

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