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Advances in Polaron Physics

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Marius Ghergu



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Advances in Polaron Physics Alexandre S. Alexandrov, Jozef T. Devreese, 2009-10-03 This book reviews recent developments in the field of polarons starting with the basics and covering a number of active directions of research It integrates theory and experimental results

Polarons in Advanced Materials Alexandre S. Alexandrov, 2008-01-11 This book first introduces a single polaron and describes recent achievements in analytical and numerical studies of polaron properties in different e-ph models It then describes multi polaron physics as well as many key physical properties of high temperature superconductors colossal magnetoresistance oxides conducting polymers and molecular nanowires which were understood with polarons and bipolarons

Quantum Brownian Motion Revisited Aniello Lampo, Miguel Ángel García March, Maciej Lewenstein, 2019-04-23 Quantum Brownian motion represents a paradigmatic model of open quantum system namely a system inextricably coupled to the surrounding environment Such a model is largely used in physics for instance in quantum foundations to approach in a quantitative manner the quantum to classical transition but also for more practical purposes as the estimation of decoherence in quantum optics experiments This book presents the main techniques aimed to treat the dynamics of the quantum Brownian particle Born Markov master equation Lindblad equation and Heisenberg equations formalism Particular attention is given to the interaction between the particle and the bath depends non linearly on the position of the former This generalization corresponds to the case in which the bath is not homogeneous An immediate application is the Bose polaron specifically an impurity embedded in an ultracold gas

Phonons in Low Dimensional Structures Vasilios N. Stavrou, 2018-12-12 The field of low dimensional structures has been experiencing rapid development in both theoretical and experimental research Phonons in Low Dimensional Structures is a collection of chapters related to the properties of solid state structures dependent on lattice vibrations The book is divided into two parts In the first part research topics such as interface phonons and polaron states carrier phonon non equilibrium dynamics directional projection of elastic waves in parallel array of N elastically coupled waveguides collective dynamics for longitudinal and transverse phonon modes and elastic properties for bulk metallic glasses are related to semiconductor devices and metallic glasses devices The second part of the book contains among others topics related to superconductor phononic crystal carbon nanotube devices such as phonon dispersion calculations using density functional theory for a range of superconducting materials phononic crystal based MEMS resonators absorption of acoustic phonons in the hyper sound regime in fluorine modified carbon nanotubes and single walled nanotubes phonon transport in carbon nanotubes quantization of phonon thermal conductance and phonon Anderson localization

Strong-Coupling Theory of High-Temperature Superconductivity A. S. Alexandrov, 2013-05-02 Written for researchers and academics this monograph provides a detailed introduction to the strong coupling theory of high temperature superconductivity

Electron-phonon Interaction And Lattice Dynamics In High Tc Superconductors Han Zhang, 2020-02-13 Understanding the mechanism of the high temperature superconductors has

been a very important topic in condensed matter physics Researchers have been trying to explain the role of electron phonon interaction EPI in cuprates Some important properties of the cuprates could not be explained by conventional BCS theory This book contains the experimental and theoretical studies on the EPI The experimental part covers the results of angle resolved photoemission spectroscopy ARPES isotopic effect elastic neutron scattering study of electron phonon lattice role and so on The theoretical part covers the electron phonon polaron and bipolaron effect of lattice fine structure in the tunnelling spectra of electron doped cuprates identification of the bulk pairing symmetry in high temperature superconductors Students and researchers interested in high temperature superconductors especially the EPI in cuprates will find this title very useful

Partial Differential Inequalities with Nonlinear Convolution Terms Marius Ghergu, 2023-01-01 This brief research monograph uses modern mathematical methods to investigate partial differential equations with nonlinear convolution terms enabling readers to understand the concept of a solution and its asymptotic behavior In their full generality these inequalities display a non local structure Classical methods such as maximum principle or sub and super solution methods do not apply to this context This work discusses partial differential inequalities instead of differential equations for which there is no variational setting This current work brings forward other methods that prove to be useful in understanding the concept of a solution and its asymptotic behavior related to partial differential inequalities with nonlinear convolution terms It promotes and illustrates the use of a priori estimates Harnack inequalities and integral representation of solutions One of the first monographs on this rapidly expanding field the present work appeals to graduate and postgraduate students as well as to researchers in the field of partial differential equations and nonlinear analysis

Ceramics for Energy Conversion, Storage, and Distribution Systems Thomas Pfeifer, Josef Matyas, Palani Balaya, Dileep Singh, John Wei, 2016-08-16 A collection of 25 papers presented at the 11th International Symposium on Ceramic Materials and Components for Energy and Environmental Applications CMCEE 11 June 14 19 2015 in Vancouver BC Canada Paper in this volume were presented in the below six symposia from Track 1 on the topic of Ceramics for Energy Conversion Storage and Distribution Systems High Temperature Fuel Cells and Electrolysis Ceramic Related Materials Devices and Processing for Heat to Electricity Direct Conversion Material Science and Technologies for Advanced Nuclear Fission and Fusion Energy Advanced Batteries and Supercapacitors for Energy Storage Applications Materials for Solar Thermal Energy Conversion and Storage High Temperature Superconductors Materials Technologies and Systems *Handbook of Advanced Electronic and Photonic Materials and Devices, Ten-Volume Set* Hari Singh Nalwa, 2000-10-09 Vol 1 Semiconductors Vol 2 Semiconductors Devices Vol 3 High Tc Superconductors and Organic Conductors Vol 4 Ferroelectrics and Dielectrics Vol 5 Chalcogenide Glasses and Sol Gel Materials Vol 6 Nanostructured Materials Vol 7 Liquid Crystals Display and Laser Materials Vol 8 Conducting Polymers Vol 9 Nonlinear Optical Materials Volume 10 Light Emitting Diodes Lithium Batteries and Polymer Devices **Aspects of Polaron Theory** N. N. Bogolubov, Jr., 2008 This book follows a step by step approach from

comparatively simple physical ideas to a clear understanding of sophisticated mathematical tools of investigation in modern polaron physics The reader is able to compare the physical point of view with methods proposed in the book and at the same time grasp the underlying mathematics

Defects and Surface-Induced Effects in Advanced Perovskites Gunnar Borstel, Andris Krumins, Donats Millers, 2012-12-06 Complex oxide materials especially the ABO₃ type perovskite materials have been attracting growing scientific interest due to their unique electro optical properties leading to photorefractive effects that form the basis for such devices as holographic storage optical data processing and phase conjugation The optical and mechanical properties of non metals are strongly affected by the defects and impurities that are unavoidable in any real material Nanoscopically sized surface effects play an important role especially in multi layered ABO₃ structures which are good candidates for high capacity memory cells The 51 papers presented here report the latest developments and new results and will greatly stimulate progress in high tech technologies using perovskite materials

Advances in Synthetic Metals P. Bernier, G. Bidan, S. Lefrant, 1999-12-07 This edited work contains eight extensive review type contributions by leading scientists in the field of synthetic metals The authors were invited by the organisers of the International Conference on Science and Technology of Synthetic Metals 98 ICSM 98 to review the progress of research in the past two decades in a unifying and pedagogical manner The present work highlights the state of the art of the field and assesses the prospects for future research

Polarons and Excitons in Polar Semiconductors and Ionic Crystals J.T. Devreese, F. Peeters, 2013-06-29 The 1982 Antwerp Advanced Study Institute on Physics of Polarons and Excitons in Polar Semiconductors and Ionic Crystals took place from July 26 till August 5 at the Conference Center Priorij Corsen donk a restored monastery close to the city of Antwerp It was the seventh Institute in our series which started in 1971 This Advanced Study Institute which was held fifty years after Landau introduced the polaron concept can be considered as the third major international symposium devoted to the physics of polarons The first such symposium took place in St Andrews in 1962 under the title Polarons and Excitons I The early theoretical developments related to polarons were reviewed in depth at this meeting the derivation of the polaron hamiltonian by Frohlich the Frohlich weak coupling theory and the equivalent weak coupling canonical transformations the Landau Pekar and Bogolubov strong coupling theory and the Feynman polaron model formulated with his path integrals The main emphasis was on the polaron self energy effective mass and mobility From the experimental side the first evidence for polaron effects was provided by the pioneering cyclotron and mobility measurements on the silver halides by F e Brown and his group Also the significance of polaron effects for the understanding of excitons in ionic crystals was a central topic in St Andrews The second Advanced Study Institute concerning polaron physics was organized at the University of Antwerp R U C A

Polarons Amel Laref, 2018 This book presents recent research results on the illustrious verge of polaron science which is broadly applied in condensed matter physics solid state physics and chemistry fields It covers the modern progress of the polaron effect in various classes of materials This book provides a thorough overview of the recent advancements in the

polarons arena and presents several active forms of guidance of scrutiny developed by well known researchers It describes interesting topics related to the new physical phenomena experimental results and applications of polarons The scope includes both theoretical models and experimental works on different aspects of polarons manifesting in conducting polymers functionalized nanowires glasses and their nanocomposites organic semiconductors semiconducting nanostructures manganites ferrites transition metal oxides high temperature superconductors colossal magnetoresistance oxides and magnetic semiconductors A collective of authoritative research articles provide recent achievements of theoretical models and experimental realizations of polaron properties in solid state physics and chemistry They involve substantial research varying from single polaron phenomena to multi polarons problems in advanced materials This book will be beneficial as a reference to support an inclusive perspective of the polaron phenomena in advanced materials and will be of prodigious significance to a broad range of researchers in condensed matter physics and material sciences

Polarons David Emin, 2013 A distinctive introduction to the principles governing polaron science for experimental and theoretical graduate students and researchers

Polarons in Bulk Materials and Systems with Reduced Dimensionality Giuseppe Iadonisi, J. Ranninger, G. De Filippis, 2006 Attempts to treat electron phonon coupled systems with emphasis on Many Body aspects for dense electron systems taking into account continuum as well as lattice polaron effects This work aims to introduce the study of such systems where strong electron electron correlations and large electron phonon coupling strengths play important roles

Polariton Fouad Sabry, 2025-03-26 Polariton This chapter introduces the concept of polaritons quasiparticles formed from the coupling of photons and excitons fundamental to the understanding of the plasmonic motor at the nanoscale Multiple exciton generation Exploring the mechanism of multiple exciton generation this chapter explains its importance in enhancing the efficiency of optoelectronic devices a key area in the nanoscale plasmonic realm Roton A roton is discussed as a quasiparticle exhibiting interesting quantum properties influencing the development of superfluid and condensed matter systems in nanoscale plasmonic applications Quasiparticle This chapter provides an overview of quasiparticles an essential concept in condensed matter physics exploring how they contribute to the behavior of nanostructures used in plasmonic motors Magnon The behavior of magnons which are collective excitations of spin systems is examined in the context of their potential to impact the operation of nanoscale devices like polaritons Excitonpolariton This chapter looks at the hybridization of excitons and polaritons a process that forms the foundation for understanding the behavior of materials used in plasmonic systems Yoshihisa Yamamoto scientist This section focuses on the pioneering work of Yoshihisa Yamamoto in the study of quantum optics and polariton physics linking his contributions to the broader field of nanoscale plasmonics Polariton laser Discussing the concept of polariton lasers this chapter highlights their potential for creating more efficient lasers an essential advancement in the field of nanophotonics Davydov soliton This chapter introduces Davydov solitons solutions to nonlinear equations that describe energy transport with significant applications in the control

of polaritons in nanoscale systems Dressed particle The concept of dressed particles is explained where an electron's interaction with its environment alters its effective properties crucial for understanding polaritons in nanostructured materials Polariton superfluid Examining the fascinating behavior of polariton superfluids this chapter explores their potential applications in creating innovative nanoscale systems for energy-efficient devices Solomon Pekar This chapter delves into Solomon Pekar's work on the theory of polarons offering insights into the role of quasiparticles in the development of nanoscale plasmonic technologies Trion physics The trion a three-particle complex is explored here in terms of its influence on the behavior of excitons and polaritons within nanoscale plasmonic systems Electron-helium qubit This chapter investigates the potential of electron-helium qubits for quantum computing a key technology for the future of plasmonic motors and related applications Polaron The concept of the polaron is examined in detail discussing how the coupling of an electron with its surrounding lattice influences its behavior and its application to nanoscale systems Bose-Einstein condensation of polaritons This chapter discusses the conditions under which polaritons undergo Bose-Einstein condensation a key phenomenon for understanding superfluid-like behavior in nanoscale systems Plasmon The plasmon is introduced as a collective excitation of free-electron systems central to the operation of plasmonic motors and the manipulation of light at the nanoscale Phonon polariton The interaction between phonons and polaritons is explored explaining how this coupling influences the thermal and optical properties of nanoscale materials Bose-Einstein condensation of quasiparticles A deep dive into the role of quasiparticles in the Bose-Einstein condensation process an important concept in the development of quantum technologies for plasmonic systems

Physica, 1974-05 Contains the physical papers of the Netherlands

Frontiers of Advanced Materials and Engineering Technology Ran Chen, Dong Ye Sun, Wen Pei Sung, 2012-01-03 Selected peer-reviewed papers from the 2012 International Conference on Frontiers of Advanced Materials and Engineering Technology FAMET 2012 January 4-5 Xiamen China

Polarons and Bipolarons Ashok Chatterjee, Soma Mukhopadhyay, 2018-10-09 This book provides a comprehensive review of the subject of polaron and a thorough account of the sophisticated theories of the polaron It explains the concept of the polaron physics in as simple a manner as possible and presents the theoretical techniques and mathematical derivations in great detail Anybody who follows this book will develop a solid command over the subject both conceptually and technically and will be in a position to contribute to this field

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