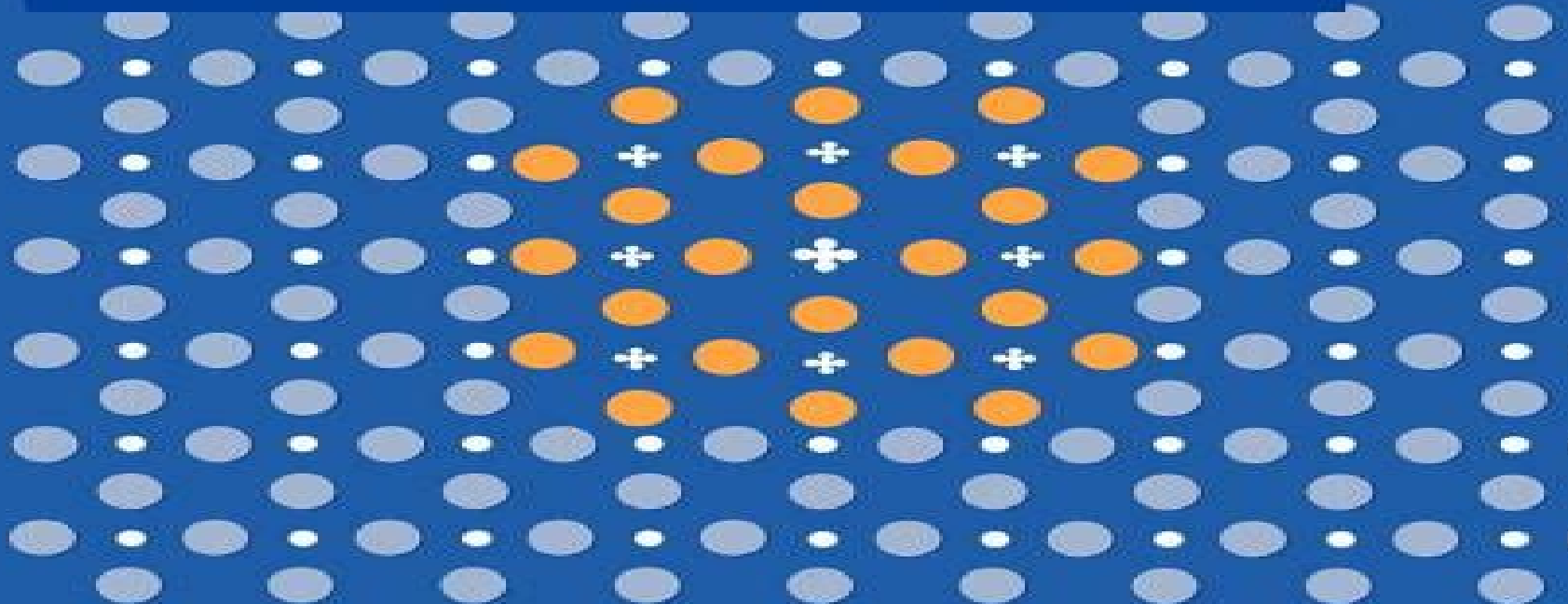


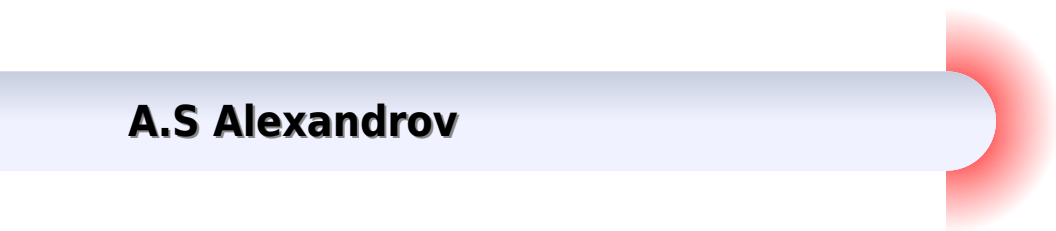
Polarons and Bipolarons in High- T_c Superconductors and Related Materials



Edited by E. K. H. Salje, A. S. Alexandrov and W. Y. Liang

Polarons And Bipolarons In High Tc Superconductors And Related Materials

A.S Alexandrov



Polarons And Bipolarons In High Tc Superconductors And Related Materials:

Polarons and Bipolarons in High-Tc Superconductors and Related Materials E. K. H. Salje, A. S. Alexandrov, W. Y. Liang, 2005-07-07 With the discovery of high temperature superconductors research into polarons and bipolarons has attracted much attention This book is the first standard reference to give a comprehensive view of the polaron and bipolaron theory of high temperature superconductivity one of the most significant discoveries in physics in the past decade Scientists have also observed polarons and bipolarons in magnetic semiconductors and transition metal oxides The thorough investigation of these nonsuperconducting materials has contributed greatly to our basic understanding of the physical properties of both polarons and bipolarons This book contains a series of authoritative articles on the most advanced research on polarons and bipolarons in high temperature superconductors and related materials This book will be of great interest to researchers in condensed matter physics and especially those working in the field of superconductivity

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

High Tc Superconductors and Related Transition Metal Oxides Annette Bussmann-Holder, Hugo Keller, 2007-03-29 This book presents theoretical as well as experimental articles focused on recent new results in high temperature superconductivity All contributors are high ranking scientists who have done major work to enhance the understanding of this phenomenon A few articles deal with ferroelectricity and its applications The book is dedicated to Prof Dr K Alex Müller on his 80th birthday During his scientific career he made major advances in the understanding of ferroelectricity

Models and Phenomenology for Conventional and High-Temperature Superconductivity Società italiana di fisica, 1998 The search for microscopic models to explain the many superconducting substances has introduced seminal concepts and techniques in many body physics and in statistical mechanics The complexity of the high temperature superconductors has required a remarkable refinement of experimental techniques in order to allow a reliable characterization of the samples and is partly the reason why so many different microscopic models have so far been proposed This Enrico Fermi Course on Superconductivity was provided an up to date presentation of selected experimental and theoretical theories on the so called conventional superconductivity and on the high temperature superconductivity The attention was focused on those reliable measurements which are expected to provide the theory with key constraints viz Raman and Infrared Spectroscopy Nuclear Spin Resonance Angular Resolved Photoemission Spectroscopy transport measurements Josephson effect The lectures devoted to the overview of the BCS theory and to the discussion of minimal models and of the crossover from BCS to Bose Einstein condensation may be particularly useful The remaining part of the

program was shared between phonon and non phonon based mechanisms On the one hand special emphasis has been devoted to the breakdown of the Migdal theorem and to polaronic theories On the other the book contains an overview of strongly correlated electron theories including magnetic interactions A survey of the physics of vortices completes the theoretical part of the lectures

Nanotechnology for Electronic Materials and Devices Anatoli Korkin, Evgeni Gusev, Jan K. Labanowski, Serge Luryi, 2010-05-07 The high level of attention and interest of the global community to NANO science and technology to a large extent is linked to the GIGAntic challenges for the continuing growth of information technology which sparked an unprecedented level of interdisciplinary and international cooperation among industrial and academic researchers companies IT market rivals and countries including former political and military rivals Microelectronics technologies have reached a new stage in their development The latest miniaturization of electronic devices is approaching atomic dimensions interconnect bottlenecks are limiting circuit speeds new materials are being introduced into microelectronics manufacture at an unprecedented rate and alternative technologies to mainstream complementary metal oxide semiconductors CMOSs are being considered The very dynamic stage of science and technology related to the advanced and future electronics and photonics creates a growing gap between the large number of rapid publications and nanotechnology highlights in media on one side and fundamental understanding of underlying phenomena and an adequate evaluation of scientific discoveries and technological innovations on the other side Writing a tutorial book on fundamentals of science and technology for electronics at this time is almost the same level of challenge as writing a history book during a revolution

Proceedings of the Estonian Academy of Sciences, Physics and Mathematics, 1997 **Strongly Correlated Systems** Adolfo Avella, Ferdinando Mancini, 2014-10-01 The continuous evolution and development of experimental techniques is at the basis of any fundamental achievement in modern physics Strongly correlated systems SCS more than any other need to be investigated through the greatest variety of experimental techniques in order to unveil and crosscheck the numerous and puzzling anomalous behaviors characterizing them The study of SCS fostered the improvement of many old experimental techniques but also the advent of many new ones just invented in order to analyze the complex behaviors of these systems Many novel materials with functional properties emerging from macroscopic quantum behaviors at the frontier of modern research in physics chemistry and materials science belong to this class of systems The volume presents a representative collection of the modern experimental techniques specifically tailored for the analysis of strongly correlated systems Any technique is presented in great detail by its own inventor or by one of the world wide recognized main contributors The exposition has a clear pedagogical cut and fully reports on the most relevant case study where the specific technique showed to be very successful in describing and enlightening the puzzling physics of a particular strongly correlated system The book is intended for advanced graduate students and post docs in the field as textbook and or main reference but also for any other researcher in the field who appreciates consulting a single but comprehensive source or

wishes to get acquainted in a as painless as possible way with the working details of a specific technique *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 **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 *Theory of Superconductivity* A.S Alexandrov, 2003-10-01 Theory of Superconductivity From Weak to Strong Coupling leads the reader from basic principles through detailed derivations and a description of the many interesting phenomena in conventional and high temperature superconductors The book describes physical properties of novel superconductors in particular the normal state superconducting crit

Reviewing **Polarons And Bipolarons In High Tc Superconductors And Related Materials**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Polarons And Bipolarons In High Tc Superconductors And Related Materials**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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