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The Real Structure of High- T_c Superconductors



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Real Structure Of High Tc Supercondu

**David A. Cardwell, David C.
Larbalestier, Aleksander Braginski**

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The Real Structure of High-Tc Superconductors Veniamin S. Shekhtman, 2013-12-20 In this text experts review experimental studies that directly reveal the relationship between the atomic structure and physical behavior of high Tc superconductors The thorough discussion centers on twins twin boundaries the vortex lattice and magnetic and mechanical properties in connection with structural imperfections Particular attention is paid to the role of the oxygen atom in the Y Ba Cu O and La Cu O species The experimental methods evaluated include electron and X ray diffraction electron microscopy and Mossbauer spectroscopy This book makes extraordinarily valuable data obtained at the Institute of Solid State Physics at Chernogolovka accessible to the wider international community of researchers in superconductivity High Tc Superconductors J. Dumas, H.W. Neumüller, H.F. Braun, V.P. Seminozhenko, Yu.D. Tretyakov, 1993-05-05 A wide range of progress in materials development single crystals ceramics thin films wire and tapes is reported in the 169 papers in this volume The main focus of the papers is in attaining a better understanding of the relationship between microstructure and electrical properties Invited papers cover topics such as the effects of substitution and doping multilayers nanostructure characterisation electric field effects in High Tc Superconductors HTS surface stability critical currents flux pinning and magneto-optic imaging of flux patterns effects of irradiation induced defects properties and preparation of materials microwave properties and electronic devices A clearly broadened basis for understanding processes and mechanisms in HTS is portrayed Appreciable progress has been achieved in the reproducible manufacturing of high quality materials supported by very efficient methods in microstructural analysis This essential improvement is reflected in the increased number of practical devices encouraging the use of HTS in applications for electronics and power engineering all of which are reviewed in depth in this work **Quantum Theory of Real Materials** James R. Chelikowsky, Steven G. Louie, 1996-02-29 A Festschrift in honor of Professor Marvin L Cohen This volume is a Festschrift in honor of Professor Marvin L Cohen The articles contributed by leading researchers in condensed matter physics high light recent advances in the use of quantum theory to explain and predict properties of real materials The invention of quantum mechanics in the 1920 s provided detailed descriptions of the electronic structure of atoms However a similar understanding of solids has been achieved only in the past 30 years owing to the complex electron ion and electron electron interactions in these systems Professor Cohen is a central figure in this achievement His development of the pseudopotential and total energy methods provided an alternate route using computers for the exploration of solids and new materials even when they have not yet been synthesized Professor Cohen s contributions to materials theory have been both fundamental and encompassing The corpus of his work consists of over 500 papers and a textbook His band structures for semiconductors are used worldwide by researchers in solid state physics and chemistry and by device engineers Professor Cohen s own use of his theories has resulted in the determination of the electronic structure optical properties structural and vibrational properties and superconducting

properties of numerous condensed matter systems including semiconductors metals surfaces interfaces defects in solids clusters and novel materials such as the fullerenes and nanotubes *Fundamentals and Frontiers of the Josephson Effect* Francesco Tafuri, 2019-09-17 This book provides a comprehensive and up to date description of the Josephson effect a topic of never ending interest in both fundamental and applied physics In this volume world renowned experts present the unique aspects of the physics of the Josephson effect resulting from the use of new materials of hybrid architectures and from the possibility of realizing nanoscale junctions These new experimental capabilities lead to systems where novel coherent phenomena and transport processes emerge All this is of great relevance and impact especially when combined with the didactic approach of the book The reader will benefit from a general and modern view of coherent phenomena in weakly coupled superconductors on a macroscopic scale Topics that have been only recently discussed in specialized papers and in short reviews are described here for the first time and organized in a general framework An important section of the book is also devoted to applications with focus on long term future applications In addition to a significant number of illustrations the book includes numerous tables for comparative studies on technical aspects **Models and Methods of High-Tc**

Superconductivity J. K. Srivastava, Sadasiva Madiraju Rao, 2003 The articles in this exceptional book contain regular papers extended papers and reviews and thus vary in length and are useful for all kinds of audience They describe as the book's name suggests HTSC models and methodologies Physical models like extended BCS model bipolaron model spin bag model RVB resonating valence bond model preformed Cooper pairs and antiferromagnetic spin fluctuation AFSF based models stripe phase paired cluster spin glass SG frustration based model Kamimura Suwa Hund's coupling mechanism based model electron plasmon interaction electron phonon interaction etc theoretical methods methodologies like generalised BCS Migdal Eliashberg theory Hubbard model t - J model t - t' - U model Hubbard Holstein model Fermi non Fermi and marginal Fermi liquid concepts generalised Hartree Fock formalism etc and experimental status and methodologies are all described there For comparison with cuprates fullerenes ruthenates organic non Cu containing oxide and conventional elemental A15 superconductors molecular crystals nickelates manganites borides etc are also discussed **Perspectives on**

Superconductivity Research Paul S. Lewis, 2007 Superconductivity is the ability of certain materials to conduct electrical current with no resistance and extremely low losses High temperature superconductors such as $\text{La}_{2-x}\text{Sr}_x\text{CuO}_y$ T_c 40K and $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ T_c 90K were discovered in 1987 and have been actively studied since In spite of an intense world wide research effort during this time a complete understanding of the copper oxide cuprate materials is still lacking Many fundamental questions are unanswered particularly the mechanism by which high T_c superconductivity occurs More broadly the cuprates are in a class of solids with strong electron-electron interactions An understanding of such strongly correlated solids is perhaps the major unsolved problem of condensed matter physics with over ten thousand researchers working on this topic High T_c superconductors also have significant potential for applications in technologies ranging from electric

power generation and transmission to digital electronics This ability to carry large amounts of current can be applied to electric power devices such as motors and generators and to electricity transmission in power lines For example superconductors can carry as much as 100 times the amount of electricity of ordinary copper or aluminium wires of the same size Many universities research institutes and companies are working to develop high T_c superconductivity applications and considerable progress has been made This new volume brings together new leading edge research in the field *Handbook of Superconducting Materials* David A. Cardwell, David S. Ginley, 2003 **Energy Research Abstracts**, 1993 *High T_c Superconductor Thin Films* L. Corraera, 2012-12-02 Interdisciplinary research on superconducting oxides is the main focus of the contributions in this volume Several aspects of the thin film field from fundamental properties to applications are examined Interesting results for the Bi system are also reviewed The 132 papers including 8 invited report mainly on the 1 2 3 system indicating that the Y Ba Cu O and related compounds are still the most intensively studied materials in this field The volume attests to the significant progress that has been made in this field as well as reporting on the challenging problems that still remain to be solved **High Temperature Superconductor Bulk Materials** Gernot Krabbes, Günter Fuchs, Wolf-Rüdiger Canders, Hardo May, Ryszard Palka, 2006-05-12 With its comprehensive review of the current knowledge and the future requirements in the field this book presents all the features of bulk high temperature superconducting materials Starting from physical and chemical fundamentals the authors move on to portray methods and problems of materials processing thoroughly working out the characteristic properties of bulk superconductors in contrast to long conductors and films They provide a wide range of specific materials characteristics with respect to the latest developments and future applications guiding from fundamentals to practical engineering examples The authors are all leading international specialists involved in the field of high TC superconductor bulk materials since the beginning Of utmost interest to engineers scientists and PhD students working in this field **Electronic Structure Methods for Complex Materials** Wai-Yim Ching, Paul Rulis, 2012-05-17 This book details the application of the OLCAO method for calculating the properties of solids from fundamental principles to a wide array of material systems The method specializes in large and complex models and is able to compute a variety of useful properties including electronic optical and spectroscopic properties **High-Tc Superconductors for Magnet and Energy Technology** Beate Lehnendorff, 2003-07-01 Since the discovery of high temperature superconductors the scientific community has been very active in research on material and system development as well as on the basic understanding of the mechanism of superconductivity at high transition temperatures Industrial groups joined in very soon as with these new materials the prospects for commercial application of super conductivity seemed to be more promising than ever Materials processing was divided into film deposition and bulk preparation techniques the latter including conductor fabrication and melt growth of monolithic samples as well Because of the high impact of possible applications in energy technology wire and tape fabrication of the BSCCO superconductors is one of the

most important fields in addition to thin film technology for mobile communication. Only since processes like IBAD and RABiTSTM were invented have film deposition techniques also become important for energy technology. In order to produce suitable conductors with material properties which meet the challenge imposed by energy technology, detailed understanding of the phase formation and physical properties of the high temperature superconductors is necessary. The goal of this book is on one hand to provide the basic information on phase formation and physical properties and to give a short overview of the state of the art in conductor preparation and characterization. On the other hand it contains the author's own results in the field of preparation and characterization. Handbook on Synthesis Strategies for Advanced Materials A. K.

Tyagi, Raghumani S. Ningthoujam, 2021-08-17 This book presents state of the art coverage of synthesis of advanced functional materials. Unconventional synthetic routes play an important role in the synthesis of advanced materials as many new materials are metastable and cannot be synthesized by conventional methods. This book presents various synthesis methods such as conventional solid state method, combustion method, a range of soft chemical methods, template synthesis, molecular precursor method, microwave synthesis, sonochemical method and high pressure synthesis. It provides a comprehensive overview of synthesis methods and covers a variety of materials including ceramics, films, glass, carbon based and metallic materials. Many techniques for processing and surface functionalization are also discussed. Several engineering aspects of materials synthesis are also included. The contents of this book are useful for researchers and professionals working in the areas of materials and chemistry. **The Rise of the Superconductors** P.J. Ford, G.A. Saunders, 2004-10-28 High

temperature superconductors are one of the most active and exciting areas of condensed matter physics research. From high quality thin films to frictionless transportation, their applications in industries such as telecommunications, environment and geology, medicine, nuclear physics and security are just the beginning. The Rise of the Superconductors is an ideological chronology of the science that has produced superconductors. Beginning with the first liquefaction of helium, the book presents the discovery of the Meissner effect and the development of type II superconductors before discussing the impact of Bednorz and Müller's Nobel prize winning research in high temperature ceramic superconductors. Authors seamlessly introduce the rise of T_c materials whose layer-like nature, anisotropic behavior and other properties are discussed in Chapter 4. The next chapter is devoted to the discovery, development and characteristics of organic superconductors, particularly in fullerene materials whose discovery earned the Nobel Prize in Chemistry in 1996. The authors then examine the properties and theoretical developments explaining the behavior of simple superconductors, highlighting their impact on theoretical physics. Subsequent chapters analyze the technological advances, production challenges and future directions of large and small scale applications, Josephson effects, the development of SQUID technology and the specific behavior of high temperature superconductors. The Rise of the Superconductors concludes with a brief look at the struggle for technical superiority between the U.S. and Japan, European contributions and commentary on the current state of the art. Advances

in Superconductivity II Takehiko Ishiguro, Koji Kajimura, 2013-03-09 Since the First International Symposium on Superconductivity ISS 88 was held in Nagoya Japan in 1988 significant advances have been achieved in a wide range of high temperature superconductivity research Although the T_c s of recently discovered oxide superconductors still do not exceed the record high value of 125K reported before that meeting the enrichment in the variety of materials should prove useful to the investigation of the fundamental mechanism of superconductivity in these exotic materials The discovery of the n type superconducting oxides proved to oppose the previously held empirical fact that the charge carriers in all oxide superconductors were holes In addition optimization of the charge carrier density has been established as a technique to improve the superconducting properties of the previously known oxide materials Many new experimental and theoretical advances have been made in understanding both the fundamental and the applied aspects of high temperature superconductivity In this latter area various new processing techniques have been investigated and the critical current densities and other significant parameters of both bulk and thin film oxide superconductors are rapidly being improved At this exciting stage of research in high temperature superconductivity it is extremely important to provide an opportunity for researchers from industry academia government and other institutions around the world to freely exchange information and thus contribute to the further advancement of research

Spectroscopy of High- T_c Superconductors N.M.

Plakida, 2003-03-20 Despite ten years of intensive research many questions remain unanswered concerning the nature of the electronic structure Fermi vs non Fermi liquid and mechanisms of superconductivity Spectroscopy of High T_c Superconductors A Theoretical View provides a current comprehensive review of the experimental results and theoretical interpretations concerning elementary excitation spectra electronic phononic charge and spin fluctuations in high T_c superconductors HTSC It discusses accepted microscopic models that describe the electronic structure of the copper oxide plane the three band model the generalized Emery model the one band Hubbard model different kinds of the t - J model and the regular Kondo lattice model and compares them with ARPES experiments Leading Russian researchers also consider experimental results obtained by Raman scattering both by phonons and electronic excitations including magnetic excitations in antiferromagnets in the normal phase on almost all the types of superconducting cuprates The results are treated theoretically with the emphasis on features thought to be related to superconductivity The book also gives an account of the properties of the microwave surface impedance and complex conductivity as functions of temperature common for high quality single crystals YBCO BSCCO TBCCO and BKBO The basics of the muon method and a review of experimental results for superconducting states of different HTSC compounds are also presented By offering a thorough examination of current research in the field this book will appeal to advanced students and researchers working in superconductivity and theoretical condensed matter physics

Advances in Superconductivity III Koji Kajimura, Hisao Hayakawa, 2012-12-06 Since the discovery of high temperature superconductors many new materials have been invented In the last year several new

materials were also discovered but their critical temperatures are still below 100K. Precise physical and chemical work has made tremendous progress in the theoretical and experimental study of physical properties and carrier state characterizations. The de Haas van Alphen effect measurement showed the existence of a Fermi surface in YBCO. Flux dynamics is a well known new problem in which flux creep and irreversibility line features are especially important for a fundamental understanding of the critical current and flux pinning. Flux pinning centers which are intentionally added using non superconducting precipitates, neutrons and protons etc. increase critical currents to practical levels. The analysis of electric and magnetic properties are expected to reveal the pinning mechanism and also to further application development. As for wires and bulks, many melt like sintering techniques have improved the material performance of critical current densities. A new seeding Quench Melt Growth technique enlarged crystal size and increased the repulsion force. These melting processes in conjunction with a mechanical strength improvement have been effectively introduced into wire fabrication in order to realize kilometer range wires and will put the oxide wires to practical use. Where thin film is concerned, when many fabrication methods had been developed using the assistance effect of activated oxygen such as ozone and oxygen radicals, a high current density of 106 A/cm at 77K was reported.

Handbook of High -Temperature Superconductivity J. Robert Schrieffer, 2007-03-20. Since the 1980s a general theme in the study of high temperature superconductors has been to test the BCS theory and its predictions against new data. At the same time this process has engendered new physics, new materials and new theoretical frameworks. Remarkable advances have occurred in sample quality and in single crystals, in hole and electron doping in the development of sister compounds with lower transition temperatures and in instruments to probe structure and dynamics. **Handbook of High Temperature Superconductivity** is a comprehensive and in depth treatment of both experimental and theoretical methodologies by the world's top leaders in the field. The Editor Nobel Laureate J. Robert Schrieffer and Associate Editor James S. Brooks have produced a unified coherent work providing a global view of high temperature superconductivity covering the materials, the relationships with heavy fermion and organic systems and the many formidable challenges that remain. **Soviet Physics, Crystallography**

, 1990. **Handbook of Superconductivity** David A. Cardwell, David C. Larbalestier, Aleksander Braginski, 2022-07-05. This is the last of three volumes of the extensively revised and updated second edition of the **Handbook of Superconductivity**. The past twenty years have seen rapid progress in superconducting materials which exhibit one of the most remarkable physical states of matter ever to be discovered. Superconductivity brings quantum mechanics to the scale of the everyday world. Viable applications of superconductors rely fundamentally on an understanding of these intriguing phenomena and the availability of a range of materials with bespoke properties to meet practical needs. While the first volume covers fundamentals and various classes of materials, the second addresses processing of these into various shapes and configurations needed for applications and ends with chapters on refrigeration methods necessary to attain the superconducting state and the desired

performance This third volume starts with a wide range of methods permitting one to characterize both the materials and various end products of processing Subsequently diverse classes of both large scale and electronic applications are described Volume 3 ends with a glossary relevant to all three volumes Key Features Covers the depth and breadth of the field Includes contributions from leading academics and industry professionals across the world Provides hands on familiarity with the characterization methods and offers descriptions of representative examples of practical applications A comprehensive reference the handbook is suitable for both graduate students and practitioners in experimental physics materials science and multiple engineering disciplines including electronic and electrical chemical mechanical metallurgy and others

The Enigmatic Realm of **Real Structure Of High Tc Supercondu**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Real Structure Of High Tc Supercondu** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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