

W. Sh. Shekhtman (Ed.)

The Real Structure of High- T_c Superconductors



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Real Structure Of High Tc Supercondu

E. Kaldis



Real Structure Of High Tc Superconductor:

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 highlight 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 $\text{La}_{2-x}\text{Sr}_x\text{CuO}_x$ 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 High T_c Superconductor Thin Films L. Correr, 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 Handbook on Synthesis Strategies for Advanced Materials A. K. Tyagi, Raghmani 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 sono chemical 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 **Handbook of Superconducting Materials** David A. Cardwell, David S. Ginley, 2003 *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 T_c superconductor bulk materials since the beginning Of utmost interest to engineers scientists and PhD students working in this field **Energy Research Abstracts** ,1993 Soviet Physics, Crystallography ,1991 **Materials and Crystallographic Aspects of HT_c-Superconductivity** E. Kaldis, 2012-12-06 Superconductors with high critical

temperatures are extremely complex and it remains difficult to synthesize high quality samples In this regard the materials and crystallographic aspects drawing together the fields of structural chemistry and physics solid state chemistry and physics and applications and properties both for cuprate and organic superconductors play a vital role in our understanding of the phenomenon Among other things the contributions to local structural elucidation contained in the present work will shatter the reader's prejudices concerning the idealized average structure

Structural Design and Controllable Preparation of the Function-Directed Crystalline Materials Maochun Hong, 2023-11-21 This book presents the findings of a major research program investigating structural design and controllable preparation of function directed crystalline materials The program was launched by the National Natural Science Foundation of China during the 11th Five Year Plan period which was started in October 2008 and concluded at the end of 2016 This book first summarizes the overall scientific objectives and the current state of the art of crystalline materials research in China and the international frontier It also focuses on exploring the relationships between structures compositions and properties of crystalline materials and proposes new mechanisms and models for new materials exploration In addition it introduces a new functional motif theory that can guide the development of crystalline materials with optical electrical and other composite functions and presents new research methods for the controlled synthesis and assembly of crystalline materials and detection and characterization of functional motifs Furthermore practical applications for materials such as photoelectric conversion materials nonlinear optical materials laser and fluorescent crystal materials and ferroelectric and microwave dielectric materials have been described Given its scope this book is of interest to researchers who work in crystalline materials It also promotes the multidisciplinary collaboration among chemistry materials science and physics

Phase Separation In Cuprate Superconductors - Proceedings Of The Workshop Karl Alex Muller, Giorgio Benedek, 1993-01-08 The main objective of this workshop was to review and discuss the electronic and chemical properties of layered cuprate superconductors These are doped antiferromagnetic AFM insulators and there is the possibility of a dynamic phase separation into metallic clusters and AFM areas A clarification on the existence and the mechanism of such a phase separation is believed to be crucial for the understanding of high T_c superconductivity in cuprates On the one hand theoretical and recent experimental indications in favor of this possibility were presented on the other hand experimental papers expressing more skeptical views were also delivered Related work on phase separations of chemical and structural origin was also included followed by contributions on the question If phase separation is present what is the pairing mechanism in the metallic clusters

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 100 K 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 106A cm at 77K was reported

International Tables for

Crystallography, Volume D A. Authier, 2014-11-17 International Tables for Crystallography is the definitive resource and reference work for crystallography and structural science Each of the volumes in the series contains articles and tables of data relevant to crystallographic research and to applications of crystallographic methods in all sciences concerned with the structure and properties of materials Emphasis is given to symmetry diffraction methods and techniques of crystal structure determination and the physical and chemical properties of crystals The data are accompanied by discussions of theory practical explanations and examples all of which are useful for teaching Volume D is concerned with the influence of symmetry on the physical and tensor properties of crystals and on their structural phase transitions This role is very important in many different disciplines of the science of materials such as crystallography elasticity solid state physics magnetism optics ferroelectricity and mineralogy and Volume D deals with all these aspects in a unified way The volume is divided into 3 parts Part 1 Introduces the mathematical properties of tensors and group representations and gives their independent components for each of the crystallographic groups Part 2 Devoted to the symmetry aspects of excitations in reciprocal space phonons electrons Raman scattering and Brillouin scattering Part 3 Deals with the symmetry aspects of structural phase transitions and twinning A prominent feature is the joint description of twinning and domain structures which are usually presented in completely separate ways in handbooks of physics and mineralogy Supplementary software is provided to support and enhance Chapters 1 1 and 1 2 for the determination of irreducible group representations and tensor components and Part 3 on structural phase transitions New to this edition This second edition of Volume D features a new chapter Chapter 1 11 on the tensorial properties of local crystal susceptibilities by V E Dmitrienko A Kirfel and E N Ovchinnikova This chapter describes the symmetry and physical phenomena that allow and restrict forbidden reflections excited at radiation energies close to the X ray absorption edges of atoms Reflections caused by magnetic scattering are also discussed In Part 1 Chapters 1 1 an introduction to the properties of tensors 1 2 on representations of crystallographic

groups 1 3 elastic properties 1 5 magnetic properties and 1 10 on tensors in quasiperiodic structures have been revised In particular Chapter 1 5 features a new section on multiferroics by M Kenzelmann Chapter 3 3 on twinning of crystals has been updated and new sections on the effect of twinning in reciprocal space and on the relations between twinning and domain structure have been added Chapter 3 4 on domain structures has also been updated More information on the series can be found at <http://it.iucr.org>

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

Scientific and Technical Aerospace Reports, 1995 **High-Tc Superconductors and Related Materials** S.-L. Drechsler, T. Mishonov, 2012-12-06 A broad introduction to high Tc superconductors their parent compounds and related novel materials covering both fundamental questions of modern solid state physics such as correlation effects fluctuations unconventional symmetry of superconducting order parameter and applied problems related to short coherence length grain boundaries and thin films The information that can be derived from electron spectroscopy and optical measurements is illustrated and explained in detail Descriptions widely employ the clear relatively simple phenomenological Ginzburg Landau model of complex phenomena such as vortex physics vortex charge determination plasmons in superconductors Cooper pair mass and wetting of surfaces The first comprehensive reviews of several novel classes of materials are presented including borocarbides and chain cuprates

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 lacking 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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