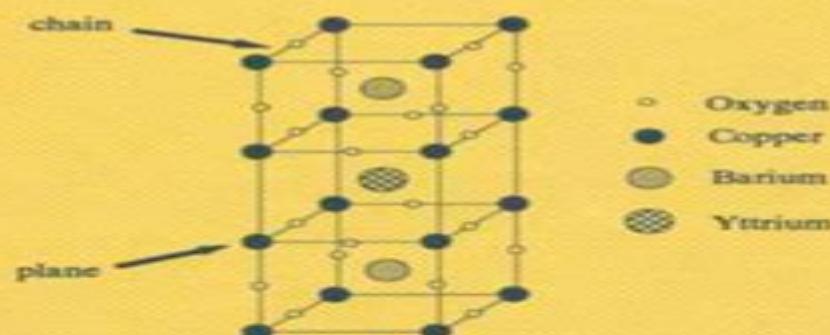


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# Low Magnetic Fields in Anisotropic Superconductors



Springer

# Low Magnetic Fields In Anisotropic Superconductors

**Yury Grigorashvili**

## **Low Magnetic Fields In Anisotropic Superconductors:**

**Low Magnetic Fields in Anisotropic Superconductors** Allan J. Greer, William J. Kossler, 1995-05-17 Superconductors have been known about since the turn of the century. Recently there has been a renewed interest with the discovery of the new high T<sub>c</sub> materials since 1986.<sup>1</sup> These compounds become superconducting at much warmer temperatures than any previously known. In fact many of them superconduct at temperatures above the boiling point of liquid nitrogen making the observation of the transition both accessible and inexpensive. It was obvious immediately that these materials could have a tremendous technological impact or lead to further materials with even higher transitions. For this reason there has been an intense effort by scientists in both academia and industry to study these materials. The scientific and industrial communities hope to learn what makes these materials work. For learning how these materials work not only increases mankind's overall knowledge of his world but could make some person or company quite successful if the information were used and developed correctly.

**Low Internal Magnetic Fields in Anisotropic Superconductors** Allan J. Greer, 1994

**The Superconducting State in Magnetic Fields** Carlos A. R. Sa de Melo, 1998 This volume is an exciting collection of short review articles written by leading international experts on the superconducting state in magnetic fields a rapidly developing area. The philosophy of the book is to emphasize the importance of having experimental and theoretical works side by side. Every effort has been made to match each experimental article with a corresponding theoretical article. The selection of materials includes special topics new effects and new trends concerning superconductors in low and high magnetic fields. The special topics and new trends include quantum and classical melting of the vortex lattice new vortex lattice symmetries vortex core states nonlinear Meissner effect symmetry of the order parameter in high temperature superconductors and superconductors in high magnetic fields. The book is targeted at a broad audience including graduate students postdocs and other researchers active or interested in this field.

**Advances in Superconductivity VIII** Hisao Hayakawa, Youichi Enomoto, 2013-11-11 Since the discovery of superconductivity with transition temperatures above 77 K concentrated research activities toward the exploration of practical applications of these materials have been carried out. Currently a remarkable improvement in superconducting properties has been achieved due to the fine optimization of fabrication processes and this has attracted industrial interest for future applications. In the case of Nd<sub>2</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> a new pinning mechanism was found which enhances the critical current under applied magnetic fields. In single crystals of these materials oxygen control results in an increase in the growth rate. The metalorganic chemical vapor deposition MOCVD film quality has been improved by using a new liquid raw material. Simultaneously real demands from the viewpoint of the market start to be a motivation force especially in electronics application where some products are already being sold. At the same time interesting physical properties have been obtained from a new superconducting single crystal which has a layered perovskite structure without copper. In addition various precision measurement techniques have confirmed the d

wave mechanism and the existence of intrinsic Josephson junctions in single crystals These new phenomena challenge the existing theoretical models but also open the way for new applications These significant areas of progress in materials science have led high T<sub>c</sub> superconductivity research into the next phase of activity while fundamental research continues to be very important I sincerely hope that this volume will give further impetus to this development **Superconducting Ceramics - Proceedings Of The 12th Winter Meeting On Low Temperature Physics** J L Heiras,L E Sansores,Ariel A Valladares Clemente,1991-11-15 This proceedings volume records the advances in quantum beam physics since the first meeting in Monterey 1998 In addition to further progress regarding quantum effects in beam dynamics photon electron interaction in beam handling beam phenomena under strong fields and quantum methodologies in beam physics the newly introduced topics the physics of condensed beams as well as astro beam physics and laboratory astrophysics have also been well documented by world experts in the field This book should be a valuable reference to those who are interested in the joint frontiers of beam physics and other fields such as astrophysics and condensed matter physics **Handbook of**

**High-Temperature Superconductor** Neeraj Khare,2003-05-06 Devoted to the preparation characterization and evaluation of HTS electronic devices this reference provides information on using high T<sub>c</sub> thin films and junctions to increase speed lessen noise lower power consumption and enhance upper frequency limits in superconductor electronics

**High-Temperature-Superconductor Thin Films at Microwave Frequencies** Matthias Hein,1999-07-02 The book develops a comprehensive understanding of the surface impedance of the oxide high temperature superconductors in comparison with the conventional superconductor Nb<sub>3</sub>Sn Linear and nonlinear microwave responses are treated separately both in terms of models theories or numerical approaches and in terms of experimental results The theoretical treatment connects fundamental aspects of superconductivity to the specific high frequency properties The experimental data review the state of the art as reported by many international groups The book describes further the main features of appropriate preparation handling mounting and refrigeration techniques and finally discusses possible applications in passive and active microwave devices

**Superconductivity** Karl-Heinz Bennemann,John B. Ketterson,2008-04-25 This extensive and comprehensive handbook systematically reviews the basic physics theory and recent advances in superconductivity Covering the entire field this unparalleled resource carefully blends theoretical studies with experimental results to provide an indispensable foundation for further research Leading researchers including Nobel laureates describe the state of the art in conventional and unconventional superconductors In addition to full coverage of novel materials and underlying mechanisms the handbook reflects continued intense research into electron phone based superconductivity **Superconductors** Yury Grigorashvili,2012-04-20 Book Superconductors Properties Technology and Applications gives an overview of major problems encountered in this field of study Most of the material presented in this book is the result of authors own research that has been carried out over a long period of time A number of chapters thoroughly describe the fundamental electrical and

structural properties of the superconductors as well as the methods researching those properties The sourcebook comprehensively covers the advanced techniques and concepts of superconductivity It's intended for a wide range of readers

**Quasi-one-dimensional Organic Superconductors** Wei Zhang, Carlos A R Sa De Melo, 2018-06-22 The book includes a thorough description of a wide range of physical properties of organic superconductors of reduced dimensionality The authors start with an overview of the field followed by a background discussion and selected experimental topics A critical discussion of theoretical proposals is presented under the constraints of experimental observations and exciting possibilities for the symmetry of the order parameter are presented including the cases of inhomogeneous superconducting states and triplet superconductivity The possible origins of Cooper pairing are explored and tests to detect experimentally the pairing symmetry are described in detail The book ends with a discussion of important open questions where the search for their answers will keep the field alive for the next decade

*Critical Currents In Superconductors - Proceedings Of The 7th International Workshop* H W Weber, 1994-08-31 Applications of superconductivity at the boiling temperature of liquid nitrogen continue to challenge physicists materials scientists and engineers all over the world eight years after the discovery of high temperature superconductivity The key to a solution of today's problems lies in the optimization of the defect structure in well oriented oxide materials as well as in a fundamental understanding of the magnetic microstructures in the mixed state and how they are affected by the crystallographic nature dimensionality of these materials Fifteen invited overview lectures as well as approximately 150 contributed papers highlight the state of the art in this important field of superconductivity and review our current knowledge of critical currents in superconductors

Vortices and Nanostructured Superconductors Adrian Crisan, 2017-07-19 This book provides expert coverage of modern and novel aspects of the study of vortex matter dynamics and pinning in nanostructured and multi component superconductors Vortex matter in superconducting materials is a field of enormous beauty and intellectual challenge which began with the theoretical prediction of vortices by A Abrikosov Nobel Laureate Vortices vortex dynamics and pinning are key features in many of today's human endeavors from the huge superconducting accelerating magnets and detectors at the Large Hadron Collider at CERN which opened new windows of knowledge on the universe to the tiny superconducting transceivers using Rapid Single Flux Quanta which have opened a revolutionary means of communication In recent years two new features have added to the intrinsic beauty and complexity of the subject nanostructured nanoengineered superconductors and the discovery of a range of new materials showing multi component multi gap superconductivity In this book leading researchers survey the most exciting and important recent developments in the field Topics covered include the use of scanning Hall probe microscopy to visualize interactions of a single vortex with pinning centers Magneto Optical Imaging for investigating what vortex avalanches are why they appear and how they can be controlled and the vortex interactions responsible for the second magnetization peak Other chapters discuss nanoengineered pinning centers of vortices for improved current carrying

capabilities current anisotropy in cryomagnetic devices in relation to the pinning landscape and the new physics associated with the discovery of new superconducting materials with multi component superconductivity The book offers something for almost everybody interested in the field from experimental techniques to visualize vortices and study their dynamics to a state of the art theoretical microscopic approach to multicomponent superconductivity    *Nuclear Science Abstracts*

,1975-03    **Advances in Superconductivity VI** Toshizo Fujita,Yuh Shiohara,2012-12-06 More than seven years have passed since the dramatic breakthrough in the critical temperature for superconductors During this period a host of new materials have been discovered and efforts have been stepped up in a variety of domains including device and systems applications commercialization and basic research on the properties of superconductive materials Recent progress in areas such as bulk single crystal production long scale wire and tape production flywheel and bearing applications and electronic device applications for thin films indicate that science and technology have been working hand in hand in this field as has been the case in the research and development of semiconductors This interdisciplinary resonance will be certain to lead to further outstanding advances in the years to come It goes without saying that worldwide information exchange is the key to accelerating progress in superconductivity science and technology As in previous years the ISS 93 served as a venue where visions of future developments were shared in addition to presentations and extensive discussions on the most up to date research results I hope that the Proceedings contained in this volume will be consulted not only as a summary of the current state of the art in high Tc superconductivity but also as a stimulating source of ideas regarding future applications of superconductivity research    *Frontiers in Superconductivity Research* Barry P. Martins,2003

Superconductivity is the ability of certain materials to conduct electrical current with no resistance and extremely low losses High temperature superconductors such as  $\text{La}_2\text{xSr}_x\text{CuO}_x$  Tc 40K and  $\text{YBa}_2\text{Cu}_3\text{O}_7$  x Tc 90K were discovered in 1987 and have been actively studied since In spite of an intense worldwide 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 Tc 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 Tc 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 aluminum wires of the same size Many universities research institutes and companies are working to develop high Tc superconductivity applications and considerable progress has been made This volume brings together leading research in this growth field    **Unconventional Superconductors** Iman Askerzade,2012-01-13 This book presents the anisotropy and

multiband effects in newly discovered unconventional superconductors cuprate superconductors borocarbides magnezium diboride and oxypnictides The physical properties of these unconventional superconductors and the application of the two band Ginzburg Landau theory to these superconducting compounds are explained Temperature dependencies of fundamental superconducting parameters are calculated using the GL theory taking into account multiband and anisotropy effects A comparision of theoretical results and experimental data is conducted Additionally the analytical solution of the microscopical Eliashberg theory and of the BCS theory is developed for two band and anisotropic superconductors

Fluctuation effects in newly discovered superconductors are also discussed    [Physics and Materials Science of Vortex States, Flux Pinning and Dynamics](#) R. Kossowsky,Shyamalendu Bose,Zafer Durusoy,Vladimir Pan,1999-04-30 A discussion by an assembly of expert physicists and materials scientists embracing the specific features of vortex pin interactions the modes of different kinds of vortex motion under the action of Lorenz force and the mechanisms of dissipation The effects of transport and screening currents superimposed AC magnetic fields and the microwave electromagnetic irradiation on vortex behaviour define the electromagnetic properties of a high Tc superconducting material The mechanisms driving the depinning of vortices and the dynamics of their motion determine the critical current density and its file dependence the mechanisms of energy dissipation and linear and nonlinear resistivity AC losses and noise in electronic circuitry The book therefore has direct implications for the development of new devices and components in electrical engineering modern electronics computer technology and microwave communication    [Flux Pinning in Superconductors](#) Teruo

Matsushita,2014-02-20 The book covers the flux pinning mechanisms and properties and the electromagnetic phenomena caused by the flux pinning common for metallic high Tc and MgB2 superconductors The condensation energy interaction known for normal precipitates or grain boundaries and the kinetic energy interaction proposed for artificial Nb pins in Nb Ti etc are introduced for the pinning mechanism Summation theories to derive the critical current density are discussed in detail Irreversible magnetization and AC loss caused by the flux pinning are also discussed The loss originally stems from the ohmic dissipation of normal electrons in the normal core driven by the electric field induced by the flux motion The readers will learn why the resultant loss is of hysteresis type in spite of such mechanism The influence of the flux pinning on the vortex phase diagram in high Tc superconductors is discussed and the dependencies of the irreversibility field are also described on other quantities such as anisotropy of superconductor specimen size and electric field strength Recent developments of critical current properties in various high Tc superconductors and MgB2 are introduced Other topics are singularity in the case of transport current in a parallel magnetic field such as deviation from the Josephson relation reversible flux motion inside pinning potentials which causes deviation from the critical state model prediction the concept of the minimization of energy dissipation in the flux pinning phenomena which gives the basis for the critical state model etc Significant reduction in the AC loss in AC wires with very fine filaments originates from the reversible flux motion which is

dominant in the two dimensional pinning The concept of minimum energy dissipation explains also the behavior of flux bundle size which determines the irreversibility line under the flux creep The new edition has been thoroughly updated with new sections on the progress in enhancing the critical current density in high temperature superconductors by introduction of artificial pinning centers the effect of packing density on the critical current density and irreversibility field in MgB<sub>2</sub> and derivation of the force balance equation from the minimization of the free energy including the pinning energy    Fermi Surfaces of Low-Dimensional Organic Metals and Superconductors Joachim Wosnitza, 2006-04-11 Fermi Surfaces of Low Dimensional Organic Metals and Superconductors is an introduction to quasi one and quasi two dimensional organic metals and a review of the current knowledge on the electronic structure of these materials The principal structural electronic and superconducting properties are described and illustrated with many examples The book introduces the basic theoretical concepts necessary for the understanding of the experimental techniques and reviews in detail recent results in the investigation of the Fermi surface topology The book is intended both as an introduction and as a reference book for active researchers    Proceedings of the 4th International Conference and Exhibition: World Congress on Superconductivity, Volume 1 ,1995

## Enjoying the Beat of Term: An Mental Symphony within **Low Magnetic Fields In Anisotropic Superconductors**

In a world eaten by displays and the ceaseless chatter of instantaneous transmission, the melodic beauty and mental symphony created by the written term usually disappear in to the backdrop, eclipsed by the relentless noise and disruptions that permeate our lives. Nevertheless, nestled within the pages of **Low Magnetic Fields In Anisotropic Superconductors** a stunning literary treasure brimming with natural thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this captivating masterpiece conducts readers on a psychological trip, well unraveling the concealed songs and profound influence resonating within each carefully constructed phrase. Within the depths with this touching examination, we will discover the book's main harmonies, analyze its enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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### **Table of Contents Low Magnetic Fields In Anisotropic Superconductors**

1. Understanding the eBook Low Magnetic Fields In Anisotropic Superconductors
  - The Rise of Digital Reading Low Magnetic Fields In Anisotropic Superconductors
  - Advantages of eBooks Over Traditional Books
2. Identifying Low Magnetic Fields In Anisotropic Superconductors
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Low Magnetic Fields In Anisotropic Superconductors
  - User-Friendly Interface
4. Exploring eBook Recommendations from Low Magnetic Fields In Anisotropic Superconductors
  - Personalized Recommendations

- Low Magnetic Fields In Anisotropic Superconductors User Reviews and Ratings
  - Low Magnetic Fields In Anisotropic Superconductors and Bestseller Lists
5. Accessing Low Magnetic Fields In Anisotropic Superconductors Free and Paid eBooks
- Low Magnetic Fields In Anisotropic Superconductors Public Domain eBooks
  - Low Magnetic Fields In Anisotropic Superconductors eBook Subscription Services
  - Low Magnetic Fields In Anisotropic Superconductors Budget-Friendly Options
6. Navigating Low Magnetic Fields In Anisotropic Superconductors eBook Formats
- ePUB, PDF, MOBI, and More
  - Low Magnetic Fields In Anisotropic Superconductors Compatibility with Devices
  - Low Magnetic Fields In Anisotropic Superconductors Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Low Magnetic Fields In Anisotropic Superconductors
  - Highlighting and Note-Taking Low Magnetic Fields In Anisotropic Superconductors
  - Interactive Elements Low Magnetic Fields In Anisotropic Superconductors
8. Staying Engaged with Low Magnetic Fields In Anisotropic Superconductors
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Low Magnetic Fields In Anisotropic Superconductors
9. Balancing eBooks and Physical Books Low Magnetic Fields In Anisotropic Superconductors
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Low Magnetic Fields In Anisotropic Superconductors
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Low Magnetic Fields In Anisotropic Superconductors
- Setting Reading Goals Low Magnetic Fields In Anisotropic Superconductors
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Low Magnetic Fields In Anisotropic Superconductors
- Fact-Checking eBook Content of Low Magnetic Fields In Anisotropic Superconductors

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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