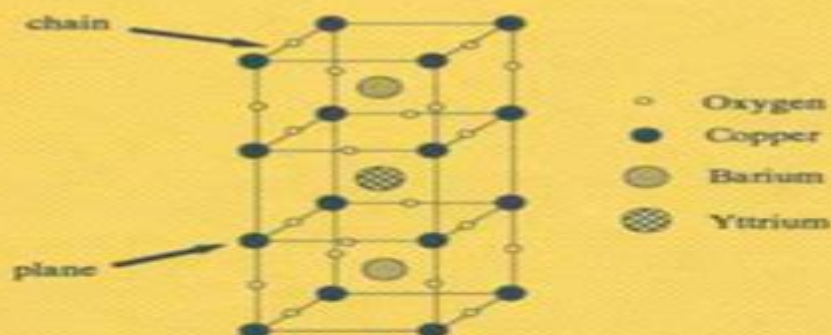


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Low Magnetic Fields in Anisotropic Superconductors



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Low Magnetic Fields In Anisotropic Superconductors

Wei Zhang, Carlos A R Sa De Melo



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_c materials since 1986. 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.

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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.

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

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 Nb₃Sn. 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.

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 NdBa₂Cu₃O_{7-x} materials 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_c 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 astrophysics 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.

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 phonon based superconductivity **Superconductors** Yuri 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 is intended for a wide range of readers

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_c thin films and junctions to increase speed lessen noise lower power consumption and enhance upper frequency limits in superconductor electronics **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 **Nuclear Science Abstracts**, 1974 Scientific and

Technical Aerospace Reports, 1992 *OAR Cumulative Index of Research Results*, 1967 *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 OAR Quarterly Index of Current Research Results United States. Air Force. Office of Aerospace Research,1967

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 **Neutron Scattering in Layered Copper-Oxide Superconductors** Albert Furrer,2012-12-06

The phenomenon of superconductivity after its discovery in metals such as mercury lead zinc etc by Kamerlingh Onnes in 19 has attracted many scientists Superconductivity was described in a very satisfactory manner by the model proposed by Bardeen Cooper and Schrieffer and by the extensions proposed by Abrikosov Gorkov and Eliashberg Relations were established between superconductivity and the fundamental properties of solids resulting in a possible upper limit of the critical temperature at about 23 K The breakthrough that revolutionized the field was made in 1986 by Bednorz and Muller with the discovery of high temperature superconductivity in layered copper oxide perovskites Today the record in transition temperature is 133 K for a Hg based cuprate system The last decade has not only seen a revolution in the size of the critical temperature but also in the myriads of research groups that entered the field In addition high temperature superconductivity became a real interdisciplinary topic and brought together physicists chemists and materials scientists who started to investigate the new compounds with almost all the available experimental techniques and theoretical methods As a consequence we have witnessed an avalanche of publications which has never occurred in any field of science so far and which makes it difficult for the individual to be thoroughly informed about the relevant results and trends Neutron scattering has outstanding properties in the elucidation of the basic properties of high temperature superconductors Science and Technology of Thin Film Superconductors R.D. McConnell, Stuart A. Wolf,2012-12-06 The Conference on the Science and

Technology of Thin Film Superconductors was conceived in the early part of 1988 as a forum for the specialist in thin film superconductivity. The conference was held on November 14-18, 1988, in Colorado Springs, Colorado. Although many excellent superconductivity conferences had been convened in the wake of the 1986-1987 discoveries in high temperature superconductivity, thin film topics were often dispersed among the sessions of a more general conference agenda. The response to the Conference on the Science and Technology of Thin Film Superconductors confirmed the need for an extended conference devoted to thin film superconductors. These proceedings are a major contribution to the technology of thin film superconductivity because of the breadth and quality of the articles provided by leaders in the field. The proceedings are divided into articles on laser deposition, sputtering, evaporation, metal organic chemical vapor deposition, thick film, substrate studies, characterization, patterning and applications, and general properties. Most of the articles discuss scientific issues for high temperature thin film superconductors, although the conference was to be a forum for technology and scientific questions for both low and high temperature superconductivity. For the first day of the 5-day conference, Lawrence Berkeley Laboratory had organized an excellent set of short courses in superconducting thin film devices.

Proceedings of the International Conference on Low-Dimensional Conductors, 1982

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