

Subhash L. Shindé • David A. Rudman
Editors

INTERFACES IN HIGH- T_c SUPERCONDUCTING SYSTEMS



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Interfaces In High Tc Superconducting Systems

Robert R. Redfield



Interfaces In High Tc Superconducting Systems:

Interfaces in High-Tc Superconducting Systems Subhash L. Shinde, David A. Rudman, 2012-12-06 Because the new high temperature superconductors cannot be grown as large single crystals interfaces and junctions play an important role in their properties The chapters in this book each by leading researchers in the field examine the state of our understanding of such interfaces Chapters cover such topics as studies of YCBO films by transmission electron scanning tunneling and atomic force microscopy microstructure interfacial interactions and twin boundary structures in YCBO films grain boundary Josephson junctions and overlayer formation

Interfaces in High-Tc Superconducting Systems Subhash L. Shinde, David Rudman, 1993-12-17 Because the new high temperature superconductors cannot be grown as large single crystals interfaces and junctions play an important role in their properties The chapters in this book each by leading researchers in the field examine the state of our understanding of such interfaces Chapters cover such topics as studies of YCBO films by transmission electron scanning tunneling and atomic force microscopy microstructure interfacial interactions and twin boundary structures in YCBO films grain boundary Josephson junctions and overlayer formation

Electronic Properties of High-Tc Superconductors Hans Kuzmany, Michael Mehring, Jörg Fink, 2012-12-06 The International Winter School on Electronic Properties of High Temperature Superconductors held between March 7 14 1992 in Kirchberg Tyrol Austria was the sixth in a series of meetings to be held at this venue Four of the earlier meetings were dedicated to issues in the field of conducting polymers while the winter school held in 1990 was devoted to the new discipline of high T c superconductivity This year's meeting constituted a forum not only for the large number of scientists engaged in high Tc research but also for those involved in the new and exciting field of fullerenes Many of the issues raised during the earlier winter schools on conducting polymers and the last one on high T c superconductivity have taken on a new significance in the light of the discovery of superconducting C materials 60 The Kirchberg meetings are organized in the style of a school where experienced scientists from universities research laboratories and industry have the opportunity to discuss their most recent results and where students and young scientists can learn about the present status of research and applications from some of the most eminent workers in their field In common with the previous winter school on high Tc superconductors the of the cuprate superconductors present one focused on the electronic properties In addition consideration was given to related compounds which are relevant to the understanding of the electronic structure of the cuprates in the normal state to other oxide superconductors and to fulleride superconductors

Handbook of Superconductivity David A. Cardwell, David C. Larbalestier, Aleksander Braginski, 2022-07-05 This is the second 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 where a single coherent quantum state may extend over a distance of

metres or even kilometres depending on the size of a coil or length of superconducting wire Viable applications of superconductors rely fundamentally on an understanding of this intriguing phenomena and the availability of a range of materials with bespoke properties to meet practical needs While the first volume covers the fundamentals of superconductivity and the various classes of superconducting materials Volume 2 covers processing of the desired superconducting materials into desired forms bulks films wires and junction based devices The volume closes with articles on the refrigeration methods needed to put the materials into the superconducting state Key Features Covers the depth and breadth of the field Includes contributions from leading academics and industry professionals across the world Provides hands on guidance to the manufacturing and processing technologies 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

Applied Superconductivity Paul Seidel, 2015-01-22 This wide ranging presentation of applied superconductivity from fundamentals and materials right up to the details of many applications is an essential reference for physicists and engineers in academic research as well as in industry Readers looking for a comprehensive overview on basic effects related to superconductivity and superconducting materials will expand their knowledge and understanding of both low and high T_c superconductors with respect to their application Technology preparation and characterization are covered for bulk single crystals thin films as well as electronic devices wires and tapes The main benefit of this work lies in its broad coverage of significant applications in magnets power engineering electronics sensors and quantum metrology The reader will find information on superconducting magnets for diverse applications like particle physics fusion research medicine and biomagnetism as well as materials processing SQUIDs and their usage in medicine or geophysics are thoroughly covered as are superconducting radiation and particle detectors aspects on superconductor digital electronics leading readers to quantum computing and new devices

Diverse Superconducting Systems and Some Miscellaneous Aspects Anant Narlikar, 2001 Studies of High Temperature Superconductors Volume 37 Diverse Superconducting Systems Some Miscellaneous Applications

Scientific and Technical Aerospace Reports, 1995

From Quantum Paraelectric/Ferroelectric Perovskite Oxides to High Temperature Superconducting Copper Oxides -- In Honor of Professor K.A. Müller for His Lifework Annette Bussmann-Holder, Hugo Keller, Antonio Bianconi, 2021-03-15 With this book we wish to honor the lifework of K Alex Müller and present him with this book on the occasion of his 94th birthday We are convinced that he will very much enjoy reading it We would like to thank all contributors to this book who addressed topics complementary and related to his work The articles of the book represent the efforts in solid state physics spanning more than 60 years which have been groundbreaking in scientific and applied sciences Many of the current hot topics are derived from this earlier work which has pioneered the way toward new experimental tools and or refined techniques From this point of view the book presents on one hand a historical

review and on the other hand a directory of possible future research

Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.), National Institute of Standards and Technology (U.S.). Information Resources and Services Division, 1994

Electricity Supply Systems of the Future Nikos Hatziaargyriou, Iony Patriota de Siqueira, 2020-07-20 This book offers a vision of the future of electricity supply systems and CIGRE's views on the know how that will be needed to manage the transition toward them A variety of factors are driving a transition of electricity supply systems to new supply models in particular the increasing use of renewable sources environmental factors and developments in ICT technologies These factors suggest that there are two possible models for power network development and that those models are not necessarily exclusive 1 An increasing importance of large networks for bulk transmission capable of interconnecting load regions and large centralized renewable generation resources including offshore and of providing more interconnections between the various countries and energy markets 2 An emergence of clusters of small largely self contained distribution networks which include decentralized local generation energy storage and active customer participation intelligently managed so that they operate as active networks providing local active and reactive support The electricity supply systems of the future will likely include a combination of the above two models since additional bulk connections and active distribution networks are needed in order to reach ambitious environmental economic and security reliability targets This concise yet comprehensive reference resource on technological developments for future electrical systems has been written and reviewed by experts and the Chairs of the sixteen Study Committees that form the Technical Council of CIGRE

Energy Research Abstracts, 1993

Superconductivity A. Bisarsh, 1999 This book consists of over 600 selected descriptions and abstracts of books book chapters patents and journal articles from throughout the world dealing with this high profile topic Each citation contains complete bibliographic data plus key words The entries are grouped under the headings of Theory of Superconductivity Superconducting Devices Superconducting Properties of Materials Applications of Superconductors Author Index Subject Index

Fabrication of Bi-Sr-Ca-Cu-O Superconducting Thin Films and Interface Studies YiFeng Yang, 1993

Energy and Water Development Appropriations for 2004 United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2003

Large Space Structures & Systems in the Space Station Era, 1991

Structure and Properties of Interfaces in Ceramics: Volume 357 Dawn A. Bonnell, Manfred Rühle, Uma Chowdhry, 1995-07-03 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

Applied Mechanics Reviews, 1989

108-1 Hearings: Energy and Water Development Appropriations For 2004, Part 4, 2003, *, 2003

Superconductor Industry, 1991

Cities and Their Vital Systems Advisory Committee on Technology and Society, 1989 Cities and Their Vital Systems asks basic questions about the longevity utility and nature of urban infrastructures analyzes how they grow interact and change and asks how when and at what cost they should be replaced Among the topics discussed

are problems arising from increasing air travel and airport congestion the adequacy of water supplies and waste treatment the impact of new technologies on construction urban real estate values and the field of telematics the combination of computers and telecommunications that makes money machines and national newspapers possible

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