



# High Tc Superconductor Thin Films

**O. Auciello, Jürgen Engemann**



## High Tc Superconductor Thin Films:

*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.

**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.

Science and Technology of Thin Film Superconductors 2 R.D. McConnell, R. Noufi, 2012-12-06 This conference is the second on the Science and Technology of Thin Film Superconductors. It proved to be an excellent forum for these specialists in thin film superconductivity. The conference held April 30-May 4, 1990 in Denver, Colorado, hosted 170 researchers from 17 countries. The response to the conference again emphasized the need for a meeting devoted to the science and technology of thin film superconductors. The breadth of articles and advances made in this technology since the first conference in November 1988 reflect on the maturity of the topic. These proceedings contain articles on deposition methods by sputtering, electron beam evaporation, resistive evaporation, laser ablation, chemical vapor deposition, and electrodeposition, and on other studies related to substrates, thermodynamics of formation, grain boundaries, and weak links, characterization, and some practical applications. The program committee was pleased with the quality of the publications and contributed articles. This

conference was highlighted by a fuU day dedicated to presentations from the federal laboratories discussing a wide range of topics on the fabrication characterization and theory of high temperature superconductor thin films Other highlights at the conference dealt with 1 critical parameters or problems in measuring critical current density and other important parameters and 2 problems of scale up reproducibility and amenability to device fabrication It became evident from the presentations that three issues were developing into critical issues for the ultimate practical application of high temperature superconductor thin films

**High Tc 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

**High Tc Superconductor Materials** E. Kaldis, J. Schoenes, H.-U. Habermeier, 2012-12-02 The dynamic developments in high temperature superconductivity over the last three years has augmented the importance of materials research not only for applications but also for the understanding of underlying physical phenomena The discovery of new superconductors has opened up new facets of High Tc research and the perfection of already known materials has enabled reliable physical measurements to be carried out providing a foundation for theoretical models The papers in this volume present an overview of the recent developments in the field of High Tc materials research One of the highlights of this meeting was the plenary lecture by the Nobel laureate K Alex Müller on the importance of the apical oxygen phenomena which are strongly connected with Tc changes

Processing and Applications of High Tc Superconductors Metallurgical Society (U.S.). Northeast Regional Meeting, Metallurgical Society of AIME. Northeast Regional Meeting, 1988 Proceedings of the TMS Northeast Regional Meeting held May 1988 Rutgers New Jersey Focus is on the processing and potential applications of high Tc superconductors in both bulk and thin film forms Particular attention is given to innovative methods for processing these materials into forms suit

**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

**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

**High Tc Superconductors** P.F. Bongers,C. Schlenker,B. Stritzker,2012-12-02 The papers in this two volume set provide the latest information on research and development in the field of high Tc materials Special emphasis is placed on methods of preparation and microstructural characterization for both thin films and single crystals Considerable attention is also paid to the potential applications of thin films and bulk materials The following topics are covered in detail New superconductors Relations between structure and or substitution and superconductivity in ternary Cu oxides Single crystals microstructure Thin films preparation and properties Technical applications

*Iron-Based Superconducting Thin Films* Silvia Haindl,2021-06-27 This book provides a modern introduction to the growth characterization and physics of iron based superconducting thin films Iron pnictide and iron chalcogenide compounds have become intensively studied key materials in condensed matter physics due to their potential for high temperature superconductivity With maximum critical temperatures of around 60 K the new superconductors rank first after the celebrated cuprates and the latest announcements on ultrathin films promise even more Thin film synthesis of these superconductors began in 2008 immediately after their discovery and this growing research area has seen remarkable progress up to the present day especially with regard to the iron chalcogenides FeSe and FeSe<sub>1-x</sub>Te<sub>x</sub> the iron pnictide BaFe<sub>2</sub>(As<sub>1-x</sub>P<sub>x</sub>)<sub>2</sub> and iron oxyarsenides This essential volume provides comprehensive state of the art coverage of iron based superconducting thin films in topical chapters with detailed information on thin film synthesis and growth analytical film characterization interfaces and various aspects on physics and materials properties Current efforts towards technological applications and functional films are outlined and discussed The development and latest results for monolayer FeSe films are also presented This book serves as a key reference for students lecturers industry engineers and academic researchers who would like to gain an overview of this complex and growing research area

**High-Tc Superconductivity** R. Bruce Van Dover,Cheng-Chung Chi,1988

**Hg-based High Tc Superconductors** ,1997

**Multicomponent and Multilayered Thin Films for Advanced Microtechnologies:**

**Techniques, Fundamentals and Devices** O. Auciello, Jürgen Engemann, 2012-12-06 The synthesis of multicomponent multilayered superconducting conducting semiconducting and insulating thin films has become the subject of an intensive worldwide interdisciplinary research effort The development of deposition characterization techniques and the science and technology related to the synthesis of these films are critical for the successful evolution of this interdisciplinary field of research and the implementation of the new materials in a whole new generation of advanced microdevices This book contains the lectures and contributed papers on various scientific and technological aspects of multicomponent and multilayered thin films presented at a NATO ASI Compared to other recent books on thin films the distinctive character of this book is the interdisciplinary treatment of the various fields of research related to the different thin film materials mentioned above The wide range of topics discussed in this book include vacuum deposition techniques synthesis processing characterization and devices of multicomponent multilayered oxide high temperature superconducting ferroelectric electro optic optical metallic silicide and compound semiconductor thin films The book presents an unusual interdisciplinary exchange of ideas between researchers with cross disciplinary backgrounds and it will be useful to established investigators as well as postdoctoral and graduate students

**Lectures On High Temperature Superconductivity** Z Z Gan, Guo Zhen Yang, Z X Zhao, S S Xie, Rushan Han, 1991-10-31 The first part of these proceedings contains the invited lectures which aim to unify and summarize briefly the systematic knowledge and latest developments in the entire spectrum of high T<sub>c</sub> superconductivity including the phenomenological and microscopic theory on HTS crystal structures and defects the fabrication of high T<sub>c</sub> superconductors physical properties of HTSC tunneling junctions and electronics of HTSC etc The second part consists of the abstracts of all reports given at the seminar sessions

Quaternary Borocarbides, Superconductors and Hg-based High T<sub>c</sub> Superconductors Anant Narlikar, 1998 Nine technical papers devoted primarily to the carbides the discovery of which has been a major event in the field of superconductors during the past five years They also include some extended treatments and reviews relating to the mercury based highest temperature superconducting material discovered to date The specific topics include the discovery of the system the interrelation between magnetism and superconductivity the dependency of superconductivity and magnetism on material parameters properties of the thin films synthesizing and characterizing the intermetallic compound and what the magnetic properties of mercury cuprate high temperature superconductors reveal Reproduced from typescripts Annotation copyrighted by Book News Inc Portland OR

*Lattice Effects In High T<sub>c</sub> Superconductors - Proceedings Of The Conference* T Egami, A R Bishop, J Mustre De Leon, Yaneer Bar-yam, 1992-12-21 The focus of the workshop is the role of crystal lattices i e atomic structure phonons lattice distortions in the mechanism of high temperature superconductivity in oxides In spite of the intense research effort during the last five years the mechanism of high temperature superconductivity still remains unknown While earlier theories focused primarily on the role of magnetic interaction recent experimental results strongly suggest that anharmonic local

atomic displacements in particular those induced by charge carriers are critically involved in creating high temperature superconductivity In this workshop experimentalists and theoreticians address this issue with the hope of stimulating real progress in this area      **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      **Energy Research Abstracts** ,1995      **Advanced Materials Source Book** Jon Binner,Paul Hogg,John Murphy,2013-10-22 Advanced Materials Source Book 1994 1995 presents the developments in the field of advanced materials This book provides information regarding materials and products legislation patents advances in processing and equipment standards and testing procedures Organized into four chapters this book begins with an overview of the international market trends specific materials or materials groups and appliances This text then examines the applications and makes market projections on a wide range of specialty materials including ceramics biomaterials electronic materials and optical materials Other chapters consider the healthy nature of predictions concerning Japan and parts of Europe stating that Germany and Japan will lead the advanced structural ceramics market This book discusses as well the developments concerning various materials The final chapter presents a list of contact details for the organizations listed in the main text to allow the readers to make new contacts or to follow up items of particular interest This book is a valuable resource for private consumers      **Scientific and Technical Aerospace Reports** ,1995

## Whispering the Strategies of Language: An Emotional Quest through **High Tc Superconductor Thin Films**

In a digitally-driven world wherever displays reign great and immediate interaction drowns out the subtleties of language, the profound strategies and emotional subtleties hidden within words often get unheard. However, nestled within the pages of **High Tc Superconductor Thin Films** a charming fictional value blinking with raw emotions, lies a fantastic quest waiting to be undertaken. Published by a skilled wordsmith, that enchanting opus encourages readers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within ab muscles fabric of each and every word. Within the emotional depths of this touching review, we will embark upon a genuine exploration of the book is primary themes, dissect their fascinating publishing fashion, and yield to the powerful resonance it evokes deep within the recesses of readers hearts.

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