

# Magnetic Susceptibility of Superconductors and Other Spin Systems

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# Magnetic Susceptibility Of Superconductors And Other Spin Systems

**H W Weber**



## **Magnetic Susceptibility Of Superconductors And Other Spin Systems:**

**Magnetic Susceptibility of Superconductors and Other Spin Systems** T.L. Francavilla, R.A. Hein, D.H. Liebenberg, 2013-11-11 The workshop entitled Magnetic Susceptibility of Superconductors and other Spin Systems S4 was held at Coolfont Resort and Health Spa located near Berkley Springs West Virginia on May 20-23 1991. There were over sixty attendees approximately half from the United States the remainder representing over twelve different countries. The international character of the workshop may be gleaned from the attendee list included in this volume. The intent of the workshop was to bring together those experimentalists and theoreticians whose efforts have resulted in significant recent contributions to the development and use of the ac susceptibility technique as well as to the interpretation of data obtained from these measurements. Many spirited discussions occurred during and after the presentations. These are reflected in the manuscripts contained in these proceedings. Although camera ready manuscripts were required from all participants at registration all manuscripts were revised and reflect the lively exchanges that followed each presentation. The small size of the workshop allowed the participants a high degree of flexibility. Consequently when a controversial topic such as the irreversibility line emerged a special session was organized on the spot. At the suggestion of Ron Goldfarb participants were invited to contribute a one page summary containing their thoughts on the topic. These stand alone contributions were retyped and included as submitted with only minor editorial changes. These proceedings are intended for those experienced scientists new to the field and graduate students just beginning their research. **Handbook of Superconducting**

**Materials** David A. Cardwell, David S. Ginley, 2003 **Field Penetration and Magnetization of High Temperature Superconductors** A. V. Narlikar, 1995 Visualisation of Shubnikov Phase Using the High Resolution Faraday Effect Mechanism of microwave Absorption and Flux Distribution in High Temperature Superconductors Field Penetration and Magnetisation of H<sub>ts</sub> Experimental Aspects of Magnetisation Studies in Superconductors Recent Development of the Critical State Model Anomalous Magnetisation in YBaCuO Single Crystals Surface Barrier and Fish Tail Low Field Magnetic Behaviour of High Temperature Superconductors Irreversible Part of Magnetisation Due to Flux Pinning Irreversibility Line in High Temperature Superconductors Non Linear Flux Flow Regime High Temperature Superconductors 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 Superconductivity Adir Luiz,2011-07-18 Superconductivity was discovered in 1911 by Kamerlingh Onnes Since the discovery of an oxide superconductor with critical temperature  $T_c$  approximately equal to 35 K by Bednorz and Muller 1986 there are a great number of laboratories all over the world involved in research of superconductors with high  $T_c$  values the so called High  $T_c$  superconductors This book contains 15 chapters reporting about interesting research about theoretical and experimental aspects of superconductivity You will find here a great number of works about theories and properties of High  $T_c$  superconductors materials with  $T_c$  30 K In a few chapters there are also discussions concerning low  $T_c$  superconductors  $T_c$

**Experimental Techniques in Magnetism and Magnetic Materials** Sindhunil Barman Roy,2023-01-05 This book is written to introduce experimental magnetism in a comprehensive manner to advanced undergraduate postgraduate and doctoral students pursuing studies in physics material sciences and engineering It is an excellent resource providing an overview of the various experimental techniques in magnetism and magnetic materials The text is partitioned into three parts Part I deals with a brief history of magnetism and magnetic materials along with their role in modern society A concise account of their current technological applications is also provided Part II focusses on the basic phenomena of magnetism Part III consists of chapters discussing a variety of experimental practices needed to study the microscopic as well as macroscopic aspects of different kinds of magnetic phenomena and materials **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

*Superfluids and Superconductors* Roberto Zivieri,2018-05-30 This book covers some of the most recent advances in the

field of superfluids and superconductors More specifically it presents some of the most advanced theoretical formulations of superfluidity and superconductivity with special regard to their topological properties and vortex dynamics together with a description of the main experiments carried out via experimental techniques at the forefront to study these two such important phenomena in condensed matter physics Special emphasis is given to ultracold Fermi gases to clean liquid helium and to vortex membranes and knots for the class of superfluids and to the emerging superconductivity to intermediate states in type I superconductors and to heat treatments to modulate the critical temperature for the class of superconductors

*Magnetic Measurement Techniques for Materials Characterization* Victorino Franco,Brad Dodrill,2021-09-28 This book discusses the most commonly used techniques for characterizing magnetic material properties and their applications It provides a comprehensive and easily digestible collection and review of magnetic measurement techniques It also examines the underlying operating principles and techniques of magnetic measurements and presents current examples where such measurements and properties are relevant Given the pervasive nature of magnetic materials in everyday life this book is a vital resource for both professionals and students wishing to deepen their understanding of the subject Measurement Technology and its Application III Prasad Yarlagadda,Yun Hae Kim,2014-06-10 Selected peer reviewed papers from the 2014 International Conference on Measurement Instrumentation and Automation ICMIA 2014 April 23 24 2014 Shanghai China

*Numerical Modeling Of Superconducting Applications: Simulation Of Electromagnetics, Thermal Stability, Thermo-hydraulics And Mechanical Effects In Large-scale Superconducting Devices* Bertrand Dutoit,Francesco Grilli,Frederic Sirois,2023-03-24 This book aims to present an introduction to numerical modeling of different aspects of large scale superconducting applications electromagnetics thermal mechanics and thermo hydraulics The importance of computational modeling to advance current superconductor research cannot be overlooked especially given the enormous benefits provided by superconductors in many human endeavours including energy generation medical treatments and future electrical technologies Aimed at graduate students researchers and practitioners in different fields of applied superconductivity this book consists of four chapters The chapter on electromagnetics provides a review of the state of the art modeling of electromagnetic phenomena in superconductors emphasising the theoretical aspects of the different numerical formulations This is followed by a chapter on thermal effects dedicated to the simulation of thermal stability and quench in superconducting magnets with specific examples of magnets used in particle accelerators Then the chapter on mechanics provides details of the modeling of forces and stresses in cables composed of second generation high temperature superconducting wires Finally the chapter on thermo hydraulics focuses on the fundamental thermal hydraulic aspects involved in the cooling of superconducting magnets with special reference to the issues related to the forced flow cooling

**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

Advanced Instrument Engineering: Measurement, Calibration, and Design Lay-Ekuakille, Aimé, 2013-06-30 Measurement technologies and instrumentation have a multidisciplinary impact in the field of applied sciences These engineering technologies are necessary in processing information required for renewable energy biotechnology power quality and nanotechnology Advanced Instrument Engineering Measurement Calibration and Design presents theoretical and practical aspects on the activities concerning measurement technologies and instrumentation This wide range of new ideas in the field of measurements and instrumentation is useful to researchers scientists practitioners and technicians for their area of expertise

*Processing And Properties Of High- $T_c$  Superconductors - Volume 1: Bulk Materials* Sungho Jin, 1991-03-01 The purpose of this book is to offer the high  $T_c$  community a comprehensive state of the art review on bulk processing with the hope that the book would serve in part as an updated review for expert scientists and in part as a reference text book on processing for young scientists graduate students and those who wish to keep track of advances and technological trends in HTSC Readers in the superconductor science technology education areas will find this book prepared by the world's leading experts informative and useful

**Physics and Materials Science of Vortex States, Flux Pinning and Dynamics** R. Kossowsky, Shyamalendu Bose, Vladimir Pan, Zafer Durusoy, 1999-04-30 Proceedings of the NATO Advanced Study Institute Kusadasi Turkey July 26 August 8 1998

**Superconductivity Research Developments** James R. Tobin, 2008 Superconductivity is a phenomenon occurring in certain materials at extremely low temperatures characterized by exactly zero electrical resistance and the exclusion of the interior magnetic field the Meissner effect The electrical resistivity of a metallic conductor decreases gradually as the temperature is lowered However in ordinary conductors such as copper and silver impurities and other defects impose a lower limit Even near absolute zero a real sample of copper shows a non zero resistance The resistance of a superconductor on the other hand drops abruptly to zero when the material is cooled below its critical temperature typically 20 kelvin or less An electrical current flowing in a loop of superconducting wire can persist indefinitely with no power source Like ferromagnetism and atomic spectral lines superconductivity is a quantum mechanical phenomenon It cannot be understood simply as the idealisation of perfect conductivity in classical physics Superconductivity occurs in a wide variety of materials including simple elements like tin and aluminium various metallic alloys and some heavily doped semiconductors Superconductivity does not occur in noble metals like gold and silver nor in most ferromagnetic metals In 1986 the discovery of a family of cuprate perovskite ceramic materials known as high temperature superconductors with critical temperatures in excess of 90 kelvin spurred renewed interest and research in superconductivity for several reasons As a topic of pure research these materials represented a new phenomenon not explained by the current theory And because the superconducting state persists up to more manageable temperatures more commercial applications are feasible especially if materials with even higher critical temperatures could be discovered This new book presents leading research from around the world in this dynamic field

**Advances in Cryogenic Engineering**

**Materials** U. Balu Balachandran, Donald G. Gubser, K. Ted Hartwig, Richard P. Reed, William H. Warnes, Victoria A. Bardos, 2013-11-21 Since 1954 *Advances in Cryogenic Engineering* has been the archival publication of papers presented at the biennial CEC ICMC conferences. *Advances in Cryogenic Engineering* resides throughout the world in the libraries of most institutions that conduct research and development in cryogenic engineering and applied superconductivity. The publication includes invited, unsolicited, and government-sponsored research papers in the research areas of superconductors and structural materials for cryogenic applications. All of the papers published must 1 be presented at the conference 2 pass the review process and 3 report previously unpublished theoretical studies, reviews, or measurements of material properties at low temperatures. Victoria A. Bardos, Managing Editor

**Superconductivity** Charles P. Poole, Horacio A. Farach, Richard J. Creswick, Ruslan Prozorov, 2014-07-22 *Superconductivity* Third Edition is an encyclopedic treatment of all aspects of the subject from classic materials to fullerenes. Emphasis is on balanced coverage with a comprehensive reference list and significant graphics from all areas of the published literature. Widely used theoretical approaches are explained in detail. Topics of special interest include high temperature superconductors, spectroscopy, critical states, transport properties, and tunneling. This book covers the whole field of superconductivity from both the theoretical and the experimental point of view. This third edition features extensive revisions throughout and new chapters on second critical field and iron-based superconductors. Comprehensive coverage of the field of superconductivity. New content on magnetic properties, fluxons, anisotropies, and more. Over 2500 references to the literature. Enhanced data tables

**Advances in Superconductivity XI** N. Koshizuka, S. Tajima, 2013-11-11 The 11th International Symposium on Superconductivity was held November 16-19, 1998 in Fukuoka, Japan. Convened annually since 1988, the symposium covers the whole field of superconductivity from fundamental physics and chemistry to new applications. At the 11th Symposium, there was increased interest reported in the development of trial devices using bismuth wires and yttrium-based bulk materials. Among the presentations were those that clearly defined the development targets for next-generation yttrium-based wires and bulk materials and single flux quantum (SFQ) circuits. Other popular topics were high temperature superconductivity applications such as SQUIDs, microwave filters, and cryocooler-cooled magnets. With more than 600 participants from 18 countries, the symposium provided an excellent forum for exchanges of the most recent information in the field of superconductivity

**High-Temperature Superconducting Materials: Science and Engineering** Donglu Shi, 1995-02-20 This book explores the fascinating field of high temperature superconductivity. Basic concepts including experimental techniques and theoretical issues are discussed in a clear, systematic manner. In addition, the most recent research results in the measurements, materials synthesis, and processing and characterization of physical properties of high temperature superconductors are presented. Researchers and students alike can use this book as a comprehensive introduction not only to superconductivity but also to materials-related research in electromagnetic ceramics. Special features of the book present recent developments in vortex state properties.

defects characterization and phase equilibrium introduces basic concepts for experimental techniques at low temperatures and high magnetic fields provides a valuable reference for materials related research discusses potential industrial applications of high temperature superconductivity includes novel processing technologies for thin film and bulk materials suggests areas of research and specific problems whose solution can make high  $T_c$  superconductors a practical reality



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