

Selected Topics in Superconductivity

Electromagnetic Absorption in the Copper Oxide Superconductors

*Frank J. Owens and
Charles P. Poole, Jr.*

Electromagnetic Absorption In The Copper Oxide Superconductors

JS Bruner



Electromagnetic Absorption In The Copper Oxide Superconductors:

Electromagnetic Absorption in the Copper Oxide Superconductors Frank J. Owens, Charles P. Poole Jr., 2006-04-11

In 1987 a major breakthrough occurred in materials science. A new family of materials was discovered that became superconducting above the temperature at which nitrogen gas liquifies, namely 77 K or 196 C. Within months of the discovery a wide variety of experimental techniques were brought to bear in order to measure the properties of these materials and to gain an understanding of why they superconduct at such high temperatures. Among the techniques used were electromagnetic absorption in both the normal and the superconducting states. The measurements enabled the determination of a wide variety of properties and in some instances led to the observation of new effects not seen by other measurements such as the existence of weak link microwave absorption at low dc magnetic fields. The number of different properties and the degree of detail that can be obtained from magnetic field and temperature dependent studies of electromagnetic absorption are not widely appreciated. For example these measurements can provide information on the band gap, critical fields, the H_{c2} irreversibility line, the amount of trapped flux and even information about the symmetry of the wave function of the Cooper pairs. It is possible to use low dc magnetic field induced absorption of microwaves with derivative detection to verify the presence of superconductivity in a matter of minutes and the measurements are often more straightforward than others. For example they do not require the physical contact with the sample that is necessary when using four probe resistivity to detect superconductivity.

Electromagnetic Absorption in the Copper Oxide Superconductors Frank J. Owens, Charles P. Poole Jr., 2014-01-15

Electromagnetic Absorption in the Copper Oxide Superconductors Frank J. Owens, Charles P. Poole Jr., 2013-03-22

In 1987 a major breakthrough occurred in materials science. A new family of materials was discovered that became superconducting above the temperature at which nitrogen gas liquifies, namely 77 K or 196 C. Within months of the discovery a wide variety of experimental techniques were brought to bear in order to measure the properties of these materials and to gain an understanding of why they superconduct at such high temperatures. Among the techniques used were electromagnetic absorption in both the normal and the superconducting states. The measurements enabled the determination of a wide variety of properties and in some instances led to the observation of new effects not seen by other measurements such as the existence of weak link microwave absorption at low dc magnetic fields. The number of different properties and the degree of detail that can be obtained from magnetic field and temperature dependent studies of electromagnetic absorption are not widely appreciated. For example these measurements can provide information on the band gap, critical fields, the H_{c2} irreversibility line, the amount of trapped flux and even information about the symmetry of the wave function of the Cooper pairs. It is possible to use low dc magnetic field induced absorption of microwaves with derivative detection to verify the presence of superconductivity in a matter of minutes and the measurements are often more straightforward than others. For example they do not require the physical contact with the sample that is necessary when

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Superconductors Frank J. Owens, Charles P. Poole Jr., 1999-01-31 In 1987 a major breakthrough occurred in materials science. A new family of materials was discovered that became superconducting above the temperature at which nitrogen gas liquifies namely 77 K or 196 C. Within months of the discovery a wide variety of experimental techniques were brought to bear in order to measure the properties of these materials and to gain an understanding of why they superconduct at such high temperatures. Among the techniques used were electromagnetic absorption in both the normal and the superconducting states. The measurements enabled the determination of a wide variety of properties and in some instances led to the observation of new effects not seen by other measurements such as the existence of weak link microwave absorption at low dc magnetic fields. The number of different properties and the degree of detail that can be obtained from magnetic field and temperature dependent studies of electromagnetic absorption are not widely appreciated. For example these measurements can provide information on the band gap, critical fields, the H_{c2} irreversibility line, the amount of trapped flux and even information about the symmetry of the wave function of the Cooper pairs. It is possible to use low dc magnetic field induced absorption of microwaves with derivative detection to verify the presence of superconductivity in a matter of minutes and the measurements are often more straightforward than others. For example they do not require the physical contact with the sample that is necessary when using four probe resistivity to detect superconductivity.

The Physics and Chemistry of

Nanosolids Frank J. Owens, Charles P. Poole, Jr., 2008-04-11 A comprehensive textbook that addresses the recent interest in nanotechnology in the engineering, materials science, chemistry and physics communities. In recent years nanotechnology has become one of the most promising and exciting fields of science, triggering an increasing number of university engineering, materials science, chemistry and physics departments to introduce courses on this emerging topic. Now Drs Owens and Poole have revised, updated and revamped their 2003 work, *Introduction to Nanotechnology*, to make it more accessible as a textbook for advanced undergraduate and graduate level courses on the fascinating field of nanotechnology and nanoscience. *The Physics and Chemistry of Nanosolids* takes a pedagogical approach to the subject and assumes only an introductory understanding of the physics and chemistry of macroscopic solids and models developed to explain properties such as the theory of phonon and lattice vibrations and electronic band structure. The authors describe how properties depend on size in the nanometer regime and explain why these changes occur using relatively simple models of the physics and chemistry of the solid state. Additionally, this accessible book provides an introductory overview of the basic principles of solids, describes the various methods used to measure the properties of nanosolids, explains how and why properties change when reducing the size of solids to nano dimensions and what they predict when one or more dimensions of a solid has a nano length. Presents data on how various properties of solids are affected by nanosizing and examines why these changes occur. Contains a chapter entirely devoted to the importance of carbon nanostructured materials and the potential applications of carbon

nanostructures The Physics and Chemistry of Nanosolids is complete with a series of exercises at the end of each chapter for readers to enhance their understanding of the material presented making this an ideal textbook for students and a valuable tutorial for technical professionals and researchers who are interested in learning more about this important topic

Multifrequency Electron Paramagnetic Resonance Sushil K. Misra, 2011-03-31 Filling the gap for a systematic authoritative and up to date review of this cutting edge technique this book covers both low and high frequency EPR emphasizing the importance of adopting the multifrequency approach to study paramagnetic systems in full detail by using the EPR method In so doing it discusses not only the underlying theory and applications but also all recent advances with a final section devoted to future perspectives *Stripes and Related Phenomena* Antonio Bianconi, Naurang L.

Saini, 2006-04-10 The problem of superconductors has been a central issue in Solid State Physics since 1987 After the discovery of superconductivity HTSC in doped perovskites it was realized that the HTSC appears in an unknown complex electronic phase of condensed matter In the early years all theories of HTSC were focused on the physics of a homogeneous 2D metal with large electron-electron correlations or on a 2D polaron gas Only after 1990 a novel paradigm started to grow where this 2D metallic phase is described as an inhomogeneous metal This was the outcome of several experimental evidences of phase separation at low doping Since 1992 a series of conferences on phase separation were organized to allow scientists to get together to discuss the phase separation and related issues Following the discovery by the Rome group in 1992 that the charges move freely mainly in one direction like the water running in the grooves in the corrugated iron foil a new scenario to understand superconductivity in the superconductors was open Because the charges move like rivers the physics of these materials shifts toward the physics of novel mesoscopic heterostructures and complex electronic solids Therefore understanding the striped phases in the perovskites not only provides an opportunity to understand the anomalous metallic state of cuprate superconductors but also suggests a way to design new materials of technological importance Indeed the stripes are becoming a field of general scientific interest **Introduction to Nanotechnology** Charles P. Poole, Jr., Frank J. Owens, 2003-05-30 Dieser breit gefasste praxisnahe Überblick über das brandaktuelle Gebiet der Nanotechnologie wendet sich vor allem an Fachfremde die sich einen Eindruck von wichtigen Neuentwicklungen verschaffen möchten diskutiert Beispiele aus den verschiedensten Anwendungsgebieten und spricht daher ein breites Publikum an Autoren geben Erfahrungen aus ihrer eigenen Forschungstätigkeit weiter *Ceramic Abstracts* American Ceramic Society, 1996

Scientific and Technical Aerospace Reports, 1991 **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 produc

tion 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 semi conductors 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 develop ments 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

Proceedings of the 2025 China National Conference on Terahertz Biophysics Chao Chang,Feng Qi,Liangliang Zhang,Lei Hou,2025-05-15 This book highlights reviews perspectives and original research that contribute to the advanced interdisciplinary studies of theories technologies and strategies on THz sensing biophysics communications and bio effect research The terahertz THz frequency covers a spectrum important for applications such as body security non destructive matter sensing bio imaging and bio medicine It overlaps with the characteristic fingerprints of molecular vibrations and rotations e g proteins and DNA and thus could resonantly interact with various bio matters The 2021 Nobel Prize in medicine was granted for the discovery of ion channels of temperature and pressure sensing The frequency of THz makes it absorbable for bio effect and modulation of bio molecules especially for ion channels Besides the high speed modulation in terahertz is a holy grail for integrated photonics in high capacity computations This topic has raised widespread interest in fundamental science and applications for THz The proceedings are suitable for researchers and students interested in interdisciplinary research at the intersection of electromagnetics physics and life sciences

Physics Briefs ,1993 **Chemical Abstracts** ,2002 *NASA Thesaurus* ,1994 *Energy Research Abstracts* ,1993 **Introducción a la Nanotecnología** Charles P. Jr. Poole, Frank J.

Owens,2023-10-01 La nanotecnolog a engloba los campos de la ciencia y la t cnica que estudian obtienen y manipulan de manera controlada materiales sustancias y dispositivos de muy reducidas dimensiones Entre sus numerosas aplicaciones se pueden citar el desarrollo de energ as materiales y procesos no contaminantes y la construcci n de diminutos robots que navegan por nuestras arterias de ordenadores del tama o de una mota de polvo y de tejidos inteligentes autorreparables La ciencia de la miniaturizaci n extrema est calando en todos los sectores del desarrollo cient fico econ mico e industrial Por ello el objetivo de Poole y Owens es el de proporcionar un resumen actualizado y suficientemente detallado para que los estudiantes e investigadores puedan obtener una apreciaci n de los desarrollos obtenidos en esta rea La claridad de exposici n y la inclusi n de introducciones a principios f sicos y qu micos b sicos del tema sujeto a debate hacen que Introducci n a la nanotecnolog a sea un texto especialmente til para aquellos que sientan la necesidad de conocer sobre la naturaleza y las perspectivas de este campo Charles P Poole Jr es profesor em rito del Departamento de F sica y Astronom a de la University

of South Carolina Frank J Owens es investigador del Ej rcito de los Estados Unidos y profesor de F sica de la Graduate School of Hunter College of the City University of New York Ambos autores son miembros de la American Physical Society

Publications United States. National Bureau of Standards,1989 Physical Chemistry for Engineering and Applied Sciences A. K. Haghi,Cristobal Noe Aguilar Gonzalez,Sabu Thomas,Praveen K. M,2018-07-03 This new volume Physical Chemistry for Engineering and Applied Sciences Theoretical and Methodological Implications introduces readers to some of the latest research applications of physical chemistry The compilation of this volume was motivated by the tremendous increase of useful research work in the field of physical chemistry and related subjects in recent years and the need for communication between physical chemists physicists and biophysicists This volume reflects the huge breadth and diversity in research and the applications in physical chemistry and physical chemistry techniques providing case studies that are tailored to particular research interests It examines the industrial processes for emerging materials determines practical use under a wide range of conditions and establishes what is needed to produce a new generation of materials The chapter authors affiliated with prestigious scientific institutions from around the world share their research on new and innovative applications in physical chemistry The chapters in the volume are divided into several areas covering developments in physical chemistry of modern materials polymer science and engineering nanoscience and nanotechnology Publications of the National Institute of Standards and Technology 1988 Catalog Rebecca J. Pardee,National Institute of Standards and Technology (U.S.),1989

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