

*Selected Topics in Superconductivity*

# ***Electromagnetic Absorption in the Copper Oxide Superconductors***

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

# Selected Topics In Superconductivity

**L C Gupta,Manu S Multani**



## **Selected Topics In Superconductivity:**

*Selected Topics in Superconductivity* L. C. Gupta, M. S. Multani, 1993 The first volume in the series *Frontiers in Solid State Sciences* intended for physicists chemists and engineers Contributions include such topics as organic superconductors crystal field excitations in high  $T_c$  superconducting materials and non equilibrium superconductivity *Selected Topics On Superconductivity* L C Gupta, Manu S Multani, 1993-04-30 Contents The First Five Years of High  $T_c$  Superconductivity K A Mller Different Factors which Govern the Optimisation of High  $T_c$  Superconductive Cuprates Involving Bi Tl or Pb B Raveau M Hervieu C Michel J Provost A Maignan C Simon D Groult Superconductivity in Cuprates and Other Oxides H R Ott Organic Superconductors with  $T_c$  Higher than 10K T Ishiguro Y Nogami Fundamentals of RVB Theory and Some Applications to High Temperature Superconductors G Baskaran Anyons and Superconductivity S Das Sarma Mott Transition in the Hubbard Model B S Shastry Superconducting Pairing in Layered Superconductors S S Jha Breaking the Log Jam in Many Body Physics Fermi Surfaces Without Fermi Liquids P W Anderson Superconductivity in High Magnetic Fields from a Microscopic Theory A K Rajagopal Nonequilibrium Superconductivity R Tidecks Neutron Scattering Study of the High  $T_c$  Superconducting System  $YBa_2Cu_3O_6$  x J Rossat Mignod et al Crystal Field Excitations in High  $T_c$  Superconducting Materials A Furrer Superconducting Granular Films S I Kobayashi Transport Properties in the Mixed State of High Temperature Superconductors A Freimuth Physics of Josephson Effect and Recent Advances A Barone S Pagano Tunneling Spectroscopy of Copper Oxide Superconductors T Ekino J Akimitsu Superconductivity and Magnetism in Heavy Fermion Compounds F Steglich U Ahlheim C D Bredl C Geibel M Lang A Loidl G Sparn Nuclear Magnetic Resonance Studies in Highly Correlated Systems Heavy Fermion and High  $T_c$  Superconductors K Asayama Pulsed Laser and Cylindrical Magnetron Sputter Deposition of Epitaxial Metal Oxide Thin Films T Venkatesan et al Readership Physicists chemists and engineers keywords

**Nonequilibrium Electrons and Phonons in Superconductors** Armen Mamikonovich Guliya'n, 1999 *Selected Topics In Statistical Mechanics - 5th International Symposium* Nickolai N Bogolubov Jr, A A Logunov, Vladimir G Kadyshevsky, A S Shumovsky, 1990-07-13 This symposium is dedicated to Prof N N Bogolubov on the occasion of his 80th birthday Besides including a collection of articles by distinguished speakers this volume also contains a review on the life and scientific activities of Prof N N Bogolubov **Selected Topics in Non Perturbative QCD** Società italiana di fisica, 1996 The book addresses aspects of QCD which are related to its underlying structure as a field theory and to its mechanisms Perturbative expansions do not work at large distances for QCD the hadron spectrum the confinement of colour its deconfinement at high temperatures and the breaking of chiral symmetry all need nonperturbative methods of analysis Sum rules chiral perturbation theory and the formulation of QCD on a lattice are some of the tools used to test models like the stochastic vacuum the instanton liquid or the consideration of monopoles in the vacuum to produce dual superconductivity and confinement The work covers different points of view and critical comparison between the different approaches It can be

considered a good reference text     Magnetism L C Gupta,Manu S Multani,1993-03-24 Contents Spin Fluctuations in Heisenberg Magnets Dynamic Critical Phenomena and Excitations in Quasi Periodic Systems S W Lovesey Quenching of Spin Fluctuations by High Magnetic Fields K Ikeda et al Kondo Effect and Heavy Fermions B Coqblin et al Magnetic Interactions in Correlated Electron Systems High Pressure Investigations J D Thompson Hall Effect in Heavy Fermion and Mixed Valence Systems A Hamzi A Fert Magnetic Properties of Uranium Based 1 2 2 Intermetallics T Endstra et al Inelastic Magnetic Excitations in Anomalous Rare Earth Intermetallics E Holland Moritz Neutron Scattering Studies of Magnetic Properties of Actinide Systems G H Lander G Aeppli Magnetic Properties of Heavy Fermion Systems As Studied by SR Spectroscopy A Schenck Re Entrant Spin Glasses Do They Exist B R Coles S B Roy Insulating Spin Glass Systems J K Srivastava Nuclear Magnetism in Metals and Alloys S Ramakrishnan G Chandra Readership Solid state physicists and chemists keywords

Nonequilibrium Electrons and Phonons in Superconductors Armen Mamikonovich Gul'ian,Geliï Frolovich Zharkov,1999-08-31 This book introduces the main concepts of nonequilibrium phenomena in superconductors The authors cover both experimentally well understood topics and problems which physicists could challenge more in view of current theoretical understanding Some of these topics include thermoelectric phenomena influence of laser radiation as well as fluctuations in superconductors     Superconducting State In Magnetic Fields, The: Special Topics And New Trends Carlos A R Sa De Melo,1998-08-06 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     **Nuclear Electronics with Quantum Cryogenic Detectors** Vladimir Polushkin,2022-08-02 NUCLEAR ELECTRONICS WITH QUANTUM CRYOGENIC DETECTORS An ideal comprehensive reference on quantum cryogenic detector instrumentation for the semiconductor and nuclear electronics industries Quantum nuclear electronics is an important scientific and technological field that overviews the development of the most advanced analytical instrumentation This instrumentation covers a broad range of applications such as astrophysics fundamental nuclear research facilities chemical nano spectroscopy laboratories remote sensing security systems forensic investigations and more In the years since the first edition of this popular resource the discipline has developed from demonstrating the unprecedented energy resolving power of individual devices to building large frame cameras with hundreds of thousands of pixel arrays capable of

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**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 T 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

*5th International Symposium on Selected Topics in Statistical Mechanics* Anatoli Alekseevich Logunov,1990 This symposium is dedicated to Prof N N Bogolubov on the occasion of his 80th birthday Besides including a collection of articles by distinguished speakers this volume also contains a review on the life and scientific activities of Prof N N Bogolubov

Nonequilibrium Electrons and Phonons in Superconductors Armen M. Gulian,Gely F. Zharkov,2005-12-16 This book introduces the main concepts of nonequilibrium phenomena in superconductors The authors cover both experimentally well understood topics and problems which physicists could challenge more in view of current theoretical understanding Some of these topics include thermoelectric phenomena influence of laser radiation as well as fluctuations in superconductors

**The New Superconductors** Frank J. Owens,Charles P. Poole Jr.,2006-04-11 In The New Superconductors Frank J Owens and Charles P Poole Jr offer a descriptive non mathematical presentation of the latest superconductors and their properties for the non specialist Highlights of this up to date text include chapters on superfluidity the latest copper oxide types fullerenes and prospects for future research The book also features many examples of commercial applications an extensive glossary that defines superconductivity terms in clear language and a supplementary list of readings for the interested lay reader

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-x</sub>CoxAs<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

*The Specific Heat Of Matter At Low Temperatures* Ahmet Tari,2003-08-12 Recent discoveries of new materials and improvements in calorimetric techniques have given new impetus to the subject of specific heat Nevertheless there is a serious lack of

literature on the subject This invaluable book which goes some way towards remedying that is concerned mainly with the specific heat of matter at ordinary temperatures It discusses the principles that underlie the theory of specific heat and considers a number of theoretical models in some detail The subject matter ranges from traditional materials to those recently discovered heavy fermion compounds high temperature superconductors spin glasses and so on and includes a large number of figures tables and references The book will be particularly useful for advanced undergraduate and postgraduate students as well as academics and researchers a *Superconducting Devices & Materials* ,1968 **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

**Nonlinear PDE's in Condensed Matter and Reactive Flows** Henri Berestycki,Yves Pomeau,2012-12-06 Nonlinear partial differential equations abound in modern physics The problems arising in these fields lead to fascinating questions and at the same time progress in understanding the mathematical structures is of great importance to the models Nevertheless activity in one of the approaches is not always sufficiently in touch with developments in the other field The book presents the joint efforts of mathematicians and physicists involved in modelling reactive flows in particular superconductivity and superfluidity Certain contributions are fundamental to an understanding of such cutting edge research topics as rotating Bose Einstein condensates Kolmogorov Zakharov solutions for weak turbulence equations and the propagation of fronts in heterogeneous media [Thermal analysis of Micro, Nano- and Non-Crystalline Materials](#) Jaroslav Šesták,Peter Simon,2012-10-28 Thermal Analysis of Micro Nano and Non Crystalline Materials Transformation Crystallization Kinetics and Thermodynamics complements and adds to volume 8 Glassy Amorphous and Nano Crystalline Materials by providing a coherent and authoritative overview of cutting edge themes in this field In particular the book focuses on reaction

thermodynamics and kinetics applied to solid state chemistry and thermal physics of various states of materials Written by an international array of distinguished academics the book deals with fundamental and historical aspects of phenomenological kinetics equilibrium background of processes crystal defects non stoichiometry and nano crystallinity reduced glass transition temperatures and glass forming coefficients determination of the glass transition by DSC the role of heat transfer and phase transition in DTA experiments explanation of DTA DSC methods used for the estimation of crystal nucleation structural relaxation and viscosity behaviour in glass and associated relaxation kinetics influence of preliminary nucleation and coupled phenomenological kinetics nucleation on both the strongly curved surfaces and nano particles crystallization of glassy and amorphous materials including oxides chalcogenides and metals non parametric and fractal description of kinetics disorder and dimensionality in nano crystalline diamond thermal analysis of waste glass batches amorphous inorganic polysialates and bioactivity of hydroxyl groups as well as reaction kinetics and unconventional glass formability of oxide superconductors Thermal Analysis of Micro Nano and Non Crystalline Materials Transformation Crystallization Kinetics and Thermodynamics is a valuable resource to advanced undergraduates postgraduates and researches working in the application fields of material thermodynamics thermal analysis thermophysical measurements and calorimetry Coulomb and Interference Effects in Small Electronic Structures D. C. Glattli, M. Sanquer, J. Thanh Van Tran, 1994



## Whispering the Techniques of Language: An Mental Quest through **Selected Topics In Superconductivity**

In a digitally-driven world wherever displays reign supreme and quick transmission drowns out the subtleties of language, the profound techniques and emotional subtleties concealed within phrases frequently move unheard. However, nestled within the pages of **Selected Topics In Superconductivity** a captivating fictional value blinking with fresh feelings, lies an extraordinary journey waiting to be undertaken. Published by an experienced wordsmith, that enchanting opus encourages viewers on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within the fabric of each word. Within the mental depths of the poignant evaluation, we can embark upon a honest exploration of the book is primary subjects, dissect their charming writing type, and succumb to the powerful resonance it evokes strong within the recesses of readers hearts.

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