

*Selected Topics in Superconductivity*

*Nonequilibrium  
Electrons and  
Phonons in  
Superconductors*

*Armen M. Gulian  
and  
Gely F. Zharkov*

# Nonequilibrium Electrons And Phonons In Superconductors

**Barry P. Martins**



## **Nonequilibrium Electrons And Phonons In Superconductors:**

**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.

**Nonequilibrium Electrons and Phonons in Superconductors** Armen M. Gulian, Gely F. Zharkov, 2014-01-15

**Nonequilibrium Electrons and Phonons in Superconductors** Armen Mamikonovich

Gulian, 1999 **Nonequilibrium Superconductivity** Vitalii Lazarevich Ginzburg, 1988 Nonequilibrium

Superconductivity, Phonons, and Kapitza Boundaries Kenneth E. Gray, 2012-12-06 The importance of phonons has long been recognized by researchers in nonequilibrium superconductivity. Similarly, experimentalists studying phonons at low temperatures have relied heavily on superconductors as sources and detectors. To a large extent, this symbiotic relationship has developed with a general mutual awareness; however, to our knowledge, these subjects have never been treated together in conferences or study institutes. It was with the hope of further contributing to the awareness and communication between workers in these areas that this NATO Advanced Study Institute (ASI) has been conceived. A second but equally important reason for holding this ASI is to fill a void by providing the first general textbook in this important area of physics. Therefore, there was an emphasis on the tutorial nature of the lectures and written contributions to this textbook. It should not go unnoticed that the experimental and theoretical concepts covered in this textbook are of paramount importance to the various applications of superconductors. Almost by definition, the use of a superconductor implies a nonequilibrium state. For example, phonon conduction to the helium bath is important in devices ranging from microscopic Josephson junctions to large scale magnets and transmission lines. Knowledge of the more fundamental nonequilibrium effects can aid in our understanding of devices as well as provide the potential for entirely new applications. **Spectroscopy of**

**Nonequilibrium Electrons and Phonons** C.V. Shank, B.P. Zakharchenya, 2012-12-02 The physics of nonequilibrium electrons and phonons in semiconductors is an important branch of fundamental physics that has many practical applications, especially in the development of ultrafast and ultrasmall semiconductor devices. This volume is devoted to different trends in the field which are presently at the forefront of research. Special attention is paid to the ultrafast relaxation processes in bulk semiconductors and two-dimensional semiconductor structures and to their study by different spectroscopic methods, both pulsed and steady state. The evolution of energy and space distribution of nonequilibrium electrons and the relaxation kinetics of hot carriers and phonons are considered under various conditions such as temperature, doping, and pumping intensity by leading experts in the field. **New Topics in Superconductivity Research** Barry P. Martins, 2006

Superconductivity is the ability of certain materials to conduct electrical current with no resistance and extremely low losses.

High temperature superconductors such as  $\text{La}_{2-x}\text{Sr}_x\text{CuO}_x$  Tc 40K and  $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$  Tc 90K were discovered in 1987 and have been actively studied since. In spite of an intense world wide research effort during this time a complete understanding of the copper oxide cuprate materials is still lacking. Many fundamental questions are unanswered particularly the mechanism by which high Tc superconductivity occurs. More broadly the cuprates are in a class of solids with strong electron-electron interactions. An understanding of such strongly correlated solids is perhaps the major unsolved problem of condensed matter physics with over ten thousand researchers working on this topic. High Tc superconductors also have significant potential for applications in technologies ranging from electric power generation and transmission to digital electronics. This ability to carry large amounts of current can be applied to electric power devices such as motors and generators and to electricity transmission in power lines. For example superconductors can carry as much as 100 times the amount of electricity of ordinary copper or aluminium wires of the same size. Many universities research institutes and companies are working to develop high Tc superconductivity applications and considerable progress has been made. This volume brings together new leading edge research in the field.

**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.

**On Superconductivity and Superfluidity** Vitaly L. Ginzburg, 2008-11-20. A Nobel Laureate presents his view of developments in the field of superconductivity superfluidity and related theory. The book contains Ginzburg's amended version of the Nobel lecture in Physics 2003 as well as his expanded autobiography.

**Superconductivity** Karl-Heinz Bennemann, John B. Ketterson, 2008-04-25. This extensive and

comprehensive handbook systematically reviews the basic physics theory and recent advances in superconductivity. Covering the entire field, this unparalleled resource carefully blends theoretical studies with experimental results to provide an indispensable foundation for further research. Leading researchers, including Nobel laureates, describe the state of the art in conventional and unconventional superconductors. In addition to full coverage of novel materials and underlying mechanisms, the handbook reflects continued intense research into electron-phonon based superconductivity.

**Superconductors at the Nanoscale** Roger Wördenweber, Victor Moshchalkov, Simon Bending, Francesco Tafuri, 2017-09-11. By covering theory, design, and fabrication of nanostructured superconducting materials, this monograph is an invaluable resource for research and development. Examples are energy-saving solutions, healthcare, and communication technologies. Key ingredients are nanopatterned materials which help to improve the superconducting critical parameters and performance of superconducting devices and lead to novel functionalities.

**Contents:** Tutorial on nanostructured superconductors, Imaging vortices in superconductors from the atomic scale to macroscopic distances, Probing vortex dynamics on a single vortex level by scanning AC susceptibility microscopy, STM studies of vortex cores in strongly confined nanoscale superconductors, Type 1.5 superconductivity, Direct visualization of vortex patterns in superconductors with competing vortex-vortex interactions, Vortex dynamics in nanofabricated chemical solution deposition high-temperature superconducting films, Artificial pinning sites and their applications, Vortices at microwave frequencies, Physics and operation of superconducting single-photon devices, Josephson and charging effect in mesoscopic superconducting devices, NanoSQUIDs, Basics, recent advances, Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> intrinsic Josephson junction stacks as emitters of terahertz radiation, Interference phenomena in superconductor-ferromagnet hybrids, Spin-orbit interactions, spin currents, and magnetization dynamics in superconductor-ferromagnet hybrids.

**Superconductor-ferromagnet hybrids** *Quantum Statistical Field Theory* Norman J. Morgenstern Horing, 2017-09-22. This book provides an introduction to the methods of coupled quantum statistical field theory and Green's functions. The methods of coupled quantum field theory have played a major role in the extensive development of nonrelativistic quantum many-particle theory and condensed-matter physics. This introduction to the subject is intended to facilitate delivery of the material in an easily digestible form to advanced undergraduate physics majors at a relatively early stage of their scientific development. The main mechanism to accomplish this is the early introduction of variational calculus and the Schwinger Action Principle, accompanied by Green's functions. Important achievements of the theory in condensed matter and quantum statistical physics are reviewed in detail to help develop research capability. These include the derivation of coupled-field Green's function equations of motion for a model electron-phonon system, extensive discussions of retarded thermodynamic and nonequilibrium Green's functions and their associated spectral representations, and approximation procedures. Phenomenology emerging in these discussions includes quantum plasma, dynamic nonlocal screening, plasmons, polaritons, linear electromagnetic response, excitons, polarons, phonons, magnetic Landau quantization, and

der Waals interactions chemisorption etc Considerable attention is also given to low dimensional and nanostructured systems including quantum wells wires dots and superlattices as well as materials having exceptional conduction properties such as Superconductors Superfluids and Graphene 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 **Handbook of Superconducting Materials** David

A. Cardwell, David S. Ginley, 2003 **Gravity-superconductors Interactions** Giovanni Modanese, Glen A. Robertson, 2012 Recent developments in gravity superconductivity interactions have been summarized by several researchers If gravitation has to be eventually reconciled with quantum mechanics the macroscopic quantum character of superconductors might actually matter **Thermodynamics and Electrodynamics of Superconductors** Vitalii Lazarevich Ginzburg, 1988

Applied Superconductivity Paul Seidel, 2015-01-29 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

**New Frontiers in Superconductivity Research** Barry P. Martins, 2006

Superconductivity is the ability of certain materials to conduct electrical current with no resistance and extremely low losses. High temperature superconductors such as  $\text{La}_{2-x}\text{Sr}_x\text{CuO}_x$   $T_c$  40K and  $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$   $T_c$  90K were discovered in 1987 and have been actively studied since. In spite of an intense world wide research effort during this time a complete understanding of the copper oxide cuprate materials is still lacking. Many fundamental questions are unanswered particularly the mechanism by which high  $T_c$  superconductivity occurs. More broadly the cuprates are in a class of solids with strong electron-electron interactions. An understanding of such strongly correlated solids is perhaps the major unsolved problem of condensed matter physics with over ten thousand researchers working on this topic. *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration, 1977. Equilibrium and Non-equilibrium Statistical Mechanics Carolyn M. Van Vliet, 2008. This book encompasses our current understanding of the ensemble approach to many body physics phase transitions and other thermal phenomena as well as the quantum foundations of linear response theory kinetic equations and stochastic processes. It is destined to be a standard text for graduate students but it will also serve the specialist researcher in this fascinating field. Some more elementary topics have been included in order to make the book self contained. The historical methods of J Willard Gibbs and Ludwig Boltzmann applied to the quantum description rather than phase space are featured. The tools for computations in the microcanonical canonical and grand canonical ensembles are carefully developed and then applied to a variety of classical and standard quantum situations. After the language of second quantization has been introduced strongly interacting systems such as quantum liquids superfluids and superconductivity are treated in detail. For the connoisseur there is a section on diagrammatic methods and applications. In the second part dealing with non equilibrium processes the emphasis is on the quantum foundations of Markovian behaviour and irreversibility via the Pauli Van Hove master equation. Justifiable linear response expressions and the quantum Boltzmann approach are discussed and applied to various condensed matter problems. From this basis the Onsager Casimir relations are derived together with the mesoscopic master equation the Langevin equation and the Fokker Planck truncation procedure. Brownian motion and modern stochastic problems such as fluctuations in optical signals and radiation fields briefly make the round.

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