

M. Yu. Kagan

# Modern Trends in Superconductivity and Superfluidity

# Modern Trends In Superconductivity And Superfluidity

## Lecture Notes In Physics Volume 874

**James F. Annett**



## **Modern Trends In Superconductivity And Superfluidity Lecture Notes In Physics Volume 874:**

**Modern trends in Superconductivity and Superfluidity** M. Yu. Kagan, 2013-12-11 This book concisely presents the latest trends in the physics of superconductivity and superfluidity and magnetism in novel systems as well as the problem of BCS BEC crossover in ultracold quantum gases and high  $T_c$  superconductors It further illuminates the intensive exchange of ideas between these closely related fields of condensed matter physics over the last 30 years of their dynamic development The content is based on the author's original findings obtained at the Kapitza Institute as well as advanced lecture courses he held at the Moscow Engineering Physical Institute Amsterdam University Loughborough University and LPTMS Orsay between 1994 and 2011 In addition to the findings of his group the author discusses the most recent concepts in these fields obtained both in Russia and in the West The book consists of 16 chapters which are divided into four parts The first part describes recent developments in superfluid hydrodynamics of quantum fluids and solids including the fashionable subject of possible supersolidity in quantum crystals of  $^4\text{He}$  while the second describes BCS BEC crossover in quantum Fermi Bose gases and mixtures as well as in the underdoped states of cuprates The third part is devoted to non phonon mechanisms of superconductivity in unconventional anomalous superconductors including some important aspects of the theory of high  $T_c$  superconductivity The last part considers the anomalous normal state of novel superconductive materials and materials with colossal magnetoresistance CMR The book offers a valuable guide for senior level undergraduate students and graduate students postdoctoral and other researchers specializing in solid state and low temperature physics

**Electronic Phase Separation in Magnetic and Superconducting Materials** Maxim Yu. Kagan, Kliment I. Kugel, Alexander L. Rakhmanov, Artem O. Sboychakov, 2024-06-03 This book focuses on nanoscale electronic phase separation in a wide class of different materials especially in strongly correlated electron systems It features an extensive review of the field of inhomogeneous spin and charge states in condensed matter physics while delivering a topical and timely discussion of a wide range of recent advances in electronic phase separation It describes the formation of different types of nanoscale ferromagnetic metallic droplets in antiferromagnetically ordered charge ordered or orbitally ordered insulating matrices as well as the colossal magnetoresistance effect and tunneling electron transport in the nonmetallic phase separated state of complex magnetic oxides It also discusses compounds with spin state transitions inhomogeneously phase separated states in strongly correlated multiband systems and the electron polaron effect paying special attention to systems with imperfect Fermi surface nesting such as chromium alloys iron based pnictides and AA stacked graphene bilayers The authors investigate also the formation of order parameter clusters and insulator superconductor transition in different superconducting systems including bismuth oxides two dimensional films in the presence of strong disorder as well as inhomogeneous Fermi Bose mixtures in Aharonov Bohm rings with a superconducting bridge in a topologically nontrivial state This book is a valuable resource for researchers involved in theoretical and experimental studies of strongly correlated

materials such as magnetic semiconductors Fermi Bose mixtures and twisted bilayer graphene *Introduction to Superfluidity* Andreas Schmitt, 2014-07-15 Superfluidity and closely related to it superconductivity are very general phenomena that can occur on vastly different energy scales Their underlying theoretical mechanism of spontaneous symmetry breaking is even more general and applies to a multitude of physical systems In these lecture notes a pedagogical introduction to the field theory approach to superfluidity is presented The connection to more traditional approaches often formulated in a different language is carefully explained in order to provide a consistent picture that is useful for students and researchers in all fields of physics After introducing the basic concepts such as the two fluid model and the Goldstone mode selected topics of current research are addressed such as the BCS BEC crossover and Cooper pairing with mismatched Fermi momenta **Superfluid States of Matter** Boris V. Svistunov, Egor S. Babaev, Nikolay V. Prokof'ev, 2015-04-15 Covers the State of the Art in Superfluidity and Superconductivity Superfluid States of Matter addresses the phenomenon of superfluidity superconductivity through an emergent topologically protected constant of motion and covers topics developed over the past 20 years The approach is based on the idea of separating universal classical field superfluid **Quantum Electron Liquids and High-Tc Superconductivity** Jose Gonzalez, Miguel A. Martin-Delgado, German Sierra, Angeles H. Vozmediano, 2008-11-30 This book originated from a course given at the Universidad Autónoma of Madrid in the Spring of 1994 and in the Universidad Complutense of Madrid in 1995 The goal of these courses is to give the non specialist an introduction to some old and new ideas in the field of strongly correlated systems in particular the problems posed by the high Tc superconducting materials As theoretical physicists our starting viewpoint to address the problem of strongly correlated fermion systems and related issues of modern condensed matter physics is the renormalization group approach applied both to quantum field theory and statistical physics In recent years this has become not only a powerful tool for retrieving the essential physics of interacting systems but also a link between theoretical physics and modern condensed matter physics Furthermore once we have this common background for dealing with apparently different problems we discuss more specific topics and even phenomenological aspects of the field In doing so we have tried to make the exposition clear and simple without entering into technical details but focusing on the fundamental physics of the phenomena under study Therefore we expect that our experience may have some value to other people entering this fascinating field We have divided these notes into three parts and each part into chapters which correspond roughly to one or two lectures Part I Chaps 1 2 A H V *Superfluidity and Superconductivity* David R. Tilley, John Tilley, 1974 index *Superconductivity and Superfluidity* T. Tsuneto, 2005-10-06 This graduate level text describes the physics of superconductivity and superfluidity macroscopic quantum phenomena found in many conductors at low temperatures and in liquid helium 4 and helium 3 In the first part of the book the author presents the mean field theory of generalized pair condensation This is followed by a description of the properties of ordinary superconductors using BCS theory The book then proceeds with expositions of strong coupling theory

and the Ginzburg Landau theory The remarkable properties of superfluid helium 3 are then described as an example of a superfluid with internal degrees of freedom Recent topics in the field such as the copper oxide high temperature superconductors and exotic superconductivity of heavy fermion systems are discussed in the final chapter This book will be of interest to graduate students and researchers in condensed matter physics especially those working in superconductivity and superfluidity Superfluidity and Superconductivity David Reginald Tilley, John Tilley, 1974 index Superconductivity, Superfluids and Condensates James F. Annett, 2004-03-25 This textbook series has been designed for final year undergraduate and first year graduate students providing an overview of the entire field showing how specialized topics are part of the wider whole and including references to current areas of literature and research Novel Superfluids Karl-Heinz Bennemann, John B. Ketterson, 2014-11-27 Volume 2 of Novel Superfluids continues the presentation of recent results on superfluids including novel metallic systems superfluid liquids and atomic molecular gases of bosons and fermions particularly when trapped in optical lattices Since the discovery of superconductivity Leyden 1911 superfluid 4He Moscow and Cambridge 1937 superfluid 3He Cornell 1972 and observation of Bose Einstein Condensation BEC of a gas Colorado and MIT 1995 the phenomenon of superfluidity has remained one of the most important topics in physics Again and again novel superfluids yield surprising and interesting behaviors The many classes of metallic superconductors including the high temperature perovskite based oxides MgB<sub>2</sub> organic systems and Fe based pnictides continue to offer challenges The technical applications grow steadily What the temperature and field limits are remains illusive Atomic nuclei neutron stars and the Universe itself all involve various aspects of superfluidity and the lessons learned have had a broad impact on physics as a whole Superfluidity and Superconductivity D.R. Tilley, 2019-07-09 Superfluidity and Superconductivity Third Edition introduces the low temperature phenomena of superfluidity and superconductivity from a unified viewpoint The book stresses the existence of a macroscopic wave function as a central principle presents an extensive discussion of macroscopic theories and includes full descriptions of relevant experimental results throughout This edition also features an additional chapter on high temperature superconductors With problems at the end of most chapters as well as the careful elaboration of basic principles this comprehensive survey of experiment and theory provides an accessible and invaluable foundation for graduate students studying low temperature physics as well as senior undergraduates taking specialized courses

**Collective Excitations in Unconventional Superconductors and Superfluids** Petr Nikitovich Brusov, Peter Brusov, 2010 This is the first monograph that strives to give a complete and detailed description of the collective modes CMs in unconventional superfluids and superconductors UCSF Collective Excitations in Superfluid Fermi Systems with s OCoPairing Superfluid Phases in 3 He The Model of 3 He Collective Excitations in the B OCoPhase of 3 He Collective Excitations in the A OCoPhase of 3 He Stability of Goldstone Modes Influence of Dipole Interaction and Magnetic Field on Collective Excitations The Influence of the Electric Field on the Collective Excitations in 3 He and 4 He The Order Parameter

Distortion and Collective Modes in  $^3\text{He}$  Collective Excitations in the Planar 2D Phase of Superfluid  $^3\text{He}$  Collective Excitations in the Polar Phase Superfluidity of Two-Dimensional and One-Dimensional Systems Bose Spectrum of Superfluid Solutions  $^3\text{He}$   $^4\text{He}$  Novel Sound Phenomena in Impure Superfluids Collective Modes in the Heavy-Fermion Superconductors Other Application of the Theory of Collective Excitations Readership Graduate and postgraduate students researchers theorists and experimentalists in low temperature physics superconductivity and condensed matter physics Superfluids Fritz London, 1961 **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 Lecture Notes on Superconductivity: Condensed Matter and QCD Roberto Casalbuoni, 2014-12-17 Lecture Notes on Superconductivity Condensed Matter and QCD By Roberto Casalbuoni Superconductivity and Quantum Fluids Zygmunt M. Galasiewicz, 2013-10-22 Superconductivity and Quantum Fluids Volume 29 presents the microscopic theory of superconductivity and superfluidity This book discusses the characteristics of niobium which is a type II superconductor Organized into two parts encompassing eight chapters this volume begins with an overview of the special Bogoliubov transformation that connects fermions with opposite spins and momenta This text then describes the collective oscillations of the system in the cases of charged and uncharged particles Other chapters consider the dynamical system of Fermi particles in a weak external field This book discusses as well the theoretical explanation of superfluidity which is as a second very interesting phenomenon observed at low temperatures The final chapter illustrates the linearized hydrodynamic equations and explains the mean value expressed in terms of the Fourier components of the retarded Green functions This book is a valuable resource for physicists Students and researchers who are interested in the fields of superconductivity and superfluidity will also find this book useful

**Novel Superfluids** K. H. Bennemann, John B. Ketterson, 2013-02-28 This book reports on the latest developments in the field of Superfluidity one of the most fundamental interesting and important problems in physics with applications ranging from metals helium liquids photons in cavities excitons in semiconductors to the interior of neutron stars and the present state of the Universe as a whole *Macroscopic Theories of Superfluids* G. Grioli, 1991-09-26 This book is based on lectures delivered at a meeting organised by the academia Nazionale dei Lincei with contributions from some of the leading research workers in the field They deal with topics of contemporary interest such as solitons hydrodynamic and nonlinear problems in

superfluids turbulence thermodynamics first and second sound and the comparison between superconductivity and superfluidity Experimental results and theoretical considerations are included Thus the book will be an invaluable survey for research workers in superfluidity

**Superfluids and Superconductors** Roberto Zivieri, 2018 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

**Connectivity and Superconductivity** Jorge Berger, Jacob Rubinstein, 2003-07-01 The motto of connectivity and superconductivity is that the solutions of the Ginzburg Landau equations are qualitatively influenced by the topology of the boundaries Special attention is given to the zero set the set of the positions usually known as quantum vortices where the order parameter vanishes The paradigm of connectivity and superconductivity is the Little Parks effect discussed in most textbooks on superconductivity This volume is intended to serve as a reference book for graduate students and researchers in physics or mathematics interested in superconductivity or in the Schrödinger equation as a limiting case of the Ginzburg Landau equations The effects considered here usually become important in the regime where the coherence length is of the order of the dimensions of the sample While in the Little Parks days a lot of ingenuity was required to achieve this regime present microelectronic techniques have transformed it into a routine Moreover measurement and visualization techniques are developing at a pace which makes it reasonable to expect verification of distributions and not only of global properties Activity in the field has grown and diversified substantially in recent years We have therefore invited experts ranging from experimental and theoretical physicists to pure and applied mathematicians to contribute articles for this book While the skeleton of the book deals with superconductivity micron works and generalizations of the Little Parks situation there are also articles which deal with applications of the Ginzburg Landau formalism to several fundamental topics such as quantum coherence cosmology and questions in materials science

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