

Superconducting State

Mechanisms and Properties

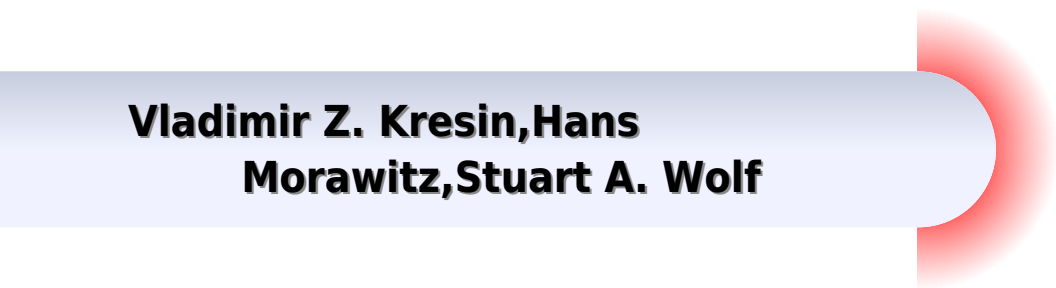
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Superconducting State Mechanisms And Properties International Series Of Monographs On Physics

**Vladimir Z. Kresin, Hans
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Superconducting State Vladimir Z. Kresin, Hans Morawitz, Stuart A. Wolf, 2014 This book describes fundamentals of the superconducting state and latest developments in the field It represents the state of the art status of the theory and key experiments for both historically important conventional superconductors and novel technologically significant superconductors

Superconducting State Vladimir Kresin, Vladimir Z. Kresin, Sergei Ovchinnikov, Stuart A. Wolf, 2021 The book provides scientists with a detailed understanding of the nature of superconductivity and the most interesting superconducting materials

Superconducting State Vladimir Z. Kresin, Hans Morawitz, Stuart A. Wolf, 2013-12-12 Superconducting State provides a very detailed theoretical treatment of the key mechanisms of superconductivity including the current state of the art phonons magnons and plasmons A very complete description is given of the electron phonon mechanism responsible for superconductivity in the majority of superconducting systems and the history of its development as well as a detailed description of the key experimental techniques used to study the superconducting state and determine the mechanisms In addition there are chapters describing the discovery and properties of the key superconducting compounds that are of the most interest for science and applications including a special chapter on the cuprate superconductors It provides detailed treatments of some very novel aspects of superconductivity including multiple bands gaps the pseudogap state novel isotope effects beyond BCS and induced superconductivity

Phase Space Methods for Degenerate Quantum Gases Bryan J. Dalton, John Jeffers (Physicist), Stephen M. Barnett, 2015 Recent experimental progress has enabled cold atomic gases to be studied at nano kelvin temperatures creating new states of matter where quantum degeneracy occurs Bose Einstein condensates and degenerate Fermi gases Such quantum states are of macroscopic dimensions This book presents the phase space theory approach for treating the physics of degenerate quantum gases an approach already widely used in quantum optics However degenerate quantum gases involve massive bosonic and fermionic atoms not massless photons The book begins with a review of Fock states for systems of identical atoms where large numbers of atoms occupy the various single particle states or modes First separate modes are considered and here the quantum density operator is represented by a phase space distribution function of phase space variables which replace mode annihilation creation operators the dynamical equation for the density operator determines a Fokker Planck equation for the distribution function and measurable quantities such as quantum correlation functions are given as phase space integrals Finally the phase space variables are replaced by time dependent stochastic variables satisfying Langevin stochastic equations obtained from the Fokker Planck equation with stochastic averages giving the measurable quantities Second a quantum field approach is treated the density operator being represented by a distribution functional of field functions which replace field annihilation creation operators the distribution functional satisfying a functional FPE etc A novel feature of this book is that the phase space variables for fermions are Grassmann variables not c numbers However we show that

Grassmann distribution functions and functionals still provide equations for obtaining both analytic and numerical solutions. The book includes the necessary mathematics for Grassmann calculus and functional calculus and detailed derivations of key results are provided.

Quantum Statistical Field Theory Norman J. M. Horing, 2017. The methods of coupled quantum field theory which have played a major role in the extensive development of nonrelativistic quantum many particle theory and condensed matter physics are at the core of this book.

Effective Medium Theory Tuck C. Choy, 2016. This book is devoted to effective medium theory (EMT). It provides a solid foundation of the principles and later shows numerous applications to various fields of physics, material science and applied physics and chemistry. It is intended to be a useful research reference as well as a graduate student text.

Transport Properties and Potential Energy Models for Monatomic Gases Hui Li, Frederick R. W. McCourt, 2024-01-04. This book offers extensive knowledge and practical guidance for readers working on non equilibrium phenomena. The book can also serve as supplementary reference for a course of non equilibrium statistical mechanics.

Calorimetry R. Wigmans, 2017. This is a comprehensive text on a class of instruments used by scientists to study the innermost structure of matter. The author, one of the world's leading experts in this field, describes the principles of operation, the factors determining performance and the state of the art in understanding and application of these instruments.

Bose-Einstein Condensation and Superfluidity Lev Petrovich Pitaevskii, Sandro Stringari, 2016. Ultracold atomic gases is a rapidly developing field of physics that attracts many young researchers around the world. This book gives a comprehensive overview of exciting developments in Bose-Einstein condensation and superfluidity from a theoretical perspective and makes sense of key experiments with a special focus on ultracold atomic gases.

Electromagnetics of Superconductor/Paramagnet Heterostructures Yuri Genenko, Hermann Rauh, 2025-01-03. Conditioning of magnetic fields is a novel route to improve type II superconductor performance in high current and high field applications directed at increasing the current carrying capability and the critical fields of superconductor/paramagnet heterostructures as well as reducing their hysteretic AC loss. Through a methodical analysis and noteworthy solutions, *Electromagnetics of Superconductor/Paramagnet Heterostructures* presents a phenomenological account of the remarkable electromagnetic properties of superconductor/paramagnet heterostructures as captured by Maxwell's electrodynamics, generalized London theory and Bean's model of the critical state. Beginning with the introduction of the basic concepts of superconductivity which are necessary for understanding of the following studies, exact closed form solutions are revealed for a range of idealized heterostructures. Investigations of the superconductor constituents primarily focus on strips or tapes, filaments and tubes with a transport current imposed or a magnetic field applied. Geometrical as well as materials aspects of both the magnetic shielding effect and the hysteretic AC loss undergo detailed analysis which permits identification of the conditions for non-dissipative critical or even overcritical states to exist. Crucial issues such as the barrier against the penetration of magnetic flux at superconductor/paramagnet interfaces or the nucleation of magnetic vortex loops

equally find their place Finally based on the magnetostatic electrostatic analogues the finite element simulations of the Meissner state and the critical state of thin superconductors in paramagnetic environments of arbitrary shape and permeability are performed This presents an effective tool for designing superconductor paramagnet heterostructures

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