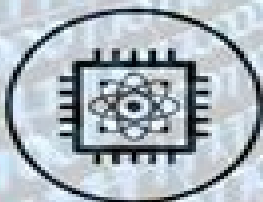


Chiral superconductivity in non centrosymmetric materials

- Chiral superconductivity in non-centrosymmetric materials displays unconventional pairing due to the lack of a center of symmetry
- This asymmetry leads to mixed singlet and triplet pairing states, influencing the material's electronic properties
- Key features include potential topological superconductivity and unique responses to magnetic fields
- Such materials are promising for quantum computing applications due to their exotic electronic states

Practical example: Quantum computing

- Chiral superconductivity in non-centrosymmetric materials offers a promising avenue for quantum computing
- In these materials, the lack of a center of symmetry allows for unique electron pairing, crucial for superconductivity
- This property is essential in quantum computing for creating stable qubits— the building blocks of quantum information processing
- The manipulation of these electron pairs could potentially lead to more robust and scalable quantum computers that operate efficiently at higher temperatures



Non Centrosymmetric Superconductors Non Centrosymmetric Superconductors

**Vladimir Kresin, Sergei
Ovchinnikov, Stuart Wolf**



Non Centrosymmetric Superconductors Non Centrosymmetric Superconductors:

Non-Centrosymmetric Superconductors Ernst Bauer, Manfred Sigrist, 2012-01-10 Superconductivity in materials without inversion symmetry in the respective crystal structures occurs in the presence of antisymmetric spin orbit coupling as a consequence of an emerging electric field gradient The superconducting condensate is then a superposition of spin singlet and spin triplet Cooper pairs This scenario accounts for various experimental findings such as nodes in the superconducting gap or extremely large upper critical magnetic fields Spin triplet pairing can occur in non centrosymmetric superconductors in spite of Anderson's theorem that spin triplet pairing requires a crystal structure that exhibits inversion symmetry This book authored and edited by leading researchers in the field is both an introduction to and overview on this exciting branch of novel superconductors Its self contained and tutorial style makes it particularly suitable for self study and as source of teaching material for special seminars and courses At the same time it constitutes an up to date and authoritative reference for anyone working in this exciting field **Non-Centrosymmetric Superconductors**, 2012-01-21

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 **Handbook of Superconductivity** David A. Cardwell, David C. Larbalestier, Aleksander Braginski, 2022-07-05 This is the first 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 where a single coherent quantum state may extend over a distance of metres or even kilometres depending on the size of a coil or length of superconducting wire Viable applications of superconductors rely fundamentally on an understanding of this intriguing phenomena and the availability of a range of materials with bespoke properties to meet practical needs This first volume covers the fundamentals of superconductivity and the various classes of superconducting materials which sets the context and background for Volumes 2 and 3 Key Features Covers the depth and breadth of the field Includes contributions from leading academics and industry professionals across the world Provides hands on guidance to the manufacturing and processing technologies A comprehensive reference this 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 **Superconductivity** Adir Luiz, 2011-07-18 Superconductivity was discovered in 1911 by Kamerlingh Onnes

Since the discovery of an oxide superconductor with critical temperature T_c approximately equal to 35 K by Bednorz and Muller 1986 there are a great number of laboratories all over the world involved in research of superconductors with high T_c values the so called High T_c superconductors This book contains 15 chapters reporting about interesting research about theoretical and experimental aspects of superconductivity You will find here a great number of works about theories and properties of High T_c superconductors materials with T_c 30 K In a few chapters there are also discussions concerning low T_c superconductors T_c **Unconventional Properties of Non-centrosymmetric Superconductors** Ludwig Klam,2010

Superconductors A. V. Narlikar,2014-04-03 Superconductors is neither about basic aspects of superconductivity nor about its applications but its mainstay is superconducting materials Unusual and unconventional features of a large variety of novel superconductors are presented and their technological potential as practical superconductors assessed The book begins with an introduction to basic aspects of superconductivity The presentation is readily accessible to readers from a diverse range of scientific and technical disciplines such as metallurgy materials science materials engineering electronic and device engineering and chemistry The derivation of mathematical formulas and equations has been kept to a minimum and wherever necessary short appendices with essential mathematics have been added at the end of the text The book is not meant to serve as an encyclopaedia describing each and every superconductor that exists but focuses on important milestones in their exciting development **Superconducting State** Vladimir Kresin,Sergei Ovchinnikov,Stuart

Wolf,2021-05-24 This book provides the reader with a detailed theoretical treatment of the key mechanisms of superconductivity up to the current state of the art phonons magnons plasmons In addition the book describes the properties of key superconducting compounds that are of most interest for science and its applications today For many years there has been a search for new materials with higher values of the main parameters such as the critical temperature and the critical current At present the possibility to observe superconductivity at room temperature has become perfectly realistic The book is especially concerned with high T_c systems such as the high T_c oxides hydrides with record values of the critical temperature under high pressure nanoclusters etc A number of interesting novel superconducting systems have been discovered recently Among them topological materials interface systems intercalated graphene The book contains rigorous derivations based on statistical mechanics and many body theory The book is also providing qualitative explanations of the main concepts and results which makes it accessible and interesting for a broader readership Physics of Josephson

Diodes Formed from 1T-Transition Metal Dichalcogenides Pranava Keerthi Sivakumar,2025-03-04 This book provides a clear and lucid introduction to the field of non reciprocal supercurrent transport in Josephson junctions particularly the Josephson diode effect in junctions fabricated from mechanically exfoliated transition metal dichalcogenides and its microscopic mechanism Superconducting materials that display a non reciprocity in their critical current namely a supercurrent diode effect SDE and Josephson junctions JJs that display a Josephson diode effect JDE have recently been discovered just a few

years ago These phenomena have attracted much attention for their potential in creating energy efficient superconducting electronics The SDE was discovered for the first time only in 2020 and the JDE shortly afterwards JJs are a critical element of many superconducting devices and in particular superconducting qubits that are under intense study for the development of quantum computers In order to make use of devices that display a JDE a detailed and comprehensive understanding of the physical origin or origins of this effect is essential which is the main topic of this dissertation In addition to the published results the dissertation contains detailed information on the basic theoretical aspects of superconductivity Josephson junctions and the experimental methods that are necessary to achieve these results which is suitable for undergraduate and graduate students or any reader with knowledge on basic condensed matter physics

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 Bi2Sr2CaCu2O8 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

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