

Organic Superconductivity



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Organic Superconductivity

M. Héritier



Organic Superconductivity:

Organic Superconductivity Vladimir Z. Kresin, William A. Little, 2013-11-11 This book contains papers presented at the International Conference on Organic Superconductivity which was held May 20-24 1990 at the Stanford Sierra Conference Center South Lake Tahoe California In the twenty years since the First Conference on Organic Superconductivity was held Hawaii 1969 there has been remarkable progress in the field At present development is accelerating with contributions from many groups in many countries worldwide The discovery of high T_c superconductivity by G Bednorz and K Muller in 1986 and subsequent developments in the ceramic superconductors have had an enormous impact on the field of superconductivity as a whole This discovery occurred in an area entirely different from that of conventional superconductivity underscoring the importance of the search for and study of novel materials of all kinds We believe that the organics with their wide range of structural chemical and physical properties belong in this category of novel materials This book reflects the efforts of researchers from various disciplines physicists chemists and materials scientists It addresses the normal and superconducting properties of organic materials as well as the search for new compounds and new syntheses We are pleased to note that one of these papers reports on the discovery of a new organic superconductor with a record high T_c in this class One chapter is devoted to a comparison of organic superconductors and the cuprates another to the prospects of discovering other novel conducting or superconducting compounds *Organic Superconductors* Takehiko Ishiguro, Kunihiro Yamaji, Gunzi Saito, 2012-12-06 *Organic Superconductors* is an introduction to organic conductors and superconductors and a review of the current status of the field First organic conductors are described then the structures and electronic properties of organic superconductors are discussed illustrated with examples of typical compounds The book deals in detail with theories of the mechanism of superconductivity and more briefly with spin density waves The design principle and synthesis of organic superconductors are also described This second edition covers the research activities of the last few years **The Physics of Organic Superconductors and Conductors** Andrei Lebed, 2008-03-26 This bang up to date volume contains the distilled wisdom of some of the world's leading minds on the subject Inside there is a treasure trove of general tutorial and topical reviews written by leading researchers in the area of organic superconductors and conductors The papers hail from all over the world as far afield as the USA and Australia They cover contemporary topics such as unconventional superconductivity non Fermi liquid properties and the quantum Hall effect *Organic Superconductors* Takehiko Ishiguro, Kunihiro Yamaji, 2012-12-06 The initial impetus for the search for an organic superconductor was the proposal of the existence of a polymer superconductor with a high critical temperature T_c This spurred on activities having the aim of synthesizing and characterizing organic conductors which had already been going on for two decades These efforts have resulted in the thriving field of low dimensional conductors and superconductors This monograph is intended to be an introduction to and review of the study of organic conductors and superconductors The investigations are to warrant a

treatise of some length At the same time sufficiently rich they have produced a few active subfields each containing exciting topics This situation seems to necessitate a monograph describing the current status of the field for both researchers and newcomers to the field Such a need may also be felt by scientists engaged in the study of the high T_c oxide superconductors for comparison of the two kinds of new superconductors which share some important aspects for example the low dimensionality and the competition or coexistence of superconductivity and magnetism However available experimental and theoretical results are sometimes conflicting and have not yet been arranged into a coherent standard picture of the whole field Further developments are continually being reported and therefore it is still premature to write a textbook about some of the topics However we have tried to include discussions of recent topics in this volume *Organic Superconductivity* M. Héritier, 2000

Organic Superconductivity M. Héritier, 2000 **The Physics of Organic Superconductors and Conductors** Andrei Lebed, 2009-09-02 This bang up to date volume contains the distilled wisdom of some of the world's leading minds on the subject Inside there is a treasure trove of general tutorial and topical reviews written by leading researchers in the area of organic superconductors and conductors The papers hail from all over the world as far afield as the USA and Australia They cover contemporary topics such as unconventional superconductivity non Fermi liquid properties and the quantum Hall effect *Advances in Organic Conductors and Superconductors* Martin Dressel, 2018-10-04 This book is a printed edition of the Special Issue *Advances in Organic Conductors and Superconductors* that was published in *Crystals*

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 *Quasi-one-dimensional Organic Superconductors* Wei Zhang, Carlos A R Sa De Melo, 2018-06-22 The book includes a thorough description of a wide range of physical properties of organic superconductors of reduced dimensionality The authors start with an overview of the field followed by a background discussion and selected experimental topics A critical discussion of theoretical proposals is presented under the constraints of experimental observations and exciting possibilities for the symmetry of the order parameter are presented including the cases of inhomogeneous superconducting states and triplet superconductivity The possible origins of Cooper pairing are explored and tests to detect experimentally the pairing symmetry are described in detail The book ends with a discussion of important open questions where the search for their answers will keep the field alive for the next decade **The Physics of Superconductors** Karl-Heinz

Bennemann, John B. Ketterson, 2011-06-27 This is the second volume of a comprehensive two volume treatise on superconductivity that represents the first such publication since the earlier widely acclaimed books by R Parks It systematically reviews the basic physics and recent advances in the field Leading researchers describe the state of the art in conventional phonon induced superconductivity high T_c superconductivity and in novel superconductivity including triplet pairing in the ruthenates The second volume is largely concerned with novel superconductors such as heavy fermion metals

and organic materials and also includes granular superconductors. Important new results on current problems are presented in a manner designed to stimulate further research. Numerous illustrations, diagrams and tables make this book especially useful as a reference work for students, teachers and researchers. Volume 1 treats Conventional and High T_c Superconductors.

3 540 43883 1 *Mechanisms of Organic Superconductivity*, 1986 **High Temperature Superconductivity in Japan**, 1990 Superconductivity in New Materials, 2010-09-30

The discoveries of new superconducting materials, most of them during the last 30 years, have served very much as the context for further developments in theory which continue to the present. In many of these cases, the observations of superconductivity in new materials were completely unexpected and therefore may be regarded as real discoveries. Even the most visible progress which followed a search using to some extent conventional wisdom was finally rather unexpected: the discovery of high T_c superconductivity in copper oxides. This book presents superconductivity in this materials context and displays some of the underlying simplicity in the materials record that provided fuel for the theoretical developments. Not only is the phenomenon deeply interesting, the metallic systems where it plays out are as well, and superconductivity gives a very interesting window from which to view the nature of electrically conducting materials. The level is not advanced yet allows the serious reader to access the current developments in the literature. Addresses in detail the exciting developments after 1980. Demonstrates that progress in superconductivity is to a large extent due to progress in materials synthesis and characterization. Gateway to the current developments in the literature.

Spectroscopic Studies of Superconductors, 1996 *Advances in High-T_c Superconductors* John J. Pouch, 1993

This book points out the most recent developments in the young and exciting field of high temperature superconductors. The contributed papers cover a large variety of different aspects of these materials such as physical and chemical properties, fabrication and processing technology, probing techniques and device technology.

Earlier and Recent Aspects of Superconductivity J. Georg Bednorz, K. Alex Müller, 1990-03-19

This volume contains the lectures of Earlier and Recent Aspects of Superconductivity, the 18th course of the International School of Materials Science and Technology which was held at the Ettore Majorana Centre for Scientific Culture in Erice, Sicily, Italy, July 4-16, 1989. In the wake of the discovery of high T_c oxides, many international conferences have been held on the subject, mainly intended for those already working in high T_c research. Hence the idea evolved of organizing a school dedicated to students and young scientists entering the field of superconductivity. The intention was to give a broad perspective of the field with its eight decades of research history and thus to link existing fields of knowledge and gain continuity. The new high T_c cuprates were integrated both historically and by subject into the field of classical superconductivity as well as into its newer branches of heavy fermion, organic and chalcogenide superconductors. Even the organizers and the lecturers were surprised how many cross links became apparent between the different branches of superconductivity. The lectures have been grouped into four parts: namely Fundamental properties of superconductors, Coherence length related properties, Electronic and magnetic properties, Theoretical models.

The number of applications from potential participants greatly exceeded the capacity of the facilities available Ultimately 100 students from 25 countries were selected to attend the course The remarkable surroundings of the medieval town of Erice promoted a most stimulating but nevertheless relaxed atmosphere Organic Conductors Farges,2022-09-16 This work examines all aspects of organic conductors detailing recent theoretical concepts and current laboratory methods of synthesis measurement control and analysis It describes advances in molecular scale engineering including switching and memory systems Schottky and electroluminescent diodes field effect transistors and photovoltaic devices and solar cells Physical Acoustics: Ultrasonics of high-T_c and other unconventional superconductors Warren Perry Mason,Robert N. Thurston,1964

The Physics and Chemistry of Organic Superconductors Gunzi Saito,1990

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