



# Lowdimensional Organic Conductors

**Alisa Chernenkaya**



## **Lowdimensional Organic Conductors:**

- Low Dimensional Organic Conductors** Ian Richard Marsden,1991      **Low-dimensional Organic Conductors** Andrzej Graja,1992 This book is a review of physical properties of organic conductors and superconductors It is amply illustrated and contains numerous data concerning the latest elements and equipment constructed of low dimensional organic conductors It is hoped that the book will be stimulating for technologists and designers working on contemporary electronics      Electronic Structure of Highly-correlated Low-dimensional Organic Conductors Alisa Chernenkaya,2016
- Low-Dimensional Conductors and Superconductors* D. Jerome,L.G. Caron,2013-12-14 Research activities in low dimensional conductors have shown a rapid growth since 1972 and have led to the discovery of new and remarkable physical properties unique to both molecular and inorganic conductors exhibiting one dimensional transport behaviour This NATO Institute was a continuation of a series of NATO Advanced Study Institutes of Workshops which took place at regular intervals till 1979 This is the first time however that charge density wave transport and electronic properties of low dimensional organic conductors are treated on an equal footing The program of the Institute was framed by tutorial lectures in the theories and experiments of low dimensional conductors The bulk of the course covered two series of low dimensional materials with their respective properties 1 The 1D inorganic conductors exhibiting the phenomena of sliding charge density waves narrow band noise memory effects etc 2 Low dimensional crystallized organic conductors giving rise to various possibilities of ground states spin Peierls spin density wave Peierls superconductivity and magnetic field induced spin density wave etc Since it has been established from the beginning that this Institute was to be devoted essentially to the Physics of Low Dimensional Conductors only one main course summarized the progress in chemistry and material preparation
- Studies of Low Dimensional Organic Conductors in High Magnetic Fields* Sergei A. Ivanov,1997      **Fermi Surfaces of Low-Dimensional Organic Metals and Superconductors** Joachim Wosnitza,2006-04-11 Fermi Surfaces of Low Dimensional Organic Metals and Superconductors is an introduction to quasi one and quasi two dimensional organic metals and a review of the current knowledge on the electronic structure of these materials The principal structural electronic and superconducting properties are described and illustrated with many examples The book introduces the basic theoretical concepts necessary for the understanding of the experimental techniques and reviews in detail recent results in the investigation of the Fermi surface topology The book is intended both as an introduction and as a reference book for active researchers      Microwave Investigation of Low-dimensional Organic Conductors Konstantin Petukhov,2003      Thermal Expansion and Transport Properties of Low-dimensional Organic Conductors Valdeci Pereira Mariano de Souza,2008
- Magnetic Field Induced Commensurability and Correlation Effects in Low Dimensional Organic Conductors Weida Wu,2004      *High Frequency Magneto-conductivity Studies of Low Dimensional Organic Conductors* Judith Schrama,2000
- Organic Conductors* Jean-Pierre 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

### **Organic and Inorganic Low-Dimensional Crystalline Materials**

Pierre Delhaes, Marc Drillon, 2013-12-01 The research of unitary concepts in solid state and molecular chemistry is of current interest for both chemist and physicist communities It is clear that due to their relative simplicity low dimensional materials have attracted most of the attention Thus many non trivial problems were solved in chain systems giving some insight into the behavior of real systems which would otherwise be untractable The NATO Advanced Research Workshop on Organic and Inorganic Low Dimensional Crystalline Materials was organized to review the most striking electronic properties exhibited by organic and inorganic sytems whose space dimensionality ranges from zero 0d to one 1d and to discuss related scientific and technological potentials The initial objectives of this Workshop were respectively i To research unitary concepts in solid state physics in particular for one dimensional compounds ii To reinforce through a close coupling between theory and experiment the interplay between organic and inorganic chemistry on the one hand and solid state physics on the other iii To get a salient understanding of new low dimensional materials showing exotic physical properties in conjunction with structural features

### **Molecular Low Dimensional and Nanostructured Materials for Advanced Applications**

A. Graja, B.R. Bulka, F. Kajzar, 2012-12-06 A presentation and discussion of the most recent advances in the field by the world s leading experts Topics dealt with include new organic metals with quasi two dimensional structure new organic superconductors conducting and magnetic hybrid organic inorganic materials and highly conducting organic composites Also reported are very interesting significant results on optically controllable gratings in liquid crystals and polymers organic electroluminescent materials functionalised polymers and photonics and nonlinear optics Some new fascinating fullerene derivatives and organic and metallic clusters are also presented The chemical design of logic gates and molecular logic machines and the analysis of the roles of defects in clusters are attracting great interest The properties of semiconducting quantum wires electronic transport through magnetic molecular nanostructure and electronic transport properties of nanostructures containing both ferromagnetic and superconductors are also presented and discussed

*Physics Of Low-dimensional Systems - Proceedings Of Nobel Symposium 73* Stig Lundqvist, Nils Robert Nilsson, 1989-07-01 List of Contributors P W Anderson S Tanaka C W Chu Y H Kim T V Ramakrishnan G Wendin G Baskaran H Fukuyama Y Hasegawa A Zawadowski A A Abrikosov A I Buzdin V L Ginzburg S Barisic I Batistic E J Mele L Dzyaloshinskii L A Falkovsky J R Schrieffer D J Scalapino A I Larkin K W Becker P Fulde S A Trugman F C Zhang K A Chao G Z Wei D J Rome et al J Bardeen M Sinclair S M Girvin D P Arovas P B Wiegmann and others

### **Organic Conductors, Superconductors and Magnets: From Synthesis to Molecular Electronics**

Lahcène Ouahab, Eduard Yagubskii, 2012-12-06 The book covers different aspects of the chemistry and physics of molecular materials including organic synthesis of specific organic donors and ligands organic

metals and superconductors molecule based magnets multiproperty materials and organic inorganic hybrids The 17 chapters are written by some of the most authoritative authors in their field The two last chapters are devoted to molecular electronics and devices in particular the achievements and potential for applications An excellent work for all students and researchers in organic conductors superconductors and molecule based magnets Conductive Polymer Fibers and Low Dimensional Organic Crystals Shulong Li,1993

**Organic Superconductors** Takehiko Ishiguro,Kunihiko 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

**Strongly Correlated Fermions and Bosons in Low-Dimensional Disordered Systems** Igor V. Lerner,Boris L. Altshuler,Vladimir I. Fal'ko,Thierry Giamarchi,2002-07-31 The physics of strongly correlated fermions and bosons in a disordered environment and confined geometries is at the focus of intense experimental and theoretical research efforts Advances in material technology and in low temperature techniques during the last few years led to the discoveries of new physical phenomena of atomic gases and a possible metal phenomena including Bose condensation insulator transition in two dimensional high mobility electron structures Situations where the electronic system is so dominated by interactions that the old concepts of a Fermi liquid do not necessarily make a good starting point are now routinely achieved This is particularly true in the theory of low dimensional systems such as carbon nanotubes or in two dimensional electron gases in high mobility devices where the electrons can form a variety of new structures In many of these systems disorder is an unavoidable complication and lead to a host of rich physical phenomena This has pushed the forefront of fundamental research in condensed matter towards the edge where the interplay between many body correlations and quantum interference enhanced by disorder has become the key to the understanding of novel phenomena

**Molecular Architectonics** Takuji Ogawa,2017-07-06 This book draws on the main themes covered during the

International Workshop on Molecular Architectonics which took place in Shiretoko Japan from August 3 to 6 2015 The concepts and results explored in this book relate to the term molecular architectonics which stands for electronic optical and information processing functions being orchestrated by molecular assemblies This area is defined as the third stage of single molecule electronics and builds on stage one where measurements were performed on single molecule layered films and stage two the resulting quantitative analyses In this work experts come together to write about the most important aspects of molecular architectonics This interdisciplinary visionary and unique book is of interest to scientists working on electronic materials surface science and information processing sciences using noise and fluctuation **One-Dimensional Metals**

Siegmar Roth, David Carroll, 2006-03-06 Low dimensional solids are of fundamental interest in materials science due to their anisotropic properties Written not only for experts in the field this book explains the important concepts behind their physics and surveys the most interesting one dimensional systems and discusses their present and emerging applications in molecular scale electronics The second edition of this successful book has been completely revised to include the remarkable achievements of the last ten years of research and applications Chemists polymer and materials scientists as well as students will find this book a very readable introduction to the solid state physics of electronic materials

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