



# Hall effect in quasi one-dimensional organic conductors

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# **Quasi One Dimensional Conductors 2**

P. Monceau

#### **Quasi One Dimensional Conductors 2:**

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 phy sical properties unique to both molecular and inorganic conductors exhibiting one dimensional transport behaviour This NATO Institute was a continuation of aseries of NATO Advanced Study Institutes of Worshops 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 mate rials with their respective properties 1 The I D 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

Electronic Properties of Inorganic Quasi-One-Dimensional Compounds P. Monceau, 2013-06-29 The close relationship between experimentalists and theorists whether solid state chemists or physicists has in the last few years inspired much research in the field of materials with quasi one dimensional structures This volume Part I of a two volume set reviews the basic theories describing the physical properties of one dimensional materials including their superconducting characteristics This description is mainly based on the properties of transition metal trichalcogenides The novel collective transport mechanism for electronic conduction exhibited by some of the latter compounds NbSe3 being considered as the prototype is surveyed according to a classical theory and a theory including macroscopic quantum effects In addition the book contains a description of the properties of non linear excitations or solitons in one dimensional systems

Electron-Electron Correlation Effects in Low-Dimensional Conductors and Superconductors Alexandr A. Ovchinnikov, Ivan I. Ukrainskii, 2012-12-06 Advances in the physics and chemistry of low dimensional systems have been really magnificent in the last few decades Hundreds of quasi one dimensional and quasi two dimensional systems have been synthesized and studied The most popular representatives of quasi one dimensional materials are polyacethylenes CH 1 and conducting donor acceptor molecular crystals TIF z TCNQ Examples of quasi two dimensional systems are high temperature su perconductors HTSC based on copper oxides LA2CU04 YBa2Cu306 y and organic superconductors based on BEDT TIP molecules The properties of such one and two dimensional materials are not yet fully understood On the one hand the equations of motion of one dimensional systems are rather simple which facilitates rigorous solutions of model problems On the other hand manifestations of various interactions in one dimensional systems are rather peculiar This refers in particular

to electron electron and electron phonon interactions Even within the limit of a weak coupling con stant electron electron correlations produce an energy gap in the spectrum of one dimensional metals implying a Mott transition from metal to semiconductor state In all these cases perturbation theory is inapplicable Which is one of the main difficulties on the way towards a comprehensive theory of quasi one dimensional systems This meeting held at the Institute for Theoretical Physics in Kiev May 15 18 1990 was devoted to related problems The papers selected for this volume are grouped into three sections

Quasi One-dimensional Conductors II. ,1979 Strongly Correlated Fermions and Bosons in Low-Dimensional Disordered Systems Igor V. Lerner, Boris L. Althsuler, Vladimir I. Fal'ko, Thierry Giamarchi, 2012-12-06 The physics of strongly correlated fermions and bosons in a disordered envi ronment and confined geometries is at the focus of intense experimental and theoretical research efforts Advances in material technology and in low temper ature techniques during the last few years led to the discoveries of new physical of atomic gases and a possible metal phenomena including Bose condensation insulator transition in two dimensional high mobility electron structures Situ ations were 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 sys tems 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

Physics in One Dimension J. Bernasconi, T. Schneider, 2012-12-06 In 1966 E H Lieb and D C r1attis published a book on Mathematical Physics in One Dimension Academic Press New York and London which is much more than just a collection of reprints and which in fact marked the beginnings of the rapidly growing interest in one dimensional problems and materials in the 1970 s In their Foreword Lieb and r attis made the observation that there now exists a vast literature on this subject albeit one which is not indexed under the topic one dimension in standard indexing journals and which is therefore hard to research Today the situation is even worse and we hope that these Proceedings will be a valuable guide to some of the main current areas of one dimensional physics From a theoretical point of view one dimensional problems have always been very attractive Many non trivial models are soluble in one dimension while they are only approximately understood in three dimensions Therefore the corresponding exact solutions serve as a useful test of approximate ma thematical methods and certain features of the one dimensional solution re main relevant in higher dimensions On the other hand many important phe nomena are strongly enhanced and many concepts show up especially clearly in one dimensional or quasi one dimensional systems Among them are the effects of fluctuations of randomness and of nonlinearity a number of in teresting consequences are specific to one dimension

The Hubbard Model Mario Rasetti, 1991 This collection of articles provides

authoritative and up to date reviews on the Hubbard Model It will be useful to graduate students and researchers in the field Organic Superconductors Takehiko Ishiguro, Kunihiko 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 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

Emergent Superconductivity in Low Dimensions Diane Ansermet, 2018-11-19 This book explores the relationship between electronic correlations dimensionality inhomogeneities and superconductivity in low dimensional systems by studying single crystals of the quasi one dimensional Na2 Mo6Se6 composed of MoSe filaments weakly coupled by Na atoms and subject to intrinsic disorder 0 It shows that the Na2 Mo6Se6 displays strong electronic correlations in its normal state whereas a superconducting ground state emerges from Anderson localized electrons Two novel behaviors of the superconducting state are observed first a disorder induced enhancement of the superconducting transition temperature second a reentrant phase coherence with increasing temperature magnetic field and current It also analyzes the intrinsic properties of Na2 Mo6Se6 are analyzed to offer a thorough understanding of these phenomena The emergence of superconductivity in such low dimensional systems provides a fruitful playground to explore electronic order and correlations

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 Advanced MOS Device Physics Norman Einspruch, 2012-12-02 VLSI Electronics Microstructure Science Volume 18 Advanced MOS Device Physics explores several device physics topics related to metal oxide semiconductor MOS technology The emphasis is on physical description modeling and technological implications rather than on the formal aspects of device theory Special attention is paid to the reliability physics of small geometry MOSFETs Comprised of eight chapters this volume begins with a general picture of MOS technology development from the device and processing points of view The critical issue of hot carrier effects is discussed along with the device engineering aspects of this problem the emerging low temperature MOS technology and the

problem of latchup in scaled MOS circuits Several device models that are suitable for use in circuit simulators are also described The last chapter examines novel electron transport effects observed in ultra small MOS structures This book should prove useful to semiconductor engineers involved in different aspects of MOS technology development as well as for researchers in this field and students of the corresponding disciplines Handbook of Elastic Properties of Solids, Liquids, and Gases, Four-Volume Set Moises Levy, Henry Bass, Richard Stern, 2000-10-23 Sound waves propagate through galactic space through two dimensional solids through biological systems through normal and dense stars and through everything that surrounds us the earth the sea and the air We use sound to locate objects to identify objects to understand processes going on in nature to communicate and to entertain The elastic properties of materials determine the velocity of sound in them and tell us about their response to stresses something which is very important when we are trying to construct manufacture or create something with any material The Handbook of Elastic Properties of Materials will provide these characteristics for almost everything whose elastic properties has ever been measured or deduced in a concise and approachable manner Leading experts will explain the significance of the elastic properties as they relate to intrinsic microscopic behavior to manufacturing to construction or to diagnosis They will discuss the propagation of sound in newly discovered or created materials and in common materials which are being investigated with a fresh outlook The Handbook will provide the reader with the elastic properties of the common and mundane the novel and unique the immense and the microscopic and the exhorbitantly dense and the ephemeral You will also find the measurement And theoretical techniques that have been developed and invented in order to extract these properties from a reluctant nature and recalcitrant systems Key Features Solids liquids and gases covered in one handbook Articles by experts describing insights developed over long and Illustrious careers Properties of esoteric substances such as normal and dense stars superfluid helium three fullerness two dimensional solids extraterrestial substances gems and planetary atmospheres Properties of common materials such as food wood used for musical instruments paper cement and cork Modern dynamic elastic properties measurement techniques

InP and Related Compounds M O Manasreh,2000-08-08 InP is a key semiconductor for the production of optoelectronic and photonic devices Its related compounds such as InGaAsP alloy have been realized as very important materials for communication in the 1 3 and 1 55 micron spectral regions Furthermore the applications on InP and related compounds have extended to other areas that include laser diodes light emitting diodes photodetectors waveguides photocathodes solar cells and many other applications The topics presented in this book have been chosen to achieve a balance between the properties of bulk materials doping characterization applications and devices This unique volume featuring chapters written by experts in the field provides a good starting point for those who are new to the subject and contains detailed results and in depth discussions for those who are experts in the field Strongly Correlated Electron Systems Ii - Proceedings Of The Adriatico Conference And Miniworkshop G Baskaran, A E Ruckenstein, Erio Tosatti, Lu

Yu,1991-02-28 This is the second in a series of miniworkshops and Adriatico conferences devoted to the exciting field of strongly correlated electron systems including quantum Hall effect metal insulator transition heavy fermions and high Tc superconductivity In spite of enormous efforts made by physicists worldwide to solve these difficult problems many important issues are still widely open and this topic remains the most active field in condensed matter physics The review talks and reports on original research given by the experts in the field represent a state of the art summary of this fast moving field

Handbook of Advanced Electronic and Photonic Materials and Devices, Ten-Volume Set Hari Singh Nalwa, 2000-10-09 Vol 1 Semiconductors Vol 2 Semiconductors Devices Vol 3 High Tc Superconductors and Organic Conductors Vol 4 Ferroelectrics and Dielectrics Vol 5 Chalcogenide Glasses and Sol Gel Materials Vol 6 Nanostructured Materials Vol 7 Liquid Crystals Display and Laser Materials Vol 8 Conducting Polymers Vol 9 Nonlinear Optical Materials Volume 10 Light Emitting Diodes Lithium Batteries and Polymer Devices Semiconductors and Semimetals, 1989-01-09 Semiconductors and Semimetals Physics Briefs ,1988 High-Pressure Studies of Crystalline Materials Daniel Errandonea, 2018-08-10 High Pressure Studies of Crystalline Materials One-Dimensional Conductors Seiichi Kagoshima, Hiroshi Nagasawa, Takashi Sambongi, 2012-12-06 This volume deals with physical properties of electrically one dimensional conductors It includes both a description of basic concepts and a review of recent progress in research One dimensional conductors are those materials in which an electric current flows easily in one specific crystal direction while the resistivity is very high in transverse directions It was about 1973 when much attention began to be focussed on them and investigations started in earnest The research was stimulated by the successful growth of crystals of the organic conductor TTF TCNQ and of the inorganic conductor KCP New concepts characteristic of one dimension were established in the in vestigations of their properties Many new one dimensional conductors were also found and synthesized This field of research is attractive because of the discovery of new ma terials phenomena and concepts which have only recently found a place in the framework of traditional solid state physics and materials science The relation of this topic to the wider field of solid state sciences is therefore still uncertain This situation is clearly reflected in the wide distribution of the fields of specialization of researchers Due to this and also to the rapid progress of research no introductory book has been available which covers most of the important fields of research on one dimensional conductors

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