Lecture Notes in Physics

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Quasi One-Dimensional Conductors I

Proceedings of the International Conference Dubrovnik, SR Croatia, SFR Yugoslavia, 1978

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Quasi One Dimensional Conductors 1

Mario Rasetti

Quasi One Dimensional Conductors 1:

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 conti nuation 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 dimen sional 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 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 Strongly Correlated Fermions and Bosons in Low-Dimensional Disordered Systems Igor V. Lerner, Boris L. Althsuler, Vladimir I. Fal'ko, Thierry Giamarchi, 2002-07-31 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 understand ing of novel phenomena

<u>Crystal Chemistry and Properties of Materials with Quasi-One-Dimensional Structures</u> J. Rouxel,2012-12-06 There is no doubt that in the development of the Physics and Chemistry of Solids during the last fifteen years the very important place taken by low dimensional compounds will be remembered as a major event Dealing very widely at the beginning with two dimensional structures and intercalation chemistry this theme progressively evolved as the synthesis of one dimensional

conductors increased along with the observation of their remarkable properties Beyond the classical separation of the traditional disciplines essential progress has stemmed each time from the concerted efforts of and overlapping between chemists experimental physicists and theoreticians This book is a synthetic approach which aims to retrace these united efforts The observation and characterization of charge density waves in their static or dynamic aspects have been the main points to attract the interest of researchers Two broad categories of compounds have been the material basis of these observations transition metal polychalcogenides and either condensed cluster phases or bronze type compounds These families are referred to throughout the various chapters of this book thus illustrating the continuous progress of concepts in this domain and at the same time providing the first synthetic and exhaustive view of this group of materials Superconductors Takehiko Ishiquro, 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 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 guasi 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 sys tems 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 High Magnetic Fields Claude Berthier, Laurent P. Levy, Gerard Martinez, 2008-01-11 This book is addressed to all scientists interested in the use of high magnetic elds and in the use of high eld facilities around the world In particular it will help young scientists and newcomers to the topic to gain a better understanding in areas such

as condensed matter physics in which the magnetic eld plays a key role either as a parameter controlling the Hamiltonian or as an experimental tool to probe the underlying mechanism This concerns mostly strongly correlated and or low dimensional systems Rather than covering all these subjects in detail the philosophy here is to give essential physical concepts in some of the most active elds which have been quickly growing in the last ten to twenty years Besides its role as a physical parameter in condensed matter physics a large magnetic eld is essential to Electron Paramagentic Resonance EPR and Nuclear Magnetic Resonance NMR spectroscopies The state of art of high resolution NMRin liquids and solids and high frequency EPRapplied to elds like chemistry and biology are also reviewed in this volume The rst series of chapters is devoted to the integer and the Fractional Qu tum Hall E ects FQHE in two dimensional electron systems C Glattli brushes an historical background and a comprehensive review of transport phenomena in these systems including recent developments on the mesoscopic electronic transport at the edges of quantum Hall samples chiral Luttinger liquids and fractional excitations R

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 Completed in Fiscal Year ... ,1979 **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 Modulated Structure Materials Thomas Tsakalakos, 2012-12-06 Proceedings of the NATO Advanced Study Institute on Modulated Structure Materials Maleme Chania Greece June 15 25 1983 Summaries of Projects Completed in Fiscal Year ... National Physical Phenomena At High Magnetic Fields Ii John Robert Schrieffer, Zachary Fisk, Lev Science Foundation (U.S.),1979 P Gor'kov, David Meltzer, 1996-05-25 The purpose of the conference was to bring together experts in research areas of science in which high magnetic fields play an important role to critically assess the current status of research in these areas and to discuss promising new directions in science as well as applications which are at the forefront of these fields The program consisted of talks given by leading experts presenting overviews and critical assessments of certain areas including

semiconductors the quantum Hall effect heavy fermions superconductivity organic solids chemical systems and the generation and use of high magnetic fields in basic and applied research Foundations of Solid State Physics Siegman Roth, David Carroll, 2019-08-05 An essential guide to solid state physics through the lens of dimensionality and symmetry Foundations of Solid State Physics introduces the essential topics of solid state physics as taught globally with a focus on understanding the properties of solids from the viewpoint of dimensionality and symmetry Written in a conversational manner and designed to be accessible the book contains a minimal amount of mathematics. The authors noted experts on the topic offer an insightful review of the basic topics such as the static and dynamic lattice in real space the reciprocal lattice electrons in solids and transport in materials and devices The book also includes more advanced topics the quasi particle concept phonons solitons polarons excitons strong electron electron correlation light matter interactions and spin systems The authors approach makes it possible to gain a clear understanding of conducting polymers carbon nanotubes nanowires two dimensional chalcogenides perovskites and organic crystals in terms of their expressed dimension topological connectedness and quantum confinement This important guide Offers an understanding of a variety of technology relevant solid state materials in terms of their dimension topology and quantum confinement Contains end of chapter problems with different degrees of difficulty to enhance understanding Treats all classical topics of solid state physics courses plus the physics of low dimensional systems Written for students in physics material sciences and chemistry lecturers and other academics Foundations of Solid State Physics explores the basic and advanced topics of solid state physics with a unique focus on dimensionality and symmetry **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 Progress in Low Temperature Physics, 2000-04-01 Progress in Low Temperature Physics

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 **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 Foundations of Quantum Mechanics in the Light of New Technology Sadao Nakajima, 1996 I re experience once again the stimulating atmosphere of each of the ISQMs There were theoretical discussions in diverse frontier areas of physics as well as descriptions of beautiful new or planned experiments and technologies From each of the Symposia I always came away with the exciting feeling of how wonderful physics is and how lucky it is to be a physicist in this era Chen Ning YangThis volume is selected from the First through Fourth International Symposia on Foundations of Quantum Mechanics The International Symposia on Foundations of Quantum Mechanics in the Light of New Technology ISQMs provide a unique interdisciplinary forum where distinguished theorists and experimentalists of diverse fields of research gather to discuss basic problems in quantum mechanics in the light of new technology This volume collects 51 papers selected from over 200 papers by many distinguished scientists It includes articles by C N Yang J A Wheeler Y Nambu L Esaki and M P A Fisher to name just a few and contains topics ranging from quantum measurements to quantum cosmology **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

Unveiling the Magic of Words: A Review of "Quasi One Dimensional Conductors 1"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually aweinspiring. Enter the realm of "Quasi One Dimensional Conductors 1," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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