

Physics of Low-dimensional Systems

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Physics Of Low Dimensional Systems

Stig Lundqvist, Nils Robert Nilsson



Physics Of Low Dimensional Systems:

The Physics of Low-dimensional Semiconductors John H. Davies, 1997-12-13 The composition of modern semiconductor heterostructures can be controlled precisely on the atomic scale to create low dimensional systems These systems have revolutionised semiconductor physics and their impact on technology particularly for semiconductor lasers and ultrafast transistors is widespread and burgeoning This book provides an introduction to the general principles that underlie low dimensional semiconductors As far as possible simple physical explanations are used with reference to examples from actual devices The author shows how beginning with fundamental results from quantum mechanics and solid state physics a formalism can be developed that describes the properties of low dimensional semiconductor systems Among numerous examples two key systems are studied in detail the two dimensional electron gas employed in field effect transistors and the quantum well whose optical properties find application in lasers and other opto electronic devices The book includes many exercises and will be invaluable to undergraduate and first year graduate physics or electrical engineering students taking courses in low dimensional systems or heterostructure device physics

Physics of Low Dimensional Systems José L. Morán-López, 2001-05-31 This book contains contributions on some of the most important and current topics on the physics of low dimensional systems The main emphasis is on the magnetic properties of surfaces thin films and atomic clusters State of the art techniques are discussed in detail Techniques for the production and measurement of nanostructures are discussed and pioneering contributions on the effect on health of these particles are presented Important studies on semiconductor nanostructures are addressed as well as aerosol systems

Physics of Low-Dimensional Systems Kyōto Daigaku. Kiso Butsurigaku Kenkyūjo, **Physics of Low-dimensional Systems** Stig Lundqvist, Nils Robert Nilsson, 1989 Physics of Low-dimensional Systems S. Hikami, Y. Nagaoka, 1979 **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

Low-Dimensional Systems Tobias Brandes, 2008-01-11 Experimental progress over the past few years has made it possible to test a number of fundamental physical concepts related to the motion of electrons in low dimensions The production and experimental control of novel structures with typical sizes in the sub micrometer regime has now become possible In particular semiconductors are widely used in order to confine the motion of electrons in two dimensional heterostructures The quantum Hall effect was one of the first highlights of the new physics that is revealed by this confinement In a further step of the technological development in semiconductor heterostructures other artificial devices such as quasi one dimensional quantum wires and quantum dots artificial atoms have also been produced These structures again differ very

markedly from three and two dimensional systems especially in relation to the transport of electrons and the interaction with light. Although the technological advances and the experimental skills connected with these new structures are progressing extremely fast, our theoretical understanding of the physical effects such as the quantum Hall effect is still at a very rudimentary level. In low dimensional structures the interaction of electrons with one another and with other degrees of freedoms such as lattice vibrations or light gives rise to new phenomena that are very different from those familiar in the bulk material. The theoretical formulation of the electronic transport properties of small devices may be considered well established provided interaction processes are neglected.

Physics of Low-dimensional Systems, 1979 **Lower-Dimensional Systems and Molecular Electronics** Robert M. Metzger, Peter R. Day, George C. Papavassiliou, 2013-11-11. This volume represents the written account of the NATO Advanced Study Institute Lower Dimensional Systems and Molecular Electronics held at Hotel Spetses, Spetses Island, Greece, from 12 June to 23 June 1989. The goal of the Institute was to demonstrate the breadth of chemical and physical knowledge that has been acquired in the last 20 years in inorganic and organic crystals, polymers, and thin films which exhibit phenomena of reduced dimensionality. The interest in these systems started in the late 1960s with lower dimensional inorganic conductors, in the early 1970s with quasi one dimensional crystalline organic conductors which by 1979 led to the first organic superconductors, and in 1977 to the first conducting polymers. The study of monolayer films, Langmuir-Blodgett films, had progressed since the 1930s but reached a great upsurge in the early 1980s. The pursuit of non-linear optical phenomena became increasingly popular in the early 1980s as the attention turned from inorganic crystals to organic films and polymers. And in the last few years the term molecular electronics has gained ever increasing acceptance although it is used in several contexts. We now have organic superconductors with critical temperatures in excess of 10 K, conducting polymers that are soluble and processable, and used commercially we have films of a few monolayers that have high in-plane electrical conductivity and polymers that show great promise in photonics; we even have a few devices that function almost at the molecular level.

The Physics of Low-dimensional Structures Georgios P. Triberis, 2007. This book covers the field of low dimensional structures starting from the selectively doped double heterostructures $n\text{-AlGaAs/GaAs}$ and $p\text{-Si/SiGe}$ and strained $p\text{-Si/SiGe}$ quantum wells. The behaviour of the sheet electron density, the subband populations and energies as a function of the well width, the spacer thickness, and the doping concentration is analysed. The temperature dependence of the bulk electron concentration versus the quasi-2DEG is discussed. In the framework of Boltzmann's transport theory, a detailed study of the mobility is presented at low and high temperatures, taking into account all the relevant scattering mechanisms. The pseudomorphic Si/SiGe undoped quantum wells are a perfect example for the study of the non-parabolicity of the hole bands. For the first time in a book, an exact solution of the multiband effective mass equation that describes the heavy-light and split-off hole valence bands is introduced, and interband transitions and selection rules are obtained. Reducing dimensionality, new aspects concerning optical and transport

properties of quantum wires QWRS is discussed Specifically the photoluminescence and the microphotoluminescence spectra of V shaped QWRS is theoretically interpreted leading to a realistic cartography of the interface roughness of these systems A computational approach for the solution of the eigenvalue problem in low dimensional systems of complex but realistic geometry is also presented for the first time in a book and transport theoretical considerations will lead to a systematic study of the mobility As DNA could be considered as a one dimensional molecular wire the study of carrier transport along DNA is discussed in terms of hopping transport A computational scheme is presented which allows the study of near field magnetoabsorption spectra of Quantum Dots QD of any given geometry under magnetic field of any orientation The effect of the spatial confinement imposed by the QD dimensions and the magnetic confinement governed by the magnetic field are explored The influence of the Coulomb interactions between electrons and holes is also discussed The applicability of the method in actual experiments i e the illumination of a nanostructure with a near field probe in conjunction with the simultaneous application of an external magnetic field may become a challenge to experimentalists Finally magnetothermoelectric transport in the fractional quantum Hall effect FQHE regime is discussed The theoretical framework for the calculation of the resistivity the thermopower and the thermal conductivity for two dimensional electron and hole gases at low temperatures and strong perpendicular magnetic fields is outlined The composite fermion picture enables the use of the integer quantum Hall effect and Shubnikov de Haas conductivity models for a quantitative comparison with experiment A study on the validity of fundamental physical laws such as the Wiedemann Franz law in two dimensional structures is also presented

Field Theories for Low-Dimensional Condensed Matter Systems

Guiseppe Morandi, Pasquale Sodano, Arturo Tagliacozzo, Valerio Tognetti, 2013-03-14 This book is especially addressed to young researchers in theoretical physics with a basic background in Field Theory and Condensed Matter Physics The topics were chosen so as to offer the largest possible overlap between the two expertises selecting a few key problems in Condensed Matter Theory which have been recently revisited within a field theoretic approach The presentation of the material is aimed not only at providing the reader with an overview of this exciting frontier area of modern theoretical physics but also at elucidating most of the tools needed for a technical comprehension of the many papers appearing in current issues of physics journals and hopefully to enable the reader to tackle research problems in this area of physics This makes the material a live creature while not pretending it to be exhaustive it is tutorial enough to be useful to young researchers as a starting point in anyone of the topics covered in the book

Low-Dimensional Systems: Theory, Preparation, and Some Applications Luis M. Liz-Marzán, Michael Giersig, 2003-03-31 Proceedings of the NATO Advanced Research Workshop held in Puszczkowo Poland 16-19 May 2002

Review of the Physics of Low-Dimensional Systems

Paul M. Chaikin, CALIFORNIA UNIV LOS ANGELES DEPT OF PHYSICS., 1978 Over the past decade there has been considerable interest in the physics and chemistry of materials which exhibit highly anisotropic properties The crystals themselves are of

course three dimensional but in some cases the atomic or molecular arrangement is such that the electrons are constrained to move preferentially in only one or two directions and it is in this sense that the systems may be described as having reduced dimensionality As we shall see in the following pages this reduced dimensionality has some unusual consequences which are responsible for the present excitement in this field

Optical Switching in Low-Dimensional Systems

Hartmut Haug, L. Banyai, 2012-12-06 This book contains all the papers presented at the NATO workshop on Optical Switching in Low Dimensional Systems held in Marbella Spain from October 6th to 8th 1988 Optical switching is a basic function for optical data processing which is of technological interest because of its potential parallelism and its potential speed Semiconductors which exhibit resonance enhanced optical nonlinearities in the frequency range close to the band edge are the most intensively studied materials for optical bistability and fast gate operation Modern crystal growth techniques particularly molecular beam epitaxy allow the manufacture of semiconductor microstructures such as quantum wells quantum wires and quantum dots in which the electrons are only free to move in two one or zero dimensions of the optically excited electron hole pairs in these low respectively The spatial confinement dimensional structures gives rise to an enhancement of the excitonic nonlinearities Furthermore the variations of the microstructure extensions of the compositions and of the doping offer great new flexibility in engineering the desired optical properties Recently organic chain molecules such as polydiacetylene which are different realizations of one dimensional electronic systems have been shown also to have interesting optical nonlinearities Both the development and study of optical and electro optical devices as well as experimental and theoretical investigations of the underlying optical nonlinearities are contained in this book

Low Dimensional Properties Of Solids: Nobel Jubilee Symposium - Proceedings Of The Nobel Jubilee Symposium

T Claeson, M Jonson, 1993-03-08 Rarely do so many leading physicists attend one symposium No less than nine Nobel laureates and some 40 other top researchers gathered for this symposium and this book contains the material presented in invited talks as well as the posters The 34 papers are organised into three groups corresponding to various aspects of low dimensional physics of solids

Low-Dimensional Electronic Systems

Guenther Neubauer, Friedemar Kuchar, Helmut Heinrich, 2013-03-13 Owing to new physical technological and device concepts of low dimensionalelectronic systems the physics and fabrication of quasi zero one and two dimensional systems are rapidly growing fields The contributions presented in this volume cover results of nanostructure fabrication including recently developed techniques for example tunneling probe techniques and molecular beam epitaxy quantum transport including the integer and fractional quantum Hall effect optical and transport studies of the two dimensional Wigner solid phonon studies of low dimensional systems and Si SiGe heterostructures and superlattices To the readers new in the field this volume gives a comprehensive introduction and for the experts it is an update of their knowledge and a great help for decisions about future research activities

Tensor Network States and Effective Particles for Low-Dimensional Quantum Spin Systems

Laurens

Vanderstraeten, 2017-08-10 This thesis develops new techniques for simulating the low energy behaviour of quantum spin systems in one and two dimensions Combining these developments it subsequently uses the formalism of tensor network states to derive an effective particle description for one and two dimensional spin systems that exhibit strong quantum correlations These techniques arise from the combination of two themes in many particle physics i the concept of quasiparticles as the effective low energy degrees of freedom in a condensed matter system and ii entanglement as the characteristic feature for describing quantum phases of matter Whereas the former gave rise to the use of effective field theories for understanding many particle systems the latter led to the development of tensor network states as a description of the entanglement distribution in quantum low energy states 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 polyacetylenes CH₁ and conducting donor acceptor molecular crystals TTF-TCNQ Examples of quasi two dimensional systems are high temperature superconductors HTSC based on copper oxides La₂CuO₄ YBa₂Cu₃O_{6-y} and organic superconductors based on BEDT-TTF 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 constant 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 *Physics of Low-dimensional Systems* Nils Robert Nilsson, Stig Lundqvist, 1989 *Physics of Low-dimensional Systems* Stig Lundqvist, Nils Robert Nilsson, 1989-01-01

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