



# Electronic Properties of Multilayers and Low-Dimensional Semiconductor Structures

Edited by  
J. M. Chamberlain  
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NATO ASI Series

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# Electronic Properties Of Multilayers And Low Dimensional Semiconductor Structures

**Andrea D'Andrea**



## **Electronic Properties Of Multilayers And Low Dimensional Semiconductor Structures:**

**Electronic Properties of Multilayers and Low-Dimensional Semiconductor Structures** J.M. Chamberlain, L. Eaves, J.C. Portal, 2012-12-06 This Advanced Study Institute on the Electronic Properties of Multilayers and Low Dimensional Semiconductor Structures focussed on several of the most active areas in modern semiconductor physics These included resonant tunnelling and superlattice phenomena and the topics of ballistic transport quantised conductance and anomalous magnetoresistance effects in laterally gated two dimensional electron systems Although the main emphasis was on fundamental physics a series of supporting lectures described the underlying technology Molecular Beam Epitaxy Metallo Organic Chemical Vapour Deposition Electron Beam Lithography and other advanced processing technologies Actual and potential applications of low dimensional structures in optoelectronic and high frequency devices were also discussed The ASI took the form of a series of lectures of about fifty minutes duration which were given by senior researchers from a wide range of countries Most of the lectures are recorded in these Proceedings The younger members of the Institute made the predominant contribution to the discussion sessions following each lecture and in addition provided most of the fifty five papers that were presented in two lively poster sessions The ASI emphasised the impressive way in which this research field has developed through the fruitful interaction of theory experiment and semiconductor device technology Many of the talks demonstrated both the effectiveness and limitations of semiclassical concepts in describing the quantum phenomena exhibited by electrons in low dimensional structures *Physics of Low-Dimensional Semiconductor Structures* Paul N. Butcher, Norman H. March, Mario P. Tosi, 2013-11-11 Presenting the latest advances in artificial structures this volume discusses in depth the structure and electron transport mechanisms of quantum wells superlattices quantum wires and quantum dots It will serve as an invaluable reference and review for researchers and graduate students in solid state physics materials science and electrical and electronic engineering High Magnetic Fields Fritz Herlach, Noboru Miura, 2003 This three volume book provides a comprehensive review of experiments in very strong magnetic fields that can only be generated with very special magnets The first volume is entirely devoted to the technology of laboratory magnets permanent superconducting high power water cooled and hybrid pulsed magnets both nondestructive and destructive megagauss fields Volumes 2 and 3 contain reviews of the different areas of research where strong magnetic fields are an essential research tool These volumes deal primarily with solid state physics other research areas covered are biological systems chemistry atomic and molecular physics nuclear resonance plasma physics and astrophysics including QED Advances in Research and Applications: Semiconductor Heterostructures and Nanostructures, 1991-05-01 The explosion of the science of mesoscopic structures is having a great impact on physics and electrical engineering because of the possible applications of these structures in microelectronic and optoelectronic devices of the future This volume of Solid State Physics consists of two comprehensive and authoritative articles that discuss most of the physical problems that have so far been identified as being

of importance in semiconductor nanostructures Much of the volume is tutorial in character while at the same time presenting current and vital theoretical and experimental results and a copious reference list so it will be essential reading to all those taking a part in the research and development of this emerging technology

**Proceedings of the Second International Symposium on Electrochemical Processing of Tailored Materials** R. C. Alkire, 1993  
**Optics of Excitons in Confined Systems, Proceedings of the INT Meeting, Italy, 24-27 September 1991** Andrea

D'Andrea, 1992-03-26 Optics of Excitons in Confined Systems provides an overview of research in semiconductors that exhibit resonance enhanced optical nonlinearities in the frequency range close to the valence conduction band gap The book is divided into the following sections quantum wells wires and dots superlattices nonlinear optical properties of confined systems and effects of external fields on confined systems Topics range from fundamental theory to more applied aspects of excitons in confined systems

**Compound Semiconductors 1995, Proceedings of the Twenty-Second INT Symposium on Compound Semiconductors held in Cheju Island, Korea, 28 August-2 September, 1995** Institute of Physics Conference, 2020-10-28 Compound Semiconductors 1995 focuses on emerging applications for GaAs and other compound semiconductors such as InP GaN GaSb ZnSe and SiC in the electronics and optoelectronics industries The book presents the research and development work in all aspects of compound semiconductors It reflects the maturity of GaAs as a semiconductor material and the rapidly increasing pool of research information on many other compound semiconductors Covering the full breadth of the subject from growth through processing to devices and integrated circuits this volume provides researchers in materials science device physics condensed matter physics and electrical and electronic engineering with a comprehensive overview of developments in this well established research area

**Compound Semiconductors 1995, Proceedings of the Twenty-Second INT Symposium on Compound Semiconductors held in Cheju Island, Korea, 28 August-2 September, 1995** Woo, 1996-04-25 Compound Semiconductors 1995 focuses on emerging applications for GaAs and other compound semiconductors such as InP GaN GaSb ZnSe and SiC in the electronics and optoelectronics industries The book presents the research and development work in all aspects of compound semiconductors It reflects the maturity of GaAs as a semiconductor material and the rapidly increasing pool of research information on many other compound semiconductors Covering the full breadth of the subject from growth through processing to devices and integrated circuits this volume provides researchers in materials science device physics condensed matter physics and electrical and electronic engineering with a comprehensive overview of developments in this well established research area

**Nanostructured Systems**, 1992-04-08 This is the first available volume to consolidate prominent topics in the emerging field of nanostructured systems Recent technological advancements have led to a new era of nanostructure physics allowing for the fabrication of nanostructures whose behavior is dominated by quantum interference effects This new capability has enthused the experimentalist and theorist alike Innumerable possibilities have now opened up for physical exploration and

device technology on the nanoscale This book with contributions from five pioneering researchers will allow the expert and novice alike to explore a fascinating new field Provides a state of the art review of quantum scale artificially nanostructured electronic systems Includes contributions by world known experts in the field Opens the field to the non expert with a concise introduction Features discussions of Low dimensional condensed matter physics Properties of nanostructured ultrasmall electronic systems Mesoscopic physics and quantum transport Physics of 2D electronic systems

**Quantum Theory Of Tunneling (2nd Edition)** Mohsen Razavy, 2013-12-17 In this revised and expanded edition in addition to a comprehensible introduction to the theoretical foundations of quantum tunneling based on different methods of formulating and solving tunneling problems different semiclassical approximations for multidimensional systems are presented Particular attention is given to the tunneling of composite systems with examples taken from molecular tunneling and also from nuclear reactions The interesting and puzzling features of tunneling times are given extensive coverage and the possibility of measurement of these times with quantum clocks are critically examined In addition by considering the analogy between evanescent waves in waveguides and in quantum tunneling the times related to electromagnetic wave propagation have been used to explain certain aspects of quantum tunneling times These topics are treated in both non relativistic as well as relativistic regimes Finally a large number of examples of tunneling in atomic molecular condensed matter and nuclear physics are presented and solved

Quantum Coherence And Reality: In Celebration Of The 60th Birthday Of Yakir Aharonov - Proceedings Of The International Conference On Fundamental Aspects Of Quantum Theory Jeeva Anandan, John Safko, 1995-02-23 This volume constitutes the proceedings of the above conference held to celebrate the 60th birthday of Yakir Aharonov Two Nobel laureates Norman Ramsey and Charles Townes members of the National Academy of Sciences and Cresson Medal winners were among the speakers Among the topics discussed are quantum reality geometric phases and the Aharonov Bohm effect spin and statistics black holes and quantum gravity All of these are fundamental to our understanding of quantum theory and are related by being aspects of quantum theory on subjects that Yakir Aharonov has considered

**Mesoscopic Systems** Yoshimasa Murayama, 2008-09-26 Future high tech applications such as nanotechnology require a deep understanding of the physics of mesoscopic systems These systems form a bridge between macroscopic systems governed by classical physics and microscopic systems governed by quantum physics This introduction discusses a variety of typical surface optical transport and magnetic properties of mesoscopic systems with reference to many experimental observations It is written for physicists materials scientists and engineers who want to stay abreast of current research or high tech development

*Quantum Transport in Semiconductors* David K. Ferry, Carlo Jacoboni, 2013-06-29 The majority of the chapters in this volume represent a series of lectures that were given at a workshop on quantum transport in ultrasmall electron devices held at San Miniato Italy in March 1987 These have of course been extended and updated during the period that has elapsed since the workshop was held and have been supplemented with additional chapters devoted to the tunneling process in semiconductor quantum

well structures The aim of this work is to review and present the current understanding in nonequilibrium quantum transport appropriate to semiconductors Generally the field of interest can be categorized as that appropriate to inhomogeneous transport in strong applied fields These fields are most likely to be strongly varying in both space and time Most of the literature on quantum transport in semiconductors or in metallic systems for that matter is restricted to the equilibrium approach in which spectral densities are maintained as semiclassical energy conserving delta functions or perhaps incorporating some form of collision broadening through a Lorentzian shape and the distribution functions are kept in the equilibrium Fermi Dirac form The most familiar field of nonequilibrium transport at least for the semiconductor world is that of hot carriers in semiconductors

Tunneling And Its Implications Adriatico Research Conference on Tunneling and Its Implications 1996, Trieste, Italy, D. Mugnai, 1997 The motion of a particle undergoing quantum tunneling has long been an open and debated problem in several aspects One of the most discussed is the determination of the time spent in such processes but many other features deserve consideration In this volume both theoretical and experimental aspects such as quantum measurement optical analogy experimental tests solid state devices and time scale for anomalies quantum Zeno effect and superluminal evanescence are explored Publisher's website

**Quantum Transport in Ultrasmall Devices** David K. Ferry, Harold L. Grubin, Carlo Jacoboni, A.-P. Jauho, 2012-12-06 The operation of semiconductor devices depends upon the use of electrical potential barriers such as gate depletion in controlling the carrier densities electrons and holes and their transport Although a successful device design is quite complicated and involves many aspects the device engineering is mostly to devise a best device design by defining optimal device structures and manipulating impurity profiles to obtain optimal control of the carrier flow through the device This becomes increasingly difficult as the device scale becomes smaller and smaller Since the introduction of integrated circuits the number of individual transistors on a single chip has doubled approximately every three years As the number of devices has grown the critical dimension of the smallest feature such as a gate length which is related to the transport length defining the channel has consequently declined The reduction of this design rule proceeds approximately by a factor of 1.4 each generation which means we will be using 0.1015  $\mu\text{m}$  rules for the 4 Gb chips a decade from now If we continue this extrapolation current technology will require 30 nm design rules and a cell 3.2 size

*Tunneling And Its Implications: Proceedings Of The Adriatico Research Conference* D. Mugnai, Anedio Ranfagni, Lawrence S. Schulman, 1997-04-19 The motion of a particle undergoing quantum tunneling has long been an open and debated problem in several aspects One of the most discussed is the determination of the time spent in such processes but many other features deserve consideration In this volume both theoretical and experimental aspects such as quantum measurement optical analogy experimental tests solid state devices and time scale for anomalies quantum Zeno effect and superluminal evanescence are explored

**Resonant Tunneling in Semiconductors** Leroy L. Chang, E. E. Mendez, C. Tejedor, 1991 Forty nine contributions from the May 1990 meeting begin with an introduction followed by discussions of

different material systems with various band structure effects Properties associated with dynamic processes are then described including electron scattering and charge storage Specific situations

**Dynamics of Polyatomic Van der Waals Complexes** Nadine Halberstadt, Kenneth C. Janda, 2012-12-06 This publication is the Proceedings of the NATO Advanced Research Workshop ARW on the Dynamics of Polyatomic Van der Waals Molecules held at the Chateau de Bonas Castera Verdun France from August 21 through August 26 1989 Van der Waals complexes provide important model problems for understanding energy transfer and dissipation These processes can be described in great detail for Van der Waals complexes and the insight gained from such studies can be applied to more complicated chemical problems that are not amenable to detailed study The workshop concentrated on the current questions and future prospects for extending our highly detailed knowledge of triatomic Van der Waals molecule dynamics to polyatomic molecules and clusters one molecule surrounded by several or up to several tens of atoms Both experimental and theoretical studies were discussed with particular emphasis on the dynamical behavior of dissociation as observed in the distributions of quantum states of the dissociation product molecules The discussion of theoretical approaches covered the range from complete ab initio studies with a rigorous quantum mechanical treatment of the dynamics to the empirical determination of potential energy surfaces and a classical mechanical treatment of the dynamics Time independent time dependent and statistical approaches were considered The workshop brought together experts from different fields which we hope benefited from their mutual interaction around the central theme of the Dynamics of Van der Waals complexes

**Geometry and Thermodynamics** J.C. Tolédano, 2012-12-06 Distinct scientific communities are usually involved in the three fields of quasi crystals of liquid crystals and of systems having modulated crystalline structures However in recent years there has been a growing feeling that a number of common problems were encountered in the three fields These comprise the need to recur to exotic spaces for describing the type of order of the atomic or molecular configurations of these systems Euclidian superspaces of dimensions greater than 3 or 4 dimensional curved spaces the recognition that one has to deal with geometrically frustrated systems and also the occurrence of specific excitations static or dynamic resulting from the continuous degeneracies of the stable structures considered In the view of discussing these problems a NATO Advanced Research Workshop has assembled in Preveza Greece in September 1989 50 experts of the three considered fields with an equal proportion of theorists and experimentalists 35 hours of conferences and discussions have led to a more detailed evaluation of the similarities and of the differences in the approaches implemented in the studies of the three types of systems The papers contained in this NATO series book provide the substance of this workshop The reader will find three types of papers Some very short papers giving the main ideas stated on a subject Papers comprising 8-10 pages which stick closely to the contents of the talks presented Longer papers providing more extensively the background and results relative to a given topic It is worth summarizing the principal outputs of the workshop

**Photonic Crystals and Light Localization in the 21st Century** C.M. Soukoulis, 2012-12-06 This volume

contains papers presented at the NATO Advanced Study Institute ASI Photonic Crystals and Light Localization held at the Creta Maris Hotel in Limin Hersonissou Crete June 18 30 2000 Photonic crystals offer unique ways to tailor light and the propagation of electromagnetic waves EM In analogy to electrons in a crystal EM waves propagating in a structure with a periodically modulated dielectric constant are organized into photonic bands separated by gaps where propagating states are forbidden There have been proposals for novel applications of these photonic band gap PBG crystals with operating frequencies ranging from microwave to the optical regime that include zero threshold lasers low loss resonators and cavities and efficient microwave antennas Spontaneous emission suppressed for photons in the photonic band gap offers novel approaches to manipulate the EM field and create high efficiency light emitting structures Innovative ways to manipulate light can have a profound influence on science and technology



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