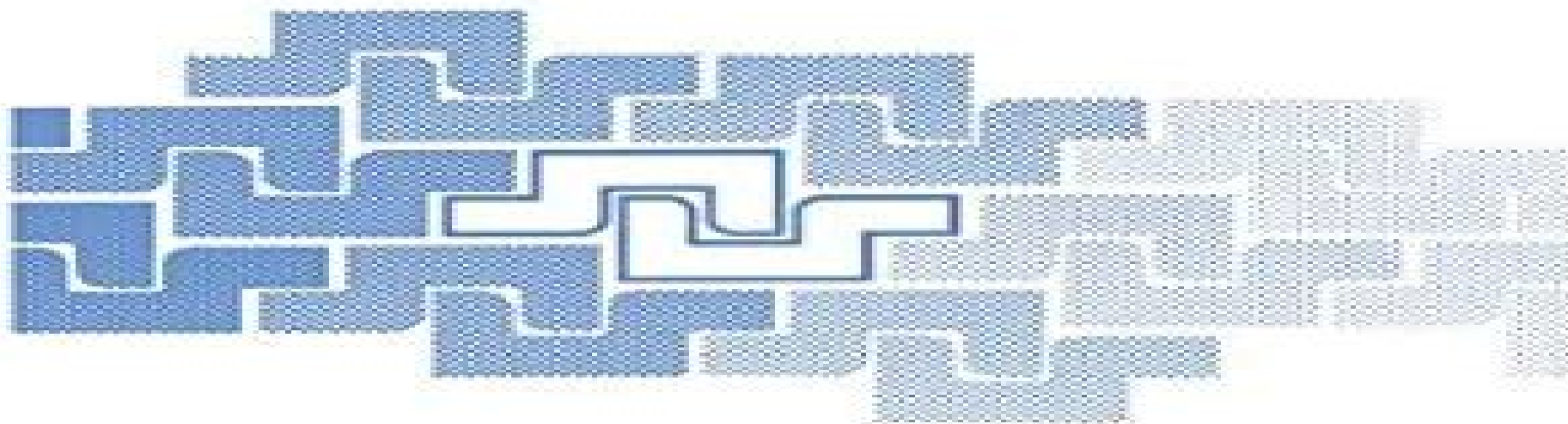




Negative Differential Resistance and Instabilities in 2-D Semiconductors

Edited by
N. Balkan
B. K. Ridley and
A. J. Vickers

NATO ASI Series

Series B: Physics Vol. 307

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N. Balkan, B. K. Ridley, A. J. Vickers



Negative Differential Resistance And Instabilities In 2 D Semiconductors:

Negative Differential Resistance and Instabilities in 2-D Semiconductors N. Balkan, B. K. Ridley, A. J. Vickers, 1993
Proceedings of a workshop held in Il Ciocco Lucca Italy September 1992 Papers cover the fundamental properties of hot carrier transport and the associated instabilities and light emission in 2 dimensional semiconductors dealing with both theory and experiment Material is organized into the foll

Negative Differential Resistance and Instabilities in 2-D Semiconductors N. Balkan, B.K. Ridley, A.J. Vickers, 2012-12-06 Instabilities associated with hot electrons in semiconductors have been investigated from the beginning of transistor physics in the 1940s The study of NDR and impact ionization in bulk material led to devices like the Gunn diode and the avalanche photo diode In layered semiconductors domain formation in HEMTs can lead to excess gate leakage and to excess noise The studies of hot electron transport parallel to the layers in heterostructures single and multiple have shown abundant evidence of electrical instability and there has been no shortage of suggestions concerning novel NDR mechanisms such as real space transfer scattering induced NDR inter sub band transfer percolation effects etc Real space transfer has been exploited in negative resistance PETs NERFETs and in the charge injection transistor CHINT and in light emitting logic devices but far too little is known and understood about other NDR mechanisms with which quantum well material appears to be particularly well endowed for these to be similarly exploited The aim of this book is therefore to collate what is known and what is not known about NDR instabilities and to identify promising approaches and techniques which will increase our understanding of the origin of these instabilities which have been observed during the last decade of investigations into high field longitudinal transport in layered semiconductors The book covers the fundamental properties of hot carrier transport and the associated instabilities and light emission in 2 dimensional semiconductors dealing with both theory and experiment

Hot Electrons in Semiconductors N. Balkan, 1998
Since the arrival of the transistor in 1947 research in hot electrons like any field in semiconductor research has grown at a stunning rate From a physicist s point of view the understanding of hot electrons and their interactions with the lattice has always been a challenging problem of condensed matter physics Recently with the advent of novel fabrication techniques such as electron beam or plasma etching and the advanced growth techniques such as the molecular beam epitaxy MBE and metallo organic chemical vapour deposition MOCVD it has become possible to fabricate semiconductor devices with sub micron dimensions where the electrons are confined to two quantum well one quantum wire or zero quantum dot dimensions In devices of such dimensions a few volts applied to the device result in the setting up of very high electric fields hence a substantial heating of electrons Thus electronic transport in the device becomes non linear and can no longer be described using the simple equations of Ohm s law The understanding of the operations of such devices and the realisations of more advanced ones make it necessary to understand the dynamics of hot electrons There is an obvious lack of good reference books on hot electrons in semiconductors The few that exist either cover a very narrow field or are becoming quite outdated

This book is therefore written with the aim of filling the vacuum in an area where there is much demand for a comprehensive reference book. The book is intended for both established researchers and graduate students and gives a complete account of the historical development of the subject together with current research interests and future trends. The contributions are written by leading scientists in the field. They cover the physics of hot electrons in bulk and low dimensional device technology. The material is organised into subject area that can be classified broadly into five groups: 1 introduction and overview, 2 hot electron phonon interactions and the ultra fast phenomena in bulk and two dimensional structures, 3 hot electrons in both long and short quantum wires and quantum dots, 4 hot electron tunnelling and hot electron transport in superlattices and 5 novel devices based on hot electron transport. The chapters are grouped according to subject matter as far as possible. However, although there is much overlap of ideas and concepts, each chapter is essentially independent of the others.

Nonlinear Dynamics and Chaos in Semiconductors K Aoki, 2000-12-07. The field of nonlinear dynamics and low dimensional chaos has developed rapidly over the past twenty years. The principal advances have been in theoretical aspects, but more recent applications in a wide variety of the sciences have been made. *Nonlinear Dynamics and Chaos in Semiconductors* is the first book to concentrate on specific physical and ex

Nonlinear Dynamics and Pattern Formation in Semiconductors and Devices Franz-Josef Niedernostheide, 2013-03-08. In *Nonlinear Dynamics and Pattern Formation in Semiconductors and Devices*, the contributions of the International Conference on Nonlinear Dynamics and Pattern Formation in the Natural Environment (ICPF 94) in Noordwijkerhout, held by many internationally renowned experts, are compiled. To connect the field of semiconductor physics with the theory of nonequilibrium dissipative systems, the emphasis lies on the study of localized structures, their stability and bifurcation behaviour. A point of special interest is the evolution of dynamic structures and the investigation of more complex structures arising from interactions between these structures. Possible applications of nonlinear effects and self organization phenomena with respect to signal processing are discussed.

Phonons in Semiconductor Nanostructures J.P. Leburton, J. Pascual, Clivia M. Sotomayor Torres, 2012-12-06. In the last ten years, the physics and technology of low dimensional structures has experienced a tremendous development. Quantum structures with vertical and lateral confinements are now routinely fabricated with feature sizes below 100 nm. While quantization of the electron states in mesoscopic systems has been the subject of intense investigation, the effect of confinement on lattice vibrations and its influence on the electron phonon interaction and energy dissipation in nanostructures received attention only recently. This NATO Advanced Research Workshop on Phonons in Semiconductor Nanostructures was a forum for discussion on the latest developments in the physics of phonons and their impact on the electronic properties of low dimensional structures. Our goal was to bring together specialists in lattice dynamics and nanostructure physics to assess the increasing importance of phonon effects on the physical properties of one dimensional (1D) and zero dimensional (0D) structures. The Workshop addressed various issues related to phonon physics in III-V, II-VI and IV

semiconductor nanostructures The following topics were successively covered Models for confined phonons in semiconductor nanostructures latest experimental observations of confined phonons and electron phonon interaction in two dimensional systems elementary excitations in nanostructures phonons and optical processes in reduced dimensionality systems phonon limited transport phenomena hot electron effects in quasi ID structures carrier relaxation and phonon bottleneck in quantum dots

Multiscale Modeling Pedro Derosa,Tahir Cagin,2010-12-09 While the relevant features and properties of nanosystems necessarily depend on nanoscopic details their performance resides in the macroscopic world To rationally develop and accurately predict performance of these systems we must tackle problems where multiple length and time scales are coupled Rather than forcing a single modeling approach to *Quantum Processes in Semiconductors* B. K. Ridley,2013-08-08 This book sets out the fundamental quantum processes that are important in the physics and technology of semiconductors The fifth edition includes three new chapters that expand the coverage of semiconductor physics relevant to its accompanying technology

Magnetism and Structure in Systems of Reduced Dimension Robin F.C. Farrow,Bernard Dieny,Markus Donath,Albert Fert,B.D. Hermsmeier,2013-06-29 This volume contains the papers presented at the NATO Advanced Research Workshop on Magnetism and Structure in Systems of Reduced Dimension held at l Institut d Etudes Scientifiques de Cargese U M S C N R S Universite de Corte Universite de Nice Sophia Antipolis during June 15 19 1992 The ordering of papers in the volume reflects the sequence of papers presented at the workshop The aim was not to segregate the papers into rigidly defmed areas but to group the papers into small clusters each cluster having a common theme In this way the parallel rather than serial development of areas such as preparation of films magnetic and structural characterization was highlighted Indeed the success of the field depends on such parallel development and is assisted by workshops of this nature and the international collaborations which they foster The organizers and participants of the NATO workshop express their thanks to Mme Marie France Hanseier and the staff at l Institut d Etudes Scientifiques de Cargese U M S C N R S Universite de Corte Universite de Nice Sophia Antipolis for making the workshop and local arrangements a memorable success Warm thanks are also expressed to Varadachari Sadagopan and Pascal Stefanou for their encouragement and help in making the workshop a reality We are also grateful to Kristl Hathaway Larry Cooper and Gary Prinz for advice in developing the workshop program

Ionization of Solids by Heavy Particles Raul A. Baragiola,2012-12-06 This book collects the papers presented at the NATO Advanced Research Workshop on Ionization of Solids by Heavy Particles held in Giardini Naxos Taormina Italy on June 1 5 1992 The meeting was the first to gather scientists to discuss the physics of electron emission and other ionization effects occurring during the interaction of heavy particles with condensed matter The central problem in the field is how to use observations of electron emission and final radiation damage to understand what happens inside the solid like excitation mechanisms the propagation of the electronic excitation along different pathways and surface effects The ARW began with a brief survey of the field stressing the unknowns It was pointed out that ionization

theories can only address the very particular case of weak perturbations For this problem this meant high speed low charged projectiles a perturbation treatment of interactions with slow highly charged ions was later presented Only semi empirical models exist for velocities lower than the Fermi velocity in the solid which can be used to predict kinetic electron emission yields These models however do not address the basic questions about the mechanisms for electron excitation transport and escape through the surface layer

Chemical Physics of Intercalation II Patrick Bernier, John E. Fischer, Siegmur Roth, Stuart A. Solin, 2012-12-06 This volume provides a record of the second ASI on the subject Chemical Physics of Intercalation which was patterned after its highly successful July 1987 predecessor A growing community of chemists physicists and materials scientists has come to appreciate the utility of extending the intercalation concept to generic guest host compounds and solid solutions The unifying themes are the complex phase equilibria which result from the competition between repulsive and attractive interactions between and within the guest and host substructures the tunability of properties by control of guest concentration and superlattice periodicity and the broad spectrum of potential applications which these materials may provide The success of this initiative may be judged by noting the enlarged scope of materials covered in this volume as compared to its predecessor The present volume covers the spectrum from 3 dimensional oxides 2 dimensional classical layer intercalates dimensional doped polymers and zero dimensional doped fullerene lattices Hybrid systems such as polymers in layer hosts and nonporous hosts are also treated Several chapters provide global unifying viewpoints by focussing on solid state chemical aspects transport and optical properties the occurrence of superconductivity etc

Dissociative Recombination Bertrand R. Rowe, J. Brian A. Mitchell, André Canosa, 2012-12-06 Proceedings of a NATO ARW held in Saint Jacut de la Mer Brittany France May 3 8 1992

Future Directions of Nonlinear Dynamics in Physical and Biological Systems P.L. Christiansen, J.C. Eilbeck, R.D. Parmentier, 2013-11-11 Early in 1990 a scientific committee was formed for the purpose of organizing a high level scientific meeting on Future Directions of Nonlinear Dynamics in Physical and Biological Systems in honor of Alwyn Scott's 60th birthday December 25 1991 As preparations for the meeting proceeded they were met with an unusually broad scale and high level of enthusiasm on the part of the international nonlinear science community resulting in a participation by 168 scientists from 23 different countries in the conference which was held July 23 to August 11 1992 at the Laboratory of Applied Mathematical Physics and the Center for Modelling Nonlinear Dynamics and Irreversible Thermodynamics MIDIT of the Technical University of Denmark During the meeting about 50 lectures and 100 posters were presented in 9 working days The contributions to this present volume have been grouped into the following chapters 1 Integrability Solitons and Coherent Structures 2 Nonlinear Evolution Equations and Diffusive Systems 3 Chaotic and Stochastic Dynamics 4 Classical and Quantum Lattices and Fields 5 Superconductivity and Superconducting Devices 6 Nonlinear Optics 7 Davydov Solitons and Biomolecular Dynamics 8 Biological Systems and Neurophysics Al Scott has made early and fundamental contributions to many of these different areas of nonlinear science

They form an important subset of the total number of the papers and posters presented at the meeting Other papers from the meeting are being published in a special issue of *Physica D Nonlinear Phenomena* **Integrable Quantum Field Theories** L. Bonora, Giuseppe Mussardo, A. Schwimmer, L. Girardello, M. Martellini, 2013-11-11 Proceedings of a NATO ARW held in Como Italy September 14-19 1992 **Photonic Band Gaps and Localization** C.M. Soukoulis, 2013-11-27 This volume contains the papers presented at the NATO Advanced Research Workshop on Localization and Propagation of Classical Waves in Random and Periodic Media held in Aghia Pelaghia Heraklion Crete May 26-30 1992 The workshop's goal was to bring together theorists and experimentalists from two related areas localization and photonic band gaps to highlight their common interests The objectives of the workshop were i to assess the state of the art in experimental and theoretical studies of structures exhibiting classical wave band gaps and/or localization ii to discuss how such structures can be fabricated to improve technologies in different areas of physics and engineering and iii to identify problems and set goals for further research Studies of the propagation of electromagnetic EM waves in periodic and/or disordered dielectric structures photonic band gap structures have been and continue to be a dynamic area of research Anderson localization of EM waves in disordered dielectric structures is of fundamental interest where the strong electron-electron interaction effects entering the electron localization are absent *Growth Patterns in Physical Sciences and Biology* Jaun-Manuel Garcia-Ruiz, Enrique Louis, P. Meakin, Leonard M. Sander, 2012-12-06 During the past decade interest in the formation of complex disorderly patterns far from equilibrium has grown rapidly This interest has been stimulated by the development of new approaches based primarily on fractal geometry to the quantitative description of complex structures increased understanding of non-linear phenomena and the introduction of a variety of models such as the diffusion limited aggregation model that provide paradigms for non-equilibrium growth phenomena Advances in computer technology have played a crucial role in both the experimental and theoretical aspects of this enterprise Substantial progress has been made towards the development of comprehensive understanding of non-equilibrium growth phenomena but most of our current understanding is based on simple computer models Pattern formation processes are important in almost all areas of science and technology and clearly pattern growth pervades biology Very often remarkably similar patterns are found in quite diverse systems In some cases dielectric breakdown electrodeposition fluid displacement in porous media dissolution patterns and random dendritic growth for example the underlying causes of this similarity is quite well understood In other cases vascular trees nerve cells and river networks for example we do not yet know if a fundamental relationship exists between the mechanisms leading to the formation of these structures *Nonlinear Spatio-Temporal Dynamics and Chaos in Semiconductors* Eckehard Schöll, 2001-02-22 This book brings together concepts from semiconductor physics nonlinear dynamics and chaos to examine semiconductor transport phenomena *Evolution of Spontaneous Structures in Dissipative Continuous Systems* Friedrich H. Busse, Stefan C. Müller, 2003-07-01 In the decades the study of the formation of structures past spontaneous in far from equilibrium has branched

of systems equilibrium major physics grown search with ties to It has become evident that strong neighboring disciplines a diverse of can be understood within a common mat phenomena range matical framework which has been called nonlinear of continuous dynamics This name the close to the field of nonlinear systems emphasizes relationship of with few of freedom which has evolved into a dynamics systems degrees mature in the recent features mathematically subject past Many dynamical of continuous be described reduction few can a to a systems actually through of freedom and of the latter of continue to degrees properties type systems of continuous the inspire study systems The of this book is to demonstrate the numerous goal through examples that exist for the of nonlinear the opportunities study phenomena through tools of mathematical and use of common analyses dynamical interpretations Instead of overview of the a providing comprehensive rapidly evolving field the contributors to this book are to communicate to a wide scientific trying audience the of what have learnt about the formation of essence they spon neous structures in continuous and about the dissipative systems competition between order and chaos that characterizes these It is that systems hoped the book will be even to those scientists whose not helpful are disciplines the authors

Theory of Transport Properties of Semiconductor Nanostructures Eckehard Schöll, 2013-11-27 Recent advances in the fabrication of semiconductors have created almost un limited possibilities to design structures on a nanometre scale with extraordinary electronic and optoelectronic properties The theoretical understanding of elec trical transport in such nanostructures is of utmost importance for future device applications This represents a challenging issue of today s basic research since it requires advanced theoretical techniques to cope with the quantum limit of charge transport ultrafast carrier dynamics and strongly nonlinear high field ef fects This book which appears in the electronic materials series presents an over view of the theoretical background and recent developments in the theory of electrical transport in semiconductor nanostructures It contains 11 chapters which are written by experts in their fields Starting with a tutorial introduction to the subject in Chapter 1 it proceeds to present different approaches to transport theory The semiclassical Boltzmann transport equation is in the centre of the next three chapters Hydrodynamic moment equations Chapter 2 Monte Carlo techniques Chapter 3 and the cellular au tomaton approach Chapter 4 are introduced and illustrated with applications to nanometre structures and device simulation A full quantum transport theory covering the Kubo formalism and nonequilibrium Green s functions Chapter 5 as well as the density matrix theory Chapter 6 is then presented

Hot Carrier Transport in Heterojunction Devices and Novel Resist Systems for Scanning Probe Microscope Nanolithography Jihong Chen, 1995

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