

Edited by

David J. Lockwood and Jeff F. Young

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Peter YU, Manuel Cardona

Light Scattering in Semiconductor Structures and Superlattices D.J. Lockwood, Jeff F. Young, 2013-12-20 Just over 25 years ago the first laser excited Raman spectrum of any crystal was obtained In November 1964 Hobden and Russell reported the Raman spectrum of GaP and later in June 1965 Russell published the Si spectrum Then in July 1965 the forerunner of a series of meetings on light scattering in solids was held in Paris Laser Raman spectroscopy of semiconductors was at the forefront in new developments at this meeting Similar meetings were held in 1968 New York 1971 Paris and 1975 Campinas Since then and apart from the multidisciplinary biennial International Conference on Raman Spectroscopy there has been no special forum for experts in light scattering spectroscopy of semiconductors to meet and discuss latest developments Meanwhile technological advances in semiconductor growth have given rise to a veritable renaissance in the field of semiconductor physics Light scattering spectroscopy has played a crucial role in the advancement of this field providing valuable information about the electronic vibrational and structural properties both of the host materials and of heterogeneous composite structures On entering a new decade one in which technological advances in lithography promise to open even broader horizons for semiconductor physics it seemed to us to be an ideal time to reflect on the achievements of the past decade to be brought up to date on the current state of the art and to catch some glimpses of where the field might be headed in the 1990s Physics Of Semiconductors - Proceedings Of The 20th International Conference (In 3 **Volumes)** E M Anastassakis, John D Joannopoulos, 1990-11-29 Gathering top experts in the field the 20th ICPS proceedings reviews the progress in all aspects of semiconductor physics. The proceedings will include state of the art lectures with special emphasis on exciting new developments It should serve as excellent material for researchers in this and related fields

Physics Of Semiconductors, The - Proceedings Of The 22nd International Conference (In 3 Volumes) David J Lockwood,1995-01-20 These proceedings review the progress in most aspects of semiconductor physics including those related to materials processing and devices The conference continues the tradition of the ICPS series and these volumes include state of the art lectures The plenary and invited papers address areas of major interest These volumes will serve as excellent material for researchers in semiconductor physics and related fields **Confined Electrons and Photons** Elias Burstein, Claude Weisbuch, 2012-12-06 The optical properties of semiconductors have played an important role since the identification of semiconductors as small bandgap materials in the thinies due both to their fundamental interest as a class of solids baving specific optical propenies and to their many important applications. On the former aspect we can cite the fundamental edge absorption and its assignment to direct or indirect transitions many body effects as revealed by exciton formation and photoconductivity. On the latter aspect large scale applications such as LEDs and lasers photovoltaic converters photodetectors electro optics and non linear optic devices come to mind The eighties saw a revitalization of the whole field due to the advent of heterostructures of lower dimensionality mainly two dimensional quantum wells which

through their enhanced photon matter interaction yielded new devices with unsurpassed performance Although many of the basic phenomena were evidenced through the seventies it was this impact on applications which in turn led to such a massive investment in fabrication tools thanks to which many new structures and materials were studied yielding funher advances in Phonons in Semiconductor Nanostructures J.P. Leburton, J. Pascual, Clivia M. Sotomayor fundamental physics 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 run 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 Sem iconductor 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 nanos tructure physics to assess the increasing importance of phonon effects on the physical properties of one lD and zero dimensional OD 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 Electronic Properties of Multilayers and Low-Dimensional Semiconductor Structures J.M. Chamberlain, L. dots 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 *Compound Semiconductors Strained Layers and Devices* Suresh Jain, Magnus Willander, R. Van Overstraeten, 2013-11-27 In recent years extensive work has been done on strain dislocations and mechanical properties of strained layers Although it is not possible to describe all this work in a monograph of this size Compound Semiconductors Strained Layers and Devices provides an overview with sufficient detail to cover all the essential aspects of recent developments in the field The book concentrates on compound semiconductors with emphasis on wideband gap II VI and III Nitride semiconductors GeSi strained layers are discussed for comparison to clarify the underlying physics The effects of strain on band structure transport and optical properties of both the zinc blende and the wurtzite compound semiconductors are discussed as are Piezoelectric Effects and Quantum Confined Stark Effects Magnetic polarons in diluted II VI magnetic polarons are also covered Among the applications blue and green LEDs and LDs and mid IR LDs are included A whole chapter is devoted to these devices Another chapter examines transistors based on conventional III V II VI and III nitride semiconductors The subject matter is treated at a level appropriate for students and senior researchers interested in material science and in designing and modeling semiconductor devices It will also be useful to engineers and material scientists concerned with the effects of strain on the mechanical properties of crystalline layers of any material

Application of Particle and Laser Beams in Materials Technology P. Misaelides, 2013-03-09 The development of advanced materials with preselected properties is one of the main goals of materials research Of especial interest are electronics high temperature and supemard materials for various applications as well as alloys with improved wear corrosion and mechanical resistance properties The technical challenge connected with the production of these materials is not only associated with the development of new specialised preparation techniques but also with quality control The energetic charged particle electron and photon beams offer the possibility of modifying the properties of the near surface regions of materials without seriously affecting their bulk and provide unique analytical tools for testing their qUality This volume includes most of the lectures and contributions delivered at the NATO funded Advanced Study Institute Application of Particle and Laser Beams in Materials Technology which was held in Kallithea Chalkidiki in Northern Greece from the 8th to the 21st of May 1994 and attended by 73 participants from 21 countries The aim of this ASI was to provide to the participants an overview of this rapidly expanding field Fundamental aspects concerning the interactions and collisions on atomic nuclear and solid state scale were presented in a didactic way along with the application of a variety of techniques for the solution of problems ranging from the development of electronics materials to corrosion research and from archaeometry to environmental protection Fundamentals of Semiconductors Peter YU, Manuel Cardona, 2007-05-08 This third updated edition of Fundamentals of Semiconductors attempts to fill the gap between a general solid state physics textbook and research articles by providing detailed explanations of the electronic vibrational transport and optical properties of semiconductors. The

approach is physical and intuitive rather than formal and pedantic Theories are presented to explain experimental results This textbook has been written with both students and researchers in mind Its emphasis is on understanding the physical properties of Si and similar tetrahedrally coordinated semiconductors. The explanations are based on physical insights Each chapter is enriched by an extensive collection of tables of material parameters figures and problems Many of these problems lead the student by the hand to arrive at the results Best of Soviet Semiconductor Physics and Technology, 1989-1990 Mikhail Efimovich Levinshte?n,1995 Each year a large number of first rate articles on the physics and technology of semiconductor devices written by Soviet experts in the field are published However due to the lack of exchange and personal contact most of these unfortunately are neglected by many scientists from the United States Japan as well as Western Europe Consequently many important developments in semiconductor physics are missed by the Western world This book is a serious attempt to bridge the gap between the Soviet and Western scientific communities Most of all it is an effort towards facilitating the communication and sharing of knowledge amongst people from different parts of the world Ultimately the aim is to contribute towards the building of a better world for all one where the knowledge of advanced technology and scientific discoveries is used to improve the quality of life and not the pursuit of selfish mutually destructive behavior For those in the field who wish to partake in this exchange of knowledge and as a gesture of support for their Soviet counterparts the reading of this book provides the first step Narrow-gap Semiconductor Photodiodes Antoni Rogalski, Krzysztof Adamiec, Jaroslaw Rutkowski, 2000 In this monograph investigations of the performance of narrow gap semiconductor photodiodes are presented and recent progress in different IR photodiode technologies is discussed HqCdTe photodiodes InSb photodiodes alternatives to HgCdTe III V and II VI ternary alloy photodiodes lead chalcogenide photodiodes and a new class of photodiodes based on two dimensional solids Investigations of the performance of photodiodes operated in different spectral regions are presented Proceedings of the 17th International Conference on the Physics of Semiconductors J.D. Chadi, W.A. Harrison, 2013-12-01 The Proceedings of the 17th International Conference on the Physics of Semiconductors are contained in this volume A record 1050 scientists from 40 countries participated in the Conference which was held in San Francisco August 6 1 0 1984 The Conference was organized by the ICPS Committee and sponsored by the International Union of Pure and Applied Physics and other professional government and industrial organizations listed on the following pages Papers representing progress in all aspects of semiconductor physics were presented Far more abstracts 765 than could be presented in a five day meeting were considered by the International Program Committee A total of 350 papers consisting of 5 plenary 35 invited and 310 contributed were presented at the Conference in either oral or poster sessions All but a few of the papers were submitted and have been included in these Proceedings An interesting shift in subject matter in comparison with earlier Conferences is manifested by the large number of papers on surfaces interfaces and quantum wells To facilitate the use of the Proceedings in finding closely related papers among the sometimes relatively

large number of contributions within a main subject area we chose not to arrange the papers strictly according to the Conference schedule We have organized the book as can be seen from the Contents into specific subcategories and subdivisions within each major category Plenary and invited papers have been placed together with the appropriate Electronic Structure of Semiconductor Heterojunctions Giorgio Margaritondo, 2012-12-06 E se contributed papers non che di cid son vere prove A nd were it not for the true evidence Per piti e piti autori che sa ra nno Of many authors who will be Per i miei versi nominati altrove Mentioned elsewhere in my rhyme Non presterei alla penna 10 mana I would not lend my hand to the pen Per nota1 cid ch io vidi can temenza And describe my observations for fear ehe non fosse do altri casso e van 0 That they would be rejected and in vane Mala lor chiara e vera esperienza But these authors clear and true experience Mi assicura nel dir come persone Encourages me to report since they Degne di fede ad ogni gra n sentenza Should always be trusted for their word From Dittamondo by Fazio degli Uberti Heterojunction interfaces the interfaces between different semiconducting materials have been extensively explored for over a quarter of a century. The justification for this effort is clear these interfaces could become the building blocks of Illany novel solid state devices Other interfaces involving semiconductors are all ready widely used in technology. These are for example metal semiconductor and insulator semiconductor junctions and hOll1ojunctions In comparison the present applications of heterojunction interfaces are limited but they could potentially becOlne lnuch lllore ext ensive in the neal future The path towards the widespread use of heterojunctions is obstructed by several obstacles 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 Basic Semiconductor Physics Chihiro Hamaguchi, 2009-12-09 When the rst edition of Basic Semiconductor Physics was published in 2001 there were already many books review papers and scienti c journals de ing with various aspects of semiconductor physics Since many of them were dealing with special aspects of newly observed phenomena or with very f damental physics it was very discult to understand the advanced physics of semiconductors without the detailed knowledge of semiconductor physics For this purpose the author published the rst edition for the readers who are involved with semiconductor research and development Basic Semiconductor Physics deals with details of energy band structures e ective mass eq tion and k p perturbation and then describes very important phenomena in semiconductors such as optical transport magnetoresistance and quantum phenomena Some of my friends wrote to me that the textbook is not only basic but advanced and that the title of the book does not re ect the c tents However I am still convinced that the title is appropriate because the advanced physics of semiconductor may be understood with the knowledge of the fundamental physics In addition new and advanced phenomena served in semiconductors at an

early time are becoming well known and thus classi ed in basic physics After the publication of the rst edition many typographical errors have been pointed out and the corrected version was published in 2006 The p lisher and my friends persuade me to revise the book adding new chapters keeping the subject at the appropriate level Optical Characterization of Semiconductors D. B. Kushev, 1992 Key Engineering Materials Vol 65 **Synthetic Modulated Structures** Leroy L. Chang, B. C. Giessen, 2013-10-22 Materials Science and Technology Series Synthetic Modulated Structures focuses on synthetic modulated structures which is described as any periodically perturbed materials with a repetition greater than the basic unit cell dimension The book is organized into three parts Part I provides a perspective of developments and structural characterization of the semiconductor and metal area The electronic properties in different configurations and structures including compositional and doping modulation are covered in Part II Part III begins with preparation methods followed by a discussion on distinctive fields of interest in metals transport and magnetic properties superconductivity and diffusion This publication is a good source for students and researchers conducting work in the general area of modulated Fundamentals of Semiconductor Peter YU, Manuel Cardona, 2013-11-11 Fundamentals of Semiconductors structures attempts to fill the gap between a general solid state physics textbook and research articles by providing detailed explanations of the electronic vibrational transport and optical properties of semiconductors. The approach is physical and intuitive rather than formal and pedantic Theories are presented to explain experimental results This textbook has been written with both students and researchers in mind Its emphasis is on understanding the physical properties of Si and similar tetrahedrally coordinated semiconductors The explanations are based on physical insights Each chapter is enriched by an extensive collection of tables of material parameters figures and problems Many of these problems lead the student by the hand to arrive at the results Superlattices and Other Heterostructures Eougenious L. Ivchenko, Grigory Pikus, 2012-12-06 Superlattices and Other Heterostructures deals with optical properties of superlattices and quantum well structures with emphasis on phenomena governed by crystal symmetries After a brief introduction to group theory and symmetries methods to calculate spectra of electrons excitions and phonons in heterostructures are discussed Further chapters cover absorption and reflection of light under interband transitions cyclotron and electron spin resoncance light scattering by free and bound carriers as well as by optical and acoustic phonons polarized photoluminescence optical spin orientation of electrons and excitions and nonlinear optical and photogalvanic effects Scientific and Technical Aerospace Reports ,1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

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