

PROPERTIES OF

# III-V Quantum Wells and Superlattices

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# Properties Of Iii V Quantum Wells And Superlattices

**Antoni Rogalski**



## **Properties Of Iii V Quantum Wells And Superlattices:**

*Properties of III-V Quantum Wells and Superlattices* P. K. Bhattacharya, Pallab Bhattacharya, 1996 A finely structured state of the art review on controlled building of atomic scale multilayers where nanometric structures based on III V semiconductors have attracted particular attention Optical Properties of III-V Semiconductors Heinz Kalt, 2012-12-06 Optical and electronic properties of semiconductors are strongly influenced by the different possibilities of carriers to be distributed among the various extrema of the band structure or the transfer between them The monograph *Optical Properties of III V Semiconductors* is concerned with the III V bulk and low dimensional semiconductors with the emphasis on the implications of multi valley bandstructures on the physical mechanisms essential for opto electronic devices The optical response of such semiconductor materials is determined by many body effects like screening gap narrowing Fermi edge singularity electron hole plasma and liquid formation The discussion of the latter features is presented self consistently with the dynamics of excitons and carriers resulting from intervalley coupling Basic Properties of III-V Devices - Understanding Mysterious Trapping Phenomena Kompa, Günter, 2014 Trapping effects in III V devices pose a great challenge to any microwave device modeler Understanding their physical origins is of prime importance to create physics related reliable device models The treatment of trapping phenomena is commonly beyond the classical higher education level of communication engineers This book provides any basic material needed to understand trapping effects occurring primarily in GaAs and GaN power HEMT devices As the text material covers interdisciplinary topics such as crystal defects and localized charges trap centers and trap dynamics deep level transient spectroscopy and trap centers in passivation layers the book will be of interest to graduate students of electrical engineering communication engineering and physics as well as materials device and circuit engineers in research and industry *Intersubband Transitions in Quantum Wells: Physics and Device Applications II*, 1999-10-25 Intersubband Transitions in Quantum Wells Physics and Device Applications II **Quantum Wells and Superlattices in Optoelectronic Devices and Integrated Optics** Alfred R. Adams, 1987 Thin Film Growth Techniques for Low-Dimensional Structures R.F.C. Farrow, S.S.P. Parkin, P.J. Dobson, J.H. Neave, A.S. Arrott, 2013-03-09 This work represents the account of a NATO Advanced Research Workshop on Thin Film Growth Techniques for Low Dimensional Structures held at the University of Sussex Brighton England from 15 19 Sept 1986 The objective of the workshop was to review the problems of the growth and characterisation of thin semiconductor and metal layers Recent advances in deposition techniques have made it possible to design new material which is based on ultra thin layers and this is now posing challenges for scientists technologists and engineers in the assessment and utilisation of such new material Molecular beam epitaxy MBE has become well established as a method for growing thin single crystal layers of semiconductors Until recently MBE was confined to the growth of III V compounds and alloys but now it is being used for group IV semiconductors and II VI compounds Examples of such work are given in this volume MBE has one major advantage over other crystal growth

techniques in that the structure of the growing layer can be continuously monitored using reflection high energy electron diffraction RHEED This technique has offered a rare bonus in that the time dependent intensity variations of RHEED can be used to determine growth rates and alloy composition rather precisely Indeed a great deal of new information about the kinetics of crystal growth from the vapour phase is beginning to emerge 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 *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

Semiconductors and Semimetals ,1990-10-10 Semiconductors and Semimetals **New Ternary Alloy Systems for Infrared Detectors** Antoni Rogalski,1994 **Processing and Properties of Compound Semiconductors** ,2001-10-20 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer series as it is widely known has succeeded in producing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others

promise that this tradition will be maintained and even expanded      *Materials Science and Technology: Strained-Layer Superlattices*, 1991-02-20 The following blurb to be used for the AP Report and ATI only as both volumes will not appear together there Strained layer superlattices have been developed as an important new form of semiconducting material with applications in integrated electro optics and electronics Edited by a pioneer in the field Thomas Pearsall this volume offers a comprehensive discussion of strained layer superlattices and focuses on fabrication technology and applications of the material This volume combines with Volume 32 Strained Layer Superlattices Physics in this series to cover a broad spectrum of topics including molecular beam epitaxy quantum wells and superlattices strain effects in semiconductors optical and electrical properties of semiconductors and semiconductor devices The following previously approved blurb is to be used in all other direct mail and advertising as both volumes will be promoted together Strained layer superlattices have been developed as an important new form of semiconducting material with applications in integrated electro optics and electronics Edited by a pioneer in the field Thomas Pearsall this two volume survey offers a comprehensive discussion of the physics of strained layer superlattices Volume 32 as well as detailing fabrication technology and applications of the material Volume 33 Although each volume is edited to stand alone the two books combine to cover a broad spectrum of topics including molecular beam epitaxy quantum wells and superlattices strain effects in semiconductors optical and electrical properties of semiconductors and semiconductor devices      III-V Nitride Semiconductors Edward T. Yu, 2022-10-30 The concepts in this book will provide a comprehensive overview of the current state for a broad range of nitride semiconductor devices as well as a detailed introduction to selected materials and processing issues of general relevance for these applications This compilation is very timely given the level of interest and the current stage of research in nitride semiconductor materials and device applications This volume consists of chapters written by a number of leading researchers in nitride materials and device technology addressing Ohmic and Schottky contacts AlGaInN multiple quantum well laser diodes nitride vertical cavity emitting lasers and ultraviolet photodetectors This unique volume provides a comprehensive review and introduction to application and devices based on GaN and related compounds for newcomers to the field and stimulus to further advances for experienced researchers      **Doping in III-V Semiconductors** E. Fred Schubert, 2015-08-18 This is the first book to describe thoroughly the many facets of doping in compound semiconductors Equal emphasis is given to the fundamental materials physics and to the technological aspects of doping The author describes various doping techniques including doping during epitaxial growth doping by implantation and doping by diffusion The key characteristics of all dopants that have been employed in III V semiconductors are discussed In addition general characteristics of dopants are analyzed including the electrical activity saturation amphotericity autocompensation and maximum attainable dopant concentration Redistribution effects are important in semiconductor microstructures Linear and non linear diffusion different microscopic diffusion mechanisms surface segregation surface drift surface migration impurity induced disordering and the respective

physical driving mechanisms are illustrated Topics related to basic impurity theory include the hydrogenic model for shallow impurities linear screening density of states classical and quantum statistics the law of mass action as well as many analytic approximations for the Fermi Dirac integral for three two and one dimensional systems The timely topic of highly doped semiconductors including band tails impurity bands bandgap renormalization the Mott transition and the Burstein Moss shift is discussed as well Doping is essential in many semiconductor heterostructures including high mobility selectively doped heterostructures quantum well and quantum barrier structures doping superlattice structures and d doping structures Technologically important deep levels are summarized including Fe Cr and the DX center the EL2 defect and rare earth impurities The properties of deep levels are presented phenomenologically including emission capture Shockley Read recombination the Poole Frenkel effect lattice relaxation and other effects The final chapter is dedicated to the experimental characterization of impurities This book will be of interest to graduate students researchers and development engineers in the fields of electrical engineering materials science physics and chemistry working on semiconductors The book may also be used as a text for graduate courses in electrical engineering and materials science

#### **Spatial Light Modulator**

**Technology** Uzi Efron, 1994-09-29 This work offers comprehensive coverage of all aspects of spatial light modulators from the various optical materials used for modulation through the availability and characteristics of specific devices to the main applications of SLMs and related systems The gamut of SLMs is surveyed including multiple quantum well acousto optical magneto optical deformable membrane ferroelectric liquid crystal and smart pixel modulators

Concise Encyclopedia of Semiconducting Materials & Related Technologies S. Mahajan, L. C. Kimerling, 2013-10-22 The development of electronic materials and particularly advances in semiconductor technology have played a central role in the electronics revolution by allowing the production of increasingly cheap and powerful computing equipment and advanced telecommunications devices This Concise Encyclopedia which incorporates relevant articles from the acclaimed Encyclopedia of Materials Science and Engineering as well as newly commissioned articles emphasizes the materials aspects of semiconductors and the technologies important in solid state electronics Growth of bulk crystals and epitaxial layers are discussed in the volume and coverage is included of defects and their effects on device behavior Metallization and passivation issues are also covered Over 100 alphabetically arranged articles written by world experts in the field are each intended to serve as the first source of information on a particular aspect of electronic materials The volume is extensively illustrated with photographs diagrams and tables A bibliography is provided at the end of each article to guide the reader to recent literature A comprehensive system of cross references a three level subject index and an alphabetical list of articles are included to aid readers in the abstraction of information

#### **Optical Properties of Narrow-Gap Low-Dimensional Structures**

Clivia M. Sotomayor Torres, J.C. Portal, J.C. Maan, R.A. Stradling, 2012-12-06 This volume contains the Proceedings of the NATO Advanced Research Workshop on Optical Properties of Narrow Gap Low Dimensional Structures held from July 29th to August 1st 1986

in St Andrews Scotland under the auspices of the NATO International Scientific Exchange Program The workshop was not limited to optical properties of narrow gap semiconductor structures Part III Sessions on for example the growth methods and characterization of III V II VI and IV VI materials discussed in Part II were an integral part of the workshop Considering the small masses of the carriers in narrow gap low dimensional structures LOS in Part I the enhanced band mixing and magnetic field effects are explored in the context of the envelope function approximation Optical nonlinearities and energy relaxation phenomena applied to the well known systems of HgCdTe and GaAs GaAlAs respectively are reviewed with comments on their extension to narrow gap LOS The relevance of optical observations in quantum transport studies is illustrated in Part IV A review of devices based on epitaxial narrow gap materials defines a frame of reference for future ones based on two dimensional narrow gap semiconductors in addition an analysis of the physics of quantum well lasers provides a guide to relevant parameters for narrow gap laser devices for the infrared Part V The roles and potentials of special techniques are explored in Part VI with emphasis on hydrostatic pressure techniques since this has a pronounced effect in small mass narrow gap non parabolic structures

Optoelectronics Sergei Pyshkin, John Ballato, 2013-01-16 Optoelectronics Advanced Materials and Devices is a second edition following the initial Optoelectronics Materials and Techniques book published in 2011 as part of the InTech collection of international works on optoelectronics Optoelectronics as the discipline devoted to the study and application of electronic devices that emit detect and otherwise control light has widely proliferated globally and enabled many of today's modern conveniences Because of this ubiquity new applications and novel optical phenomena continue to drive innovation Accordingly as with the first book of the collection this book covers recent achievements by specialists around the world The growing number of countries participating in this endeavor including now Brazil Canada China Egypt France Germany India Italy Japan Malaysia Mexico Moldova Morocco Netherlands Portugal Romania Saudi Arabia South Korea Taiwan Ukraine USA and Vietnam as well as joint participation of the US and Moldova scientists in edition of this book and writing one of its Chapters testify to the unifying effect of science An interested reader will find in the book the description of properties and applications employing organic and inorganic materials such as different polymers oxides and semiconductors as well as the methods of fabrication and analysis of operation and regions of application of modern optoelectronic devices

*Research in Progress* United States. Army Research Office, 1992 Vols for 1977 consist of two parts Chemistry biological sciences engineering sciences metallurgy and materials science issued in the spring and Physics electronics mathematics geosciences issued in the fall

Infrared and Terahertz Detectors, Third Edition Antoni Rogalski, 2019-01-10 This new edition of Infrared and Terahertz Detectors provides a comprehensive overview of infrared and terahertz detector technology from fundamental science to materials and fabrication techniques It contains a complete overhaul of the contents including several new chapters and a new section on terahertz detectors and systems It includes a new tutorial introduction to technical aspects that are fundamental for basic understanding The other dedicated

sections focus on thermal detectors photon detectors and focal plane arrays



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