

High Speed Heterostructure Devices

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SEMICONDUCTORS AND SEMIMETALS VOLUME 41

Treatise Editors: R.K. Williamson, Albert C. Beer, and Eicke R. Weber

High Speed Heterostructure Devices Vol 41

VM Jensen



High Speed Heterostructure Devices Vol 41:

High-Speed Heterostructure Devices Patrick Roblin, Hans Rohdin, 2002-03-07 Fuelled by rapid growth in communications technology silicon heterostructures and related high speed semiconductors are spearheading the drive toward smaller faster and lower power devices High Speed Heterostructure Devices is a textbook on modern high speed semiconductor devices intended for both graduate students and practising engineers This book is concerned with the underlying physics of heterostructures as well as some of the most recent techniques for modeling and simulating these devices Emphasis is placed on heterostructure devices of the immediate future such as the MODFET HBT and RTD The principles of operation of other devices such as the Bloch Oscillator RITD Gunn diode quantum cascade laser and SOI and LD MOSFETs are also introduced Initially developed for a graduate course taught at Ohio State University the book comes with a complete set of homework problems and a web link to MATLAB programs supporting the lecture material

High Speed Heterostructure Devices, 1994-07-06 Volume 41 includes an in depth review of the most important high speed switches made with heterojunction technology This volume is aimed at the graduate student or working researcher who needs a broad overview and an introduction to current literature The first complete review of InP based HFETs and complementary HFETs which promise very low power and high speed Offers a complete three chapter review of resonant tunneling Provides an emphasis on circuits as well as devices

Optical Fiber Telecommunications VIA Andreas Beling, Joe C. Campbell, 2013-05-03 This chapter reviews the significant advances in photodetectors that have occurred since Optical Fiber Telecommunications V The quests for higher speed p i n detectors and lower noise avalanche photodiodes APDs with high gain bandwidth product remain To a great extent high speed structures have coalesced to evanescently coupled waveguide devices bandwidths exceeding 140GHz have been reported A primary APD breakthrough has been the development of Ge on Si separate absorption and multiplication devices that achieve long wavelength response with the low noise behavior of Si For III V compound APDs ultra low noise has been achieved by strategic use of complex multilayer multiplication regions that provide more deterministic impact ionization However much of the excitement and innovation have focused on photodiodes that can be incorporated into InP based integrated circuits and photodetectors for Si photonics

Cumulative Subject and Author Index Including Tables of Contents, Volumes 1-50, 1998-09-15 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 publishing 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 indeed that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry

II-VI Semiconductor Blue/Green Light Emitters, 1997-03-13 This volume provides one of the first comprehensive reviews combining recent breakthroughs in blue green semiconductor lasers based on II VI materials and fundamentally important issues about the development and extension of these lasers to commercial applications These lasers are on the cutting edge of technology and could revolutionize areas such as optical information storage and color displays in the next few years An important focus of this book is on the recent laboratory development of an entirely new class of diode lasers based on a different family of semiconductor materials which emit at much shorter wavelengths in the green and blue portion of the spectrum These new and exciting developments in optoelectronics which are still undergoing laboratory testing have the potential of providing a major increase in storage capacity over current CD technology Besides applications in high density digital optical storage other possible applications for the compact blue green lasers will be in areas ranging from flat panel displays to multicolor printing to medical diagnostics Details practical issues of the growth of laser structures by molecular beam epitaxy by pioneers in the industry Explains how the barriers of doping and electrical contact were overcome by using wide bandgap II VI semiconductors Documents thirty years of research

Recent Trends in Thermoelectric Materials Research III Terry M. Tritt, 2001 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 Thermoelectric materials may be used for solid state refrigeration or power generation applications via the large Peltier effect in these materials To be an effective thermoelectric material a material must possess a large Seebeck coefficient a low resistivity and a low thermal conductivity Due to increased need for alternative energy sources providing environmentally friendly refrigeration and power generation thermoelectric materials research experienced a rebirth in the mid 1990 s Semiconductors and Semimetals Volume 71 Recent Trends in Thermoelectric Materials Research Part Three

provides an overview of much of this research in thermoelectric materials during the decade of the 1990 s New materials and new material concepts such as quantum well and superlattice structures gave hope to the possibilities that might be achieved An effort was made to focus on these new materials and not on materials such as BiTe alloys since such recent reviews are available Experts in the field who were active researchers during this period were the primary authors to this series of review articles This is the most complete collection of review articles that are primarily focussed on new materials and new concepts that is existence to date

Identification of Defects in Semiconductors ,1998-07-02 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 publishing 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 indeed that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry

Uncooled Infrared Imaging Arrays and Systems ,1997-11-24 This is the first book to describe an emerging but already growing technology of thermal imaging based on uncooled infrared imaging arrays and systems which are the most exciting new developments in infrared technology today This technology is of great importance to developers and users of thermal images for military and commercial applications The chapters prepared by world leaders in the technology describe not only the mainstream efforts but also exciting new approaches and fundamental limits applicable to all Unified approach to technology development based on fundamental limits Individual chapters written by world leaders in each technology Novel potential approaches allowing for the reduction of costs described in detail Descriptive and analytical Provides details of the mainstream approaches resistive bolometric pyroelectric field enhanced pyroelectric thermoelectric Provides insight into a unified approach to development of all types of thermal imaging arrays Features state of the art and selected new developments

Silicon Epitaxy ,2001-09-26 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

Nonlinear Optics in Semiconductors II ,1998-11-09 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 publishing 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 Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry

Gallium-Nitride (GaN) II ,1998-10-22 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 publishing 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 indeed that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry

Electroluminescence II ,1999-10-29 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

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principles underlying the various devices the technologies used for the realization of the different devices typical performance characteristics and limitations and development trends towards more advanced components are also illustrated Thus the scope of the book spans relevant principles state of the art implementations the status of current research and expected future components

Analysis and Simulation of Heterostructure Devices Vassil Palankovski, Rüdiger Quay, 2012-12-06 Communication and information systems are subject to rapid and highly sophisticated changes Currently semiconductor heterostructure devices such as Heterojunction Bipolar Transistors HBTs and High Electron Mobility Transistors HEMTs are among the fastest and most advanced high frequency devices They satisfy the requirements for low power consumption medium integration low cost in large quantities and high speed operation capabilities in circuits In the very high frequency range cut off frequencies up to 500 GHz 557 have been reported on the device level HEMTs and HBTs are very suitable for high efficiency power amplifiers at 900 MHz as well as for data rates higher than 100 Gbit/s for long range communication and thus cover a broad range of applications To cope with explosive development costs and the competition of today's semiconductor industry Technology Computer Aided Design TCAD methodologies are used extensively in development and production As of 2003 III V semiconductor HEMT and HBT micrometer and millimeter wave integrated circuits MICs and MMICs are available on six inch GaAs wafers SiGe HBT circuits as part of the CMOS technology on eight inch wafers are in volume production Simulation tools for technology devices and circuits reduce expensive technological efforts This book focuses on the application of simulation software to heterostructure devices with respect to industrial applications In particular a detailed discussion of physical modeling for a great variety of materials is presented

Molecular Beam Epitaxy John Wilfred Orton, Tom Foxon, 2015 The book is a history of Molecular Beam Epitaxy MBE as applied to the growth of semiconductor thin films note that it does not cover the subject of metal thin films It begins by examining the origins of MBE first of all looking at the nature of molecular beams and considering their application to fundamental physics to the development of nuclear magnetic resonance and to the invention of the microwave MASER It shows how molecular beams of silane SiH_4 were used to study the nucleation of silicon films on a silicon substrate and how such studies were extended to compound semiconductors such as GaAs From such surface studies in ultra high vacuum the technique developed into a method of growing high quality single crystal films of a wide range of semiconductors Comparing this with earlier evaporation methods of deposition and with other epitaxial deposition methods such as liquid phase and vapour phase epitaxy LPE and VPE The text describes the development of MBE machines from the early home made variety to that of commercial equipment and show how MBE was gradually refined to produce high quality films with atomic dimensions This was much aided by the use of various in situ surface analysis techniques such as reflection high energy electron diffraction RHEED and mass spectrometry a feature unique to MBE It looks at various modified versions of the basic MBE process then proceed to describe their application to the growth of so called low dimensional structures LDS based on

ultra thin heterostructure films with thickness of order a few molecular monolayers Further chapters cover the growth of a wide range of different compounds and describe their application to fundamental physics and to the fabrication of electronic and opto electronic devices The authors study the historical development of all these aspects and emphasise both the often unexpected manner of their discovery and development and the unique features which MBE brings to the growth of extremely complex structures with monolayer accuracy Silicon Heterostructure Devices John D. Cressler,2018-10-03 SiGe HBTs are the most mature of the Si heterostructure devices and not surprisingly the most completely researched and discussed in the technical literature However new effects and nuances of device operation are uncovered year after year as transistor scaling advances and application targets march steadily upward in frequency and sophistication Providing a comprehensive treatment of SiGe HBTs Silicon Heterostructure Devices covers an amazingly diverse set of topics ranging from basic transistor physics to noise radiation effects reliability and TCAD simulation Drawn from the comprehensive and well reviewed Silicon Heterostructure Handbook this text explores SiGe heterojunction bipolar transistors HBTs heterostructure FETs various other heterostructure devices as well as optoelectronic components The book provides an overview characteristics and derivative applications for each device covered It discusses device physics broadband noise performance limits reliability engineered substrates and self assembling nanostructures Coverage of optoelectronic devices includes Si SiGe LEDs near infrared detectors photonic transistors for integrated optoelectronics and quantum cascade emitters In addition to this substantial collection of material the book concludes with a look at the ultimate limits of SiGe HBTs scaling It contains easy to reference appendices on topics including the properties of silicon and germanium the generalized Moll Ross relations and the integral charge control model and sample SiGe HBT compact model parameters

Optical Fiber Telecommunications VA Ivan Kaminow,Tingye Li,Alan E. Willner,2010-07-28 Optical Fiber Telecommunications V A B is the fifth in a series that has chronicled the progress in the research and development of lightwave communications since the early 1970s Written by active authorities from academia and industry this edition not only brings a fresh look to many essential topics but also focuses on network management and services Using high bandwidth in a cost effective manner for the development of customer applications is a central theme This book is ideal for R D engineers and managers optical systems implementers university researchers and students network operators and the investment community Volume A is devoted to components and subsystems including semiconductor lasers modulators photodetectors integrated photonic circuits photonic crystals specialty fibers polarization mode dispersion electronic signal processing MEMS nonlinear optical signal processing and quantum information technologies Volume B is devoted to systems and networks including advanced modulation formats coherent systems time multiplexed systems performance monitoring reconfigurable add drop multiplexers Ethernet technologies broadband access and services metro networks long haul transmission optical switching microwave photonics computer interconnections and simulation tools Biographical Sketches

Ivan Kaminow retired from Bell Labs in 1996 after a 42 year career. He conducted seminal studies on electrooptic modulators and materials Raman scattering in ferroelectrics integrated optics semiconductor lasers DBR ridge waveguide InGaAsP and multi frequency birefringent optical fibers and WDM networks. Later he led research on WDM components EDFAs AWGs and fiber Fabry Perot Filters and on WDM local and wide area networks. He is a member of the National Academy of Engineering and a recipient of the IEEE OSA John Tyndall OSA Charles Townes and IEEE LEOS Quantum Electronics Awards. Since 2004 he has been Adjunct Professor of Electrical Engineering at the University of California Berkeley. Tingye Li retired from AT T in 1998 after a 41 year career at Bell Labs and AT T Labs. His seminal work on laser resonator modes is considered a classic. Since the late 1960s He and his groups have conducted pioneering studies on lightwave technologies and systems. He led the work on amplified WDM transmission systems and championed their deployment for upgrading network capacity. He is a member of the National Academy of Engineering and a foreign member of the Chinese Academy of Engineering. He is a recipient of the IEEE David Sarnoff Award IEEE OSA John Tyndall Award OSA Ives Medal Quinn Endowment AT T Science and Technology Medal and IEEE Photonics Award. Alan Willner has worked at AT T Bell Labs and Bellcore and he is Professor of Electrical Engineering at the University of Southern California. He received the NSF Presidential Faculty Fellows Award from the White House Packard Foundation Fellowship NSF National Young Investigator Award Fulbright Foundation Senior Scholar IEEE LEOS Distinguished Lecturer and USC University Wide Award for Excellence in Teaching. He is a Fellow of IEEE and OSA and he has been President of the IEEE LEOS Editor in Chief of the IEEE OSA J of Lightwave Technology Editor in Chief of Optics Letters Co Chair of the OSA Science Engineering Council and General Co Chair of the Conference on Lasers and Electro Optics. For nearly three decades the OFT series has served as the comprehensive primary resource covering progress in the science and technology of optical fiber telecom. It has been essential for the bookshelves of scientists and engineers active in the field. OFT V provides updates on considerable progress in established disciplines as well as introductions to new topics. OFT V generates a value that is even higher than that of the sum of its chapters.

Ultrafast

All-Optical Signal Processing Devices Dr. Hiroshi Ishikawa, 2008-09-15 Semiconductor based Ultra Fast All Optical Signal Processing Devices a key technology for the next generation of ultrahigh bandwidth optical communication systems. The introduction of ultra fast communication systems based on all optical signal processing is considered to be one of the most promising ways to handle the rapidly increasing global communication traffic. Such systems will enable real time super high definition moving pictures such as high reality TV conference remote diagnosis and surgery cinema entertainment and many other applications with small power consumption. The key issue to realize such systems is to develop ultra fast optical devices such as light sources all optical gates and wavelength converters. Ultra Fast All Optical Signal Processing Devices discusses the state of the art development of semiconductor based ultrafast all optical devices and their various signal processing applications for bit rates 100Gb/s to 1Tb/s. Ultra Fast All Optical Signal Processing Devices Provides a thorough and in depth

treatment of the most recent achievements in ultrafast all optical devices Discusses future networks with applications such as HD TV and super high definition moving screens as a motivating background for devices research Covers mode locked semiconductor lasers electro absorption modulator based 160Gb/s signal sources SOA based symmetric Mach Zehnder type all optical gates intersubband transition gate device and more Explains the technical issues behind turning the ultra fast optical devices into practical working tools Examples of above 160Gb/s transmission experiments Discusses future prospects of the ultra fast signal processing devices This invaluable reference will provide device researchers and engineers in industry researchers at universities including graduate students and post doctoral researchers and professors and research institutes with a thorough understanding of ultrahigh bandwidth optical communication systems Device and communication market watchers will also find this book useful

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