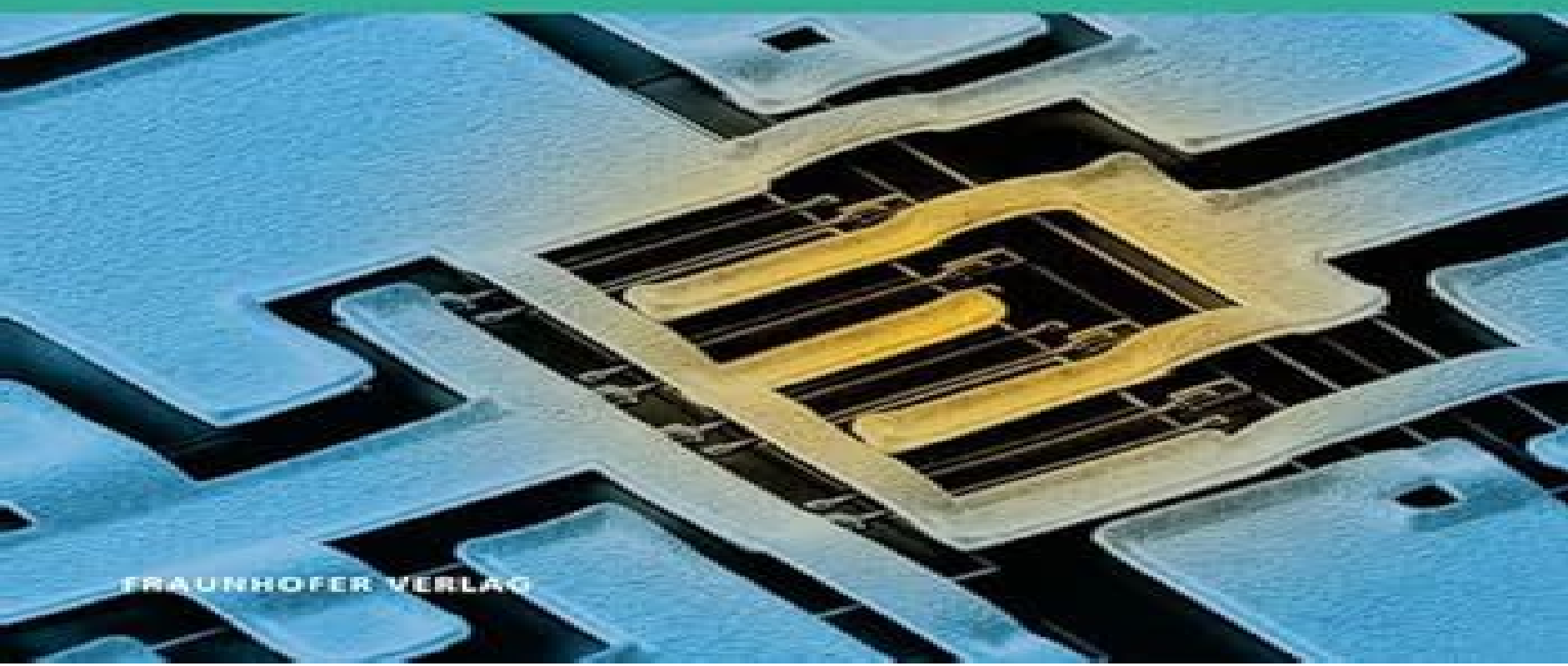


Christian Haupt

AlGaIn/GaN-BASED MILLIMETER-WAVE HIGH ELECTRON MOBILITY TRANSISTORS



Algangan Based Millimeter Wave High Electron Mobility Transistors Science For Systems

ML Morrison



AlGaN Based Millimeter Wave High Electron Mobility Transistors Science For Systems:

AlGa_N/Ga_N-Based Millimeter-Wave High Electron Mobility Transistors Christian Haupt, 2011 In this work a scaling approach is studied to develop a transistor technology which achieves a high gain as well as a high output power at W band frequencies and can be applied in the existing fabrication process for MMICs Following the theoretical scaling rules for field effect transistors lateral and vertical critical dimensions of 100 nm and 10 nm must be achieved respectively Therefore various new fabrication processes were developed to enable the new critical dimensions with a sufficient production yield for MMIC fabrication Transistors fabricated with these methods were evaluated regarding the influence of the scaled geometries on the device characteristics using S parameter as well as DC measurements As a result a transistor technology could be established with a transconductance above 600 mS/mm which is one of the highest reported values for GaN based HEMTs so far Furthermore these transistors feature a very low parasitic capacitance of 0.3 pF/mm and can as a consequence achieve a current gain cut off frequency of more than 110 GHz Besides the high frequency characteristics short channel effects and their influence on the device characteristics were also evaluated The scaled transistors are dominated by a drain induced barrier lowering DIBL and a critical aspect ratio of approximately 14 is necessary to suppress the DIBL effect in GaN HEMTs

Comprehensive Semiconductor Science and Technology, 2024-11-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology *Comprehensive Semiconductor Science and Technology Second Edition Three Volume Set* captures the breadth of this important field and presents it in a single source to the large audience who study make and use semiconductor devices Written and edited by a truly international team of experts and newly updated to capture key advancements in the field this work delivers an objective yet cohesive review of the semiconductor world The work is divided into three sections fully updated and expanded from the first edition The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics especially quantum phenomena The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of high purity or doped bulk and epitaxial materials with low defect density and well controlled electrical and optical properties The third section is devoted to design fabrication and assessment of discrete and integrated semiconductor devices It will cover the entire spectrum of devices we see all around us for telecommunications computing automation displays illumination and consumer electronics Provides a comprehensive global picture of the semiconductor world Written and Edited by an international team of experts Compiles the most important semiconductor knowledge into one comprehensive resource Moves from fundamentals and theory to more advanced knowledge such as applications allowing readers to gain a deeper

understanding of the field Compound Semiconductor Integrated Circuits Tho T. Vu, 2003-01-01 This is the book version of a special issue of the International Journal of High Speed Electronics and Systems reviewing recent work in the field of compound semiconductor integrated circuits There are fourteen invited papers covering a wide range of applications frequencies and materials These papers deal with digital analog microwave and millimeter wave technologies devices and integrated circuits for wireline fiber optic lightwave transmissions and wireless radio frequency microwave and millimeter wave communications In each case the market is young and experiencing rapid growth for both commercial and military applications Many new semiconductor technologies compete for these new markets leading to an alphabet soup of semiconductor materials described in these papers The book also includes three papers focused on radiation effects and reliability in III V semiconductor electronics which are useful for reference and future directions Moreover reliability is covered in several papers separately for certain process technologies Contents Present and Future of High Speed Compound Semiconductor IC s T Otsuji The Transforming MMIC E J Martinez Distributed Amplifier for Fiber Optic Communication Systems H Shigematsu et al Microwave GaN Based Power Transistors on Large Scale Silicon Wafers S Manohar et al Radiation Effects in High Speed III V Integrated Circuits T R Weatherford Radiation Effects in III V Semiconductor Electronics B D Weaver et al Reliability and Radiation Hardness of Compound Semiconductors S A Kayali and other papers Readership Engineers scientists and graduate students working on high speed electronics and systems and in the area of compound semiconductor integrated circuits **Proceedings of the National Seminar on Applied Systems**

Engineering and Soft Computing ,2000 *Wide Bandgap Based Devices* Farid Medjdoub, 2021-05-26 Emerging wide bandgap WBG semiconductors hold the potential to advance the global industry in the same way that more than 50 years ago the invention of the silicon Si chip enabled the modern computer era SiC and GaN based devices are starting to become more commercially available Smaller faster and more efficient than their counterpart Si based components these WBG devices also offer greater expected reliability in tougher operating conditions Furthermore in this frame a new class of microelectronic grade semiconducting materials that have an even larger bandgap than the previously established wide bandgap semiconductors such as GaN and SiC have been created and are thus referred to as ultra wide bandgap materials These materials which include AlGaIn AlN diamond Ga₂O₃ and BN offer theoretically superior properties including a higher critical breakdown field higher temperature operation and potentially higher radiation tolerance These attributes in turn make it possible to use revolutionary new devices for extreme environments such as high efficiency power transistors because of the improved Baliga figure of merit ultra high voltage pulsed power switches high efficiency UV LEDs and electronics This Special Issue aims to collect high quality research papers short communications and review articles that focus on wide bandgap device design fabrication and advanced characterization The Special Issue will also publish selected papers from the 43rd Workshop on Compound Semiconductor Devices and Integrated Circuits held in France WOCSDICE 2019 which

brings together scientists and engineers working in the area of III V and other compound semiconductor devices and integrated circuits In particular the following topics are addressed GaN and SiC based devices for power and optoelectronic applications Ga₂O₃ substrate development and Ga₂O₃ thin film growth doping and devices AlN based emerging material and devices BN epitaxial growth characterization and devices

Field Effect Transistors P. Suveetha Dhanaselvam,K. Srinivasa Rao,Shiromani Balmukund Rahi,Dharmendra Singh Yadav,2025-04-15 Field Effect Transistors is an essential read for anyone interested in the future of electronics as it provides a comprehensive yet accessible exploration of innovative semiconductor devices and their applications making it a perfect resource for both beginners and seasoned professionals in the field Miniaturization has become the slogan of the electronics industry Field Effect Transistors serves as a short encyclopedia for young minds looking for solutions in the miniaturization of semiconductor devices It explores the characteristics novel materials used modifications in device structure and advancements in model FET devices Though many devices following Moore s Law have been proposed and designed a complete history of the existing and proposed semiconductor devices is not available This book focuses on developments and research in emerging semiconductor FET devices and their applications providing unique coverage of topics covering recent advancements and novel concepts in the field of miniaturized semiconductor devices Field Effect Transistors is an easy to understand guide making it excellent for those who are new to the subject giving insight and analysis of recent developments and developed semiconductor device structures along with their applications

Proceedings of the Scientific-Practical Conference "Research and Development - 2016" K. V. Anisimov,A. V. Dub,S. K. Kolpakov,A. V. Lisitsa,A. N. Petrov,V. P. Polukarov,O. S. Popel,V. A. Vinokurov,2017-12-04 This open access book relates to the III Annual Conference hosted by The Ministry of Education and Science of the Russian Federation in December 2016 This event has summarized analyzed and discussed the interim results academic outputs and scientific achievements of the Russian Federal Targeted Programme Research and Development in Priority Areas of Development of the Russian Scientific and Technological Complex for 2014 2020 It contains 75 selected papers from 6 areas considered priority by the Federal Targeted Programme computer science ecology energy and energy efficiency lifesciences nanoscience nanotechnology and transport communications The chapters report the results of the 3 years research projects supported by the Programme and finalized in 2016

Physics of Semiconductor Devices Vikram Kumar,Prasanta Kumar Basu,2002

Communication and Intelligent Systems Harish Sharma,Mukesh Kumar Gupta,G. S. Tomar,Wang Lipo,2021-06-28 This book gathers selected research papers presented at the International Conference on Communication and Intelligent Systems ICCIS 2020 organized jointly by Birla Institute of Applied Sciences Uttarakhand and Soft Computing Research Society during 26 27 December 2020 This book presents a collection of state of the art research work involving cutting edge technologies for communication and intelligent systems Over the past few years advances in artificial intelligence and machine learning have sparked new research efforts around the globe which explore novel ways of developing intelligent

systems and smart communication technologies The book presents single and multi disciplinary research on these themes in order to make the latest results available in a single readily accessible source **Polarization Effects in Semiconductors** Debdeep Jena,2008 Polarization Effects in Semiconductors From Ab Initio Theory to Device Applications presents the latest understanding of the solid state physics electronic implications and practical applications of the unique spontaneous or pyro electric polarization charge of wurtzite compound semiconductors and associated piezo electric effects in strained thin film heterostructures These heterostructures are used in wide band gap semiconductor based sensors in addition to various electronic and opto electronic semiconductor devices The book covers the ab initio theory of polarization in cubic and hexagonal semiconductors growth of thin film GaN GaN AlGa_N GaAlN AlGaInN and other nitrides and SiC heterostructures It discusses the effects of spontaneous and piezoelectric polarization on band diagrams and electronic properties of abrupt and compositionally graded heterostructures electronic characterization of polarization induced charge distributions by scanning probe spectroscopies and gauge factors and strain effects In addition polarization in extended defects piezo electric strain charge engineering and application to device design and processing are covered The effects of polarization on the fundamental electron transport properties and on the basic optical transitions are described The crucial role of polarization in devices such as high electron mobility transistors HEMTs and light emitting diodes LEDs is covered The chapters are authored by professors and researchers in the fields of physics applied physics and electrical engineering who worked for 5 years under the Polarization Effects in Semiconductors DOD funded Multi Disciplinary University Research Initiative This book will be of interest to graduate students and researchers working in the field of wide bandgap semiconductor physics and their device applications It will also be useful for practicing engineers in the field of wide bandgap semiconductor device research and development *Hybrid and Advanced Technologies* S. Prasad Jones Christydass,Nurhayati Nurhayati,S. Kannadhasan,2025-03-21 The proceedings of the International Conference on Hybrid and Advanced Technologies ICHAT 2024 present a rich repository of cutting edge research on the various applications of machine learning deep learning and AI in cybersecurity healthcare agriculture and communication systems It highlights the revolutionary potential of data science in transforming traditional practices improving efficiency and accuracy across diverse domains and addressing complex real world challenges These proceedings contain innovative neural network models for agriculture that can predict tractor fuel consumption and optimize smart irrigation besides suggesting greenhouse automation for enhanced agricultural productivity It also provides a roadmap for IoT based monitoring systems for asthma patients and machine learning approaches for early detection of diabetes cancer and aquatic plant ailments Through an array of practical examples and comparative studies the book further highlights advancements in machine learning for enhancing palm vein authentication combating fake news keeping data safe and improving customer segmentation in e commerce The findings would be instrumental in combating critical global issues and foster a deeper understanding of the role of AI in image processing cybersecurity medical

diagnostics and intelligent systems in the future This will be a highly interesting guide to researchers data scientists and practicing professionals in the fields of artificial intelligence machine learning and cybersecurity It will also be of interest to healthcare professionals agricultural scientists and technology enthusiasts in fostering global collaborations exploring future challenges and opportunities and introducing state of the art technologies to streamline processes

Fundamentals of Terahertz Devices and Applications Dimitris Pavlidis, 2021-08-02 An authoritative and comprehensive guide to the devices and applications of Terahertz technology Terahertz THz technology relates to applications that span in frequency from a few hundred GHz to more than 1000 GHz Fundamentals of Terahertz Devices and Applications offers a comprehensive review of the devices and applications of Terahertz technology With contributions from a range of experts on the topic this book contains in a single volume an inclusive review of THz devices for signal generation detection and treatment Fundamentals of Terahertz Devices and Applications offers an exploration and addresses key categories and aspects of Terahertz Technology such as sources detectors transmission electronic considerations and applications optical photonic considerations and applications Worked examples based on the contributors extensive experience highlight the chapter material presented The text is designed for use by novices and professionals who want a better understanding of device operation and use and is suitable for instructional purposes This important book Offers the most relevant up to date research information and insight into the future developments in the technology Addresses a wide range of categories and aspects of Terahertz technology Includes material to support courses on Terahertz Technology and more Contains illustrative worked examples Written for researchers students and professional engineers Fundamentals of Terahertz Devices and Applications offers an in depth exploration of the topic that is designed for both novices and professionals and can be adopted for instructional purposes

Polarization Effects in Semiconductors Colin Wood, Debdeep Jena, 2007-10-16 Polarization Effects in Semiconductors From Ab Initio Theory to Device Applications presents the latest understanding of the solid state physics electronic implications and practical applications of the unique spontaneous or pyro electric polarization charge of wurtzite compound semiconductors and associated piezo electric effects in strained thin film heterostructures These heterostructures are used in wide band gap semiconductor based sensors in addition to various electronic and opto electronic semiconductor devices The book covers the ab initio theory of polarization in cubic and hexagonal semiconductors growth of thin film GaN GaN AlGaIn GaAlN AlGaInN and other nitrides and SiC heterostructures It discusses the effects of spontaneous and piezoelectric polarization on band diagrams and electronic properties of abrupt and compositionally graded heterostructures electronic characterization of polarization induced charge distributions by scanning probe spectroscopies and gauge factors and strain effects In addition polarization in extended defects piezo electric strain charge engineering and application to device design and processing are covered The effects of polarization on the fundamental electron transport properties and on the basic optical transitions are described The crucial role of polarization in devices such as high electron mobility transistors HEMTs

and light emitting diodes LEDs is covered The chapters are authored by professors and researchers in the fields of physics applied physics and electrical engineering who worked for 5 years under the Polarization Effects in Semiconductors DOD funded Multi Disciplinary University Research Initiative This book will be of interest to graduate students and researchers working in the field of wide bandgap semiconductor physics and their device applications It will also be useful for practicing engineers in the field of wide bandgap semiconductor device research and development **RFIC and MMIC Design and Technology** I.D. Robertson, S. Lucyszyn, Institution of Electrical Engineers, 2001-11-30 This book gives an in depth account of GaAs InP and SiGe technologies and describes all the key techniques for the design of amplifiers ranging from filters and data converters to image oscillators mixers switches variable attenuators phase shifters integrated antennas and complete monolithic transceivers **High-Speed Digital System Design** Anatoly Belous, Vitali Saladukha, 2019-11-13 This book describes for readers the entire interconnected complex of theoretical and practical aspects of designing and organizing the production of various electronic devices the general and main distinguishing feature of which is the high speed of processing and transmitting of digital signals The authors discuss all the main stages of design from the upper system level of the hierarchy telecommunications system 5G mobile communications to the lower level of basic semiconductor elements printed circuit boards Since the developers of these devices in practice deal with distorted digital signals that are transmitted against a background of interference the authors not only explain the physical nature of such effects but also offer specific solutions as to how to avoid such parasitic effects even at the design stage of high speed devices Indian Science Abstracts ,2002-11

NRL Review ,2003 **Semiconductor Physical Electronics** Sheng S. Li, 2007-01-16 Semiconductor Physical Electronics Second Edition provides comprehensive coverage of fundamental semiconductor physics that is essential to an understanding of the physical and operational principles of a wide variety of semiconductor electronic and optoelectronic devices This text presents a unified and balanced treatment of the physics characterization and applications of semiconductor materials and devices for physicists and material scientists who need further exposure to semiconductor and photonic devices and for device engineers who need additional background on the underlying physical principles This updated and revised second edition reflects advances in semiconductor technologies over the past decade including many new semiconductor devices that have emerged and entered into the marketplace It is suitable for graduate students in electrical engineering materials science physics and chemical engineering and as a general reference for processing and device engineers working in the semiconductor industry **Integrated Electronics on Aluminum Nitride** Reet Chaudhuri, 2022-12-06 This thesis outlines the principles device physics and technological applications of electronics based on the ultra wide bandgap semiconductor aluminum nitride It discusses the basic principles of electrostatics and transport properties of polarization induced two dimensional electron and hole channels in semiconductor heterostructures based on aluminum nitride It explains the discovery of high density two dimensional hole gases in undoped heterojunctions and shows

how these high conductivity n and p type channels are used for high performance nFETs and pFETs along with wide bandgap RF mm wave and CMOS applications The thesis goes on to discuss how the several material advantages of aluminum nitride such as its high thermal conductivity and piezoelectric coefficient enable not just high performance of transistors but also monolithic integration of passive elements such as high frequency filters enabling a new form factor for integrated RF electronics

III-Nitride Electronic Devices, 2019-10-18 III Nitride Electronic Devices Volume 102 emphasizes two major technical areas advanced by this technology radio frequency RF and power electronics applications The range of topics covered by this book provides a basic understanding of materials devices circuits and applications while showing the future directions of this technology Specific chapters cover Electronic properties of III nitride materials and basics of III nitride HEMT Epitaxial growth of III nitride electronic devices III nitride microwave power transistors III nitride millimeter wave transistors III nitride lateral transistor power switch III nitride vertical devices Physics Based Modeling Thermal management in III nitride HEMT RF Microwave applications of III nitride transistor wireless power transfer and more

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