

FRONTIERS IN ELECTRONICS

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Frontiers In Electronics Selected Topics In Electronics And Systems

**Faquir C Jain,C Broadbridge,M
Gherasimova,Hong Tang**



Frontiers In Electronics Selected Topics In Electronics And Systems:

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Sorin Cristoloveanu, Michael S Shur, 2017-01-13 Rapid pace of electronic technology evolution and current economic climate compel a merger of such technical areas as low power digital electronics microwave power circuits optoelectronics etc which collectively have become the foundation of today's electronic technology This Workshop aims at encouraging active cross fertilization of the different species in this electronic planet The WOFE2015 had gather experts from academia industry and government agencies to review the recent exciting breakthroughs and their underlying physical mechanisms This Monographs includes ten invited articles cover topics ranging from Ultra thin silicon nanowire solar cells to hydrogen generation under illumination of GaN based structures and from ultrafast response of nanoscale device structures to Power device optimization *Frontiers In Electronics: Selected Papers From The Workshop On Frontiers In Electronics 2011*

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Electronics Sorin Cristoloveanu, Michael S Shur, 2009-08-06 Frontiers in Electronics contains the selected best papers presented at the Workshop on Frontiers in Electronics WOFE 07 This meeting was the fifth in the series of WOFE workshops and strongly reinforced the tradition of scientific quality and visionary research The issues addressed ranged from THz and infrared electronics to nanoelectronics and photonics The papers focused on the fabrication characterization and applications of nanodevices wide band gap structures and state of the art FETs The participants also discussed the device physics and processing issues including aspects related to SOI and germanium on insulator technologies TFTs and advanced CMOS and

MOSFETs It is this cross pollination between different but related fields that made this conference very special This book which goes beyond the publication of the WOFE Proceedings includes full length invited papers selected at the conference and reviewed by international leaders The book is divided into four distinct sections with the common denominator throughout being the nano device present under various metamorphoses in the wide CMOS and optoelectronics arena a

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Cristoloveanu, Michael S Shur, 2013-05-21 Frontiers in Electronics is divided into four sections advanced terahertz and photonics devices silicon and germanium on insulator and advanced CMOS and MOSFETs nanomaterials and nanodevices and wide band gap technology for high power and UV photonics This book will be useful for nano microelectronics scientists engineers and visionary research leaders It is also recommended to graduate students working at the frontiers of the nanoelectronics and microscience

Frontiers In Electronics: Advanced Modeling Of Nanoscale Electron Devices

Benjamin Iniguez, Tor A Fjeldly, 2014-01-10 This book consists of four chapters to address at different modeling levels for different nanoscale MOS structures Single and Multi Gate MOSFETs The collection of these chapters in the book are attempted to provide a comprehensive coverage on the different levels of electrostatics and transport modeling for these devices and relationships between them In particular the issue of quantum transport approaches analytical predictive 2D 3D modeling and design oriented compact modeling It should be of interests to researchers working on modeling at any level to provide them with a clear explanation of the approaches used and the links with modeling techniques for either higher or lower levels

Scaling And Integration Of High-speed Electronics And Optomechanical Systems Magnus Willander, Hakan Pettersson, 2017-04-17 Coined as the third revolution in electronics is under way Manufacturing is going digital driven by computing revolution powered by MOS technology in particular by the CMOS technology and its development In this book the scaling challenges for CMOS SiGe BiCMOS THz and niche technology are covered the first article looks at scaling challenges for CMOS from an industrial point of view review of the latest innovations the second article focuses on SiGe BiCMOS technologies deals with high speed up to the THz region and the third article reports on circuits associated with source drain integration in 14 nm and beyond FinFET technology nodes Followed by the last two articles on niche applications for emerging technologies one deals with carbon nanotube network and plasmonics for the THz region carbon while the other reviews the recent developments in integrated on chip nano optomechanical systems

Nanotechnology For Electronics, Biosensors, Additive Manufacturing And Emerging Systems Applications Faquir C Jain, C Broadbridge, M Gherasimova, Hong Tang, 2021-06-22 Published as part of the well established book series Selected Topics in Electronics and Systems this compendium features 18 peer reviewed articles focusing on high performance materials and emerging devices for implementation in high speed electronic systems Wide ranging topics span from novel materials and devices biosensors and bio nano systems artificial intelligence robotics and emerging technologies to applications in each of these fields Systems

for implementing data with security tokens single chemical sensor for multi analyte mixture detection RF energy harvesters additively manufactured RF devices for 5G IoT RFID and smart city applications are also prominently included Written by eminent researchers recent developments also highlight equivalent circuits models at room temperature and 4.2 K quantum dot nonvolatile memories 3D confined quantum dot channel QDC and spatial wavefunction switched SWS FETs for high speed multi bit logic and novel system applications

High Performance Materials And Devices For High-speed Electronic Systems Faquir C Jain, C Broadbridge, Hong Tang, M Gherasimova, 2018-08-07 In this review volume the editors have included the state of the art research and development in nano composites and optical electronics written by experts in the field In addition it also covers applications for emerging technologies in High Speed Electronics In summary topics covered in this volume includes various aspects of high performance materials and devices for implementing High Speed Electronic systems

High Performance Logic And Circuits For High-speed Electronic Systems Faquir C Jain, C Broadbridge, M Gherasimova, Hong Tang, 2019-06-27 In this volume we have put together papers spanning a broad range from the area of modeling of strain and misfit dislocation densities microwave absorption characteristics of nanocomposites to X ray diffraction studies Specific topics in this volume include In summary papers selected in this volume cover various aspects of high performance logic and circuits for high speed electronic systems

Nanotechnology For Electronics, Photonics, Biosensors, And Emerging Technologies Faquir C Jain, C Broadbridge, M Gherasimova, Hong Tang, 2020-08-04 This volume on Nanotechnology in Electronics Photonics Biosensors and Emerging Technologies comprises research papers spanning from novel materials and devices biosensors and bio nano systems artificial intelligence robotics and emerging technologies to applications in each of these fields These include blockchain improving security ultra sensitive Point of Care biosensor for detecting pathogeneses and detection of RNA Virus infections and advanced materials and devices such as ROM for anti reverse engineering FPGA bit stream encryption switching transients in memristors and high speed multi bit logic and memories Applications such as 3D 4D inkjet printed wireless ultra broadband modules for IOT smarttag and smart city applications are also included In the area of material synthesis carbon nanotube synthesis III nitride film growth via plasma enhanced atomic layer deposition are noted Threading dislocation behavior in InGaAs GaAs 001 superlattice buffer layers brings a novel approach Papers presented in this volume cover various aspects of high performance materials and devices for implementing high speed electronic systems This volume will serve as a useful reference for recent developments in nanotechnology

Microelectronics And Optoelectronics: The 25th Annual Symposium Of Connecticut Microelectronics And Optoelectronics Consortium (Cmoc 2016) Faquir C Jain, C Broadbridge, Hong Tang, 2017-08-30 This book features the selected articles from the 25th annual symposiums Connecticut Microelectronics and Optoelectronics Consortium CMOC that focus on micro nano electronics and optoelectronics Nano photonics to cover not only the technologies but also the applications ranging from biosensors nano biosystems to cyber security Enabling materials

research involving growth and characterization of novel devices such as multi bit nonvolatile random access memory with fast erase high performance circuits and their potential applications in developing new high speed systems Other articles focus on emerging nanoelectronic devices including topological insulators spatial wavefunction switching SWS FETs as compact high speed 2 bit SRAM circuits quantum dot channel QDC FETs Fundamental work on critical layer thickness in ZnSe GaAs and other material systems impacts electronic and photonic device integrating mismatched layers are also reported While another article investigates linearly graded GaAsP GaAs system with emphasis on strain relaxation Based on these technologies area of analyzes multiple junction solar cells using semiconductors with different energy gaps as a possible application were also featured Pixel characterization of protein based retinal implant as well as a low power and low data rate 100 kbps fully integrated CMOS impulse radio ultra wideband IR UWB transmitter were investigated as a potential candidate for biomedical application While other articles looked at carbon nanofibers nanotubes for electrochemical sensing In the area of cyber security two articles present encrypted electron beam lithography fabricated nanostructures for authentication and nano signatures for the identification of authentic electronic components In summary papers presented in this volume involve various aspects of high performance materials and devices for implementing high speed electronic systems

Wide Bandgap Semiconductor Electronics And Devices Uttam Singiseti,Towhidur Razzak,Yuewei Zhang,2019-12-10 This book is more suited for researchers already familiar with WBS who are interested in developing new WBG materials and devices since it provides the latest developments in new materials and processes and trends for WBS and UWBS technology IEEE Electrical Insulation Magazine With the dawn of Gallium Oxide Ga₂O and Aluminum Gallium Nitride AlGa_N electronics and the commercialization of Gallium Nitride Ga_N and Silicon Carbide SiC based devices the field of wide bandgap materials and electronics has never been more vibrant and exciting than it is now Wide bandgap semiconductors have had a strong presence in the research and development arena for many years Recently the increasing demand for high efficiency power electronics and high speed communication electronics together with the maturity of the synthesis and fabrication of wide bandgap semiconductors has catapulted wide bandgap electronics and optoelectronics into the mainstream Wide bandgap semiconductors exhibit excellent material properties which can potentially enable power device operation at higher efficiency higher temperatures voltages and higher switching speeds than current Si technology This edited volume will serve as a useful reference for researchers in this field newcomers and experienced alike This book discusses a broad range of topics including fundamental transport studies growth of high quality films advanced materials characterization device modeling high frequency high voltage electronic devices and optical devices written by the experts in their respective fields They also span the whole spectrum of wide bandgap materials including AlGa_N Ga₂O and diamond

Nanostructures For Electronics, Photonics, Biosensors, And Emerging Systems Applications Faquir C Jain,C Broadbridge,M Gherasimova,Hong Tang,2022-11-22 This unique edited compendium consists of peer reviewed articles

focusing on 2D materials based nanoelectronics to nanophotonic devices for biosensors and bio nano systems Wide ranging topics span from novel systems for implementing data with security tokens single chemical sensor for multi analyte mixture detection additively manufactured RF devices for communication packaging remote sensing to energy harvesting applications Quantum dot based devices featuring optical modulators and mid infrared photodetectors in the form of Ferroelectric and quantum dot non volatile memories 3D confined quantum dot channel QDC and spatial wavefunction switched SWS FETs for high speed multi bit logic and novel system applications are also included Contributed by eminent researchers recent coverage of materials science for high speed electronics nanoelectronics based on ferroelectric and van der Waals materials material synthesis modeling of dislocations behavior in various heterostructures Ultrahigh Q on chip SiGe microresonators for quantum transduction in new trend in computing are also prominently discussed

Fundamental And Applied Problems Of Terahertz Devices And Technologies: Selected Papers From The Russia-japan-usa-europe Symposium (Rjuse Teratech-2016) Maxim V Ryzhii,Akira Satou,Taiichi Otsuji,2017-03-03 Terahertz THz electromagnetic waves phenomena in the THz range and related technological issues have been explosively investigated during the recent two decades However its potential as a disruptive technology to commercial applications has yet to make any impression The Russia Japan USA Europe Symposium on Fundamental and Applied Problems of Terahertz Devices and Technologies RJUSE TeraTech 2016 held at Katahira Campus of Tohoku University Sendai Japan on October 31 November 4 2016 aims to bring together researchers from Russia Japan USA and Europe who are working on the broad range of related problems in the terahertz devices technologies and applications to discuss on state of the art results and future directions and collaborations in the development of THz This is the fifth in the series of preceding successful symposiums in Terahertz Devices and Technologies It contains 14 selected extended papers presented at the RJUSE TeraTech 2016 symposium addressing the variety of topics in particular THz detectors based on double heterojunction bipolar transistors DHBT and field effect transistors FET utilizing resonant plasma effects quantum cascade QCL and HgCdTe quantum well heterostructures and graphene based THz devices

[Nanotechnology In Electronics, Photonics, Biosensors And Energy Systems](#) Faquir C Jain,C Broadbridge,M Gherasimova,Hong Tang,2023-08-15 This unique compendium consists of peer reviewed articles spanning from novel growth of materials for nanoelectronic and nanophotonic devices electronic nose sensor array bio nano systems artificial intelligence machine learning and emerging technologies to applications in each of these fields Systems implementing additively manufactured RF devices for communication packaging remote sensing compact multi bit FETs and memories are also included Plasmonic nanostructures with electrical connections have potential applications as new electro optic devices Quantum dot based devices are discussed with regard to optical logic gates mid infrared photodetectors gain and index tailored external cavity high power lasers Contributed by eminent researchers this useful reference text broadly illustrates relevant aspects of high performance materials and emerging nanodevices for implementing high speed electronic

systems **High Speed Integrated Circuit Technology - Towards 100 Ghz Logic** Mark Rodwell, 2001-04-24 This book reviews the state of the art of very high speed digital integrated circuits Commercial applications are in fiber optic transmission systems operating at 10 40 and 100 Gb s while the military application is ADCs and DACs for microwave radar The book contains detailed descriptions of the design fabrication and performance of wideband Si SiGe GaAs and InP based bipolar transistors The analysis design and performance of high speed CMOS silicon bipolar and III V digital ICs are presented in detail with emphasis on application in optical fiber transmission and mixed signal ICs The underlying physics and circuit design of rapid single flux quantum RSFQ superconducting logic circuits are reviewed and there is extensive coverage of recent integrated circuit results in this technology **Advances in Surface Acoustic Wave Technology, Systems and Applications** Clemens C. W. Ruppel, 2000 Surface acoustic wave SAW devices are recognized for their versatility and efficiency in controlling and processing electrical signals This has resulted in a multitude of device concepts for a wide range of signal processing functions such as delay lines filters resonators pulse compressors convolvers and many more As SAW technology has found its way into mass market products such as TV receivers pagers keyless entry systems and cellular phones the production volume has risen to millions of devices produced every day At the other end of the scale there are specialized high performance signal processing SAW devices for satellite communication and military applications such as radar and electronic warfare This volume together with Volume 2 presents an overview of recent advances in SAW technology systems and applications by some of the foremost researchers in this exciting field **Nanoelectronics, Nanophotonics, Quantum And Emerging Technologies** Faquir C Jain, C Broadbridge, M Gherasimova, Hong Tang, 2024-11-25 This timely compendium provides state of the art articles covering research areas in Nanoelectronics Nanophotonics Quantum and Emerging Technologies Contributed by eminent researchers from both the academia and industry this useful reference text details research outputs and findings in Microelectronics and Optoelectronics for High Speed Electronics CMOS RF Modeling, Characterization and Applications M. Jamal Deen, Tor A. Fjeldly, 2002 CMOS technology has now reached a state of evolution in terms of both frequency and noise where it is becoming a serious contender for radio frequency RF applications in the GHz range Cutoff frequencies of about 50 GHz have been reported for 0.18 μ m CMOS technology and are expected to reach about 100 GHz when the feature size shrinks to 100 nm within a few years This translates into CMOS circuit operating frequencies well into the GHz range which covers the frequency range of many of today's popular wireless products such as cell phones GPS Global Positioning System and Bluetooth Of course the great interest in RF CMOS comes from the obvious advantages of CMOS technology in terms of production cost high level integration and the ability to combine digital analog and RF circuits on the same chip This book discusses many of the challenges facing the CMOS RF circuit designer in terms of device modeling and characterization which are crucial issues in circuit simulation and design

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