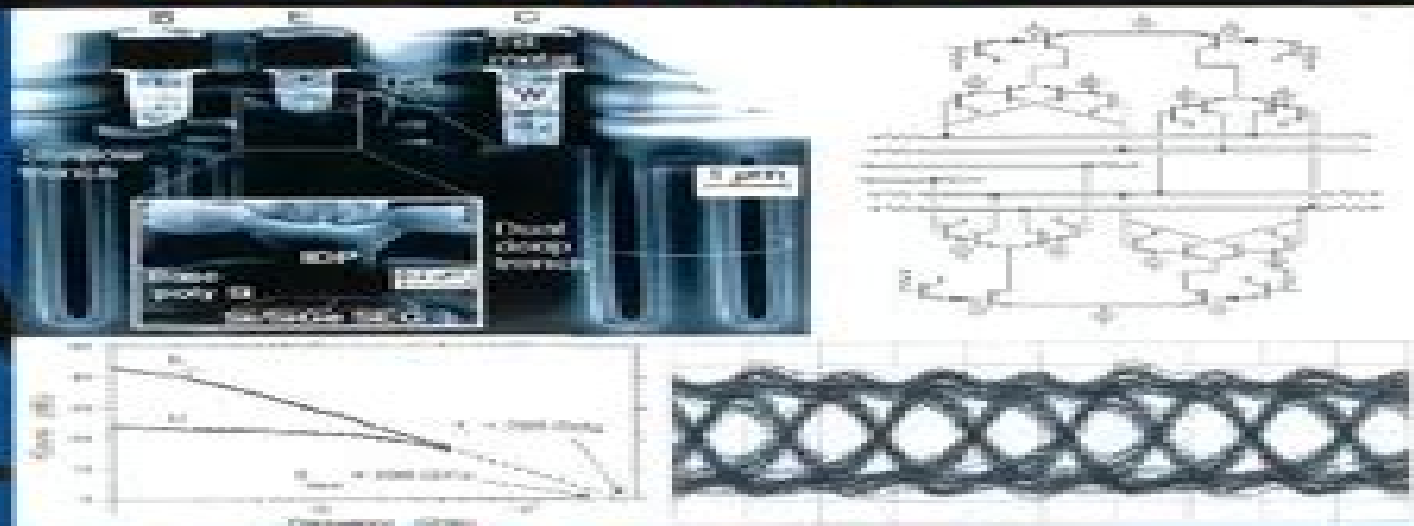


HIGH SPEED INTEGRATED CIRCUIT TECHNOLOGY, TOWARDS 100 GHz LOGIC

Editor

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World Scientific

Highspeed Integrated Circuit Technology Towards 100 Ghz Logic

Yoon Soo Park, Michael S Shur, William Tang



Highspeed Integrated Circuit Technology Towards 100 Ghz Logic:

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

High speed integrated circuit technology, towards 100 GHz logic Mark Rodwell, 2001

Software Defined Radio Walter H.W. Tuttlebee, 2003-04-11 Software defined radio SDR is one of the most important topics of research and indeed development in the area of mobile and personal communications SDR is viewed as an enabler of global roaming and as a unique platform for the rapid introduction of new services into existing live networks It therefore promises mobile communication networks a major increase in flexibility and capability SDR brings together two key technologies of the last decade digital radio and downloadable software It encompasses not only reconfiguration of the air interface parameters of handset and basestation products but also the whole mobile network to facilitate the dynamic introduction of new functionality and mass customised applications to the user's terminal post purchase This edited book contributed by internationally respected researchers and industry practitioners describes the current technological status of radio frequency design data conversion reconfigurable signal processing hardware and software issues at all levels of the protocol stack and network The book provides a holistic treatment of SDR addressing the full breadth of relevant technologies radio frequency design signal processing and software at all levels As such it provides a solid grounding for a new generation of wireless engineers for whom radio design in future will assume dynamic flexibility as a given In particular it explores The unique demands of SDR upon the RF subsystem and their implications for front end design methodologies The recent concepts of the digital front end and parametrization The role and key influence of data conversion technologies and devices within software radio essential to robust product design The evolution of signal processing technologies describing new architectural approaches Requirements and options for software download Advances in soft protocols and on the fly software reconfiguration Management of terminal reconfiguration and its network implications The concepts of the waveform description language The book also includes coverage of Potential breakthrough technologies such as superconducting RSFQ technology and the possible future role of MEMS in RF circuitry Competing approaches eg all software radios implemented on commodity computing vs advanced processing architectures that dynamically optimise their configuration to match the algorithm requirements at a point in time The book opens with an

introductory chapter by Stephen Blust Chair of the ITU R WP8F Committee and Chair of the SDR Forum presenting a framework for SDR in terms of definitions evolutionary perspectives introductory timescales and regulation Suitable for today's engineers technical staff and researchers within the wireless industry the book will also appeal to marketing and commercial managers who need to understand the basics and potential of the technology for future product development Its balance of industrial and academic contributors also makes it suitable as a text for graduate and post graduate courses aiming to prepare the next generation of wireless engineers

High-speed Integrated Circuit Technology Mark J. W. Rodwell, 2001 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 Contents Preface M J W Rodwell High Speed and High Data Bandwidth Transmitter and Receiver for Multi Channel Serial Data Communication with CMOS Technology M Fukaishi et al High Performance Si and SiGe Bipolar Technologies and Circuits M Wurzer et al Self Aligned Si BJT SiGe HBT Technology and Its Application to High Speed Circuits K Washio Small Scale InGaP GaAs Heterojunction Bipolar Transistors for High Speed and Low Power Integrated Circuit Applications T Oka et al Prospects of InP Based IC Technologies for 100 Gbit/s Class Lightwave Communications Systems T Enoki et al Scaling of InGaAs InAlAs HBTs for High Speed Mixed Signal and mm Wave ICs M J W Rodwell Progress Toward 100 GHz Logic in InP HBT IC Technology C H Fields et al Cantilevered Base InP DHBT for High Speed Digital Applications A L Gutierrez Aitken et al RSFQ Technology Physics and Devices P Bunyk et al RSFQ Technology Circuits and Systems D K Brock Readership Researchers industrialists and academics in electrical and electronic engineering

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

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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

Terahertz Sensing Technology William R. Loerop, 2003

The last research frontier in high frequency electronics now lies in the so called THz or submillimeter wave regime between the traditional microwave and infrared domains

Significant scientific and technical challenges within the terahertz THz frequency regime have recently motivated an array of new research activities

During the last few years major research programs have emerged that are focused on advancing the state of the art in THz frequency electronic technology and on investigating novel applications of THz frequency sensing

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Readership Undergraduates graduate students academics and researchers in electrical electronic engineering

Terahertz Sensing Technology - Vol 1: Electronic Devices And Advanced Systems Technology Michael S Shur, Dwight L Woolard, William R Loerop, 2003-07-14

The last research frontier in high frequency electronics now lies in the so called THz or submillimeter wave regime between the traditional microwave and infrared domains

Significant scientific and technical challenges within the terahertz THz frequency regime have recently motivated an array of new research activities

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Radiation Effects and Soft Errors in Integrated Circuits and Electronic Devices Dan M. Fleetwood, 2004

This book provides a detailed treatment of radiation effects in electronic devices including effects at the material device and circuit levels

The emphasis is on transient effects caused by single ionizing particles single event effects and soft errors and effects produced by the cumulative energy deposited by the radiation total ionizing dose effects

Bipolar Si and SiGe metalOCooxideOCosemiconductor MOS and compound

semiconductor technologies are discussed In addition to considering the specific issues associated with high performance devices and technologies the book includes the background material necessary for understanding radiation effects at a more general level Contents Single Event Effects in Avionics and on the Ground E Normand Soft Errors in Commercial Integrated Circuits R C Baumann System Level Single Event Upset Mitigation Strategies W F Heidergott Space Radiation Effects in Optocouplers R A Reed et al The Effects of Space Radiation Exposure on Power MOSFETs A Review K Shenai et al Total Dose Effects in Linear Bipolar Integrated Circuits H J Barnaby Hardness Assurance for Commercial Microelectronics R L Pease Switching Oxide Traps T R Oldham Online and Realtime Dosimetry Using Optically Stimulated Luminescence L Dusseau and other articles Readership Practitioners researchers managers and graduate students in electrical and electronic engineering semiconductor science and technology and microelectronics

Terahertz Sensing Technology: Emerging scientific applications & novel device concepts Dwight L. Woolard, William R. Loerop, Michael Shur, 2003 The last research frontier in high frequency electronics lies in the so called terahertz or submillimeter wave regime between the traditional microwave and the infrared domains Significant scientific and technical challenges within the terahertz THz frequency regime have recently motivated an array of new research activities During the last few years major research programs have emerged that are focused on advancing the state of the art in THz frequency electronic technology and on investigating novel applications of THz frequency sensing This book provides a detailed review of the new THz frequency technological developments that are emerging across a wide spectrum of sensing and technology areas Volume II presents cutting edge results in two primary areas 1 research that is attempting to establish THz frequency sensing as a new characterization tool for chemical biological and semiconductor materials and 2 theoretical and experimental efforts to define new device concepts within the THz gap

Terahertz Sensing Technology - Vol 2: Emerging Scientific Applications And Novel Device Concepts Michael S Shur, Dwight L Woolard, William R Loerop, 2004-02-06 The last research frontier in high frequency electronics lies in the so called terahertz or submillimeter wave regime between the traditional microwave and the infrared domains Significant scientific and technical challenges within the terahertz THz frequency regime have recently motivated an array of new research activities During the last few years major research programs have emerged that are focused on advancing the state of the art in THz frequency electronic technology and on investigating novel applications of THz frequency sensing This book provides a detailed review of the new THz frequency technological developments that are emerging across a wide spectrum of sensing and technology areas Volume II presents cutting edge results in two primary areas 1 research that is attempting to establish THz frequency sensing as a new characterization tool for chemical biological and semiconductor materials and 2 theoretical and experimental efforts to define new device concepts within the THz gap

Advanced Device Modeling And Simulation Tibor Grasser, 2003-10-17 Microelectronics is one of the most rapidly changing scientific fields today The tendency to shrink devices as far as possible results in extremely small devices which can no longer be described using

simple analytical models This book covers various aspects of advanced device modeling and simulation As such it presents extensive reviews and original research by outstanding scientists The bulk of the book is concerned with the theory of classical and quantum mechanical transport modeling based on macroscopic spherical harmonics and Monte Carlo methods

Topics in High Field Transport in Semiconductors Kevin F. Brennan, P. Paul Ruden, 2001 This book examines some of the charge carrier transport issues encountered in the field of modern semiconductor devices and novel materials Theoretical approaches to the understanding and modeling of the relevant physical phenomena seen in devices that have very small spatial dimensions and that operate under high electric field strength are described in papers written by leading experts and pioneers in this field In addition the book examines the transport physics encountered in novel materials such as wide band gap semiconductors GaN SiC etc as well as organic semiconductors Topics in High Field Transport in Semiconductors provides a comprehensive overview that will be beneficial to newcomers as well as engineers and researchers engaged in this exciting field

Oxide Reliability D. J. Dumin, 2002 Presents in summary the state of our knowledge of oxide reliability

Quantum Dots Elena Borovitskaya, Michael S Shur, 2002-07-08 In this book leading experts on quantum dot theory and technology provide comprehensive reviews of all aspects of quantum dot systems The following topics are covered 1 energy states in quantum dots including the effects of strain and many body effects 2 self assembly and self ordering of quantum dots in semiconductor systems 3 growth structures and optical properties of III nitride quantum dots 4 quantum dot lasers

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

Intersubband Infrared Photodetectors Victor Ryzhii, 2003-06-25 Infrared technologies are very important for a wide range of military scientific and commercial applications Devices and systems based on semiconductor heterostructure and quantum well and quantum dot structures open up a new era in infrared technologies This book deals with various topics related to the latest achievements in the development of intersubband infrared photodetectors reviewed by top experts in the field It covers physical aspects of the operation of the devices as well as details of their design in different applications The papers included in the book will be useful for researchers and engineers

interested in the physics of optoelectronic devices as well as their practical design and applications *Frontiers In Electronics: Future Chips, Proceedings Of The 2002 Workshop On Frontiers In Electronics (Wofe-02)* Yoon Soo Park, Michael S Shur, William Tang, 2003-01-29 The 2002 Workshop on Frontiers in Electronics was the third in the series of WOFE workshops Over 70 leading experts from academia industry and government agencies reported on the most recent developments in their fields and exchanged views on future trends and directions of the electronics and photonics industry The issues they addressed ranged from system on chip to DNA doping from ultrathin SOI to electrotiles from photonics integration on the ULSI platform to wide band gap semiconductor devices and solid state lighting The rapid pace of electronic technology evolution compels a merger of different technical areas and WOFE 02 provided a unique opportunity for cross fertilization of the emerging fields of microelectronics photonics and nanoelectronics The workshop was informal and stimulated provocative views visionary outlooks and discussions on controversial issues High Performance Devices - Proceedings Of The 2004 Ieee Lester Eastman Conference Robert Leoni, 2005-04-26 This volume presents state of the art works from top academic and research institutions in the areas of high performance semiconductor materials devices and circuits A broad coverage of topics relating to high performance devices and circuits is featured here There are 46 contributed papers covering a wide range of materials device types and applications These papers describe the results of ongoing research in three general areas high speed technologies for advanced mixed signal and terahertz applications advanced technologies for high performance optical links and light sources and high power density and high efficiency technologies for next generation microwave front ends and power electronics **Breakdown Phenomena in Semiconductors and Semiconductor Devices** Michael Levinshtein, Juha Kostamovaara, Sergey Vainshtein, 2005 Impact ionization avalanche and breakdown phenomena form the basis of many very interesting and important semiconductor devices such as avalanche photodiodes avalanche transistors suppressors sharpening diodes diodes with delayed breakdown as well as IMPATT and TRAPATT diodes In order to provide maximal speed and power many semiconductor devices must operate under or very close to breakdown conditions Consequently an acquaintance with breakdown phenomena is essential for scientists or engineers dealing with semiconductor devices The aim of this book is to summarize the main experimental results on avalanche and breakdown phenomena in semiconductors and semiconductor devices and to analyze their features from a unified point of view Attention is focused on the phenomenology of avalanche multiplication and the various kinds of breakdown phenomena and their qualitative analysis *Gan-based Materials And Devices: Growth, Fabrication, Characterization And Performance* Robert F Davis, Michael S Shur, Harry B Dietrich, 2004-05-07 The unique materials properties of GaN based semiconductors have stimulated a great deal of interest in research and development regarding nitride materials growth and optoelectronic and nitride based electronic devices High electron mobility and saturation velocity high sheet carrier concentration at heterojunction interfaces high breakdown field and low thermal impedance of

GaN based films grown over SiC or bulk AlN substrates make nitride based electronic devices very promising The chemical inertness of nitrides is another key property This volume written by experts on different aspects of nitride technology addresses the entire spectrum of issues related to nitride materials and devices and it will be useful for technologists scientists engineers and graduate students who are working on wide bandgap materials and devices The book can also be used as a supplementary text for graduate courses on wide bandgap semiconductor technology

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