

Log (transistor number)

More Moore

Beyond CMOS



Biomedical chip



Photonic IC



Spintronic device

Moore's Law

5-1nm

2nm

1nm

3nm

5nm

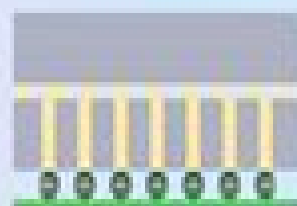
28-7nm

10nm

14nm

20nm

28nm

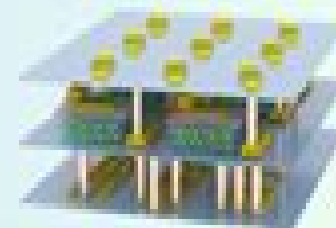


Chip-Level 3D

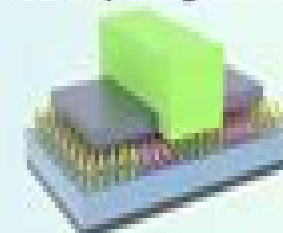


2.5 D

High-density integration process



Novel device structure



Non-silicon semiconductor



More
than
Moore

2010 2015 2020 2025 2030 2035 2040 2045 2050 Process Technology

Frontiers In Electronics Future Chips

Tibor Grasser



Frontiers In Electronics Future Chips:

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 electrotexiles 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 **Frontiers in Electronics:**

Future Chips Yoon Soo Park, 2002 Special Issue: Frontiers in Electronics: Future Chips Yoon Soo Park, Michael S. Shur, William Tang, WOFE, 2002 **Advanced Semiconductor Heterostructures** Mitra Dutta, Michael A. Stroscio, 2003 Novel heterostructure devices Electron phonon interactions in intersubband laser heterostructures M V Kisin M Dutta and M A Stroscio Quantum dot infrared detectors and sources P Bhattacharya et al Generation of terahertz emission based on intersubband transitions Q Hu Mid infrared GaSb based lasers with Type I heterointerfaces D V Donetsky R U Martinelli and G L Belenky Advances in quantum dot research and technology the path to applications in biology M A Stroscio and M Dutta Potential device applications and basic properties High field electron transport controlled by optical phonon emission in nitrides S M Komirenko et al Cooling by inverse Nottingham effect with resonant tunneling Y Yu R F Greene and R Tsu The physics of single electron transistors M A Kastner Carrier capture and transport within tunnel injection lasers a quantum transport analysis L F Register et al The influence of environmental effects on the acoustic phonon spectra in quantum dot heterostructures S Rufo M Dutta and M A Stroscio Quantum devices with multipole electrode heterojunctions hybrid structures R Tsu **Frontiers In Electronics (With Cd-rom) - Proceedings Of The Wofe-04** Michael S Shur, Yoshi

Nishi, Hiroshi Iwai, Hei Wong, 2006-08-10 Frontiers in Electronics reports on the most recent developments and future trends in the electronics and photonics industry The issues address CMOS SOI and wide band gap semiconductor technology terahertz technology and bioelectronics providing a unique interdisciplinary overview of the key emerging issues This volume accurately reflects the recent research and development trends from pure research to research and development and its contributors are leading experts in microelectronics nanoelectronics and nanophotonics from academia industry and government agencies

Transformational Science And Technology For The Current And Future Force (With Cd-rom) - Proceedings Of The 24th Us Army Science Conference A M Rajendran, J A Parmentola, W Bryzik, B J Walker, J W Mccauley, J Reifman, N M Nasrabadi, 2006-11-08 This book provides the reader with a unique opportunity to understand the

basic and applied research and technology areas that support applications to enable Transformational capabilities for US Soldiers The research papers are in line with the theme of the 24th Army Science Conference Transformational Science and Technology for the Current and Future Force emphasizing the critical role of Science and Technology in addressing the significant challenges posed by Global War On Terrorism while simultaneously developing Transformational capabilities for the Future Force

UV Solid-State Light Emitters and Detectors Michael S. Shur, Arturas Zukauskas, 2004-05-31 Infrared and visible light LEDs and photodetectors have found numerous applications and have become a truly enabling technology The promise of solid state lighting has invigorated interest in white light LEDs Ultraviolet LEDs and solar blind photodetectors represent the next frontier in solid state emitters and hold promise for many important applications in biology medicine dentistry solid state lighting displays dense data storage and semiconductor manufacturing One of the most important applications is in systems for the identification of hazardous biological agents Compared to UV lamps UV LEDs have lower power consumption a longer life compactness and sharper spectral lines UV LEDs can provide a variety of UV spectra and have shape and form factor flexibility and ruggedness Using conventional phosphors UV LEDs can generate white light with high CRI and high efficiency If quantum cutter phosphors are developed white light generation by UV LEDs might become even more efficient Advances in semiconductor materials and in improved light extraction techniques led to the development of a new generation of efficient and powerful visible high brightness LEDs and we expect that similar improvements will be achieved in solid state UV technology

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 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 serves as a detailed reference for the new THz frequency technological advances that are emerging across a wide spectrum of sensing and technology areas

Radiation Effects And Soft Errors In Integrated Circuits And Electronic Devices Ronald D Schrimpf, Daniel M Fleetwood, 2004-07-29 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 metal oxide semiconductor 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

Frontiers in Electronics, 2002 *Terahertz Sensing Technology:*

Electronic devices and advanced systems technology Dwight L. Woolard, William R. Loerop, Michael Shur, 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 This book serves as a detailed reference for the new THz frequency technological advances that are emerging across a wide spectrum of sensing and technology areas 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 **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 **Design of High-speed Communication**

Circuits Ramesh Harjani, 2006 MOS technology has rapidly become the de facto standard for mixed signal integrated circuit design due to the high levels of integration possible as device geometries shrink to nanometer scales The reduction in feature size means that the number of transistor and clock speeds have increased significantly In fact current day microprocessors contain hundreds of millions of transistors operating at multiple gigahertz Furthermore this reduction in feature size also has a significant impact on mixed signal circuits Due to the higher levels of integration the majority of ASICs possesses some analog components It has now become nearly mandatory to integrate both analog and digital circuits on the same substrate due to cost and power constraints This book presents some of the newer problems and opportunities offered by the small device geometries and the high levels of integration that is now possible The aim of this book is to summarize some of the most critical aspects of high speed analog RF communications circuits Attention is focused on the impact of scaling substrate noise data converters RF and wireless communication circuits and wireline communication circuits including high speed I O

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 E Levinshtein, Juha Kostamovaara, Sergey Vainshtein, 2005-09-07 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 **Advanced Device**

Modeling And Simulation Tibor Grassner, 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 **The Chip** T.R. Reid, 2007-12-18 Barely fifty years ago a computer was a gargantuan vastly expensive thing that only a handful of scientists had ever seen The world's brightest engineers were stymied in their quest to make these machines small and affordable until the solution finally came from two ingenious young Americans Jack Kilby and Robert Noyce hit upon the stunning discovery that would make possible the silicon microchip a work that would ultimately earn Kilby the Nobel Prize for physics in 2000 In this completely revised and updated edition of *The Chip* T R Reid tells the gripping adventure story of their invention and of its growth into a global information industry This is the story of how the digital age began 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 *American Book Publishing Record* ,2004

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