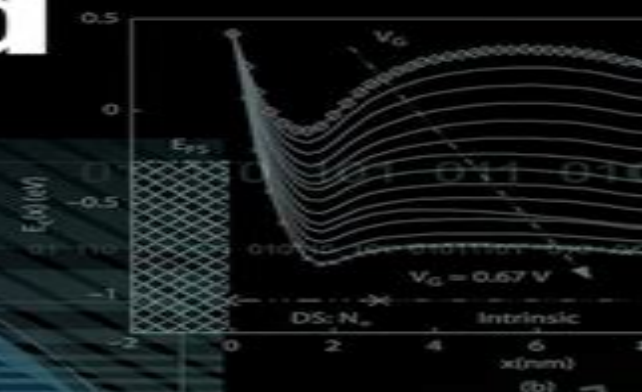




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High-Speed Devices and Circuits with THz Applications



Edited by **Jung Han Choi**

High Speed Devices And Circuits With Thz Applications

Mladen Božanić, Saurabh Sinha



High Speed Devices And Circuits With Thz Applications:

High-Speed Devices and Circuits with THz Applications Jung Han Choi, 2017-09-19 Presenting the cutting edge results of new device developments and circuit implementations High Speed Devices and Circuits with THz Applications covers the recent advancements of nano devices for terahertz THz applications and the latest high speed data rate connectivity technologies from system design to integrated circuit IC design providing relevant standard activities and technical specifications Featuring the contributions of leading experts from industry and academia this pivotal work Discusses THz sensing and imaging devices based on nano devices and materials Describes silicon on insulator SOI multigate nanowire field effect transistors FETs Explains the theory underpinning nanoscale nanowire metal oxide semiconductor field effect transistors MOSFETs simulation methods and their results Explores the physics of the silicon germanium SiGe heterojunction bipolar transistor HBT as well as commercially available SiGe HBT devices and their applications Details aspects of THz IC design using standard silicon Si complementary metal oxide semiconductor CMOS devices including experimental setups for measurements detection methods and more An essential text for the future of high frequency engineering High Speed Devices and Circuits with THz Applications offers valuable insight into emerging technologies and product possibilities that are attractive in terms of mass production and compatibility with current manufacturing facilities

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practical design and implementation this book Covers the fundamental principles of signal processing for radiation detectors Discusses the relevant analog building blocks used in the front end electronics Employs systematically weak and moderate inversion regimes in circuit analysis Makes complex topics such as noise and circuit weighting functions more accessible Includes numerical examples where appropriate CMOS Front End Electronics for Radiation Sensors provides specialized knowledge previously obtained only through the study of multiple technical and scientific papers It is an ideal text for students of physics and electronics engineering as well as a useful reference for experienced practitioners

Millimeter-Wave Low Noise Amplifiers Mladen Božanić, Saurabh Sinha, 2017-11-30 This book is the first standalone book that combines research into low noise amplifiers LNAs with research into millimeter wave circuits In compiling this book the authors have set two research objectives The first is to bring together the research context behind millimeter wave circuit operation and the theory of low noise amplification The second is to present new research in this multi disciplinary field by dividing the common LNA configurations and typical specifications into subsystems which are then optimized separately to suggest improvements in the current state of the art designs To achieve the second research objective the state of the art LNA configurations are discussed and the weaknesses of state of the art configurations are considered thus identifying research gaps Such research gaps among others point towards optimization at a systems and microelectronics level Optimization topics include the influence of short wavelength layout and crosstalk on LNA performance Advanced fabrication technologies used to decrease the parasitics of passive and active devices are also explored together with packaging technologies such as silicon on chip and silicon on package which are proposed as alternatives to traditional IC implementation This research outcome builds through innovation Innovative ideas for LNA construction are explored and alternative design methodologies are deployed including LNA antenna co design or utilization of the electronic design automation in the research flow The book also offers the authors proposal for streamlined automated LNA design flow which focuses on LNA as a collection of highly optimized subsystems

Labs on Chip Eugenio Iannone, 2018-09-03 *Labs on Chip Principles Design and Technology* provides a complete reference for the complex field of labs on chip in biotechnology Merging three main areas fluid dynamics monolithic micro and nanotechnology and out of equilibrium biochemistry this text integrates coverage of technology issues with strong theoretical explanations of design techniques Analyzing each subject from basic principles to relevant applications this book Describes the biochemical elements required to work on labs on chip Discusses fabrication microfluidic and electronic and optical detection techniques Addresses planar technologies polymer microfabrication and process scalability to huge volumes Presents a global view of current lab on chip research and development Devotes an entire chapter to labs on chip for genetics Summarizing in one source the different technical competencies required *Labs on Chip Principles Design and Technology* offers valuable guidance for the lab on chip design decision making process while exploring essential elements of labs on chip useful both to the professional who wants to

approach a new field and to the specialist who wants to gain a broader perspective *Laser-Based Optical Detection of Explosives* Paul M. Pellegrino, Ellen L. Holthoff, Mikella E. Farrell, 2018-09-03 *Laser Based Optical Detection of Explosives* offers a comprehensive review of past present and emerging laser based methods for the detection of a variety of explosives This book Considers laser propagation safety and explains standard test material preparation for standoff optical based detection system evaluation Explores explosives detection using deep ultraviolet native fluorescence Raman spectroscopy laser induced breakdown spectroscopy reflectometry and hyperspectral imaging Examines photodissociation followed by laser induced fluorescence photothermal methods cavity enhanced absorption spectrometry and short pulse laser based techniques Describes the detection and recognition of explosives using terahertz frequency spectroscopic techniques Each chapter is authored by a leading expert on the respective technology and is structured to supply historical perspective address current advantages and challenges and discuss novel research and applications Readers are left with an in depth understanding and appreciation of each technology s capabilities and potential for standoff hazard detection *Organic Solar Cells* Qiquan Qiao, 2017-12-19 Current energy consumption mainly depends on fossil fuels that are limited and can cause environmental issues such as greenhouse gas emissions and global warming These factors have stimulated the search for alternate clean and renewable energy sources Solar cells are some of the most promising clean and readily available energy sources Plus the successful utilization of solar energy can help reduce the dependence on fossil fuels Recently organic solar cells have gained extensive attention as a next generation photovoltaic technology due to their light weight mechanical flexibility and solution based cost effective processing *Organic Solar Cells Materials Devices Interfaces and Modeling* provides an in depth understanding of the current state of the art of organic solar cell technology Encompassing the full spectrum of organic solar cell materials modeling and simulation and device physics and engineering this comprehensive text Discusses active layer interfacial and transparent electrode materials Explains how to relate synthesis parameters to morphology of the photoactive layer using molecular dynamics simulations Offers insight into coupling morphology and interfaces with charge transport in organic solar cells Explores photoexcited carrier dynamics defect states interface engineering and nanophase separation Covers inorganic organic hybrids tandem structure and graphene based polymer solar cells *Organic Solar Cells Materials Devices Interfaces and Modeling* makes an ideal reference for scientists and engineers as well as researchers and students entering the field from broad disciplines including chemistry material science and engineering physics nanotechnology nanoscience and electrical engineering *Structural Health Monitoring of Composite Structures Using Fiber Optic Methods* Ginu Rajan, B. Gangadhara Prusty, 2016-10-03 This highly comprehensive introductory book explains the basics of structural health monitoring aspects of composite structures This book serve as an all in one reference book in which the reader can receive a basic understanding of composite materials manufacturing methods the latest types of optical fiber sensors used for structural health monitoring of composite structures and demonstrated

applications of the use of fiber sensors in a variety of composite material structures The content draws upon the authors and distinguished contributors extensive research teaching and industrial experience to fully cover the structural health monitoring of composite materials using fiber optic sensing methods

Gallium Nitride (GaN) Farid

Medjdoub,2017-12-19 Addresses a Growing Need for High Power and High Frequency Transistors Gallium Nitride GaN Physics Devices and Technology offers a balanced perspective on the state of the art in gallium nitride technology A semiconductor commonly used in bright light emitting diodes GaN can serve as a great alternative to existing devices used in microelectronics It has a wide band gap and high electron mobility that gives it special properties for applications in optoelectronic high power and high frequency devices and because of its high off state breakdown strength combined with excellent on state channel conductivity GaN is an ideal candidate for switching power transistors Explores Recent Progress in High Frequency GaN Technology Written by a panel of academic and industry experts from around the globe this book reviews the advantages of GaN based material systems suitable for high frequency high power applications It provides an overview of the semiconductor environment outlines the fundamental device physics of GaN and describes GaN materials and device structures that are needed for the next stage of microelectronics and optoelectronics The book details the development of radio frequency RF semiconductor devices and circuits considers the current challenges that the industry now faces and examines future trends In addition the authors Propose a design in which multiple LED stacks can be connected in a series using interband tunnel junction TJ interconnects Examine GaN technology while in its early stages of high volume deployment in commercial and military products Consider the potential use of both sunlight and hydrogen as promising and prominent energy sources for this technology Introduce two unique methods PEC oxidation and vapor cooling condensation methods for the deposition of high quality oxide layers A single source reference for students and professionals Gallium Nitride GaN Physics Devices and Technology provides an overall assessment of the semiconductor environment discusses the potential use of GaN based technology for RF semiconductor devices and highlights the current and emerging applications of GaN

Systems-Level Packaging for Millimeter-Wave Transceivers Mladen Božanić,Saurabh

Sinha,2019-03-26 This book provides a system level approach to making packaging decisions for millimeter wave transceivers In electronics the packaging forms a bridge between the integrated circuit or individual device and the rest of the electronic system encompassing all technologies between the two To be able to make well founded packaging decisions researchers need to understand a broad range of aspects including concepts of transmission bands antennas and propagation integrated and discrete package substrates materials and technologies interconnects passive and active components as well as the advantages and disadvantages of various packages and packaging approaches and package level modeling and simulation Packaging also needs to be considered in terms of system level testing as well as associated testing and production costs and reducing costs This peer reviewed work contributes to the extant scholarly literature by addressing the

aforementioned concepts and applying them to the context of the millimeter wave regime and the unique opportunities that this transmission approach offers

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