INTEGRATED CIRCUITS AND SYSTEMS





Ali Sheikholeslami, Jan Van der Spiegel, Yanjie Wang

mm-Wave Silicon Technology Ali M. Niknejad, Hossein Hashemi, 2008-01-03 This book compiles and presents the research results from the past five years in mm wave Silicon circuits This area has received a great deal of interest from the research community including several university and research groups The book covers device modeling circuit building blocks phased array systems and antennas and packaging It focuses on the techniques that uniquely take advantage of the scale and integration offered by silicon based technologies Cmos Millimeter-wave Integrated Circuits For Next Generation Wireless Communication Systems Kiat Seng Yeo, Chirn Chye Boon, Xiang Yi, Fanyi Meng, 2019-07-09 This book addresses in depth technical issues limitations considerations and challenges facing millimeter wave MMW integrated circuit and system designers in designing MMW wireless communication systems from the complementary metal oxide semiconductor CMOS perspective It offers both a comprehensive explanation of fundamental theories and a broad coverage of MMW integrated circuits and systems CMOS Millimeter Wave Integrated Circuits for Next Generation Wireless Communication Systems is an excellent reference for faculty researchers and students working in electrical and electronic engineering wireless communication integrated circuit design and circuits and systems While primarily written for upper level undergraduate courses it is also an excellent introduction to the subject for instructors graduate students researchers integrated circuit designers and practicing engineers Advanced readers could also benefit from this book as it includes many recent state of the art MMW circuits Related Link s State-of-the-Art of Millimeter-Wave Silicon Technology Jaco du Preez, Saurabh Sinha, 2022-09-20 This book examines the critical differences between current and next generation Si technologies CMOS BiCMOS and SiC and technology platforms e g system on chip in mm wave wireless applications We provide a basic overview of the two technologies from a technical standpoint followed by a review of the state of the art of several key building blocks in wireless systems The influences of system requirements on the choice of semiconductor technology are vital to understanding the merits of CMOS and BiCMOS devices e g output power battery life adjacent channel interference cost restrictions and so forth These requirements in turn affect component level design and performance metrics of oscillators mixers power and low noise amplifiers as well as phase locked loops and data converters Finally the book offers a peek into the next generation of wireless technologies such as THz band systems and future 6G applications **RF and mm-Wave Power Generation in Silicon** Hua Wang, Kaushik Sengupta, 2015-12-10 RF and mm Wave Power Generation in Silicon presents the challenges and solutions of designing power amplifiers at RF and mm Wave frequencies in a silicon based process technology It covers practical power amplifier design methodologies energy and spectrum efficient power amplifier design examples in the RF frequency for cellular and wireless connectivity applications and power amplifier and power generation designs for enabling new communication and sensing applications in the mm Wave and THz frequencies With this book you will learn Power amplifier design fundamentals and methodologies Latest advances in silicon based RF power

amplifier architectures and designs and their integration in wireless communication systems State of the art mm Wave THz power amplifier and power generation circuits and systems in silicon Extensive coverage from fundamentals to advanced design topics focusing on various layers of abstraction from device modeling and circuit design strategy to advanced digital and mixed signal architectures for highly efficient and linear power amplifiers New architectures for power amplifiers in the cellar and wireless connectivity covering detailed design methodologies and state of the art performances Detailed design techniques trade off analysis and design examples for efficiency enhancement at power back off and linear amplification for spectrally efficient non constant envelope modulations Extensive coverage of mm Wave power generation techniques from the early days of the 60 GHz research to current state of the art reconfigurable digital mm Wave PA architectures Detailed analysis of power generation challenges in the higher mm Wave and THz frequencies and novel technical solutions for a wide range for potential applications including ultrafast wireless communication to sensing imaging and spectroscopy Contributions from the world class experts from both academia and industry 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 Design of CMOS Millimeter-Wave and Terahertz Integrated Circuits with Metamaterials Hao Yu, Yang Shang, 2015-10-19 This book shows that with the use of metamaterials one can have coherent THz signal generation amplification transmission and detection for phase arrayed CMOS transistors with significantly improved performance Offering detailed coverage from device to system the book describes the design and application of metamaterials in actual CMOS integrated circuits includes real circuit examples and chip demonstrations with measurement results and also

evaluates system performance after CMOS based system on chip integration The book reflects the latest research progress and provides a state of the art reference on CMOS based metamaterial devices and mm wave and THz systems

Millimeter-Wave Power Amplifiers Jaco du Preez, Saurabh Sinha, 2017-10-05 This book provides a detailed review of millimeter wave power amplifiers discussing design issues and performance limitations commonly encountered in light of the latest research Power amplifiers which are able to provide high levels of output power and linearity while being easily integrated with surrounding circuitry are a crucial component in wireless microwave systems. The book is divided into three parts the first of which introduces readers to mm wave wireless systems and power amplifiers In turn the second focuses on design principles and EDA concepts while the third discusses future trends in power amplifier research The book provides essential information on mm wave power amplifier theory as well as the implementation options and technologies involved in their effective design equipping researchers circuit designers and practicing engineers to design model analyze test and implement high performance spectrally clean and energy efficient mm wave systems New Materials and Devices Enabling 5G Applications and Beyond Nadine Collaert, 2024-01-24 New Materials and Devices for 5G Applications and Beyond focuses on the materials device architectures and enabling integration schemes for 5G applications and emerging technologies It gives a comprehensive overview of the trade offs challenges and unique properties of novel upcoming technologies Starting from the application side and its requirements the book examines different technologies under consideration for the different functions both more conventional to exploratory and within this context the book provides quidance to the reader on how to possibly optimize the system for a particular application This book aims at quiding the reader through the technologies required to enable 5G applications with the main focus on mm wave frequencies up to THz New Materials and Devises for 5G Applications and Beyond is suitable for industrial researchers and development engineers and researchers in materials science device engineering and circuit design Reviews challenges and emerging opportunities for materials devices and integration to enable 5G technologies Includes discussion of technologies such as RF MEMs RF FINFETs and transistors based on current and emerging materials InP GaN etc Focuses on mm wave frequencies up to the Microwave and Millimeter Wave Circuits and Systems Apostolos Georgiadis, Hendrik Rogier, Luca terahertz regime Roselli, Paolo Arcioni, 2012-09-17 Microwave and Millimeter Wave Circuits and Systems Emerging Design Technologies and Applications provides a wide spectrum of current trends in the design of microwave and millimeter circuits and systems In addition the book identifies the state of the art challenges in microwave and millimeter wave circuits systems design such as behavioral modeling of circuit components software radio and digitally enhanced front ends new and promising technologies such as substrate integrated waveguide SIW and wearable electronic systems and emerging applications such as tracking of moving targets using ultra wideband radar and new generation satellite navigation systems Each chapter treats a selected problem and challenge within the field of Microwave and Millimeter wave circuits and contains case studies and examples

where appropriate Key Features Discusses modeling and design strategies for new appealing applications in the domain of microwave and millimeter wave circuits and systems Written by experts active in the Microwave and Millimeter Wave frequency range industry and academia Addresses modeling design applications both from the circuit as from the system perspective Covers the latest innovations in the respective fields Each chapter treats a selected problem and challenge within the field of Microwave and Millimeter wave circuits and contains case studies and examples where appropriate This book serves as an excellent reference for engineers researchers research project managers and engineers working in R D professors and post graduates studying related courses It will also be of interest to professionals working in product development and PhD students **Integrated 60GHz RF Beamforming in CMOS** Yikun Yu, Peter G.M. Baltus, Arthur H.M. van Roermund, 2011-01-06 Integrated 60GHz RF Beamforming in CMOS describes new concepts and design techniques that can be used for 60GHz phased array systems First general trends and challenges in low cost high data rate 60GHz wireless system are studied and the phased array technique is introduced to improve the system performance Second the system requirements of phase shifters are analyzed and different phased array architectures are compared Third the design and implementation of 60GHz passive and active phase shifters in a CMOS technology are presented Fourth the integration of 60GHz phase shifters with other key building blocks such as low noise amplifiers and power amplifiers are described in detail Finally this book describes the integration of a 60GHz CMOS amplifier and an antenna in a printed circuit board PCB **Advanced Trends in Wireless Communications** Mutamed Khatib, 2011-02-17 Physical limitations on wireless package communication channels impose huge challenges to reliable communication Bandwidth limitations propagation loss noise and interference make the wireless channel a narrow pipe that does not readily accommodate rapid flow of data Thus researches aim to design systems that are suitable to operate in such channels in order to have high performance quality of service Also the mobility of the communication systems requires further investigations to reduce the complexity and the power consumption of the receiver This book aims to provide highlights of the current research in the field of wireless communications The subjects discussed are very valuable to communication researchers rather than researchers in the wireless related areas The book chapters cover a wide range of wireless communication topics Millimeter-Wave Antennas: Configurations and Applications Jaco du Preez, Saurabh Sinha, 2016-06-20 This book comprehensively reviews the state of the art in millimeter wave antennas traces important recent developments and provides information on a wide range of antenna configurations and applications While fundamental theoretical aspects are discussed whenever necessary the book primarily focuses on design principles and concepts manufacture measurement techniques and practical results Each of the various antenna types scalable to millimeter wave dimensions is considered individually with coverage of leaky wave and surface wave antennas printed antennas integrated antennas and reflector and lens systems. The final two chapters address the subject from a systems perspective providing an overview of supporting circuitry and examining in detail diverse

millimeter wave applications including high speed wireless communications radio astronomy and radar The vast amount of information now available on millimeter wave systems can be daunting for researchers and designers entering the field This book offers readers essential guidance helping them to gain a thorough understanding based on the most recent research findings and serving as a sound basis for informed decision making The IoT Physical Layer Ibrahim (Abe) M. Elfadel, Mohammed Ismail, 2018-09-03 This book documents some of the most recent advances on the physical layer of the Internet of Things IoT including sensors circuits and systems The application area selected for illustrating these advances is that of autonomous wearable systems for real time medical diagnosis. The book is unique in that it adopts a holistic view of such systems and includes not only the sensor and processing subsystems but also the power communication and security subsystems Particular attention is paid to the integration of these IoT subsystems as well as the prototyping platforms needed for achieving such integration Other unique features include the discussion of energy harvesting subsystems to achieve full energy autonomy and the consideration of hardware security as a requirement for the integrity of the IoT physical layer One unifying thread of the various designs considered in this book is that they have all been fabricated and tested in an advanced low power CMOS process namely GLOBALFOUNDRIES 65nm CMOS LPe Mobile Communication Networks: 5G and a Vision of 6G Mladen Božanić, Saurabh Sinha, 2021-02-15 This book contributes to the body of scholarly knowledge by exploring the main ideas of wireless networks of past present and future trends in the field of networking the capabilities of 5G and technologies that are potential enablers of 6G potential 6G applications and requirements as well as unique challenges and opportunities that 6G research is going to offer over the next decade It covers research topics such as communication via millimeter waves terahertz waves and visible light to enable faster speeds as well as research into achieving other basic requirements of 6G networks These include low end to end latency high energy efficiency coverage that is ubiquitous and always on integration of terrestrial wireless with non terrestrial networks network management that is made more effective by connected intelligence with machine learning capabilities as well as support for the evolution of old service classes and support for new ones IC Design Insights - from Selected Presentations at CICC 2017 Ali Sheikholeslami, Jan Van der Spiegel, Yanjie Wang, 2022-09-01 This book contains a selection of tutorial and invited presentations that were given at the IEEE CICC 2017 in Austin Texas The selection of the talks was made to provide a comprehensive coverage of key topics including Circuits Techniques for mm wave front ends RF and mm wave receivers and frequency synthesis data and DC DC converters and techniques for IoT security The book is organized into five parts namely I Millimeter wave Transmitter CircuitsII Millimeter wave and RF Receiver Circuits III Data ConvertersIV DC DC Converters and Voltage RegulatorsV IoT Security Circuits and Techniques The book is part of an educational initiative of the IEEE Solid State Circuits Society to offer its members state of the art educational material Si-RF Technology Avan Karmakar, Kamaljeet Singh, 2019-05-10 This book discusses the recent research developments of various passive microwave

circuits on silicon substrate and demonstrated operations catering for multiple frequency bands It covers the design modelling process fabrication and characterization aspects with practical examples The book will be of use to researchers and engineers working in the field of RF or microwave engineering who can use the techniques and approaches effectively without having to refer to multiple sources Data Transmission at Millimeter Waves Khaled Khalaf, Vojkan Vidojkovic, Piet Wambacq, John R. Long, 2015-04-11 This book describes the design of a receiver front end circuit for operation in the 60GHz range in 90nm CMOS Physical layout of the test circuit and post layout simulations for the implementation of a test chip including the QVCO and the first stage divider are also presented The content of this book is particularly of interest to those working on mm wave frequency generation and signal reception **Beyond-CMOS Nanodevices 1** Francis Balestra, 2014-06-02 This book offers a comprehensive review of the state of the art in innovative Beyond CMOS nanodevices for developing novel functionalities logic and memories dedicated to researchers engineers and students It particularly focuses on the interest of nanostructures and nanodevices nanowires small slope switches 2D layers nanostructured materials etc for advanced More than Moore RF nanosensors energy harvesters on chip electronic cooling etc and Beyond CMOS logic and memories applications High-Performance AD and DA Converters, IC Design in Scaled **Technologies, and Time-Domain Signal Processing** Pieter Harpe, Andrea Baschirotto, Kofi A. A. Makinwa, 2014-07-23 This book is based on the 18 tutorials presented during the 23rd workshop on Advances in Analog Circuit Design Expert designers present readers with information about a variety of topics at the frontier of analog circuit design serving as a valuable reference to the state of the art for anyone involved in analog circuit research and development Wafer Level 3-D ICs **Process Technology** Chuan Seng Tan, Ronald J. Gutmann, L. Rafael Reif, 2009-06-29 Three dimensional 3D integration is clearly the simplest answer to most of the semiconductor industry's vexing problems heterogeneous integration and red tions of power form factor delay and even cost Conceptually the power latency and form factor of a system with a xed number of transistors all scale roughly linearly with the diameter of the smallest sphere enclosing frequently interacting devices This clearly provides the fundamental motivation behind 3D technologies which vertically stack several strata of device and interconnect layers with high vertical interconnectivity In addition the ability to vertically stack strata with vergent and even incompatible process ows provides for low cost and low parasitic integration of diverse technologies such as sensors energy scavengers nonvolatile memory dense memory fast memory processors and RF layers These capabilities coupled with today s trends of increasing levels of integrated functionality lower power smaller form factor increasingly divergent process ows and functional diversi cation would seem to make 3D technologies a natural choice for most of the semiconductor industry Since the concept of vertical integration of different strata has been around for over 20 years why aren t vertically stacked strata endemic to the semiconductor industry. The simple answer to this question is that in the past the 3D advantages while interesting were not necessary due to the tremendous opportunities offered by geometric scaling In addition even when the

global interconnect problem of high performance single core processors seemed insurmountable without inno tions such as 3D alternative architectural solutions such as multicores could eff tivelydelaybutnoteliminatetheneedfor3D

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