Martin von Haartman
Mikael Östling

Low-Frequency Noise in Advanced MOS Devices

Springer

Low Frequency Noise In Advanced Mos Devices Analog Circuits And Signal Processing

Ahmed Helmy,Mohammed Ismail

Low Frequency Noise In Advanced Mos Devices Analog Circuits And Signal Processing:

Low-Frequency Noise in Advanced MOS Devices Martin Haartman,Mikael Östling,2007-08-23 Low Frequency Noise in Advanced CMOS Devices begins with an introduction to noise describing the fundamental noise sources and basic circuit analysis The characterization of low frequency noise is discussed in detail and useful practical advice is given The various theoretical and compact low frequency 1 f noise models in MOS transistors are treated extensively providing an in depth understanding of the low frequency noise mechanisms and the potential sources of the noise in MOS transistors Advanced CMOS technology including nanometer scaled devices strained Si SiGe SOI high k gate dielectrics multiple gates and metal gates are discussed from a low frequency noise point of view Some of the most recent publications and conference presentations are included in order to give the very latest view on the topics The book ends with an introduction to noise in analog RF circuits and describes how the low frequency noise can affect these circuits **Low-Frequency Noise in Advanced MOS Devices** Martin von Haartman,Mikael Östling,2009-09-03 This is an introduction to noise describing fundamental noise sources and basic circuit analysis discussing characterization of low frequency noise and offering practical advice that bridges concepts of noise theory and modelling characterization CMOS technology and circuits The text offers the latest research reviewing the most recent publications and conference presentations The book concludes with an introduction to noise in analog RF circuits and describes how low frequency noise can affect these circuits Substrate Noise Coupling in RFICs Ahmed Helmy,Mohammed Ismail,2008-03-23 The book reports modeling and simulation techniques for substrate noise coupling effects in RFICs and introduces isolation structures and design guides to mitigate such effects with the ultimate goal of enhancing the yield of RF and mixed signal SoCs The book further reports silicon measurements and new test and noise isolation structures To the authors knowledge this is the first title devoted to the topic of substrate noise coupling in RFICs as part of a large SoC **Analog-Baseband Architectures and Circuits for Multistandard and Low-Voltage Wireless Transceivers** Pui-In Mak,Ben U Seng Pan,Rui Paulo Martins,2007-09-07 This book presents architectural and circuit techniques for wireless transceivers to achieve multistandard and low voltage compliance It provides an up to date survey and detailed study of the state of the art transceivers for modern single and multi purpose wireless communication systems The book includes comprehensive analysis and design of multimode reconfigurable receivers and transmitters for an efficient multistandard compliance *Nano-scale CMOS Analog Circuits* Soumya Pandit,Chittaranjan Mandal,Amit Patra,2018-09-03 Reliability concerns and the limitations of process technology can sometimes restrict the innovation process involved in designing nano scale analog circuits The success of nano scale analog circuit design requires repeat experimentation correct analysis of the device physics process technology and adequate use of the knowledge database Starting with the basics Nano Scale CMOS Analog Circuits Models and CAD Techniques for High Level Design introduces the essential fundamental concepts for designing analog circuits with optimal performances This

book explains the links between the physics and technology of scaled MOS transistors and the design and simulation of nano scale analog circuits It also explores the development of structured computer aided design CAD techniques for architecture level and circuit level design of analog circuits The book outlines the general trends of technology scaling with respect to device geometry process parameters and supply voltage It describes models and optimization techniques as well as the compact modeling of scaled MOS transistors for VLSI circuit simulation Includes two learning based methods the artificial neural network ANN and the least squares support vector machine LS SVM method Provides case studies demonstrating the practical use of these two methods Explores circuit sizing and specification translation tasks Introduces the particle swarm optimization technique and provides examples of sizing analog circuits Discusses the advanced effects of scaled MOS transistors like narrow width effects and vertical and lateral channel engineering Nano Scale CMOS Analog Circuits Models and CAD Techniques for High Level Design describes the models and CAD techniques explores the physics of MOS transistors and considers the design challenges involving statistical variations of process technology parameters and reliability constraints related to circuit design **High-Level Modeling and Synthesis of Analog Integrated Systems** Ewout S. J. Martens,Georges Gielen,2008-01-03 As the miniaturization of semiconductor technology continues electronic s tems on chips o er a more extensive and more complex functionality with better performance higher frequencies and less power consumption Whereas digital designers can take full advantage of the availability of design auto tiontoolstobuildhugesystems thelackofsupportbycomputerprogramsfor di erent abstraction levels makes analog design a time consuming handcraft which limits the possibilities to implement large systems Various approaches for ndingoptimalvaluesfortheparametersofanalogcells likeopamps have been investigated since the mid 1980s and they have made their entrance in commercial applications However a larger impact on the performance is pected if tools are developed which operate on a higher abstraction level and consider multiple architectural choices to realize a particular functionality In this book the opportunities conditions problems solutions and systematic methodologies for this new generation of analog CAD tools are examined Theoutlineofthisbookisasfollows Inthe rstpart thecharacteristicsof the analog design process are systematically analyzed and several approaches for automated analog synthesis are summarized Comparison of their prop ties with the requirements for high level synthesis of analog and mixed signal systems results in a new design paradigm the high level design ow based on generic behavior This design approach involves a modeling strategy using generic behavioral models and a synthesis strategy leading to the exploration of a heterogeneous design space containing di erent architectures The modeling strategy is further elaborated in Part II **Ultra Low Power Capacitive Sensor Interfaces** Wouter Bracke,Robert Puers,Chris Van Hoof,2007-06-15 The increasing performance of smart microsystems merging sensors signal processing and wireless communication promises to have a pervasive impact during the coming decade These autonomous microsystems nd applications in sport evaluation health care environmental monitoring and automotive s tems They gather

data from the physical world convert them to electrical form compensate for interfering variables or non linearities and either act rectly on them or transfer it to other systems Most often these sensor systems are developed for a speci c application This approach leads to a high rec rent design cost A generic front end architecture where only the sensors and the microcontroller software are customized to the selected application would reduce the costs signi cantly This work presents a new generic architecture for autonomous sensor nodes The modular design methodology provides a exible way to build a complete sensor interface out of con gurable blocks The settings of these blocks can be optimized according to the varying needs of the application Furthermore the system can easily be expanded with new building blocks The modular system is illustrated in a Generic Sensor Interface Chip GSIC for capa tive sensors Many con guration settings adapt the interface to a broad range of applications The GSIC is optimized for ultra low power consumption It achieves an ON state current consumption of 40 A **Structured Analog CMOS Design** Danica Stefanovic,Maher Kayal,2008-10-20 Structured Analog CMOS Design describes a structured analog design approach that makes it possible to simplify complex analog design problems and develop a design strategy that can be used for the design of large number of analog cells It intentionally avoids treating the analog design as a mathematical problem developing a design procedure based on the understanding of device physics and approximations that give insight into parameter interdependences The basic design concept consists in analog cell partitioning into the basic analog structures and sizing of these basic analog structures in a predefined procedural design sequence The procedural design sequence ensures the correct propagation of design specifications the verification of parameter limits and the local optimization loops The proposed design procedure is also implemented as a CAD tool that follows this book Circuit and Interconnect Design for RF and High Bit-rate Applications Hugo Veenstra,John R. Long,2008-06-04 Realizing maximum performance from high bit rate and RF circuits requires close attention to IC technology circuit to circuit interconnections i e the interconnect and circuit design This detailed book covers each of these topics from theory to practice with sufficient detail to help you produce circuits that are first time right Many practical circuit examples are included to demonstrate the interplay between technology interconnect and circuit design **Low Power UWB CMOS Radar Sensors** Hervé Paulino,Joao Goes,Adolfo Steiger Garção,2008-05-02 Low Power UWB CMOS Radar Sensors deals with the problem of designing low cost CMOS radar sensors The radar sensor uses UWB signals in order to obtain a reasonable target separation capability while maintaining a maximum signal frequency below 2 GHz This maximum frequency value is well within the reach of current CMOS technologies The use of UWB signals means that most of the methodologies used in the design of circuits and systems that process narrow band signals can no longer be applied Low Power UWB CMOS Radar Sensors provides an analysis between the interaction of UWB signals the antennas and the processing circuits This analysis leads to some interesting conclusions on the types of antennas and types of circuits that should be used A methodology to compare the noise performance of UWB processing circuits is also derived This

methodology is used to analyze and design the constituting circuits of the radar transceiver In order to validate the design methodology a CMOS prototype is designed and experimentally evaluated **Low-Power High-Speed ADCs for Nanometer CMOS Integration** Zhiheng Cao,Shouli Yan,2008-07-15 Low Power High Speed ADCs for Nanometer CMOS Integration is about the design and implementation of ADC in nanometer CMOS processes that achieve lower power consumption for a given speed and resolution than previous designs through architectural and circuit innovations that take advantage of unique features of nanometer CMOS processes A phase lock loop PLL clock multiplier has also been designed using new circuit techniques and successfully tested 1 A 1 2V 52mW 210MS s 10 bit two step ADC in 130nm CMOS occupying 0 38mm2 Using offset canceling comparators and capacitor networks implemented with small value interconnect capacitors to replace resistor ladder multiplexer in conventional sub ranging ADCs it achieves 74dB SFDR for 10MHz and 71dB SFDR for 100MHz input 2 A 32mW 1 25GS s 6 bit ADC with 2 5GHz internal clock in 130nm CMOS A new type of architecture that combines flash and SAR enables the lowest power consumption 6 bit 1GS s ADC reported to date This design can be a drop in replacement for existing flash ADCs since it does require any post processing or calibration step and has the same latency as flash 3 A 0 4ps rms jitter integrated from 3kHz to 300MHz offset for 2 5GHz 1 3GHz tunable phase noise programmable clock multiplier PLL for generating sampling clock to the SAR ADC A new loop filter structure enables phase error preamplification to lower PLL in band noise without increasing loop filter capacitor size

   Switched-Capacitor Techniques for High-Accuracy Filter and ADC Design Patrick J. Quinn,Arthur H.M. van Roermund,2007-07-20 This book proposes alternative switched capacitor techniques which allow the achievement of higher intrinsic analogue functional accuracy than previously possible in such application areas as analogue filter and ADC design The validity of the concepts developed and analyzed in Switched Capacitor Techniques for High Accuracy Filter and ADC Design has been demonstrated in practice with the design of CMOS SC bandpass filters and algorithmic ADC stages

   Wireless Radio-Frequency Standards and System Design: Advanced Techniques Cornetta, Gianluca,Santos, David J.,Vazquez, Jose Manuel,2012-01-31 Radio frequency RF integrated circuits in CMOS technology are gaining increasing popularity in the commercial world and CMOS technology has become the dominant technology for applications such as GPS receivers GSM cellular transceivers wireless LAN and wireless short range personal area networks based on IEEE 802 15 1 Bluetooth or IEEE 802 15 4 ZigBee standards Furthermore the increasing interest in wireless technologies and the widespread of wireless communications has prompted an ever increasing demand for radio frequency transceivers Wireless Radio Frequency Standards and System Design Advanced Techniques provides perspectives on radio frequency circuit and systems design covering recent topics and developments in the RF area Exploring topics such as LNA linearization behavioral modeling and co simulation of analog and mixed signal complex blocks for RF applications integrated passive devices for RF ICs and baseband design techniques and wireless standards this is a comprehensive reference for students as

well as practicing professionals **CMOS Single Chip Fast Frequency Hopping Synthesizers for Wireless Multi-Gigahertz Applications** Taoufik Bourdi,Izzet Kale,2007-03-06 In this book the authors outline detailed design methodology for fast frequency hopping synthesizers for RF and wireless communications applications There is great emphasis on fractional N delta sigma based phase locked loops from specifications system analysis and architecture planning to circuit design and silicon implementation The developed techniques in the book can help in designing very low noise high speed fractional N frequency synthesizers *Adaptive Multi-Standard RF Front-Ends* Vojkan Vidojkovic,J. van der Tang,Arjan Leeuwenburgh,Arthur H.M. van Roermund,2008-02-07 N this information era people are living in a society in which processing ow and Iexchange of information are vital for their existence Two major issues in such so ety which are related to ow and exchange of information are connectivity and mobility On one hand computers and Internet provide connectivity and allow communication as well as fast access to large amounts of information On the other hand wireless techno gies bring mobility People can move and still be able to communicate and have access to various kind of information Therefore the functioning of an information society is unthinkable without the use of computers Internet and wireless technologies The exp tations are that in the future they will merge into a unique system for communication access to information as well as their exchange and processing The era of wireless communications started in 1901 when Guglielmo Marconi s cessfully transmitted radio signals across the Atlantic Ocean From that moment up to now wireless communications experienced explosive growth and became the fastest growing eld in the engineering world Pushed by customer requirements new wireless techno gies have been emerging very fast Each new generation of wireless technologies have brought new features and more complexity Pushed by market forces to reduce costs the semiconductor industry has provided new technologies for solid state circuits implem tation Fortunately at the same time with the cost reduction performance of new te nologies has been improving **Recent Developments in the Field of IR Detectors** ,2025-08-01 Recent Developments in the Field of IR Detectors Volume 118 in the Semiconductors and Semimetals series highlights new advances in the field with this new volume presenting interesting chapters including Type II superlattice unipolar barrier infrared detectors Fabrication and characterization of Ga free T2SL structure for high performance infrared photodetector Extracting Material and Structural Properties from Conventional Test Data of III V Superlattice Detectors Antimony based Type II superlattice infrared detectors Focal Plane Arrays Near room temperature InAsSb based infrared photodetectors and more Other sections cover Interband cascade infrared Photodetectorsand Engineering of Superlattice Based Avalanche Photodiodes Provides the latest information on Recent Developments in the Field of IR Detectors research Offers outstanding and original reviews on a range of Recent Developments in the Field of IR Detectors research topics Serves as an indispensable reference for researchers and students alike **Low-Voltage Low-Power Analog Integrated Circuits** Wouter A. Serdijn,2012-12-06 Low Voltage Low Power Analog Integrated Circuits brings together in one place important contributions and state of the art research results in

this rapidly advancing area Low Voltage Low Power Analog Integrated Circuits serves as an excellent reference providing insight into some of the most important issues in the field **CMOS Multichannel Single-Chip Receivers for Multi-Gigabit Optical Data Communications** Paul Muller,Yusuf Leblebici,2007-10-29 In the world of optical data communications this book will be an absolute must read It focuses on optical communications for short and very short distance applications and discusses the monolithic integration of optical receivers with processing elements in standard CMOS technologies What s more it provides the reader with the necessary background knowledge to fully understand the trade offs in short distance communication receiver design and presents the key issues to be addressed in the development of such receivers in CMOS technologies Moreover novel design approaches are presented **Broadband Opto-Electrical Receivers in Standard CMOS** Carolien Hermans,Michiel Steyaert,2007-06-13 Broadband Opto Electrical Receivers in Standard CMOS starts from the basic fundamentals necessary for the design of opto electronic interface circuits The book continues with an in depth analysis of the photodiode transimpedance amplifier TIA and limiting amplifier LA To thoroughly understand the light detection mechanisms in silicon first a one dimensional and second a two dimensional model is developed Analytical design equations are derived to guide the design of the amplifying circuits For the TIA the focus is on the sensitivity speed trade off For the LA a high gain bandwidth is pursued Several practical design examples reveal the subtleties and challenges encountered during the design of high performance analog circuits Broadband Opto Electrical Receivers in Standard CMOS covers the total design flow of monolithic CMOS optical receivers All material is experimentally verified with several CMOS implementations with ultimately a fully integrated Gbit s optical receiver front end including photodiode TIA and LA *Design of High Voltage xDSL Line Drivers in Standard CMOS* Bert Serneels,Michiel Steyaert,2008-01-08 Design of high voltage xDSL line drivers in standard CMOS fits in the quest for highly efficient fully integrated xDSL modems for central office applications The book focusses on the line driver the most demanding building block of the xDSL modem for lowering power To reduce the cost the cheapest technology is selected standard CMOS without any extra process options to increase the nominal supply voltage The emphasis lies on the analysis design and implementation of high voltage highly efficient line drivers in mainstream CMOS Design of high voltage xDSL line drivers in standard CMOS covers the total design flow of monolithic CMOS high voltage circuits The book is essential reading for analog design engineers and researchers in the field and is also suitable as a text book for an advanced course on the subject

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