

High-Frequency Analog Integrated Circuit Design

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High Frequency Analog Integrated Circuit Design

Samar K. Saha



High Frequency Analog Integrated Circuit Design:

High Frequency Analog Integrated Circuit Design R. Goyal, *Fundamentals of High Frequency CMOS Analog Integrated Circuits* Duran Leblebici, Yusuf Leblebici, 2022-03-25 This textbook is ideal for senior undergraduate and graduate courses in RF CMOS circuits RF circuit design and high frequency analog circuit design It is aimed at electronics engineering students and IC design engineers in the field wishing to gain a deeper understanding of circuit fundamentals and to go beyond the widely used automated design procedures The authors employ a design centric approach in order to bridge the gap between fundamental analog electronic circuits textbooks and more advanced RF IC design texts The structure and operation of the building blocks of high frequency ICs are introduced in a systematic manner with an emphasis on transistor level operation the influence of device characteristics and parasitic effects and input output behavior in the time and frequency domains This second edition has been revised extensively to expand some of the key topics to clarify the explanations and to provide extensive design examples and problems New material has been added for basic coverage of core topics such as wide band LNAs noise feedback concept and noise cancellation inductive compensated band widening techniques for flat gain or flat delay characteristics and basic communication system concepts that exploit the convergence and co existence of Analog and Digital building blocks in RF systems A new chapter Chapter 5 has been added on Noise and Linearity addressing key topics in a comprehensive manner All of the other chapters have also been revised and largely re written with the addition of numerous solved design examples and exercise problems

Radio Frequency Integrated Circuit Design John W. M. Rogers, Calvin Plett, 2010 This newly revised and expanded edition of the 2003 Artech House classic Radio Frequency Integrated Circuit Design serves as an up to date practical reference for complete RFIC know how The second edition includes numerous updates including greater coverage of CMOS PA design RFIC design with on chip components and more worked examples with simulation results By emphasizing working designs this book practically transports you into the authors own RFIC lab so you can fully understand the function of each design detailed in this book Among the RFIC designs examined are RF integrated LC based filters VCO automatic amplitude control loops and fully integrated transformer based circuits as well as image reject mixers and power amplifiers If you are new to RFIC design you can benefit from the introduction to basic theory so you can quickly come up to speed on how RFICs perform and work together in a communications device A thorough examination of RFIC technology guides you in knowing when RFICs are the right choice for designing a communication device This leading edge resource is packed with over 1 000 equations and more than 435 illustrations that support key topics

High-Frequency Analog Integrated Circuit Design Ravender Goyal, 1995 Offering comprehensive coverage of state of the art GaAs MESFET technology and design techniques for analog ICs this book features detailed step by step guidance on everything from basic concepts such as biasing network current source current mirrors and differential circuits to more complex designs such as amplifiers mixers oscillators and operational

amplifier designs and finally high level functions such as A/D and D/A converters and their implementation in GaAs technology

Fundamentals of High Frequency CMOS Analog Integrated Circuits Duran Leblebici, Yusuf Leblebici, 2021-03-10 This textbook is ideal for senior undergraduate and graduate courses in RF CMOS circuits RF circuit design and high frequency analog circuit design It is aimed at electronics engineering students and IC design engineers in the field wishing to gain a deeper understanding of circuit fundamentals and to go beyond the widely used automated design procedures The authors employ a design centric approach in order to bridge the gap between fundamental analog electronic circuits textbooks and more advanced RF IC design texts The structure and operation of the building blocks of high frequency ICs are introduced in a systematic manner with an emphasis on transistor level operation the influence of device characteristics and parasitic effects and input output behavior in the time and frequency domains This second edition has been revised extensively to expand some of the key topics to clarify the explanations and to provide extensive design examples and problems New material has been added for basic coverage of core topics such as wide band LNAs noise feedback concept and noise cancellation inductive compensated band widening techniques for flat gain or flat delay characteristics and basic communication system concepts that exploit the convergence and co existence of Analog and Digital building blocks in RF systems A new chapter Chapter 5 has been added on Noise and Linearity addressing key topics in a comprehensive manner All of the other chapters have also been revised and largely re written with the addition of numerous solved design examples and exercise problems

Automated Design of Analog and High-frequency Circuits Bo Liu, Georges Gielen, Francisco V. Fernández, 2013-08-16 Computational intelligence techniques are becoming more and more important for automated problem solving nowadays Due to the growing complexity of industrial applications and the increasingly tight time to market requirements the time available for thorough problem analysis and development of tailored solution methods is decreasing There is no doubt that this trend will continue in the foreseeable future Hence it is not surprising that robust and general automated problem solving methods with satisfactory performance are needed

CMOS Analog Integrated Circuits Tertulien Ndjountche, 2019-12-17 High speed power efficient analog integrated circuits can be used as standalone devices or to interface modern digital signal processors and micro controllers in various applications including multimedia communication instrumentation and control systems New architectures and low device geometry of complementary metaloxide semiconductor CMOS technologies have accelerated the movement toward system on a chip design which merges analog circuits with digital and radio frequency components

Bipolar and MOS Analog Integrated Circuit Design Alan B. Grebene, 2002-11-21 A practical engineering book discussing the most modern and general techniques for designing analog integrated circuits which are not digital excluding computer circuits Covers the basics of the devices manufacturing technology design procedures shortcuts and analytic techniques Includes examples and illustrations of the best current practice

Analysis and Design of Analog Integrated Circuits Paul R. Gray, Paul J. Hurst, Stephen H. Lewis, Robert G.

Meyer,2024-01-04 ANALYSIS AND DESIGN OF ANALOG INTEGRATED CIRCUITS Authoritative and comprehensive textbook on the fundamentals of analog integrated circuits with learning aids included throughout Written in an accessible style to ensure complex content can be appreciated by both students and professionals this Sixth Edition of Analysis and Design of Analog Integrated Circuits is a highly comprehensive textbook on analog design offering in depth coverage of the fundamentals of circuits in a single volume To aid in reader comprehension and retention supplementary material includes end of chapter problems plus a Solution Manual for instructors In addition to the well established concepts this Sixth Edition introduces a new super source follower circuit and its large signal behavior frequency response stability and noise properties New material also introduces replica biasing describes and analyzes two op amps with replica biasing and provides coverage of weighted zero value time constants as a method to estimate the location of dominant zeros pole zero doublets including their effect on settling time and three examples of circuits that create doublets the effect of feedback on pole zero doublets and MOS transistor noise performance including a thorough treatment on thermally induced gate noise Providing complete coverage of the subject Analysis and Design of Analog Integrated Circuits serves as a valuable reference for readers from many different types of backgrounds including senior undergraduates and first year graduate students in electrical and computer engineering along with analog integrated circuit designers

Analog Integrated Circuit Design Tony Chan Carusone,David Johns,Kenneth Martin,2011-12-13 When first published in 1996 this text by David Johns and Kenneth Martin quickly became a leading textbook for the advanced course on Analog IC Design This new edition has been thoroughly revised and updated by Tony Chan Carusone a University of Toronto colleague of Drs Johns and Martin Dr Chan Carusone is a specialist in analog and digital IC design in communications and signal processing This edition features extensive new material on CMOS IC device modeling processing and layout Coverage has been added on several types of circuits that have increased in importance in the past decade such as generalized integer N phase locked loops and their phase noise analysis voltage regulators and 1.5b per stage pipelined A/D converters Two new chapters have been added to make the book more accessible to beginners in the field frequency response of analog ICs and basic theory of feedback amplifiers

Compact Models for Integrated Circuit Design Samar K. Saha,2018-09-03 Compact Models for Integrated Circuit Design Conventional Transistors and Beyond provides a modern treatise on compact models for circuit computer aided design CAD Written by an author with more than 25 years of industry experience in semiconductor processes devices and circuit CAD and more than 10 years of academic experience in teaching compact modeling courses this first of its kind book on compact SPICE models for very large scale integrated VLSI chip design offers a balanced presentation of compact modeling crucial for addressing current modeling challenges and understanding new models for emerging devices Starting from basic semiconductor physics and covering state of the art device regimes from conventional micron to nanometer this text Presents industry standard models for bipolar junction transistors BJTs metal oxide semiconductor MOS field effect transistors FETs

FinFETs and tunnel field effect transistors TFETs along with statistical MOS models Discusses the major issue of process variability which severely impacts device and circuit performance in advanced technologies and requires statistical compact models Promotes further research of the evolution and development of compact models for VLSI circuit design and analysis Supplies fundamental and practical knowledge necessary for efficient integrated circuit IC design using nanoscale devices Includes exercise problems at the end of each chapter and extensive references at the end of the book Compact Models for Integrated Circuit Design Conventional Transistors and Beyond is intended for senior undergraduate and graduate courses in electrical and electronics engineering as well as for researchers and practitioners working in the area of electron devices However even those unfamiliar with semiconductor physics gain a solid grasp of compact modeling concepts from this book

Design Of High-speed Communication Circuits Ramesh Harjani, 2006-01-17 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

Mixed Design of Integrated Circuits and Systems

Andrzej Napieralski, Zygmunt Ciota, Augustin Martinez, Gilbert De Mey, Joan Cabestany, 2012-12-06 Very fast advances in IC technologies have brought new challenges into the physical design of integrated systems The emphasis on system performance in lately developed applications requires timing and power constraints to be considered at each stage of physical design The size of ICs is decreasing continuously and the density of power dissipated in the circuits is growing rapidly The first challenge is the Information Technology where new materials devices telecommunication and multimedia facilities are developed The second one is the Biomedical Science and Biotechnology The utilisation of bloodless surgery is possible now because of wide micro sensors and micro actuators application Nowadays the modern micro systems can be implanted directly into the human body and the medicine can be applied right in the proper time and place in the patient body The low power devices are being developed particularly for medical and space applications This has created for designers in all scientific domains new possibilities which must be handed down to the future generations of designers In this spirit we organised the Fourth International Workshop MIXED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS in order

to provide an international forum for discussion and the exchange of information on education teaching experiences training and technology transfer in the area of microelectronics and microsystems *Diode Lasers and Photonic Integrated Circuits* Larry A. Coldren, Scott W. Corzine, Milan L. Mashanovitch, 2012-03-02 Diode Lasers and Photonic Integrated Circuits Second Edition provides a comprehensive treatment of optical communication technology its principles and theory treating students as well as experienced engineers to an in depth exploration of this field Diode lasers are still of significant importance in the areas of optical communication storage and sensing Using the the same well received theoretical foundations of the first edition the Second Edition now introduces timely updates in the technology and in focus of the book After 15 years of development in the field this book will offer brand new and updated material on GaN based and quantum dot lasers photonic IC technology detectors modulators and SOAs DVDs and storage eye diagrams and BER concepts and DFB lasers Appendices will also be expanded to include quantum dot issues and more on the relation between spontaneous emission and gain

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 **Analog Circuit Design** Bob Dobkin, Jim Williams, 2011-09-26 Analog circuit and system design today is more essential than ever before With the growth of digital systems wireless communications complex industrial and automotive systems designers are challenged to develop sophisticated analog solutions This comprehensive source book of circuit design solutions will aid systems designers with elegant and practical design techniques that focus on common circuit design challenges The book s in depth application examples provide insight into circuit design and application solutions that you can apply in today s demanding designs Covers the fundamentals of linear analog circuit and system design to guide engineers with their design challenges Based on the Application Notes of Linear Technology the foremost designer of high performance analog products readers will gain practical insights into design techniques and practice Broad range of topics including power management tutorials switching regulator design linear regulator design data conversion signal conditioning and high frequency RF design Contributors include the leading lights in analog design Robert Dobkin Jim Williams and Carl Nelson among others **Selected Semiconductor Research** Ming-Fu Li, 2011 This book on solid state physics has been written with an emphasis on recent developments in quantum many body physics approaches It starts by covering the classical theory of solids and electrons and describes how this classical model has failed The authors then present the quantum mechanical model of electrons in a lattice and they also discuss the theory of conductivity Extensive reviews on the topic are provided in a compact manner so that any non specialist can follow from the beginning The authors cover the system of magnetism in a similar way and various problems in magnetic materials are discussed The book also discusses the Ising chain the Heisenberg model the Kondo effect and superconductivity amongst

other relevant topics In the final chapter the authors present some works related to contemporary research topics such as quantum entanglement in many body systems and quantum simulations They also include a short review of some of the possible applications of solid state quantum information in biological systems

CMOS Analog and Mixed-Signal Circuit Design Arjuna Marzuki, 2020-05-12 The purpose of this book is to provide a complete working knowledge of the Complementary Metal Oxide Semiconductor CMOS analog and mixed signal circuit design which can be applied for System on Chip SOC or Application Specific Standard Product ASSP development It begins with an introduction to the CMOS analog and mixed signal circuit design with further coverage of basic devices such as the Metal Oxide Semiconductor Field Effect Transistor MOSFET with both long and short channel operations photo devices fitting ratio etc Seven chapters focus on the CMOS analog and mixed signal circuit design of amplifiers low power amplifiers voltage regulator reference data converters dynamic analog circuits color and image sensors and peripheral oscillators and Input Output I O circuits and Integrated Circuit IC layout and packaging Features Provides practical knowledge of CMOS analog and mixed signal circuit design Includes recent research in CMOS color and image sensor technology Discusses sub blocks of typical analog and mixed signal IC products Illustrates several design examples of analog circuits together with layout Describes integrating based CMOS color circuit

Practical Analog and RF Electronics Daniel B. Talbot, 2020-09-23 This is a book about real world design techniques for analog circuits amplifiers filters injection locked oscillators phase locked loops transimpedance amplifiers group delay correction circuits notch filters and spectrum regrowth in digital radio frequency RF transmitters etc The book offers practical solutions to analog and RF problems helping the reader to achieve high performance circuit and system design A variety of issues are covered such as How to flatten group delay of filters How to use reciprocity to advantage How to neutralize a parasitic capacitance How to deepen a notch by adding only two components to the network How to demodulate a signal using the secant waveform and its benefit How to flatten the frequency response of a diode detector When to use a transimpedance amplifier and how to maximize its performance How to recover non return to zero NRZ data when alternating current AC coupling is required Why phase noise corrupts adjacent communication channels Simple method to prevent false locking in phase locked loops How to improve the bandwidth of amplification by using current conveyors A very simple impedance matching technique requiring only one reactive component How to use optimization Quadrature distortion and cross rail interference This book is meant to be a handbook or a supplemental textbook for students and practitioners in the design of analog and RF circuitry with primary emphasis on practical albeit sometimes unorthodox circuit realizations Equations and behavioral simulations result in an abundance of illustrations following a words and pictures easy to understand approach Teachers will find the book an important supplement to a standard analog and RF course or it may stand alone as a textbook Working engineers may find it useful as a handbook by bookmarking some of the step by step procedures e g the section on simplified impedance matching or group delay flattening

Design of Low-Voltage Low-Power CMOS Delta-Sigma A/D Converters Vincenzo Peluso, Michiel Steyaert, Willy M.C.

Sansen, 2013-03-09 Design of Low Voltage Low Power CMOS Delta Sigma A D Converters investigates the feasibility of designing Delta Sigma Analog to Digital Converters for very low supply voltage lower than 1.5V and low power operation in standard CMOS processes. The chosen technique of implementation is the Switched Opamp Technique which provides Switched Capacitor operation at low supply voltage without the need to apply voltage multipliers or low V_t MOST devices. A method of implementing the classic single loop and cascaded Delta Sigma modulator topologies with half delay integrators is presented. Those topologies are studied in order to find the parameters that maximise the performance in terms of peak SNR. Based on a linear model, the performance degradations of higher order single loop and cascaded modulators compared to a hypothetical ideal modulator are quantified. An overview of low voltage Switched Capacitor design techniques such as the use of voltage multipliers, low V_t MOST devices and the Switched Opamp Technique is given. An in depth discussion of the present status of the Switched Opamp Technique covers the single ended Original Switched Opamp Technique, the Modified Switched Opamp Technique which allows lower supply voltage operation and differential implementation including common mode control techniques. The restrictions imposed on the analog circuits by low supply voltage operation are investigated. Several low voltage circuit building blocks, some of which are new, are discussed. A new low voltage class AB OTA especially suited for differential Switched Opamp applications together with a common mode feedback amplifier and a comparator are presented and analyzed. As part of a systematic top down design approach, the non ideal charge transfer of the Switched Opamp integrator cell is modeled based upon several models of the main opamp non ideal characteristics. Behavioral simulations carried out with these models yield the required opamp specifications that ensure that the intended performance is met in an implementation. A power consumption analysis is performed. The influence of all design parameters, especially the low power supply voltage, is highlighted. Design guidelines towards low power operation are distilled. Two implementations are presented together with measurement results. The first one is a single ended implementation of a Delta Sigma ADC operating with 1.5V supply voltage and consuming 100 μ W for a 74 dB dynamic range in a 3.4 kHz bandwidth. The second implementation is differential and operates with 900 mV. It achieves 77 dB dynamic range in 16 kHz bandwidth and consumes 40 μ W. Design of Low Voltage Low Power CMOS Delta Sigma A D Converters is essential reading for analog design engineers and researchers.

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High Frequency Analog Integrated Circuit Design Introduction

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