ANALYSIS AND SYNTHESIS OF MOS TRANSLINEAR CIRCUITS

Remco J. Wiegerink

foreword by Evert Seevinck

Analysis And Synthesis Of Mos Translinear Circuits

Remco Wiegerink

Analysis And Synthesis Of Mos Translinear Circuits:

Analysis and Synthesis of MOS Translinear Circuits Remco Wiegerink, 2012-09-30 This book has its roots in an idea first formulated by Barrie Gilbert in 1975 He showed how bipolar analog circuits can realize nonlinear and computational functions This extended the analog art from linear to nonlinear applications hence the name trans linear circuits Not only did this new principle enable marvellous signal processing functions to be accurately implemented but also the circuits were simple and practical The perennial problems of analog Ie design namely temperature sensitivity processing spread device nonlinearity and paracitic capacitance were solved to a large extent Using the trans linear principle in circuit design requires changing your point of view in two ways First the grossly nonlinear characteristic of transistors is viewed as an asset rather than as a harmful property Second no longer are the signals represented by voltages but by currents In fact the attendant voltage changes are distorted but as they are very small they are only of secondary interest Understanding and analyzing a given trans linear circuit is fairly straightforward But what about the converse situation suppose you re given some nonlinear or computational function to implement How to find a suitable translinear circuit realization. The general problem of analog circuit synthesis is a difficult one and is receiving much attention nowadays Some years ago I had the opportunity to investigate methods for designing bipolar trans linear circuits It turned out that translinear networks have some unique topological properties Using these properties it was possible to establish heuristic synthesis procedures Synthesis of MOS Translinear Circuits Remco John Wiegerink, 1992 Circuits and Systems Tutorials Chris Toumazou, Nick Battersby, Sonia Porta, 1995-12-11 Available for the first time in paperback this ground breaking industry textbook is heralded as a first in its state of the art coverage of the most important areas emerging in circuits and systems It is compiled from course material used in a suite of one day tutorials on circuits and systems designed expressly for engineers and research scientists who want to explore subjects outside but related to their immediate fields Authored by 50 circuits and systems experts this volume fosters a fundamental and authoritative understanding of each subject The Circuits and Filters Handbook (Five Volume Slipcase Set) Wai-Kai Chen, 2018-12-14 Standard setting groundbreaking authoritative comprehensive these often overused words perfectly describe The Circuits and Filters Handbook Third Edition This standard setting resource has documented the momentous changes that have occurred in the field of electrical engineering providing the most comprehensive coverage available More than 150 contributing experts offer in depth insights and enlightened perspectives into standard practices and effective techniques that will make this set the first and most likely the only tool you select to help you with problem solving In its third edition this groundbreaking bestseller surveys accomplishments in the field providing researchers and designers with the comprehensive detail they need to optimize research and design All five volumes include valuable information on the emerging fields of circuits and filters both analog and digital Coverage includes key mathematical formulas concepts definitions and derivatives that must be mastered to perform cutting edge research and

design The handbook avoids extensively detailed theory and instead concentrates on professional applications with numerous examples provided throughout The set includes more than 2500 illustrations and hundreds of references Available as a comprehensive five volume set each of the subject specific volumes can also be purchased separately Analysis of Analog Integrated Circuits Piet Wambacq, Willy M.C. Sansen, 2013-04-17 The analysis and prediction of nonlinear behavior in electronic circuits has long been a topic of concern for analog circuit designers. The recent explosion of interest in portable electronics such as cellular telephones cordless telephones and other applications has served to reinforce the importance of these issues The need now often arises to predict and optimize the distortion performance of diverse electronic circuit configurations operating in the gigahertz frequency range where nonlinear reactive effects often dominate However there have historically been few sources available from which design engineers could obtain information on analysis tech nigues suitable for tackling these important problems I am sure that the analog circuit design community will thus welcome this work by Dr Wambacq and Professor Sansen as a major contribution to the analog circuit design literature in the area of distortion analysis of electronic circuits I am personally looking forward to having a copy readily available for reference when designing integrated circuits for communication systems Dynamic Translinear and Log-Domain Circuits Jan Mulder, 1998-10-31 Dynamic Translinear and Log Domain Circuits Analysis and Synthesis covers both the analysis and synthesis of translinear circuits The theory is presented using one unifying framework for both static and dynamic translinear networks which is based on a current mode approach General analysis methods are presented including the large signal and non stationary analysis of noise A well structured synthesis method is described greatly enhancing the designability of log domain and translinear circuits Comparisons are made with respect to alternative analysis and synthesis methods presented in the literature The theory is illustrated and verified by various examples and realizations **Analog VLSI** Shih-Chii Liu,2002 An introduction to the design of analog VLSI circuits Neuromorphic engineers work to improve the performance of artificial systems through the development of chips and systems that process information collectively using primarily analog circuits This book presents the central concepts required for the creative and successful design of analog VLSI circuits The discussion is weighted toward novel circuits that emulate natural signal processing Unlike most circuits in commercial or industrial applications these circuits operate mainly in the subthreshold or weak inversion region Moreover their functionality is not limited to linear operations but also encompasses many interesting nonlinear operations similar to those occurring in natural systems Topics include device physics linear and nonlinear circuit forms translinear circuits photodetectors floating gate devices noise analysis and process technology Feedback, Nonlinear, and Distributed Circuits Wai-Kai Chen, 2018-10-08 Upon its initial publication the Handbook of Circuits and Filters broke new ground It quickly became the resource for comprehensive coverage of issues and practical information that can be put to immediate use Not content to rest on his laurels editor Wai kai Chen divided the second edition into volumes making the information easily

accessible and digestible In the third edition these volumes have been revised updated and expanded so that they continue to provide solid coverage of standard practices and enlightened perspectives on new and emerging techniques Feedback Nonlinear and Distributed Circuits draws together international contributors who discuss feedback amplifier theory and then move on to explore feedback amplifier configurations They develop Bode's feedback theory as an example of general feedback theory The coverage then moves on to the importance of complementing numerical analysis with qualitative analysis to get a global picture of a circuit sperformance After reviewing a wide range of approximation techniques and circuit design styles for discreet and monolithic circuits the book presents a comprehensive description of the use of piecewise linear methods in modeling analysis and structural properties of nonlinear circuits highlighting the advantages It describes the circuit modeling in the frequency domain of uniform MTL based on the Telegrapher's equations and covers frequency and time domain experimental characterization techniques for uniform and nonuniform multiconductor structures This volume will undoubtedly take its place as the engineer's first choice in looking for solutions to problems encountered in the analysis and behavior predictions of circuits and filters

Scientific and Technical Aerospace Reports 1994

CMOS Current Amplifiers Giuseppe Palmisano, Gaetano Palumbo, Salvatore Pennisi, 2012-12-06 CMOS Current Amplifiers presents design strategies for high performance current amplifiers based on CMOS technology After an introduction to various architectures of operational amplifiers the operating principles of the current amplifier are outlined This book provides the reader with simple and compact design equations for use in a pencil and paper design and the following simulation step Chapter 1 introduces the general aspects of current amplifiers After a preliminary classification of operational amplifiers ideal blocks and models are discussed for different architectures and a first high level comparison is made between traditional amplifiers and current amplifiers Analysis and examples of basic circuits as well as signal processing applications involving current amplifiers are also given Non idealities and second order effects causing limitations in performance are then discussed and evaluated Chapter 2 focuses on low drive current amplifiers Several design examples for current conveyors and class A current amplifiers are discussed in detail and design equations are presented for the main performance parameters which allows a good trade off between requirements High performance solutions for high bandwidth and low voltage capability are also considered and finally current comparators with progressively enhanced performance are reported and analyzed critically Chapter 3 deals with current amplifiers for off chip loads Several class AB current mode output stages are discussed and design strategies which improve performance are presented A detailed analysis of non ideal effect is carried out with particular emphasis on linearity Design examples are given and circuit arrangements for further developments are included CMOS Current Amplifiers serves as an excellent reference for researchers and professionals of analog IC design and may also be used as an advanced text on current amplifiers

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