SYMBOLIC ANALYSIS IN ANALOG INTEGRATED CIRCUIT DESIGN

Symbolic Analysis In Analog Integrated Circuit Design

Luciano Lavagno,Louis Scheffer,Grant Martin

Symbolic Analysis In Analog Integrated Circuit Design:

   Symbolic Analysis in Analog Integrated Circuit Design Henrik Floberg,2012-12-06 Symbolic Analysis in Analog Integrated Circuit Design provides an introduction to computer aided circuit analysis and presents systematic methods for solving linear i e small signal and nonlinear circuit problems which are illustrated by concrete examples Computer aided symbolic circuit analysis is useful in analog integrated circuit design Analytic expressions for the network transfer functions contain information that is not provided by a numerical simulation result However these expressions are generally extremely long and difficult to interpret therefore it is necessary to be able to approximate them guided by the magnitude of the individual circuit parameters Engineering has been described as the art of making approximations The inclusion of symbolic analysis in analog circuit design reduces the implied risk of ambiguity during the approximation process A systematic method based on the nullor concept is used to obtain the basic feedback transistor amplifier configurations Approximate expressions for the locations of poles and zeros for linear networks are obtained using the extended pole splitting technique An unusual feature in Symbolic Analysis in Analog Integrated Circuit Design is the consistent use of the transadmittance element with finite linear or nonlinear or infinite i e nullor gain as the only requisite circuit element The describing function method is used to obtain approximate symbolic expressions for the harmonic distortion generated by a soft or hard transconductance nonlinearity embedded in an arbitrary linear network The design and implementation of a program i e CASCA for symbolic analysis of time continuous networks is described The algorithms can also be used to solve other linear problems e g the analysis of time discrete switched capacitor networks Symbolic Analysis in Analog Integrated Circuit Design serves as an excellent resource for students and researchers as well as for industry designers who want to familiarize themselves with circuit analysis This book may also be used for advanced courses on the subject   *Symbolic Analysis for Automated Design of Analog Integrated Circuits* Georges Gielen,Willy M.C. Sansen,2012-12-06 It is a great honor to provide a few words of introduction for Dr Georges Gielen s and Prof Willy Sansen s book Symbolic analysis for automated design of analog integrated circuits The symbolic analysis method presented in this book represents a significant step forward in the area of analog circuit design As demonstrated in this book symbolic analysis opens up new possibilities for the development of computer aided design CAD tools that can analyze an analog circuit topology and automatically size the components for a given set of specifications Symbolic analysis even has the potential to improve the training of young analog circuit designers and to guide more experienced designers through second order phenomena such as distortion This book can also serve as an excellent reference for researchers in the analog circuit design area and creators of CAD tools as it provides a comprehensive overview and comparison of various approaches for analog circuit design automation and an extensive bibliography The world is essentially analog in nature hence most electronic systems involve both analog and digital circuitry As the number of transistors that can be integrated on a single integrated circuit IC substrate steadily increases over time an

ever increasing number of systems will be implemented with one or a few very complex ICs because of their lower production costs   *Symbolic Analysis of Analog Circuits: Techniques and Applications* Lawrence P. Huelsman,Georges Gielen,2012-12-06 This book brings together important contributions and state of the art research results in the rapidly advancing area of symbolic analysis of analog circuits It is also of interest to those working in analog CAD The book is an excellent reference providing insights into some of the most important issues in the symbolic analysis of analog circuits   Design of Analog Circuits Through Symbolic Analysis Mourad Fakhfakh,Esteban Tlelo-Cuautle,Francisco V. Fernández,2012 Symbolic analyzers have the potential to offer knowledge to sophomores as well as practitioners of analog circuit design Actually they are an essential complement to numerical simulators since they provide insight into circuit behavior which numerical   **Computer-Aided Design of Analog Integrated Circuits and Systems** Rob A. Rutenbar,Georges G. E. Gielen,2002-05-06 The tools and techniques you need to break the analog design bottleneck Ten years ago analog seemed to be a dead end technology Today System on Chip SoC designs are increasingly mixed signal designs With the advent of application specific integrated circuits ASIC technologies that can integrate both analog and digital functions on a single chip analog has become more crucial than ever to the design process Today designers are moving beyond hand crafted one transistor at a time methods They are using new circuit and physical synthesis tools to design practical analog circuits new modeling and analysis tools to allow rapid exploration of system level alternatives and new simulation tools to provide accurate answers for analog circuit behaviors and interactions that were considered impossible to handle only a few years ago To give circuit designers and CAD professionals a better understanding of the history and the current state of the art in the field this volume collects in one place the essential set of analog CAD papers that form the foundation of today s new analog design automation tools Areas covered are Analog synthesis Symbolic analysis Analog layout Analog modeling and analysis Specialized analog simulation Circuit centering and yield optimization Circuit testing Computer Aided Design of Analog Integrated Circuits and Systems is the cutting edge reference that will be an invaluable resource for every semiconductor circuit designer and CAD professional who hopes to break the analog design bottleneck   **Symbolic Analysis Techniques** Francisco Fernández,1998 Electrical Engineering Symbolic Analysis Techniques Applications to Analog Design Automation Symbolic Analysis Techniques is a collection of original contributions from renowned experts in the field presenting the most recent and important applications of symbolic analysis to analog circuit design This timely self contained volume features an in depth tutorial introduction to the techniques and algorithms underlying modern symbolic analyzers and includes many references at the end of each chapter Applications are discussed in a variety of important fields Automatic generation of optimum circuit topologies Interactive circuit improvement and automated design space exploration Non fixed topology analog synthesis tools Semiconductor parameter extraction Analog testability and fault diagnosis And many more related areas Symbolic Analysis Techniques also features an extensive

comparison of modern symbolic analyzer characteristics and limitations Brimming with practical instructions on tasks like formula simplification and post processing this book will be of use and interest to graduate students researchers and engineers involved in computer aided circuits analysis and analog design automation *Design and Applications of Symbolic Analysis Tools for Analog Integrated Circuits* Francisco V. Fernández,José L. Huertas,Angel Rodríguez-Vázquez,1991 **Design of Analog Circuits Through Symbolic Analysis** Mourad Fakhfakh,Esteban Tlelo-Cuautle,Francisco V. Fernández,2012-08-13 Symbolic analyzers have the potential to offer knowledge to sophomores as well as practitioners of analog circuit design Actually they are an essential complement to numerical simulators since they provide insight into circuit behavior which numerical The Circuits and Filters Handbook Wai-Kai Chen,2002-12-23 A bestseller in its first edition The Circuits and Filters Handbook has been thoroughly updated to provide the most current most comprehensive information available in both the classical and emerging fields of circuits and filters both analog and digital This edition contains 29 new chapters with significant additions in the areas of computer **Fundamentals of Circuits and Filters** Wai-Kai Chen,2018-10-08 This volume drawn from the Circuits and Filters Handbook focuses on mathematics basics circuit elements devices and their models and linear circuit analysis It examines Laplace transformation Fourier methods for signal analysis and processing z transform and wavelet transforms It also explores network laws and theorems terminal and port represetnation analysis in the frequency domain and more *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 EDA for IC Implementation, Circuit Design, and Process Technology Luciano Lavagno,Louis Scheffer,Grant Martin,2018-10-03 Presenting a comprehensive overview of the design automation algorithms tools and methodologies used to design integrated circuits the Electronic Design Automation for Integrated Circuits Handbook is available in two volumes The second volume

EDA for IC Implementation Circuit Design and Process Technology thoroughly examines real time logic to GDSII a file format used to transfer data of semiconductor physical layout analog mixed signal design physical verification and technology CAD TCAD Chapters contributed by leading experts authoritatively discuss design for manufacturability at the nanoscale power supply network design and analysis design modeling and much more Save on the complete set   *Design of Analog Integrated Circuits and Systems* Kenneth R. Laker,Willy M. C. Sansen,1994 It follows with a thorough treatment of design operational and operational transconductance amplifiers and concludes with a unified presentation of sample data and continuous time signal processing systems   Behavioral Modeling and Simulation of Analog Circuits Junjie Yang,2005   1991 IEEE International Symposium on Circuits and Systems ,1991   Advanced Symbolic Analysis for VLSI Systems Guoyong Shi,Sheldon X.-D. Tan,Esteban Tlelo Cuautle,2014-06-19 This book provides comprehensive coverage of the recent advances in symbolic analysis techniques for design automation of nanometer VLSI systems The presentation is organized in parts of fundamentals basic implementation methods and applications for VLSI design Topics emphasized include statistical timing and crosstalk analysis statistical and parallel analysis performance bound analysis and behavioral modeling for analog integrated circuits Among the recent advances the Binary Decision Diagram BDD based approaches are studied in depth The BDD based hierarchical symbolic analysis approaches have essentially broken the analog circuit size barrier   Digest of Technical Papers ,2001   *Analog Circuits* Esteban Tlelo-Cuautle,Mourad Fakhfakh,Luis Gerardo de la Fraga,2017 This book includes recent research that focuses on analog integrated circuits and covers three main topics namely fundamentals synthesis and performance Eleven chapters are divided among these three topics as follows Chapters One to Four are a part of fundamentals The first chapter The Next Generation of Nanomaterials for Designing Analog Integrated Circuits describes new directions for applying nanomaterials for the design of modern analog circuits Chapter Two Application of Nullors in Designing Analog Circuits for Frequency Bandwidth uses the pathological circuit element known as a nullor to design analog integrated circuits with frequency specifications to accomplish a desired bandwidth Chapter Three RC and RL to LC Circuit Conversion and its Application in Poles and Zeros Identification details an important property from circuit theory to estimate roots by performing conversions of passive elements Chapter Four Enhanced and Improved Symbolic Circuit Analysis Using MATLAB relays the development of symbolic circuit analysis and focuses on enhancing an already developed symbolic tool to allow the symbolic analysis of large circuits The synthesis of analog integrated circuits has been a challenge because there is no way to establish general rules to cover the gap between the behavioral and transistor circuit levels of abstraction In this book the second topic includes four chapters from Five to Eight Chapter Five On the Synthesis of Sinusoidal Oscillators Using Nullors just as in Chapter Two uses the pathological circuit element known as a nullor to perform the synthesis of sinusoidal oscillators which are quite useful in many electronic systems Other kinds of oscillators are described in Chapter Six Synthesis of SRCOs and Multi Phase Oscillators from State Variables to their Implementation Using CMOS IC Technology

where the synthesis process identifies the resistor that controls the oscillating frequency and applies a state variable approach Chapter Seven Evolutionary Optimisation in the Design of CMOS Analog Integrated Circuits shows the application of heuristics for circuit optimisation and how it can be extended to bigger analog integrated circuits Chapter Eight provides details on the synthesis and design of a CMOS harmonic mixer with output power management for narrowband and wideband wireless communications the Bluetooth and UWB cases The third part of this book is devoted to analog circuit performances and includes three chapters Chapter Nine details the FPGA realisation of radio frequency RF power amplifier models In this case the system is modeled in the analog domain and implemented in the digital one Chapter Ten White Box Models of Optimal Sized Solutions of Analog Integrated Circuits generates analytical expressions for modeling the dominant behavior of CMOS analog circuits Finally Chapter Eleven Radial Basis Function Surrogate Modeling for the Accurate Design of Analog Circuits applies modern modeling approaches to accomplish real target specifications and to improve the design of reliable circuits **Symbolic Design and Optimization Techniques for Analog Integrated Circuits** Siddharth Seth,2013 An analog circuit design problem typically has many acceptable solutions However within the very broad design space there will usually exist one optimal design that minimizes or maximizes one of the objectives given a constraint on the other metrics The rising complexity of the circuits and the absence of closed form expressions for certain metrics like total integrated noise have led to a SPICE simulation based numerical approach to analog circuit design and optimization which is very slow for circuits comprising more than a handful of transistors The research presented in this dissertation focuses on symbolic design and optimization techniques for analog integrated circuits These techniques are based on computer optimization programs that use closed form symbolic expressions for all relevant performance metrics of the analog circuit bypassing the need to interface with a circuit simulator In the first part of this work we deal with the problem of computing total integrated noise in an analog circuit We demonstrate a technique to compute the total integrated noise by visual inspection in linear passive networks and then extend the technique to show how one can symbolically integrate a general noise transfer function of any order to get closed form expressions for total integrated noise Such expressions were not readily available and had prevented the adoption of symbolic analysis in the design and optimization of noise limited analog circuits Compared to previously known methods this technique is efficient in terms of computation cycles and memory requirement and provides the answer in a single step We next present three proof of concept examples that illustrate how symbolic analysis can be applied to the design and optimization of representative analog blocks The presented techniques are general and taken together can help provide a circuit designer with the best design find sensitivities to circuit parameters and enable rapid design portability to different sets of specification or process corners In the first example we present a nested Miller compensated three stage operational transconductance amplifier for use in high speed switched capacitor circuits Simulation results show that the 90 nm prototype amplifier achieves a 0 1 % dynamic error settling time of 2 53 ns

with a total integrated noise of 240 micro Vrms while consuming 5 2 mW from a 1 V power supply In the second example we present the design and optimization of continuous time active RC and gm C low pass filters Starting from a given LC ladder filter realization we develop a systematic method of choosing the right optimization variables and using signal flow graph manipulations to convert a given LC ladder filter realization into the final analog circuit This is done in such a way that the symbolic expressions for noise power and area turn out to be posynomial functions enabling the formulation of the design and optimization problem as a geometric program GP that can be quickly solved to get the globally optimal solution One of the limitations in such filters is the problem of device mismatch and variability As a solution critical components like transconductors resistors and capacitors are usually chosen to be integer multiples of each other We add such practical constraints to the optimization problem and branch and bound techniques are used to solve the resulting mixed integer GP MIGP Finally in the third example we present the analysis design and measurement results of a low noise low power series resonant MEMS oscillator at 20 MHz that consists of a high Q differential resonator wire bonded to a high gain CMOS transimpedance amplifier TIA Symbolic analysis is used to evaluate the impact of TIA bandwidth on the oscillator frequency and phase noise and accordingly a suitable topology is chosen and optimized Measurement results show that the designed oscillator compares favorably to the state of the art in terms of its circuit design figure of merit **Revue roumaine des sciences techniques** ,2000

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