## SYMBOLIC ANALYSIS IN ANALOG INTEGRATED CIRCUIT DESIGN

# **Symbolic Analysis In Analog Integrated Circuit Design**

Michiel Steyaert, Arthur H.M. van Roermund, Johan Huijsing

### **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 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 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 Distortion 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 niques 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 **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 Analog Circuit Design Michiel Steyaert, Arthur H.M. van Roermund, Johan Huijsing, 2006-03-14 Analog Circuit Design contains the contribution of 18 tutorials of the 14th workshop on Advances in Analog Circuit Design Each part discusses a specific todate topic on new and valuable design ideas in the area of analog circuit design Each part is presented by six experts in that field and state of the art information is shared and overviewed This book is number 14 in this successful series of Analog Circuit Design providing valuable information and excellent overviews of analog circuit design CAD and RF systems Analog Circuit Design is an essential reference source for analog circuit designers and researchers wishing to keep abreast with the latest development in the field The tutorial coverage also makes it suitable for use in an advanced design course **Design and Applications of Symbolic Analysis** Tools for Analog Integrated Circuits Francisco V. Fernández, José L. Huertas, Angel Rodríguez-Vázguez, 1991

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