

Analog Behavioral Modeling and Mixed-Mode Simulation with SABER and Verilog

A description is given of specific analog behavioral modeling and mixed-mode simulation techniques using SABER and Verilog. Full-channel simulations have been carried out on a class I partial response maximum likelihood (PRML) read/write channel chip. Complex analog circuits such as an adaptive feed-forward equalizer, an automatic gain control block, and a phase-locked loop are modeled in detail with the SABER MAST mixed-signal behavioral modeling language. A simulation speedup of two orders of magnitude has been achieved compared to SPICE.

by Ben B. Sheng, Hugh S.C. Wallace, and James S. Ignowski

For more than two decades, the analog IC design community has been relying on variations of the original Berkeley SPICE, introduced in the 1970s, as the simulation tool for verifying and fine-tuning analog designs. Over the years, many enhancements have been put into these different flavors of SPICE, while increasingly more powerful computers have been used for running these circuit simulations. However, SPICE remains a low-level circuit simulator. It produces accurate results, but is inherently slow. Today's analog and mixed-mode designs are becoming increasingly complex. Functional simulations for larger mixed-signal designs are impractical with SPICE. Meanwhile, as the pressure increases for low-cost, high-integration ASICs ("systems on a chip"), many analog functions are being integrated into largely digital chips. The need for new simulation methodologies is becoming more urgent.

In recent years, benefits from using analog and mixed-mode behavioral modeling languages have received increased recognition. The basic approach is to use a SPICE-like continuous-time simulator, which provides good accuracy in simulations, together with a fast digital simulator to give orders of magnitude faster digital circuit simulations. The modeling language is flexible so that designers can model analog subsystems in different levels of abstraction. The modeling language gives designers control over the trade-off between simulation speed and accuracy.

This paper presents some of the bottom-up modeling techniques and simulation approaches that have been adopted during the process of modeling and simulating the read-write channel chip for an HP DDS-3 DAT drive.

Analog Behavioral Modeling

The idea of behavioral modeling is not new to analog designers. Macro models have been widely used by SPICE users. The newer-generation mixed-mode circuit simulators, such as SABER by Analog, Inc., and SPECTRE by Cadence Design Systems, Inc., have greatly enhanced designers' ability to model analog and mixed-mode circuits and systems by providing a flexible behavioral modeling language. With this modeling language, a designer can behaviorally describe an analog or mixed-mode device or subsystem at whatever level of abstraction is appropriate for a given simulation accuracy-versus-speed trade-off. One can use this modeling language to write BSIM models for MOS transistors and use these BSIM models to achieve simulation results that are as accurate as those from SPICE simulations. The same modeling language can be used to describe an analog-to-digital converter (ADC) behaviorally, without having to refer to any of its internal circuit elements.

Several modeling approaches are discussed in this section. Based on the scopes of these different approaches and their simulation speed-versus-accuracy trade-offs, they can be categorized as either high-level, medium-level, or low-level modeling. In the following subsections, specific examples are given for high-level and medium-level modeling. Although low-level modeling is a very important part of analog modeling and simulation, the techniques used to do low-level modeling are very similar to those used in higher-level modeling. The only difference is that these techniques are used to model much smaller devices, such as MOSFETs, diodes, and bipolar junction transistors. For brevity, discussion of low-level modeling is omitted.

Online Simulation Behavioral Modeling Analog Systems

**Vladimir P. Gerdt, Wolfram Koepf, Ernst
W. Mayr, Evgenii V. Vorozhtsov**



Online Simulation Behavioral Modeling Analog Systems:

A Practical Guide to Analog Behavioral Modeling for IC System Design Paul A. Duran, 2012-11-14 *A Practical Guide to Analog Behavioral Modeling for IC System Design* presents a methodology for abstracting an IC system so that the designer can gain a macroscopic view of how sub systems interact as well as verify system functionality in various applications before committing to a design This will prevent problems that may be caused late in the design cycle by incompatibilities between the individual blocks that comprise the overall system This book will focus on the techniques of modelling IC systems through analog behavioral modeling and simulation It will investigate a practical approach by which designers can put together these systems to analyze topological and architectural issues to optimize IC system performance Highlights Discussions on modeling and simulation from SPICE to behavioral simulators Comparison of various hardware description languages and a discussion on the effects of language standardization Explanation on how to reduce time to market by decreasing design cycle time through modeling and simulation Contains more than 25 building block examples that can be used to construct mixed signal IC system models Analysis of 4 different IC systems using various levels of model detail This book is intended for the practicing engineer who would like to gain practical knowledge in applications of analog behavioral modelling for IC system design

Behavioral Modeling and Simulation National Research Council, Division of Behavioral and Social Sciences and Education, Board on Behavioral, Cognitive, and Sensory Sciences, Committee on Organizational Modeling: From Individuals to Societies, 2008-07-04 Today's military missions have shifted away from fighting nation states using conventional weapons toward combating insurgents and terrorist networks in a battlespace in which the attitudes and behaviors of civilian noncombatants may be the primary effects of military actions To support these new missions the military services are increasingly interested in using models of the behavior of humans as individuals and in groups of various kinds and sizes Behavioral Modeling and Simulation reviews relevant individual organizational and societal IOS modeling research programs evaluates the strengths and weaknesses of the programs and their methodologies determines which have the greatest potential for military use and provides guidance for the design of a research program to effectively foster the development of IOS models useful to the military This book will be of interest to model developers operational military users of the models and their managers and government personnel making funding decisions regarding model development

Computer Algebra in Scientific Computing Vladimir P. Gerdt, Wolfram Koepf, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2011-08-26 This book constitutes the refereed proceedings of the 13th International Workshop on Computer Algebra in Scientific Computing CASC 2011 held in Kassel Germany in September 2011 The 26 full papers included in the book were carefully reviewed and selected from numerous submissions The articles are organized in topical sections on the development of object oriented computer algebra software for the modeling of algebraic structures as typed objects matrix algorithms the investigation with the aid of computer algebra the development of symbolic numerical algorithms and the

application of symbolic computations in applied problems of physics mechanics social science and engineering

System-level Modeling of MEMS Oliver Brand, Gary K. Fedder, Christofer Hierold, Jan G. Korvink, Osamu

Tabata, 2012-12-20 System level modeling of MEMS microelectromechanical systems comprises integrated approaches to simulate understand and optimize the performance of sensors actuators and microsystems taking into account the intricacies of the interplay between mechanical and electrical properties circuitry packaging and design considerations Thereby system level modeling overcomes the limitations inherent to methods that focus only on one of these aspects and do not incorporate their mutual dependencies The book addresses the two most important approaches of system level modeling namely physics based modeling with lumped elements and mathematical modeling employing model order reduction methods with an emphasis on combining single device models to entire systems At a clearly understandable and sufficiently detailed level the readers are made familiar with the physical and mathematical underpinnings of MEMS modeling This enables them to choose the adequate methods for the respective application needs This work is an invaluable resource for all materials scientists electrical engineers scientists working in the semiconductor and or sensor industry physicists and physical chemists

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 Methodology for the Modeling and Simulation of Microsystems Bartłomiej F.

Romanowicz, 2012-12-06 Over the past two decades technologies for microsystems fabrication have made considerable progress This has made possible a large variety of new commercial devices ranging for example from integrated pressure and acceleration microsensors to active micromirror arrays for image projection In the near future there will be a number of new devices which will be commercialized in many application areas The field of microsystems is characterized by its wide diversity which requires a multidisciplinary approach for design and processes as well as in application areas Although there is a common technological background derived from integrated circuits it is clear that microsystems will require additional application specific technologies Since most microsystem technologies are based on batch processing and dedicated to mass production prototyping is likely to be an expensive and time consuming step It is recognized that standardization of the processes as well as of the design tools will definitely help reduce the entry cost of microsystems This creates a very challenging situation for the design modeling and simulation of microsystems Methodology for the Modeling and Simulation of Microsystems is the first book to give an overview of the problems associated with modeling and simulation of microsystems It introduces a new methodology which is supported by several examples It should provide a useful starting point for both scientists and engineers seeking background information for efficient design of microsystems **The**

Electronic Design Automation Handbook Dirk Jansen, 2010-02-23 When I attended college we studied vacuum tubes in

our junior year At that time an average radio had vacuum tubes and better ones even seven Then transistors appeared in 1960s A good radio was judged to be one with more than ten transistors Later good radios had 15-20 transistors and after that everyone stopped counting transistors Today modern processors running personal computers have over 10 million transistors and more millions will be added every year The difference between 20 and 20M is in complexity methodology and business models Designs with 20 transistors are easily generated by design engineers without any tools whilst designs with 20M transistors can not be done by humans in reasonable time without the help of Prof Dr Gajski demonstrates the Y chart automation This difference in complexity introduced a paradigm shift which required sophisticated methods and tools and introduced design automation into design practice By the decomposition of the design process into many tasks and abstraction levels the methodology of designing chips or systems has also evolved Similarly the business model has changed from vertical integration in which one company did all the tasks from product specification to manufacturing to globally distributed client server production in which most of the design and manufacturing tasks are outsourced

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 *Power*

Electronics, Drives, and Advanced Applications Vinod Kumar, Ranjan Kumar Behera, Dheeraj Joshi, Ramesh Bansal, 2020-03-27 Concern for reliable power supply and energy efficient system design has led to usage of power electronics based systems including efficient electric power conversion and power semiconductor devices This book provides integration of complete fundamental theory design simulation and application of power electronics and drives covering up to date subject components It contains twenty one chapters arranged in four sections on power semiconductor devices basic power

electronic converters advanced power electronics converters power supplies electrical drives and advanced applications Aimed at senior undergraduate and graduate students in electrical engineering and power electronics including related professionals this book Includes electrical drives such as DC motor AC motor special motor high performance motor drives solar electrical hybrid vehicle and fuel cell drives Reviews advances in renewable energy technologies wind PV hybrid power systems and their integration Explores topics like distributed generation microgrid and wireless power transfer system Includes simulation examples using MATLAB Simulink and over four hundred solved unsolved and review problems

Mechatronic Systems, Sensors, and Actuators Robert H. Bishop, 2017-07-28 This book covers the key elements of physical systems modeling sensors and actuators signals and systems computers and logic systems and software and data acquisition It describes mathematical models of the mechanical electrical and fluid subsystems that comprise many mechatronic systems

POWER ELECTRONICS ASGHAR M.S. JAMIL, 2004-01-01 This textbook designed for undergraduate students of electrical engineering offers a comprehensive and accessible introduction to state of the art power semiconductor devices and power electronic converters with an emphasis on design analysis and realization of numerous types of systems Each topic is discussed in sufficient depth to expose the fundamental principles concepts techniques methods and circuits necessary to thoroughly understand power electronic systems

Neuromorphic Computing Principles and Organization Abderazek Ben Abdallah, Khanh N. Dang, 2022-05-31 This book focuses on neuromorphic computing principles and organization and how to build fault tolerant scalable hardware for large and medium scale spiking neural networks with learning capabilities In addition the book describes in a comprehensive way the organization and how to design a spike based neuromorphic system to perform network of spiking neurons communication computing and adaptive learning for emerging AI applications The book begins with an overview of neuromorphic computing systems and explores the fundamental concepts of artificial neural networks Next we discuss artificial neurons and how they have evolved in their representation of biological neuronal dynamics Afterward we discuss implementing these neural networks in neuron models storage technologies inter neuron communication networks learning and various design approaches Then comes the fundamental design principle to build an efficient neuromorphic system in hardware The challenges that need to be solved toward building a spiking neural network architecture with many synapses are discussed Learning in neuromorphic computing systems and the major emerging memory technologies that promise neuromorphic computing are then given A particular chapter of this book is dedicated to the circuits and architectures used for communication in neuromorphic systems In particular the Network on Chip fabric is introduced for receiving and transmitting spikes following the Address Event Representation AER protocol and the memory accessing method In addition the interconnect design principle is covered to help understand the overall concept of on chip and off chip communication Advanced on chip interconnect technologies including si photonic three dimensional interconnects and fault tolerant routing algorithms are also given The

book also covers the main threats of reliability and discusses several recovery methods for multicore neuromorphic systems. This is important for reliable processing in several embedded neuromorphic applications. A reconfigurable design approach that supports multiple target applications via dynamic reconfigurability, network topology independence and network expandability is also described in the subsequent chapters. The book ends with a case study about a real hardware software design of a reliable three dimensional digital neuromorphic processor geared explicitly toward the 3D ICs biological brain's three dimensional structure. The platform enables high integration density and slight spike delay of spiking networks and features a scalable design. We present methods for fault detection and recovery in a neuromorphic system as well.

Neuromorphic Computing Principles and Organization is an excellent resource for researchers, scientists, graduate students and hardware software engineers dealing with the ever increasing demands on fault tolerance, scalability and low power consumption. It is also an excellent resource for teaching advanced undergraduate and graduate students about the fundamentals, concepts, organization and actual hardware software design of reliable neuromorphic systems with learning and fault tolerance capabilities.

VIRTUAL INSTRUMENTATION USING LABVIEW JEROME, JOVITHA, 2010-03-29. This book provides a practical and accessible understanding of the fundamental principles of virtual instrumentation. It explains how to acquire, analyze and present data using LabVIEW Laboratory Virtual Instrument Engineering Workbench as the application development environment. The book introduces the students to the graphical system design model and its different phases of functionality such as design prototyping and deployment. It explains the basic concepts of graphical programming and highlights the features and techniques used in LabVIEW to create Virtual Instruments (VIs). Using the technique of modular programming, the book teaches how to make a VI as a subVI. Arrays, clusters, structures and strings in LabVIEW are covered in detail. The book also includes coverage of emerging graphical system design technologies for real world applications. In addition, extensive discussions on data acquisition, image acquisition, motion control and LabVIEW tools are presented. This book is designed for undergraduate and postgraduate students of instrumentation and control engineering, electronics and instrumentation engineering, electrical and electronics engineering, electronics and communication engineering and computer science and engineering. It will be also useful to engineering students of other disciplines where courses in virtual instrumentation are offered.

Key Features: Builds the concept of virtual instrumentation by using clear cut programming elements. Includes a summary that outlines important learning points and skills taught in the chapter. Offers a number of solved problems to help students gain hands on experience of problem solving. Provides several chapter end questions and problems to assist students in reinforcing their knowledge.

Advances in Design and Specification Languages for Embedded Systems Sorin Alexander Huss, 2007-07-19. Design and specification languages are of utmost interest in the area of embedded systems and the Forum on Specification and Design Languages has been once again the main European event for the embedded systems and chip design community. **Advances in Design and Specification**

Languages for Embedded Systems is the latest contribution to the Chip Design Languages series and it consists of selected papers presented at the Forum on Specifications and Design Languages FDL 06 in September 2006 FDL an ECSI conference is the premier European forum to present research results exchange experiences and learn about new trends in the application of specification and design languages as well as of associated design and modelling methods and tools for integrated circuits embedded systems and heterogeneous systems Modelling and specification concepts push the development of new methodologies for design and verification to system level they thus provide the means for a model driven design of complex information processing systems in a variety of application domains **The Designer's Guide to VHDL**

Peter J. Ashenden, 2001-06-05 Since the publication of the first edition of The Designer's Guide to VHDL in 1996 digital electronic systems have increased exponentially in their complexity product lifetimes have dramatically shrunk and reliability requirements have shot through the roof As a result more and more designers have turned to VHDL to help them dramatically improve productivity as well as the quality of their designs VHDL the IEEE standard hardware description language for describing digital electronic systems allows engineers to describe the structure and specify the function of a digital system as well as simulate and test it before manufacturing In addition designers use VHDL to synthesize a more detailed structure of the design freeing them to concentrate on more strategic design decisions and reduce time to market Adopted by designers around the world the VHDL family of standards have recently been revised to address a range of issues including portability across synthesis tools This best selling comprehensive tutorial for the language and authoritative reference on its use in hardware design at all levels from system to gates has been revised to reflect the new IEEE standard VHDL 2001 Peter Ashenden a member of the IEEE VHDL standards committee presents the entire description language and builds a modeling methodology based on successful software engineering techniques Reviewers on Amazon.com have consistently rated the first edition with five stars This second edition updates the first retaining the authors unique ability to teach this complex subject to a broad audience of students and practicing professionals Details how the new standard allows for increased portability across tools Covers related standards including the Numeric Synthesis Package and the Synthesis Operability Package demonstrating how they can be used for digital systems design Presents four extensive case studies to demonstrate and combine features of the language taught across multiple chapters Requires only a minimal background in programming making it an excellent tutorial for anyone in computer architecture digital systems engineering or CAD

Wireless Transceiver Systems Design Wolfgang Eberle, 2008-06-17 1 During the last 30 years wireless in communications has grown from a niche market to an economically vital consumer mass market The first wave with the breakthrough of 2G mobile telephony focused on speech placed wireless communication in the consumer mass market In the current second wave services are extended toward true multimedia including interactive video audio gaming and broadband Internet These high data rate services however led to a separate IP centric family of wireless personal WPANs and local area networks

WLANs outside the 2G 3G mobile path Since diversity between data and voice centric solutions and the competition between standardized and proprietary approaches is today more blocking than enabling effective development of successful products a third major wave is unavoidable a consolidation of both worlds in portable devices with flexible multistandard communication capabilities enabled for quality of service 2 aware multimedia services At the same time the dominance of wired desktop personal computers has been undermined by the appearance of numerous portable and smart devices laptops notebooks personal digital assistants and gaming devices Since these devices target low cost consumer markets or face wired competition time to market is crucial designed in flexibility is important power operation is a key asset yet device cost shall be at a minimum This book approaches this design tradeoff challenge from the perspective of the system architect The system architect is concerned both in an efficient design process and in a competitive design result **NBS Special**

Publication ,1968 **Modeling Human and Organizational Behavior** National Research Council, Division of Behavioral and Social Sciences and Education, Board on Human-Systems Integration, Panel on Modeling Human Behavior and Command Decision Making: Representations for Military Simulations, 1998-08-31 Simulations are widely used in the military for training personnel analyzing proposed equipment and rehearsing missions and these simulations need realistic models of human behavior This book draws together a wide variety of theoretical and applied research in human behavior modeling that can be considered for use in those simulations It covers behavior at the individual unit and command level At the individual soldier level the topics covered include attention learning memory decisionmaking perception situation awareness and planning At the unit level the focus is on command and control The book provides short medium and long term goals for research and development of more realistic models of human behavior **Computer Literature Bibliography: 1964-1967**

W. W. Youden, 1965 *Extreme Environment Electronics* John D. Cressler, H. Alan Mantooth, 2017-12-19 Unfriendly to conventional electronic devices circuits and systems extreme environments represent a serious challenge to designers and mission architects The first truly comprehensive guide to this specialized field *Extreme Environment Electronics* explains the essential aspects of designing and using devices circuits and electronic systems intended to operate in extreme environments including across wide temperature ranges and in radiation intense scenarios such as space The *Definitive Guide to Extreme Environment Electronics* Featuring contributions by some of the world's foremost experts in extreme environment electronics the book provides in depth information on a wide array of topics It begins by describing the extreme conditions and then delves into a description of suitable semiconductor technologies and the modeling of devices within those technologies It also discusses reliability issues and failure mechanisms that readers need to be aware of as well as best practices for the design of these electronics Continuing beyond just the paper design of building blocks the book rounds out coverage of the design realization process with verification techniques and chapters on electronic packaging for extreme environments The final set of chapters describes actual chip level designs for applications in energy and space exploration Requiring only a basic

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Whispering the Techniques of Language: An Mental Journey through **Online Simulation Behavioral Modeling Analog Systems**

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web create equipment add equipment to the 3d model to create equipment from an existing pattern in the shapes list for vertical equipment the top most shape is listed first and the bottom most shape is listed last for horizontal equipment the front is listed first and the end is listed last

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