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CMOS VLSI DESIGN: A CIRCUITS AND SYSTEMS PERSPECTIVE

Pearson Education India

ANALOG DESIGN ISSUES IN DIGITAL VLSI CIRCUITS AND SYSTEMS

A SPECIAL ISSUE OF ANALOG INTEGRATED CIRCUITS AND SIGNAL PROCESSING, AN INTERNATIONAL JOURNAL VOLUME 14, NOS. 1/2 (1997)

Springer Science & Business Media *Analog Design Issues in Digital VLSI Circuits and Systems brings together in one place important contributions and up-to-date research results in this fast moving area. Analog Design Issues in Digital VLSI Circuits and Systems serves as an excellent reference, providing insight into some of the most challenging research issues in the field.*

INTEGRATED CIRCUIT DESIGN

This edition presents broad and in-depth coverage of the entire field of modern CMOS VLSI Design. The authors draw upon extensive industry and classroom experience to introduce today's most advanced and effective chip design practices.

PROCEEDINGS OF CONCURRENT ENGINEERING ... CONFERENCE

CONCURRENT ENGINEERING, A GLOBAL PERSPECTIVE

PROCEEDINGS OF CONCURRENT ENGINEERING 1995 CONFERENCE, MCLEAN, VIRGINIA, 23-25 AUGUST 1995

CMOS LOGIC CIRCUIT DESIGN

Springer Science & Business Media *This is an up-to-date treatment of the analysis and design of CMOS integrated digital logic circuits. The self-contained book covers all of the important digital circuit design styles found in modern CMOS chips, emphasizing solving design problems using the various logic styles available in CMOS.*

COMPUTER AIDS FOR VLSI DESIGN

Addison-Wesley *This textbook, originally published in 1987, broadly examines the software required to design electronic circuitry, including integrated circuits. Topics include synthesis and analysis tools, graphics and user interface, memory representation, and more. The book also describes a real system called "Electric."*

CMOS DIGITAL INTEGRATED CIRCUITS

ANALYSIS AND DESIGN

The fourth edition of CMOS Digital Integrated Circuits: Analysis and Design continues the well-established tradition of the earlier editions by offering the most comprehensive coverage of digital CMOS circuit design, as well as addressing state-of-the-art technology issues highlighted by the widespread use of nanometer-scale CMOS technologies. In this latest edition, virtually all chapters have been re-written, the transistor model equations and device parameters have been revised to reflect the significant changes that must be taken into account for new technology generations, and the material has been reinforced with up-to-date examples. The broad-ranging coverage of this textbook starts with the fundamentals of CMOS process technology, and continues with MOS transistor models, basic CMOS gates, interconnect effects, dynamic circuits, memory circuits, arithmetic building blocks, clock and I/O circuits, low power design techniques, design for manufacturability and design for testability.

CMOS

CIRCUIT DESIGN, LAYOUT, AND SIMULATION

John Wiley & Sons *Praise for CMOS: Circuit Design, Layout, and Simulation Revised Second Edition from the Technical Reviewers "A refreshing industrial flavor. Design concepts are presented as they are needed for 'just-in-time' learning. Simulating and designing circuits using SPICE is emphasized with literally hundreds of examples. Very few textbooks contain as much detail as this one. Highly recommended!" --Paul M. Furth, New Mexico State University "This book builds a solid knowledge of CMOS circuit design from the ground up. With coverage of process integration, layout, analog and digital models, noise mechanisms, memory circuits, references, amplifiers, PLLs/DLLs, dynamic circuits, and data converters, the text is an excellent reference for both experienced and novice designers alike." --Tyler J. Gomm, Design Engineer, Micron Technology, Inc. "The Second Edition builds upon the success of the first with new chapters that cover additional material such as oversampled*

converters and non-volatile memories. This is becoming the de facto standard textbook to have on every analog and mixed-signal designer's bookshelf." --Joe Walsh, Design Engineer, AMI Semiconductor CMOS circuits from design to implementation CMOS: Circuit Design, Layout, and Simulation, Revised Second Edition covers the practical design of both analog and digital integrated circuits, offering a vital, contemporary view of a wide range of analog/digital circuit blocks, the BSIM model, data converter architectures, and much more. This edition takes a two-path approach to the topics: design techniques are developed for both long- and short-channel CMOS technologies and then compared. The results are multidimensional explanations that allow readers to gain deep insight into the design process. Features include: Updated materials to reflect CMOS technology's movement into nanometer sizes Discussions on phase- and delay-locked loops, mixed-signal circuits, data converters, and circuit noise More than 1,000 figures, 200 examples, and over 500 end-of-chapter problems In-depth coverage of both analog and digital circuit-level design techniques Real-world process parameters and design rules The book's Web site, CMOSedu.com, provides: solutions to the book's problems; additional homework problems without solutions; SPICE simulation examples using HSPICE, LTspice, and WinSpice; layout tools and examples for actually fabricating a chip; and videos to aid learning

IDDQ TESTING FOR CMOS VLSI

Artech House Publishers This book discusses in detail the correlation between physical defects and logic faults, and shows you how Iddq testing locates these defects. The book provides planning guidelines and optimization methods and is illustrated with numerous examples ranging from simple circuits to extensive case studies.

DIGITAL INTEGRATED CIRCUIT DESIGN

FROM VLSI ARCHITECTURES TO CMOS FABRICATION

Cambridge University Press Top-down approach to practical, tool-independent, digital circuit design, reflecting how circuits are designed.

DIGITAL SIGNAL PROCESSING TECHNOLOGY

10-11 APRIL 1996, ORLANDO, FLORIDA

NANOMETER CMOS ICS

FROM BASICS TO ASICS

Springer This textbook provides a comprehensive, fully-updated introduction to the essentials of nanometer CMOS integrated circuits. It includes aspects of scaling to even beyond 12nm CMOS technologies and designs. It clearly describes the fundamental CMOS operating principles and presents substantial insight into the various aspects of design implementation and application. Coverage includes all associated disciplines of nanometer CMOS ICs, including physics, lithography,

technology, design, memories, VLSI, power consumption, variability, reliability and signal integrity, testing, yield, failure analysis, packaging, scaling trends and road blocks. The text is based upon in-house Philips, NXP Semiconductors, Applied Materials, ASML, IMEC, ST-Ericsson, TSMC, etc., courseware, which, to date, has been completed by more than 4500 engineers working in a large variety of related disciplines: architecture, design, test, fabrication process, packaging, failure analysis and software.

OP AMPS FOR EVERYONE

DESIGN REFERENCE

Newnes *The operational amplifier ("op amp") is the most versatile and widely used type of analog IC, used in audio and voltage amplifiers, signal conditioners, signal converters, oscillators, and analog computing systems. Almost every electronic device uses at least one op amp. This book is Texas Instruments' complete professional-level tutorial and reference to operational amplifier theory and applications. Among the topics covered are basic op amp physics (including reviews of current and voltage division, Thevenin's theorem, and transistor models), idealized op amp operation and configuration, feedback theory and methods, single and dual supply operation, understanding op amp parameters, minimizing noise in op amp circuits, and practical applications such as instrumentation amplifiers, signal conditioning, oscillators, active filters, load and level conversions, and analog computing. There is also extensive coverage of circuit construction techniques, including circuit board design, grounding, input and output isolation, using decoupling capacitors, and frequency characteristics of passive components. The material in this book is applicable to all op amp ICs from all manufacturers, not just TI. Unlike textbook treatments of op amp theory that tend to focus on idealized op amp models and configuration, this title uses idealized models only when necessary to explain op amp theory. The bulk of this book is on real-world op amps and their applications; considerations such as thermal effects, circuit noise, circuit buffering, selection of appropriate op amps for a given application, and unexpected effects in passive components are all discussed in detail. *Published in conjunction with Texas Instruments *A single volume, professional-level guide to op amp theory and applications *Covers circuit board layout techniques for manufacturing op amp circuits.*

ACCA F4 CORPORATE AND BUSINESS LAW (GLOBAL)

BPP Learning Media *BPP Learning Media is an ACCA Approved Content Provider. Our partnership with ACCA means that our Study Texts, Practice & Revision Kits and iPass (for CBE papers only) are subject to a thorough ACCA examining team review. Our suite of study tools will provide you with all the accurate and up-to-date material you need for exam success.*

SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS

NANO-SCALE CMOS ANALOG CIRCUITS

MODELS AND CAD TECHNIQUES FOR HIGH-LEVEL DESIGN

CRC Press *Reliability concerns and the limitations of process technology can sometimes restrict the innovation process involved in designing nano-scale analog circuits. The success of nano-scale analog circuit design requires repeat experimentation, correct analysis of the device physics, process technology, and adequate use of the knowledge database. Starting with the basics, Nano-Scale CMOS Analog Circuits: Models and CAD Techniques for High-Level Design introduces the essential fundamental concepts for designing analog circuits with optimal performances. This book explains the links between the physics and technology of scaled MOS transistors and the design and simulation of nano-scale analog circuits. It also explores the development of structured computer-aided design (CAD) techniques for architecture-level and circuit-level design of analog circuits. The book outlines the general trends of technology scaling with respect to device geometry, process parameters, and supply voltage. It describes models and optimization techniques, as well as the compact modeling of scaled MOS transistors for VLSI circuit simulation. • Includes two learning-based methods: the artificial neural network (ANN) and the least-squares support vector machine (LS-SVM) method • Provides case studies demonstrating the practical use of these two methods • Explores circuit sizing and specification translation tasks • Introduces the particle swarm optimization technique and provides examples of sizing analog circuits • Discusses the advanced effects of scaled MOS transistors like narrow width effects, and vertical and lateral channel engineering Nano-Scale CMOS Analog Circuits: Models and CAD Techniques for High-Level Design describes the models and CAD techniques, explores the physics of MOS transistors, and considers the design challenges involving statistical variations of process technology parameters and reliability constraints related to circuit design.*

LOW-POWER VLSI CIRCUITS AND SYSTEMS

Springer *The book provides a comprehensive coverage of different aspects of low power circuit synthesis at various levels of design hierarchy; starting from the layout level to the system level. For a seamless understanding of the subject, basics of MOS circuits has been introduced at transistor, gate and circuit level; followed by various low-power design methodologies, such as supply voltage scaling, switched capacitance minimization techniques and leakage power minimization approaches. The content of this book will prove useful to students, researchers, as well as practicing engineers.*

USING THE ELECTRIC VLSI DESIGN SYSTEM

ALGORITHMS FOR VLSI PHYSICAL DESIGN AUTOMATION

Springer Science & Business Media *Algorithms for VLSI Physical Design Automation is a core reference text for graduate students and CAD professionals. It provides a comprehensive treatment of the principles and algorithms of VLSI*

physical design. *Algorithms for VLSI Physical Design Automation* presents the concepts and algorithms in an intuitive manner. Each chapter contains 3-4 algorithms that are discussed in detail. Additional algorithms are presented in a somewhat shorter format. References to advanced algorithms are presented at the end of each chapter. *Algorithms for VLSI Physical Design Automation* covers all aspects of physical design. The first three chapters provide the background material while the subsequent chapters focus on each phase of the physical design cycle. In addition, newer topics like physical design automation of FPGAs and MCMs have been included. The author provides an extensive bibliography which is useful for finding advanced material on a topic. *Algorithms for VLSI Physical Design Automation* is an invaluable reference for professionals in layout, design automation and physical design.

PROCEEDINGS OF THE ... MIDWEST SYMPOSIUM ON CIRCUITS AND SYSTEMS

VLSI DESIGN

I. K. International Pvt Ltd Aimed primarily for undergraduate students pursuing courses in VLSI design, the book emphasizes the physical understanding of underlying principles of the subject. It not only focuses on circuit design process obeying VLSI rules but also on technological aspects of Fabrication. VHDL modeling is discussed as the design engineer is expected to have good knowledge of it. Various Modeling issues of VLSI devices are focused which includes necessary device physics to the required level. With such an in-depth coverage and practical approach practising engineers can also use this as ready reference.

BASIC VLSI DESIGN

PRINCIPLES AND APPLICATIONS

Prentice Hall

VLSI DESIGN

The second edition of *VLSI Design* is a comprehensive textbook designed for undergraduate students of electrical, electronics, and electronics and communication engineering. It provides a thorough understanding of the fundamental concepts and design of VLSI systems.

MICROELECTRONIC CIRCUIT DESIGN

McGraw-Hill College "*Microelectronic Circuit Design*" is known for being a technically excellent text. The new edition has been revised to make the material more motivating and accessible to students while retaining a student-friendly approach. Jaeger has added more pedagogy and an emphasis on design through the use of design examples and design notes. Some pedagogical elements include chapter opening vignettes, chapter objectives, "Electronics in Action" boxes, a problem solving methodology, and "design note" boxes. The number of examples,

including new design examples, has been increased, giving students more opportunity to see problems worked out. Additionally, some of the less fundamental mathematical material has been moved to the ARIS website. In addition this edition comes with a Homework Management System called ARIS, which includes 450 static problems.

ESSENTIALS OF ELECTRONIC TESTING FOR DIGITAL, MEMORY AND MIXED-SIGNAL VLSI CIRCUITS

Springer Science & Business Media *The modern electronic testing has a forty year history. Test professionals hold some fairly large conferences and numerous workshops, have a journal, and there are over one hundred books on testing. Still, a full course on testing is offered only at a few universities, mostly by professors who have a research interest in this area. Apparently, most professors would not have taken a course on electronic testing when they were students. Other than the computer engineering curriculum being too crowded, the major reason cited for the absence of a course on electronic testing is the lack of a suitable textbook. For VLSI the foundation was provided by semiconductor device technology, circuit design, and electronic testing. In a computer engineering curriculum, therefore, it is necessary that foundations should be taught before applications. The field of VLSI has expanded to systems-on-a-chip, which include digital, memory, and mixed-signalsubsystems. To our knowledge this is the first textbook to cover all three types of electronic circuits. We have written this textbook for an undergraduate "foundations" course on electronic testing. Obviously, it is too voluminous for a one-semester course and a teacher will have to select from the topics. We did not restrict such freedom because the selection may depend upon the individual expertise and interests. Besides, there is merit in having a larger book that will retain its usefulness for the owner even after the completion of the course. With equal tenacity, we address the needs of three other groups of readers.*

INTRODUCTION TO VLSI CIRCUITS AND SYSTEMS

John Wiley & Sons Incorporated *CD-ROM contains: AIM SPICE (from AIM Software) -- Micro-Cap 6 (from Spectrum Software) -- Silos III Verilog Simulator (from Simucad) -- Adobe Acrobat Reader 4.0 (from Adobe).*

INTERNATIONAL CONFERENCE ON COMMUNICATION TECHNOLOGY

VLSI DESIGN

ANALOG INTEGRATED CIRCUIT DESIGN

The 2nd Edition of Analog Integrated Circuit Design focuses on more coverage about several types of circuits that have increased in importance in the past decade. Furthermore, the text is enhanced with material on CMOS IC device modeling, updated processing layout and expanded coverage to reflect technical innovations. CMOS devices and circuits have more influence in this edition as well as a reduced amount of text on BiCMOS and bipolar information. New chapters include topics on

frequency response of analog ICs and basic theory of feedback amplifiers.

DESIGN OF ANALOG CMOS INTEGRATED CIRCUITS

McGraw-Hill Companies *This textbook deals with the analysis and design of analog CMOS integrated circuits, emphasizing recent technological developments and design paradigms that students and practicing engineers need to master to succeed in today's industry. Based on the author's teaching and research experience in the past ten years, the text follows three general principles: (1) Motivate the reader by describing the significance and application of each idea with real-world problems; (2) Force the reader to look at concepts from an intuitive point of view, preparing him/her for more complex problems; (3) Complement the intuition by rigorous analysis, confirming the results obtained by the intuitive, yet rough approach.*

VLSI DESIGN

BoD - Books on Demand *This book provides some recent advances in design nanometer VLSI chips. The selected topics try to present some open problems and challenges with important topics ranging from design tools, new post-silicon devices, GPU-based parallel computing, emerging 3D integration, and antenna design. The book consists of two parts, with chapters such as: VLSI design for multi-sensor smart systems on a chip, Three-dimensional integrated circuits design for thousand-core processors, Parallel symbolic analysis of large analog circuits on GPU platforms, Algorithms for CAD tools VLSI design, A multilevel memetic algorithm for large SAT-encoded problems, etc.*

ANALYSIS AND DESIGN OF DIGITAL INTEGRATED CIRCUITS

IN DEEP SUBMICRON TECHNOLOGY

McGraw-Hill Incorporated *The third edition of Hodges and Jackson's Analysis and Design of Digital Integrated Circuits has been thoroughly revised and updated by a new co-author, Resve Saleh of the University of British Columbia. The new edition combines the approachability and concise nature of the Hodges and Jackson classic with a complete overhaul to bring the book into the 21st century. The new edition has replaced the emphasis on BiPolar with an emphasis on CMOS. The outdated MOS transistor model used throughout the book will be replaced with the now standard deep submicron model. The material on memory has been expanded and updated. As well the book now includes more on SPICE simulation and new problems that reflect recent technologies. The emphasis of the book is on design, but it does not neglect analysis and has as a goal to provide enough information so that a student can carry out analysis as well as be able to design a circuit. This book provides an excellent and balanced introduction to digital circuit design for both students and professionals.*

DIGITAL SIGNAL PROCESSING WITH FIELD PROGRAMMABLE GATE

ARRAYS

Springer Science & Business Media Starts with an overview of today's FPGA technology, devices, and tools for designing state-of-the-art DSP systems. A case study in the first chapter is the basis for more than 30 design examples throughout. The following chapters deal with computer arithmetic concepts, theory and the implementation of FIR and IIR filters, multirate digital signal processing systems, DFT and FFT algorithms, and advanced algorithms with high future potential. Each chapter contains exercises. The VERILOG source code and a glossary are given in the appendices, while the accompanying CD-ROM contains the examples in VHDL and Verilog code as well as the newest Altera "Baseline" software. This edition has a new chapter on adaptive filters, new sections on division and floating point arithmetics, an up-date to the current Altera software, and some new exercises.

ENERGY RESEARCH ABSTRACTS

VLSI DESIGN AND TEST

17TH INTERNATIONAL SYMPOSIUM, VDAT 2013, JAIPUR, INDIA, JULY 27-30, 2013, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 17th International Symposium on VLSI Design and Test, VDAT 2013, held in Jaipur, India, in July 2013. The 44 papers presented were carefully reviewed and selected from 162 submissions. The papers discuss the frontiers of design and test of VLSI components, circuits and systems. They are organized in topical sections on VLSI design, testing and verification, embedded systems, emerging technology.

ELECTRONIC PROPERTIES OF MATERIALS

Springer Science & Business Media This carefully revised third edition on the electrical, optical, magnetic, and thermal properties of materials stresses concepts rather than mathematical formalism. Many examples from engineering practice provide an understanding of common devices and methods.

CONSULTANTS AND CONSULTING ORGANIZATIONS DIRECTORY

Indexes are arranged by geographic area, activities, personal name, and consulting firm name.

CMOS WIRELESS TRANSCEIVER DESIGN

Springer Science & Business Media The world of wireless communications is changing very rapidly since a few years. The introduction of digital data communication in combination with digital signal processing has created the foundation for the development of many new wireless applications. High-quality digital wireless networks for voice communication with global and local coverage, like the GSM and DECT system, are only faint and early examples of the wide variety of wireless applications that will become available in the remainder of this decade. The new evolutions in wireless communications set new requirements for the trans

ceivers (transmitter-receivers). Higher operating frequencies, a lower power consumption and a very high degree of integration, are new specifications which ask for design approaches quite different from the classical RF design techniques. The integratability and power consumption reduction of the digital part will further improve with the continued downscaling of technologies. This is however completely different for the analog transceiver front-end, the part which performs the interfacing between the antenna and the digital signal processing. The analog front-end's integratability and power consumption are closely related to the physical limitations of the transceiver topology and not so much to the scaling of the used technology. Chapter 2 gives a detailed study of the level of integration in current transceiver realization and analyzes their limitations. In chapter 3 of this book the complex signal technique for the analysis and synthesis of multi-path receiver and transmitter topologies is introduced.

MODERN VLSI DESIGN

IP-BASED DESIGN

Prentice-Hall PTR *The award-winning VLSI design guide is now fully updated to reflect the latest advances in chip design*