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Integrated Circuit Design-Neil H. E. Weste 2011 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.

CMOS VLSI Design: A Circuits and Systems Perspective-Neil H. E. Weste 2005

Digital Integrated Circuit Design-Hubert Kaeslin 2008-04-28 Top-down approach to practical, tool-independent, digital circuit design, reflecting how circuits are designed.

Digital VLSI Chip Design with Cadence and Synopsys CAD Tools-Erik Brunvand 2010 KEY BENEFIT: This hands-on book leads readers through the complete process of building a ready-to-fabricate CMOS integrated circuit using popular commercial design software. KEY TOPICS: The VLSI CAD flow described in this book uses tools from two vendors: Cadence Design Systems, Inc. and Synopsys Inc. Detailed tutorials include step-by-step instructions and screen shots of tool windows and dialog boxes. MARKET: A useful reference for chip designers.

IC Mask Design-Christopher Saint 2002-05-24 Integrated Circuit Mask Design teaches integrated circuit (IC) processes, mask design techniques, and fundamental device concepts in everyday language. It develops ideas from the ground up, building complex concepts out of simple ones, constantly reinforcing what has been taught with examples, self-tests and sidebars covering the motivation behind the material covered.

Logical Effort-Ivan Sutherland 1999 Designers of high-speed integrated circuits face a bewildering array of choices and too often spend frustrating days tweaking gates to meet speed targets. Logical Effort: Designing Fast CMOS Circuits makes high speed design easier and more methodical, providing a simple and broadly applicable method for estimating the delay resulting from factors such as topology, capacitance, and gate sizes. The brainchild of circuit and computer graphics pioneers Ivan Sutherland and Bob Sproull, "logical effort" will change the way you approach design challenges. This book begins by equipping you with a sound understanding of the method's essential procedures and concepts-so you can start using it immediately. Later chapters explore the theory and finer points of the method and detail its specialized applications. Features Explains the method and how to apply it in two practically focused chapters. Improves circuit design intuition by teaching simple ways to discern the consequences of topology and gate size decisions. Offers easy ways to choose the fastest circuit from among an array of potential circuit designs. Reduces the time spent on tweaking and simulations-so you can rapidly settle on a good design. Offers in-depth coverage of specialized areas of application for logical effort: skewed or unbalanced gates, other circuit families (including pseudo-NMOS and domino), wide structures such as decoders, and irregularly forking circuits. Presents a complete derivation of the method-so you see how and why it works.

Cmos Vlsi Design: a Circuits and Systems Perspective- 2015

Low Power Design Essentials-Jan Rabaey 2009-04-21 This book contains all the topics of importance to the low power designer. It first lays the foundation and then goes on to detail the design process. The book also discusses such special topics as power management and modal design, ultra low power, and low power design methodology and flows. In addition, coverage includes projections of the future and case studies.

Integrated Circuit and System Design. Power and Timing Modeling, Optimization and Simulation-Vassilis

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Paliouras 2005-09-06 This book constitutes the refereed proceedings of the 15th International Workshop on Power and Timing Optimization and Simulation, PATMOS 2005, held in Leuven, Belgium in September 2005. The 74 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on low-power processors, code optimization for low-power, high-level design, telecommunications and signal processing, low-power circuits, system-on-chip design, busses and interconnections, modeling, design automation, low-power techniques, memory and register files, applications, digital circuits, and analog and physical design.

The Design and Analysis of VLSI Circuits-Lance A. Glasser 1985

Digital Integrated Circuits-Jan M. Rabaey 1996 Beginning with discussions on the operation of electronic devices and analysis of the nucleus of digital design, the text addresses: the impact of interconnect, design for low power, issues in timing and clocking, design methodologies, and the effect of design automation on the digital design perspective.

Principles of CMOS VLSI Design-Neil West 2000-12-01 This book conveys an understanding of CMOS technology, circuit design, layout, and system design sufficient to the designer. The book deals with the technology down to the layout level of detail, thereby providing a bridge from a circuit to a form that may be fabricated. The early chapters provide a circuit view of the CMOS IC design, the middle chapters cover a sub-system view of CMOS VLSI, and the final section illustrates these techniques using a real-world case study.

VLSI Circuit Design Methodology Demystified-Liming Xiu 2007-12-04 This book was written to arm engineers qualified and knowledgeable in the area of VLSI circuits with the essential knowledge they need to get into this exciting field and to help those already in it achieve a higher level of proficiency. Few people truly understand how a large chip is developed, but an understanding of the whole process is necessary to appreciate the importance of each part of it and to understand the process from concept to silicon. It will teach readers how to become better engineers through a practical approach of diagnosing and attacking real-world problems.

CMOS-R. Jacob Baker 2008 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

Digital Integrated Circuit Design-Hubert Kaeslin 2008-04-28 Top-down approach to practical, tool-independent, digital circuit design, reflecting how circuits are designed.

Modern VLSI Design-Wayne Wolf 2002-01-14 For Electrical Engineering and Computer Engineering courses that cover the design and technology of very large scale integrated (VLSI) circuits and systems. May also be used as a VLSI reference for professional VLSI design engineers, VLSI design managers, and VLSI CAD engineers. Modern VLSI Design provides a comprehensive "bottom-up" guide to the design of

VLSI systems, from the physical design of circuits through system architecture with focus on the latest solution for system-on-chip (SOC) design. Because VLSI system designers face a variety of challenges that include high performance, interconnect delays, low power, low cost, and fast design turnaround time, successful designers must understand the entire design process. The Third Edition also provides a much more thorough discussion of hardware description languages, with introduction to both Verilog and VHDL. For that reason, this book presents the entire VLSI design process in a single volume.

Analog Integrated Circuit Design by Simulation: Techniques, Tools, and Methods-Ugur Cilingiroglu 2019-03-29 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Learn the principles and practices of simulation-based analog IC design This comprehensive textbook and on-the-job reference offers clear instruction on analog integrated circuit design using the latest simulation techniques. Ideal for graduate students and professionals alike, the book shows, step by step, how to develop and deploy integrated circuits for cutting-edge Internet of Things (IoT) and other applications. Analog Integrated Circuit Design by Simulation: Techniques, Tools, and Methods lays out practical, ready-to-apply engineering strategies. Application layer, device layer, and circuit layer IC design are covered in complete detail. You will learn how to tackle real-world design problems and avoid long cycles of trial and error. Coverage includes: •First-order DC response•Unified closed-loop model•Accurate modeling of DC response•Frequency and step response•Multi-pole dynamic response and stability•Effect of external network on differential gain•Continuous-time and discrete-time amplifiers•MOSFET, NMOS, and PMOS characteristics•Small-signal modeling and circuit analysis•Resistor and capacitor design•Current sources, sinks, and mirrors•Basic, symmetrical, folded-cascode, and Miller OTAs•Opamps with source-follower and common-source output stages•Fully differential OTAs and opamps

Integrated Circuit and System Design. Power and Timing Modeling, Optimization and Simulation-Jose L. Ayala 2011-09-15 This book constitutes the refereed proceedings of the 21st International Conference on Integrated Circuit and System Design, PATMOS 2011, held in Madrid, Spain, in September 2011. The 34 revised full papers presented were carefully reviewed and selected from numerous submissions. The paper feature emerging challenges in methodologies and tools for the design of upcoming generations of integrated circuits and systems and focus especially on timing, performance and power consumption as well as architectural aspects with particular emphasis on modeling, design, characterization, analysis and optimization.

Digital Design and Computer Architecture-Sarah Harris 2015-04-09 Digital Design and Computer Architecture: ARM Edition covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM microprocessor. Combining an engaging and humorous writing style with an updated and hands-on approach to digital design, this book takes the reader from the fundamentals of digital logic to the actual design of an ARM processor. By the end of this book, readers will be able to build their own microprocessor and will have a top-to-bottom understanding of how it works. Beginning with digital logic gates and progressing to the design of combinational and sequential circuits, this book uses these fundamental building blocks as the basis for designing an ARM processor. SystemVerilog and VHDL are integrated throughout the text in examples illustrating the methods and techniques for CAD-based circuit design. The companion website includes a chapter on I/O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs, Bluetooth radios, and motors. This book will be a valuable resource for students taking a course that combines digital logic and computer architecture or students taking a two-quarter sequence in digital logic and computer organization/architecture. Covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM microprocessor. Features side-by-side examples of the two most prominent Hardware Description Languages (HDLs)—SystemVerilog and VHDL—which illustrate and compare the ways each can be used in the design of digital systems. Includes examples throughout the text that enhance the reader's understanding and retention of key concepts and techniques. The Companion website includes a chapter on I/O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs, Bluetooth radios, and motors. The Companion website also includes appendices covering practical digital design issues and C programming as well as links to CAD tools, lecture slides, laboratory projects, and solutions to exercises.

Analog/RF and Mixed-Signal Circuit Systematic Design-Mourad Fakhfakh 2013-02-03 Despite the fact that in the digital domain, designers can take full benefits of IPs and design automation tools to synthesize and design very complex systems, the analog designers' task is still considered as a 'handcraft', cumbersome

and very time consuming process. Thus, tremendous efforts are being deployed to develop new design methodologies in the analog/RF and mixed-signal domains. This book collects 16 state-of-the-art contributions devoted to the topic of systematic design of analog, RF and mixed signal circuits. Divided in the two parts Methodologies and Techniques recent theories, synthesis techniques and design methodologies, as well as new sizing approaches in the field of robust analog and mixed signal design automation are presented for researchers and R/D engineers.

Electronic Design Automation for IC Implementation, Circuit Design, and Process Technology-Luciano Lavagno 2016-04-27 The second of two volumes in the Electronic Design Automation for Integrated Circuits Handbook, Second Edition, Electronic Design Automation for IC Implementation, Circuit Design, and Process Technology thoroughly examines real-time logic (RTL) to GDSII (a file format used to transfer data of semiconductor physical layout) design flow, analog/mixed signal design, physical verification, and technology computer-aided design (TCAD). Chapters contributed by leading experts authoritatively discuss design for manufacturability (DFM) at the nanoscale, power supply network design and analysis, design modeling, and much more. New to This Edition: Major updates appearing in the initial phases of the design flow, where the level of abstraction keeps rising to support more functionality with lower non-recurring engineering (NRE) costs Significant revisions reflected in the final phases of the design flow, where the complexity due to smaller and smaller geometries is compounded by the slow progress of shorter wavelength lithography New coverage of cutting-edge applications and approaches realized in the decade since publication of the previous edition—these are illustrated by new chapters on 3D circuit integration and clock design Offering improved depth and modernity, Electronic Design Automation for IC Implementation, Circuit Design, and Process Technology provides a valuable, state-of-the-art reference for electronic design automation (EDA) students, researchers, and professionals.

Digital Integrated Circuit Design-Kenneth William Martin 2000 The impact of digital integrated circuits on our modern society has been pervasive. They are the enabling technology of the current computer and information-technology revolution. This is largely true because of the immense amount of signal and computer processing that can be realized in a single integrated circuit; modern IC's may contain millions of logic gates. This text book is intended to take a reader having only a minimal background and knowledge in electronics to the point where they can design state-of-the-art digital integrated circuits. Designing high-performance digital integrated circuits requires expertise in many different areas. These include semiconductor physics, integrated circuit processing, transistor-level design, logic-level design, system-level design, testing, etc. Aspects of these topics are covered throughout this text, although the emphasis is on transistor-level design of digital integrated circuits and systems. This is in contrast to the perspective in many other texts, which takes a system-level or VLSI approach where transistor-level details are minimized. It is the author's belief that before system-level considerations can be properly evaluated, an in-depth transistor-level understanding must first be obtained. Important system-level considerations such as timing, pipe-lining, clock distribution, and system building blocks are covered in detail, but the emphasis on transistors first. Throughout the book, physical and intuitive explanations are given, and although mathematical quantitative analysis of many circuits have necessarily been presented, Martin has attempted not to "miss seeing the forest because of the trees". This book presents the critical underlying concepts without becoming entangled in tedious and over-complicated circuit analyses. It is intended for senior/graduate level students in electrical and computer engineering. This course assumes the Sedra/Smith Microelectronic Circuits course as a prerequisite.

VLSI Design Techniques for Analog and Digital Circuits-Randall L. Geiger 1990

Nanoelectronic Mixed-Signal System Design-Saraju Mohanty 2015-02-20 Covering both the classical and emerging nanoelectronic technologies being used in mixed-signal design, this book addresses digital, analog, and memory components. Winner of the Association of American Publishers' 2016 PROSE Award in the Textbook/Physical Sciences & Mathematics category. Nanoelectronic Mixed-Signal System Design offers professionals and students a unified perspective on the science, engineering, and technology behind nanoelectronics system design. Written by the director of the NanoSystem Design Laboratory at the University of North Texas, this comprehensive guide provides a large-scale picture of the design and manufacturing aspects of nanoelectronic-based systems. It features dual coverage of mixed-signal circuit and system design, rather than just digital or analog-only. Key topics such as process variations, power dissipation, and security aspects of electronic system design are discussed. Top-down analysis of all stages--from design to manufacturing Coverage of current and developing nanoelectronic technologies--not just nano-CMOS Describes the basics of nanoelectronic technology and the structure of popular electronic systems Reveals the techniques required for design excellence and manufacturability

Digital Vlsi Design-Singh Ajay Kumar 2010-11-01

Vlsi Technology, 2/E-Sze 2003-10-01

Chip Design for Submicron VLSI-John Paul Uyemura 2006 The text is organized around first introducing the global view of digital integrated circuit design, VLSI and design automation, and then sequentially developing the topics from the materials and devices level, up through the circuits and then system level. This mirrors the structural hierarchy of the chip design field itself. While building a solid foundation and reference for the chip design, it integrates the discussion with hands-on examples of the design automation software, included in the book, to illustrate not only the layout and simulation concepts, but also how an industry designer would put them into practice. Both theory and application are effectively integrated into a cohesive treatment of the subject and art of chip design.

EDA for IC Implementation, Circuit Design, and Process Technology-Luciano Lavagno 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.

Nanometer CMOS ICs-Harry J.M. Veendrick 2017-04-28 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.

High Speed CMOS Design Styles-Kerry Bernstein 2012-12-06 High Speed CMOS Design Styles is written for the graduate-level student or practicing engineer who is primarily interested in circuit design. It is intended to provide practical reference, or 'horse-sense', to mechanisms typically described with a more academic slant. This book is organized so that it can be used as a textbook or as a reference book. High Speed CMOS Design Styles provides a survey of design styles in use in industry, specifically in the high speed microprocessor design community. Logic circuit structures, I/O and interface, clocking, and timing schemes are reviewed and described. Characteristics, sensitivities and idiosyncrasies of each are highlighted. High Speed CMOS Design Styles also pulls together and explains contributors to performance variability that are associated with process, applications conditions and design. Rules of thumb and practical references are offered. Each of the general circuit families is then analyzed for its sensitivity and response to this variability. High Speed CMOS Design Styles is an excellent source of ideas and a compilation of observations that highlight how different approaches trade off critical parameters in design and process space.

Design of High-Performance Microprocessor Circuits-Anantha Chandrakasan 2001 The authors present readers with a compelling, one-stop, advanced system perspective on the intrinsic issues of digital system design. This invaluable reference prepares readers to meet the emerging challenges of the device and circuit issues associated with deep submicron technology. It incorporates future trends with practical, contemporary methodologies.

Introduction to VLSI Systems-Carver Mead 1978

Introduction to VLSI Circuits and Systems-Uyemura 2002 Market_Desc: · Electronics Designers· System Level Engineers Special Features: · This book presents modern CMOS logic circuits, fabrication, and layout in a cohesive manner that links the material together with the system-level considerations· It illustrates the top-down design procedure used in modern VLSI chip design with an emphasis on variations in the HDL, logic, circuits and layout About The Book: This book provides a comprehensive treatment of modern VLSI design. It stresses the relationship among high-level system considerations, logic design, and silicon circuitry and fabrication in a manner that allows the reader to understand the

field as a single composite discipline. The approach emphasizes the unique features of state-of-the-art CMOS VLSI that sets it apart from traditional digital systems design.

CMOS Digital Integrated Circuits Analysis & Design-Sung-Mo Kang 2014-01-31 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.

Digital Integrated Circuit Design South Asian Edition-Hubert Kaeslin 2009-09-01 This practical, tool-independent guide to designing digital circuits takes a unique, top-down approach, reflecting the nature of the design process in industry. Starting with architecture design, the book comprehensively explains the why and how of digital circuit design, using the physics designers need to know, and no more. Covering system and component aspects, design verification, VHDL modeling, signal integrity, clocking and more, the scope of the book is uniquely comprehensive. With a focus on CMOS technology, numerous examples - VHDL and Verilog code, architectural concepts, and failure reports - practical guidelines, and design checklists, this engaging textbook for senior undergraduate and graduate courses on digital ICs will prepare students for the realities of real-world circuit design. Practitioners will also find the book valuable for its insights and its practical approach. Instructor only solutions and lecture slides are available at: www.cambridge.org/Kaeslin.

Closing the Gap Between ASIC & Custom-David Chinnery 2002-06-30 This book carefully details design tools and techniques for high-performance ASIC design. Using these techniques, the performance of ASIC designs can be improved by two to three times. Important topics include: Improving performance through microarchitecture; Timing-driven floorplanning; Controlling and exploiting clock skew; High performance latch-based design in an ASIC methodology; Automatically identifying and synthesizing complex logic gates; Automated cell sizing to increase performance and reduce power; Controlling process variation. These techniques are illustrated by designs running two to three times the speed of typical ASICs in the same process generation.

Application Specific Integrated Circuits-Michael John Sebastian Smith 1997 This comprehensive book on application-specific integrated circuits (ASICs) describes the latest methods in VLSI-systems design. ASIC design, using commercial tools and pre-designed cell libraries, is the fastest, most cost-effective, and least error-prone method of IC design. As a consequence, ASICs and ASIC-design methods have become increasingly popular in industry for a wide range of applications. The book covers both semicustom and programmable ASIC types. After describing the fundamentals of digital logic design and the physical features of each ASIC type, the book turns to ASIC logic design - design entry, logic synthesis, simulation, and test - and then to physical design - partitioning, floorplanning, placement, and routing. You will find here, in practical well-explained detail, everything you need to know to understand the design of an ASIC, and everything you must do to begin and to complete your own design. Features Broad coverage includes, in one information-packed volume, cell-based ICs, gate arrays, field-programmable gate arrays (FPGAs), and complex programmable logic devices (PLDs). Examples throughout the book have been checked with a wide range of commercial tools to ensure their accuracy and utility. Separate chapters and appendixes on both Verilog and VHDL, including material from IEEE standards, serve as a complete reference for high-level, ASIC-design entry. As in other landmark VLSI books published by Addison-Wesley - from Mead and Conway to Weste and Eshraghian - the author's teaching expertise and industry experience illuminate the presentation of useful design methods. Any engineer, manager, or student who is working with ASICs in a design project, or who is simply interested in knowing more about the different ASIC types and design styles, will find this book to be an invaluable resource, reference, and guide. 0201500221B04062001

CMOS IC Layout-Dan Clein 1999-01-07 This book includes basic methodologies, review of basic electrical rules and how they apply, design rules, IC planning, detailed checklists for design review, specific layout design flows, specialized block design, interconnect design, and also additional information on design limitations due to production requirements. *Practical, hands-on approach to CMOS layout theory and design *Offers engineers and technicians the training materials they need to stay current in circuit design technology. *Covers manufacturing processes and their effect on layout and design decisions

ANALOG MOS INTEGRATED CIRCUITS FOR SIGNAL PROCESSING-Roubik Gregorian 2008-09-01

Market_Desc: · Engineers· Managers· Technicians About The Book: The book describes the operating

principles of analog MOS integrated circuits and how to design and use such circuits. The initial section explores general properties of analog MOS integrated circuits and the math and physics background required. The remainder of the book is devoted to the design of circuits. It includes such devices as switched-capacitor filters, analog-to-digital and digital-to-analog converters, amplifiers, modulators, oscillators, and others. Tables and numerical design examples clarify the step-by-step processes involved. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Low-Power Cmos Vlsi Circuit Design-Kaushik Roy 2009-02-02 This is the first book devoted to low power circuit design, and its authors have been among the first to publish papers in this area.· Low-Power CMOS VLSI Design· Physics of Power Dissipation in CMOS FET Devices· Power Estimation· Synthesis for Low Power· Design and Test of Low-Voltage CMOS Circuits· Low-Power Static Ram Architectures· Low-Energy Computing Using Energy Recovery Techniques· Software Design for Low Power

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