LOW POWER DIGITAL CMOS DESIGN

Anantha P. Chandrakasan
Robert W. Brodersen

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Wolfgang Guggemos

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Low Power Digital CMOS Design Anantha P. Chandrakasan,Robert W. Brodersen,1995-06-30 Power consumption has become a major design consideration for battery operated portable systems as well as high performance desktop systems Strict limitations on power dissipation must be met by the designer while still meeting ever higher computational requirements A comprehensive approach is thus required at all levels of system design ranging from algorithms and architectures to the logic styles and the underlying technology Potentially one of the most important techniques involves combining architecture optimization with voltage scaling allowing a trade off between silicon area and low power operation Architectural optimization enables supply voltages of the order of 1 V using standard CMOS technology Several techniques can also be used to minimize the switched capacitance including representation optimizing signal correlations minimizing spurious transitions optimizing sequencing of operations activity driven power down etc The high efficiency of DC DC converter circuitry required for efficient low voltage and low current level operation is described by Stratakos Sullivan and Sanders The application of various low power techniques to a chip set for multimedia applications shows that orders of magnitude reduction in power consumption is possible The book also features an analysis by Professor Meindl of the fundamental limits of power consumption achievable at all levels of the design hierarchy Svensson of ISI describes emerging adiabatic switching techniques that can break the CV2f barrier and reduce the energy per computation at a fixed voltage Srivastava of AT T presents the application of aggressive shut down techniques to microprocessor applications

Low-Power CMOS Design Anantha Chandrakasan,Robert W. Brodersen,1998-02-11 This collection of important papers provides a comprehensive overview of low power system design from component technologies and circuits to architecture system design and CAD techniques LOW POWER CMOS DESIGN summarizes the key low power contributions through papers written by experts in this evolving field **Low Power Interconnect Design** Sandeep Saini,2015-06-12 This book provides practical solutions for delay and power reduction for on chip interconnects and buses It provides an in depth description of the problem of signal delay and extra power consumption possible solutions for delay and glitch removal while considering the power reduction of the total system Coverage focuses on use of the Schmitt Trigger as an alternative approach to buffer insertion for delay and power reduction in VLSI interconnects In the last section of the book various bus coding techniques are discussed to minimize delay and power in address and data buses **Analysis and Solutions for Switching Noise Coupling in Mixed-Signal ICs** X. Aragones,J.L. Gonzalez,Antonio Rubio,2013-03-09 Modern microelectronic design is characterized by the integration of full systems on a single die These systems often include large high performance digital circuitry high resolution analog parts high driving I O and maybe RF sections Designers of such systems are constantly faced with the challenge to achieve compatibility in electrical characteristics of every section some circuitry presents fast transients and large consumption spikes whereas others require quiet environments to achieve

resolutions well beyond millivolts Coupling between those sections is usually unavoidable since the entire system shares the same silicon substrate bulk and the same package Understanding the way coupling is produced and knowing methods to isolate coupled circuitry and how to apply every method is then mandatory knowledge for every IC designer Analysis and Solutions for Switching Noise Coupling in Mixed Signal ICs is an in depth look at coupling through the common silicon substrate and noise at the power supply lines It explains the elementary knowledge needed to understand these phenomena and presents a review of previous works and new research results The aim is to provide an understanding of the reasons for these particular ways of coupling review and suggest solutions to noise coupling and provide criteria to apply noise reduction Analysis and Solutions for Switching Noise Coupling in Mixed Signal ICs is an ideal book both as introductory material to noise coupling problems in mixed signal ICs and for more advanced designers facing this problem *Low-power HF Microelectronics* Gerson A. S. Machado,1996 This book brings together innovative modelling simulation and design techniques in CMOS SOI GaAs and BJT to achieve successful high yield manufacture for low power high speed and reliable by design analogue and mixed mode integrated systems <u>System-Level Design Techniques for Energy-Efficient Embedded Systems</u> Marcus T. Schmitz,Bashir M. Al-Hashimi,Petru Eles,2006-01-16 System Level Design Techniques for Energy Efficient Embedded Systems addresses the development and validation of co synthesis techniques that allow an effective design of embedded systems with low energy dissipation The book provides an overview of a system level co design flow illustrating through examples how system performance is influenced at various steps of the flow including allocation mapping and scheduling The book places special emphasis upon system level co synthesis techniques for architectures that contain voltage scalable processors which can dynamically trade off between computational performance and power consumption Throughout the book the introduced co synthesis techniques which target both single mode systems and emerging multi mode applications are applied to numerous benchmarks and real life examples including a realistic smart phone *Low Power Circuit Design Using Advanced CMOS Technology* Milin Zhang,Zhihua Wang,Jan Van der Spiegel,2022-09-01 Low Power Circuit Design Using Advanced CMOS Technology is a summary of lectures from the first Advanced CMOS Technology Summer School ACTS 2017 The slides are selected from the handouts while the text was edited according to the lecturers talk ACTS is a joint activity supported by the IEEE Circuit and System Society CASS and the IEEE Solid State Circuits Society SSCS The goal of the school is to provide society members as well researchers and engineers from industry the opportunity to learn about new emerging areas from leading experts in the field ACTS is an example of high level continuous education for junior engineers teachers in academe and students ACTS was the results of a successful collaboration between societies the local chapter leaders and industry leaders This summer school was the brainchild of Dr Zhihua Wang with strong support from volunteers from both the IEEE SSCS and CASS In addition the local companies Synopsys China and Beijing IC Park provided support This first ACTS was held in the summer 2017 in Beijing The lectures were given by

academic researchers and industry experts who presented each 6 hour long lectures on topics covering process technology EDA skill and circuit and layout design skills The school was hosted and organized by the CASS Beijing Chapter SSCS Beijing Chapter and SSCS Tsinghua Student Chapter The co chairs of the first ACTS were Dr Milin Zhang Dr Hanjun Jiang and Dr Liyuan Liu The first ACTS was a great success as illustrated by the many participants from all over China as well as by the publicity it has been received in various media outlets including Xinhua News one of the most popular news channels in China   **Computers as Components** Marilyn Wolf,2008-07-08 Computers as Components Second Edition updates the first book to bring essential knowledge on embedded systems technology and techniques under a single cover This edition has been updated to the state of the art by reworking and expanding performance analysis with more examples and exercises and coverage of electronic systems now focuses on the latest applications It gives a more comprehensive view of multiprocessors including VLIW and superscalar architectures as well as more detail about power consumption There is also more advanced treatment of all the components of the system as well as in depth coverage of networks reconfigurable systems hardware software co design security and program analysis It presents an updated discussion of current industry development software including Linux and Windows CE The new edition s case studies cover SHARC DSP with the TI C5000 and C6000 series and real world applications such as DVD players and cell phones Researchers students and savvy professionals schooled in hardware or software design will value Wayne Wolf s integrated engineering design approach Uses real processors ARM processor and TI C55x DSP to demonstrate both technology and techniques Shows readers how to apply principles to actual design practice Covers all necessary topics with emphasis on actual design practice Realistic introduction to the state of the art for both students and practitioners Stresses necessary fundamentals which can be applied to evolving technologies helps readers gain facility to design large complex embedded systems that actually work   *Automated Calibration of Modulated Frequency Synthesizers* Dan McMahill,2006-04-18 In recent years there has been considerable interest in highly integrated low power portable wireless devices This monograph focuses on the problem of low power GFSK GMSK modulation and presents an architectural approach for improved performance Including several valuable tools for the practicing engineer

High-Performance Embedded Computing Wayne Wolf,2010-07-26 Over the past several years embedded systems have emerged as an integral though unseen part of many consumer industrial and military devices The explosive growth of these systems has resulted in embedded computing becoming an increasingly important discipline The need for designers of high performance application specific computing systems has never been greater and many universities and colleges in the US and worldwide are now developing advanced courses to help prepare their students for careers in embedded computing High Performance Embedded Computing Architectures Applications and Methodologies is the first book designed to address the needs of advanced students and industry professionals Focusing on the unique complexities of embedded system design the book provides a detailed look at advanced topics in the field including multiprocessors VLIW and superscalar architectures

and power consumption Fundamental challenges in embedded computing are described together with design methodologies and models of computation HPEC provides an in depth and advanced treatment of all the components of embedded systems with discussions of the current developments in the field and numerous examples of real world applications Covers advanced topics in embedded computing including multiprocessors VLIW and superscalar architectures and power consumption Provides in depth coverage of networks reconfigurable systems hardware software co design security and program analysis Includes examples of many real world embedded computing applications cell phones printers digital video and architectures the Freescale Starcore TI OMAP multiprocessor the TI C5000 and C6000 series and others   CMOS Biotechnology Hakho Lee,Donhee Ham,Robert M. Westervelt,2007-05-04 CMOS Biotechnology reviews the recent research and developments joining CMOS technology with biology Written by leading researchers these chapters delve into four areas including Microfluidics for electrical engineers CMOS Actuators CMOS Electrical Sensors CMOS Optical Sensors Bioanalytical instruments have been miniaturized on ICs to study various biophenomena or to actuate biosystems These bio lab on IC systems utilize the IC to facilitate faster repeatable and standardized biological experiments at low cost with a small volume of biological sample CMOS Biotechnology will interest electrical engineers bioengineers biophysicists as well as researchers in MEMS bioMEMS microelectronics microfluidics and circuits and systems   *Power Management of Digital Circuits in Deep Sub-Micron CMOS Technologies* Stephan Henzler,2006-11-24 In the deep sub micron regime the power consumption has become one of the most important issues for competitive design of digital circuits Due to dramatically increasing leakage currents the power consumption does not take advantage of technology scaling as before State of art power reduction techniques like the use of multiple supply and threshold voltages transistor stack forcing and power gating are discussed with respect to implementation and power saving capability Focus is given especially on technology dependencies process variations and technology scaling Design and implementation issues are discussed with respect to the trade off between power reduction performance degradation and system level constraints A complete top down design flow is demonstrated for power gating techniques introducing new design methodologies for the switch sizing task and circuit blocks for data retention and block activation The leakage reduction ratio and the minimum power down time are introduced as figures of merit to describe the power gating technique on system level and give a relation to physical circuit parameters Power Management of Digital Circuits in Deep Sub Micron CMOS Technologies mainly deals with circuit design but also addresses the interface between circuit and system level design on the one side and between circuit and physical design on the other side   **Low Power Design Essentials** Jan Rabaey,2009-04-21 Low Power Design Essentials contains all the topics of importance to the low power designer The book lays the foundation with background chapters entitled Advanced MOS Transistors and Their Models and Power Basics These chapters are followed by chapters on the design process including optimization architecture and algorithm level memory run time standby logic and standby memory Chapters on special topics

are also included power management and modal design ultra low power and low power design methodology and flows The book concludes with a chapter on case studies as well as a chapter on Projection into the Future These chapters are all based on the extensive amount of teaching that the author has carried out both at universities and companies worldwide All chapters have been drawn up specifically for self study They aim however at different levels of understanding All the chapters start with elementary material but most also contain advanced material *Low Power VLSI Design* Angsuman Sarkar,Swapnadip De,Manash Chanda,Chandan Kumar Sarkar,2016-08-08 This book teaches basic and advanced concepts new methodologies and recent developments in VLSI technology with a focus on low power design It provides insight on how to use Tanner Spice Cadence tools Xilinx tools VHDL programming and Synopsis to design simple and complex circuits using latest state of the art technologies Emphasis is placed on fundamental transistor circuit level design concepts *Energy Efficient and Reliable Embedded Nanoscale SRAM Design* Bhupendra Singh Reniwal,Pooran Singh,Ambika Prasad Shah,Santosh Kumar Vishvakarma,2023-11-29 This reference text covers a wide spectrum for designing robust embedded memory and peripheral circuitry It will serve as a useful text for senior undergraduate and graduate students and professionals in areas including electronics and communications engineering electrical engineering mechanical engineering and aerospace engineering Discusses low power design methodologies for static random access memory SRAM Covers radiation hardened SRAM design for aerospace applications Focuses on various reliability issues that are faced by submicron technologies Exhibits more stable memory topologies Nanoscale technologies unveiled significant challenges to the design of energy efficient and reliable SRAMs This reference text investigates the impact of process variation leakage aging soft errors and related reliability issues in embedded memory and periphery circuitry The text adopts a unique way to explain the SRAM bitcell array design and analysis of its design parameters to meet the sub nano regime challenges for complementary metal oxide semiconductor devices It comprehensively covers low power design methodologies for SRAM exhibits more stable memory topologies and radiation hardened SRAM design for aerospace applications Every chapter includes a glossary highlights a question bank and problems The text will serve as a useful text for senior undergraduate students graduate students and professionals in areas including electronics and communications engineering electrical engineering mechanical engineering and aerospace engineering Discussing comprehensive studies of variability induced failure mechanism in sense amplifiers and power delay and read yield trade offs this reference text will serve as a useful text for senior undergraduate graduate students and professionals in areas including electronics and communications engineering electrical engineering mechanical engineering and aerospace engineering It covers the development of robust SRAMs well suited for low power multi core processors for wireless sensors node battery operated portable devices personal health care assistants and smart Internet of Things applications *Design for Manufacturability and Statistical Design* Michael Orshansky,Sani Nassif,Duane Boning,2007-10-28 Design for Manufacturability and Statistical Design A Constructive Approach provides a thorough

treatment of the causes of variability methods for statistical data characterization and techniques for modeling analysis and optimization of integrated circuits to improve yield The objective of the constructive approach developed in this book is to formulate a consistent set of methods and principles necessary for rigorous statistical design and design for manufacturability from device physics to large scale circuit optimization The segments of the book are devoted respectively to understanding the causes of variability design of test structures for variability characterization statistically rigorous data analysis techniques of design for manufacturability in lithography and in chemical mechanical polishing statistical simulation analysis and optimization techniques for improving parametric yield Design for Manufacturability and Statistical Design A Constructive Approach presents an overview of the methods that need to be mastered for state of the art design for manufacturability and statistical design methodologies It is an important reference for practitioners and students in the field of computer aided design of integrated circuits   Design of Digital Video Coding Systems Jie Chen,Ut-Va Koc,KJ Ray Liu,2001-10-31 A discussion of a compressed domain approach for designing and implementing digital video coding systems which is drastically different from the traditional hybrid approach It demonstrates how the combination of discrete cosine transform DCT coders and motion compensated MC units reduces power consumption and hardware complexity   Memory Optimizations of Embedded Applications for Energy Efficiency Jong Soo Park,2011 The current embedded processors often do not satisfy increasingly demanding computation requirements of embedded applications within acceptable energy efficiency whereas application specific integrated circuits require excessive design costs In the Stanford Elm project it was identified that instruction and data delivery not computation dominate the energy consumption of embedded processors Consequently the energy efficiency of delivering instructions and data must be sufficiently improved to close the efficiency gap between application specific integrated circuits and programmable embedded processors This dissertation demonstrates that the compiler and run time system can play a crucial role in improving the energy efficiency of delivering instructions and data Regarding instruction delivery I present a compiler algorithm that manages L0 instruction scratch pad memories that reside between processor cores and L1 caches Despite the lack of tags the scratch pad memories with our algorithm can achieve lower miss rates than caches with the same capacities saving significant instruction delivery energy Regarding data delivery I present methods that minimize memory space requirements for parallelizing stream applications applications that are commonly found in the embedded domain When stream applications are parallelized in pipelining large enough buffers are required between pipeline stages to sustain the throughput e g double buffering For static stream applications where production and consumption rates of stages are close to compile time constants a compiler analysis is presented which computes the minimum buffer capacity that maximizes the throughput Based on this analysis a new static streamscheduling algorithm is developed which yields considerable speed up and data delivery energy saving compared to a previous algorithm For dynamic stream applications I present a dynamically sized array based queue design that achieves speed up and data

delivery energy saving compared to a linked list based queue design **Proceedings** ,1997 **Reuse Methodology Manual for System-on-a-Chip Designs** Pierre Bricaud,2007-05-08 This revised and updated third edition outlines a set of best practices for creating reusable designs for use in an System on a Chip SoC design methodology These practices are based on the authors experience in developing reusable designs as well as the experience of design teams in many companies around the world

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