

Low-Power Design Methodology - Motivations

- Minimize power
 - Reduce power in various modes of device operation
 - Dynamic power, leakage power, or total power
- Minimize time
 - Reduce power quickly
 - Complete the design in as little time as possible
 - Prevent downstream issues caused by LPD techniques
 - Avoid complicating timing and functional verification
- Minimize effort
 - Reduce power efficiently
 - Complete the design with as few resources as possible
 - Prevent downstream issues caused by LPD techniques
 - Avoid complicating timing and functional verification

Low Power Design Methodologies

Christian Piguet



Low Power Design Methodologies:

Low Power Design Methodologies Jan M. Rabaey, Massoud Pedram, 2012-12-06 Low Power Design Methodologies presents the first in depth coverage of all the layers of the design hierarchy ranging from the technology circuit logic and architectural levels up to the system layer The book gives insight into the mechanisms of power dissipation in digital circuits and presents state of the art approaches to power reduction Finally it introduces a global view of low power design methodologies and how these are being captured in the latest design automation environments The individual chapters are written by the leading researchers in the area drawn from both industry and academia Extensive references are included at the end of each chapter Audience A broad introduction for anyone interested in low power design Can also be used as a text book for an advanced graduate class A starting point for any aspiring researcher 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 *Introduction to Low-Power Design in VLSIs* Patrick Lee, 2011-12-12 This book discusses one increasingly important issue in the VLSI design low power It covers the following topics a basic concepts of low power design b low power design methods and applications in industry chips and c commercial CAD tools on low power design This book discusses the concepts a set of known methods industry cases and CAD tools on the low power design It is organized in four chapters and a glossary is provided at the end of the book **Low-Power Design Techniques and CAD Tools for Analog and RF Integrated Circuits** Piet Wambacq, Georges Gielen, John Gerrits, 2007-05-08 This unique book provides an overview of the current state of the art and very recent research results that have been achieved as part of the Low Power Initiative of the European Union in the field of analogue RF and mixed signal design methodologies and CAD tools *Practical Low Power Digital VLSI Design* Gary K. Yeap, 2012-12-06 Practical Low Power Digital VLSI Design emphasizes the optimization and trade off techniques that involve power dissipation in the hope that the readers are better prepared the next time they are presented with a low power design problem The book highlights the basic principles methodologies and techniques that are common to most CMOS digital designs The advantages and disadvantages of a particular low power technique are discussed Besides the classical area performance trade off the impact to design cycle time complexity risk testability and

reusability are discussed The wide impacts to all aspects of design are what make low power problems challenging and interesting Heavy emphasis is given to top down structured design style with occasional coverage in the semicustom design methodology The examples and design techniques cited have been known to be applied to production scale designs or laboratory settings The goal of Practical Low Power Digital VLSI Design is to permit the readers to practice the low power techniques using current generation design style and process technology Practical Low Power Digital VLSI Design considers a wide range of design abstraction levels spanning circuit logic architecture and system Substantial basic knowledge is provided for qualitative and quantitative analysis at the different design abstraction levels Low power techniques are presented at the circuit logic architecture and system levels Special techniques that are specific to some key areas of digital chip design are discussed as well as some of the low power techniques that are just appearing on the horizon Practical Low Power Digital VLSI Design will be of benefit to VLSI design engineers and students who have a fundamental knowledge of CMOS digital design

Low Power Design with High-Level Power Estimation and Power-Aware Synthesis Sumit Ahuja,Avinash Lakshminarayana,Sandeep Kumar Shukla,2011-10-22 This book presents novel research techniques algorithms methodologies and experimental results for high level power estimation and power aware high level synthesis Readers will learn to apply such techniques to enable design flows resulting in shorter time to market and successful low power ASIC FPGA design

Nano-CMOS Circuit and Physical Design Ban Wong,Anurag Mittal,Yu Cao,Greg W. Starr,2005-04-08 Based on the authors expansive collection of notes taken over the years Nano CMOS Circuit and Physical Design bridges the gap between physical and circuit design and fabrication processing manufacturability and yield This innovative book covers process technology including sub wavelength optical lithography impact of process scaling on circuit and physical implementation and low power with leaky transistors and DFM yield and the impact of physical implementation

Closing the Power Gap between ASIC & Custom David Chinnery,Kurt Keutzer,2008-01-23 Explains how to use low power design in an automated design flow and examine the design time and performance trade offs Includes the latest tools and techniques for low power design applied in an ASIC design flow Focuses on low power in an automated design methodology a much neglected area

Low Power Design in Deep Submicron Electronics W. Nebel,Jean

Mermet,2013-06-29 Low Power Design in Deep Submicron Electronics deals with the different aspects of low power design for deep submicron electronics at all levels of abstraction from system level to circuit level and technology Its objective is to guide industrial and academic engineers and researchers in the selection of methods technologies and tools and to provide a baseline for further developments Furthermore the book has been written to serve as a textbook for postgraduate student courses In order to achieve both goals it is structured into different chapters each of which addresses a different phase of the design a particular level of abstraction a unique design style or technology These design related chapters are amended by motivations in Chapter 2 which presents visions both of future low power applications and technology advancements and by

some advanced case studies in Chapter 9 From the Foreword This global nature of design for low power was well understood by Wolfgang Nebel and Jean Mermet when organizing the NATO workshop which is the origin of the book They invited the best experts in the field to cover all aspects of low power design As a result the chapters in this book are covering deep submicron CMOS digital system design for low power in a systematic way from process technology all the way up to software design and embedded software systems Low Power Design in Deep Submicron Electronics is an excellent guide for the practicing engineer the researcher and the student interested in this crucial aspect of actual CMOS design It contains about a thousand references to all aspects of the recent five years of feverish activity in this exciting aspect of design Hugo de Man Professor K U Leuven Belgium Senior Research Fellow IMEC Belgium

Power Aware Design Methodologies Massoud Pedram, Jan M. Rabaey, 2007-05-08 Power Aware Design Methodologies was conceived as an effort to bring all aspects of power aware design methodologies together in a single document It covers several layers of the design hierarchy from technology circuit logic and architectural levels up to the system layer It includes discussion of techniques and methodologies for improving the power efficiency of CMOS circuits digital and analog systems on chip microelectronic systems wirelessly networked systems of computational nodes and so on In addition to providing an in depth analysis of the sources of power dissipation in VLSI circuits and systems and the technology and design trends this book provides a myriad of state of the art approaches to power optimization and control The different chapters of Power Aware Design Methodologies have been written by leading researchers and experts in their respective areas Contributions are from both academia and industry The contributors have reported the various technologies methodologies and techniques in such a way that they are understandable and useful

Low Power Methodology Manual David Flynn, Rob Aitken, Alan Gibbons, Kaijian Shi, 2007-07-31 Tools alone aren't enough to reduce dynamic and leakage power in complex chip designs a well planned methodology is needed Following in the footsteps of the successful Reuse Methodology Manual RMM authors from ARM and Synopsys have written this Low Power Methodology Manual LPMM to describe such a low power methodology with a practical step by step approach Richard Goering Software Editor EE Times Excellent compendium of low power techniques and guidelines with balanced content spanning theory and practical implementation The LPMM is a very welcome addition to the field of low power SoC implementation that has for many years operated in a largely ad hoc fashion Sujeeth Joseph Chief Architect Semiconductor and Systems Solutions Unit Wipro Technologies The LPMM enables broader adoption of aggressive power management techniques based on extensive experience and silicon example with real data that every SOC designer can use to meet the difficulties faced in managing the power issues in deep submicron designs Anil Mankar Sr VP Worldwide Core Engineering and Chief Development Officer Conexant Systems Inc Managing power at 90nm and below introduces significant challenges to design flow The LPMM is a timely and immediately useful book that shows how combination of tools IP and methodology can be used together to address power management Nick Salter Head of Chip Integration CSR plc

Design and Modeling of Low Power VLSI Systems Sharma, Manoj, Gautam, Ruchi, Khan, Mohammad Ayoub, 2016-06-06

Very Large Scale Integration VLSI Systems refer to the latest development in computer microchips which are created by integrating hundreds of thousands of transistors into one chip Emerging research in this area has the potential to uncover further applications for VLSI technologies in addition to system advancements Design and Modeling of Low Power VLSI Systems analyzes various traditional and modern low power techniques for integrated circuit design in addition to the limiting factors of existing techniques and methods for optimization Through a research based discussion of the technicalities involved in the VLSI hardware development process cycle this book is a useful resource for researchers engineers and graduate level students in computer science and engineering

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

Processors and Systems on Chips Christian Pigué, 2018-10-03 The power consumption of microprocessors is one of the most important challenges of high performance chips and portable devices In chapters drawn from Pigué's recently published Low Power Electronics Design this volume addresses the design of low power microprocessors in deep submicron technologies It provides a focused reference for specialists involved in systems on chips from low power microprocessors to DSP cores reconfigurable processors memories ad hoc networks and embedded software Low Power Processors and Systems on Chips is organized into three broad sections for convenient access The first section examines the design of digital signal processors for embedded applications and techniques for reducing dynamic and static power at the electrical and system levels The second part describes several aspects of low power systems on chips including hardware and embedded software aspects efficient data storage networks on chips and applications such as routing strategies in wireless RF sensing and actuating devices The final section discusses embedded software issues including details on compilers retargetable compilers and coverification tools Providing detailed examinations contributed by leading experts Low Power Processors and Systems on Chips supplies authoritative information on how to maintain high performance while lowering power consumption in modern processors and SoCs It is a must read for anyone designing modern computers or embedded systems

Low Power

RF Circuit Design in Standard CMOS Technology Unai Alvarado, Guillermo Bistué, Iñigo Adín, 2011-10-18 Low Power Consumption is one of the critical issues in the performance of small battery powered handheld devices Mobile terminals feature an ever increasing number of wireless communication alternatives including GPS Bluetooth GSM 3G WiFi or DVB H Considering that the total power available for each terminal is limited by the relatively slow increase in battery performance expected in the near future the need for efficient circuits is now critical This book presents the basic techniques available to design low power RF CMOS analogue circuits It gives circuit designers a complete guide of alternatives to optimize power

consumption and explains the application of these rules in the most common RF building blocks LNA mixers and PLLs It is set out using practical examples and offers a unique perspective as it targets designers working within the standard CMOS process and all the limitations inherent in these technologies

Principles of Asynchronous Circuit Design Jens Sparsø, Steve Furber, 2013-04-17 Principles of Asynchronous Circuit Design A Systems Perspective addresses the need for an introductory text on asynchronous circuit design Part I is an 8 chapter tutorial which addresses the most important issues for the beginner including how to think about asynchronous systems Part II is a 4 chapter introduction to Balsa a freely available synthesis system for asynchronous circuits which will enable the reader to get hands on experience of designing high level asynchronous systems Part III offers a number of examples of state of the art asynchronous systems to illustrate what can be built using asynchronous techniques The examples range from a complete commercial smart card chip to complex microprocessors The objective in writing this book has been to enable industrial designers with a background in conventional clocked design to be able to understand asynchronous design sufficiently to assess what it has to offer and whether it might be advantageous in their next design task

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

Low-Power Variation-Tolerant Design in Nanometer Silicon Swarup Bhunia, Saibal Mukhopadhyay, 2010-11-10 Design considerations for low power operations and robustness with respect to variations typically impose contradictory requirements Low power design techniques such as voltage scaling dual threshold assignment and gate sizing can have large negative impact on parametric yield under process variations This book focuses on circuit architectural design techniques for achieving low power operation under parameter variations We consider both logic and memory design aspects and cover modeling and analysis as well as design methodology to achieve simultaneously low power and variation tolerance while minimizing design overhead This book will discuss current industrial practices and emerging challenges at future technology nodes

System-on-Chip Bashir M. Al-Hashimi, 2006-01-31 This book highlights both the key achievements of electronic systems design targeting SoC implementation style and the future challenges presented by the continuing scaling of CMOS technology

Power Estimation and Optimization Methodologies for VLIW-based Embedded Systems Vittorio Zaccaria, M.G. Sami, Donatella Sciuto, Cristina Silvano, 2007-05-08 LOW power design is playing an important role in today ultra large scale integration ULSI design particularly as we continue to double the number of transistors on a die every two

years and increase the frequency of operation at fairly the same rate. Certainly an important aspect of low power faces with mobile communications and it has a huge impact on our lives as we are at the start line of the proliferation of mobile PDA's, Personal Digital Assistants, Wireless LAN and portable multi media computing. All of these devices are shaping the way we will be interacting with our family, peers and workplace, thus requiring also a new and innovative low power design paradigm. Furthermore, low power design techniques are becoming paramount in high performance desktop, base station and server applications such as high speed microprocessors where excess in power dissipation can lead to a number of cooling, reliability and signal integrity concerns severely burdening the total industrial cost. Hence low power design can be easily anticipated to further come into prominence as we move to next generation System on Chip and Network on Chip designs. This book is entirely devoted to disseminate the results of a long term research program between Politecnico di Milano, Italy and STMicroelectronics in the field of architectural exploration and optimization techniques to designing low power embedded systems.

This book delves into Low Power Design Methodologies. Low Power Design Methodologies is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Low Power Design Methodologies, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Low Power Design Methodologies
 - Chapter 2: Essential Elements of Low Power Design Methodologies
 - Chapter 3: Low Power Design Methodologies in Everyday Life
 - Chapter 4: Low Power Design Methodologies in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Low Power Design Methodologies. This chapter will explore what Low Power Design Methodologies is, why Low Power Design Methodologies is vital, and how to effectively learn about Low Power Design Methodologies.
 3. In chapter 2, the author will delve into the foundational concepts of Low Power Design Methodologies. The second chapter will elucidate the essential principles that need to be understood to grasp Low Power Design Methodologies in its entirety.
 4. In chapter 3, this book will examine the practical applications of Low Power Design Methodologies in daily life. This chapter will showcase real-world examples of how Low Power Design Methodologies can be effectively utilized in everyday scenarios.
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 6. In chapter 5, this book will draw a conclusion about Low Power Design Methodologies. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Low Power Design Methodologies.

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