

# 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

**David Chinnery, Kurt Keutzer**



## **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

**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 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 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

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 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

**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

**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

**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 and Power-Aware Verification** Progyna Khondkar, 2017-10-05 Until now there has been a lack of a complete knowledge base to fully comprehend Low power LP design and power aware PA verification techniques and methodologies and deploy them all together in a real design verification and implementation project This book is a first approach to establishing a comprehensive PA knowledge base LP design PA verification and Unified Power Format UPF or IEEE 1801 power format standards are no longer special features These technologies and methodologies are now part of industry standard design verification and implementation flows DVIF Almost every chip design today incorporates some kind of low power technique either through power management on chip by dividing the design into different voltage areas and controlling the voltages through PA dynamic and PA static verification or their combination The entire LP design and PA verification process involves thousands of techniques tools and methodologies employed from the register transfer level RTL

of design abstraction down to the synthesis or place and route levels of physical design These techniques tools and methodologies are evolving everyday through the progression of design verification complexity and more intelligent ways of handling that complexity by engineers researchers and corporate engineering policy makers Sustainable Practices: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2013-12-31 This reference explores some of the most recent developments in sustainability delving into topics beyond environmental science to cover issues of sustainable economic political and social development Provided by publisher

**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

**The Computer Engineering Handbook** Vojin G. Oklobdzija,2001-12-26 There is arguably no field in greater need of a comprehensive handbook than computer engineering The unparalleled rate of technological advancement the explosion of computer applications and the now in progress migration to a wireless world have made it difficult for engineers to keep up with all the developments in specialties outside their own

**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

**Low Power Design Methodology** Vithyalakshmi Natarajan,2018 Due to widespread application of portable electronic devices and the evaluation of microelectronic technology power dissipation has become a critical parameter in low power VLSI circuit designs In emerging VLSI technology the circuit complexity and high speed imply significant increase in the power consumption In low power CMOS VLSI circuits the energy dissipation is caused by charging and discharging of internal node capacitances due to transition activity which is one of the major factors that also affect the dynamic power dissipation The reduction in power area and the improvement of speed require optimization at all levels of design procedures Here various design methodologies are discussed to achieve our required low power design concepts

'Advances in Microelectronics: Reviews', Vol\_1 Sergey Yurish,2017-12-24 The 1st volume of Advances in Microelectronics Reviews Book Series contains 19 chapters written by 72 authors from academia and industry from 16 countries With unique combination of information in each volume the Advances in Microelectronics Reviews Book Series will

be of value for scientists and engineers in industry and at universities In order to offer a fast and easy reading of the state of the art of each topic every chapter in this book is independent and self contained All chapters have the same structure first an introduction to specific topic under study second particular field description including sensing applications Each of chapter is ending by well selected list of references with books journals conference proceedings and web sites This book ensures that readers will stay at the cutting edge of the field and get the right and effective start point and road map for the further researches and developments *The VLSI Handbook* Wai-Kai Chen, 2019-07-17 Over the years the fundamentals of VLSI technology have evolved to include a wide range of topics and a broad range of practices To encompass such a vast amount of knowledge The VLSI Handbook focuses on the key concepts models and equations that enable the electrical engineer to analyze design and predict the behavior of very large scale integrated circuits It provides the most up to date information on IC technology you can find Using frequent examples the Handbook stresses the fundamental theory behind professional applications Focusing not only on the traditional design methods it contains all relevant sources of information and tools to assist you in performing your job This includes software databases standards seminars conferences and more The VLSI Handbook answers all your needs in one comprehensive volume at a level that will enlighten and refresh the knowledge of experienced engineers and educate the novice This one source reference keeps you current on new techniques and procedures and serves as a review for standard practice It will be your first choice when looking for a solution

**Information Systems for Intelligent Systems** Andres Iglesias, Jungpil Shin, Bharat Patel, Amit Joshi, 2025-07-26 This book includes selected papers presented at World Conference on Information Systems for Business Management ISBM 2024 held in Bangkok Thailand during September 12 13 2024 It covers up to date cutting edge research on data science information systems infrastructure and computational systems engineering systems business information systems and smart secure systems

**Smart Industry & Smart Education** Michael E. Auer, Reinhard Langmann, 2018-07-24 The REV conference aims to discuss the fundamentals applications and experiences in remote engineering virtual instrumentation and related new technologies as well as new concepts for education on these topics including emerging technologies in learning MOOCs MOOLs Open Resources and STEM pre university education In the last 10 years remote solutions based on Internet technology have been increasingly deployed in numerous areas of research science industry medicine and education With the new focus on cyber physical systems Industry 4 0 Internet of Things and the digital transformation in industry economy and education the core topics of the REV conference have become indispensable elements of a future digitized society REV 2018 which was held at the University of Applied Sciences in Duesseldorf from 21 23 March 2018 addressed these topics as well as state of the art and future trends

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