

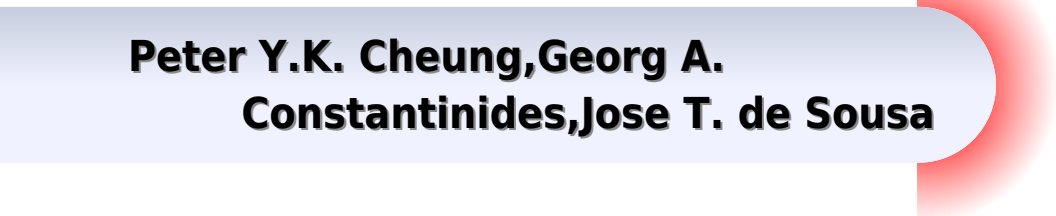
Designing Low-Power Circuits: Practical Recipes

*by Luca Benini **
Giovanni De Micheli
Enrico Macii



Designing Low Power Circuits Practical Recipes

**Peter Y.K. Cheung, Georg A.
Constantinides, Jose T. de Sousa**



Designing Low Power Circuits Practical Recipes:

Integrated Circuit and System Design. Power and Timing Modeling, Optimization and Simulation Jose L. Ayala, Braulio Garcia-Camara, Manuel Prieto, Martino Ruggiero, Gilles Sicard, 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 *Integrated Circuit and System Design. Power and Timing Modeling, Optimization and Simulation* Johan Vounckx, Nadine Azemard, Philippe Maurine, 2006-09-07 This book constitutes the refereed proceedings of the 16th International Workshop on Power and Timing Modeling Optimization and Simulation PATMOS 2006 The book presents 41 revised full papers and 23 revised poster papers together with 4 key notes and 3 industrial abstracts Topical sections include high level design power estimation and modeling memory and register files low power digital circuits busses and interconnects low power techniques applications and SoC design modeling and more Integrated Circuit and System Design. Power and Timing Modeling, Optimization and Simulation Nadine Azemard, 2007-08-21 This volume features the refereed proceedings of the 17th International Workshop on Power and Timing Modeling Optimization and Simulation Papers cover high level design low power design techniques low power analog circuits statistical static timing analysis power modeling and optimization low power routing optimization security and asynchronous design low power applications modeling and optimization and more Integrated Circuit and System Design: Power and Timing Modeling, Optimization and Simulation José Monteiro, Rene van Leuken, 2010-02-06 This book constitutes the thoroughly refereed post conference proceedings of 19th International Workshop on Power and Timing Modeling Optimization and Simulation PATMOS 2009 featuring Integrated Circuit and System Design held in Delft The Netherlands during September 9 11 2009 The 26 revised full papers and 10 revised poster papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on variability statistical timing circuit level techniques power management low power circuits technology system level techniques power timing optimization techniques self timed circuits low power circuit analysis optimization and low power design studies **Circuits and Systems**

Advances in Near Threshold Computing Sanghamitra Roy, 2021-05-11 Modern society is witnessing a sea change in ubiquitous computing in which people have embraced computing systems as an indispensable part of day to day existence Computation storage and communication abilities of smartphones for example have undergone monumental changes over the past decade However global emphasis on creating and sustaining green environments is leading to a rapid and ongoing proliferation of edge computing systems and applications As a broad spectrum of healthcare home and transport applications

shift to the edge of the network near threshold computing NTC is emerging as one of the promising low power computing platforms An NTC device sets its supply voltage close to its threshold voltage dramatically reducing the energy consumption Despite showing substantial promise in terms of energy efficiency NTC is yet to see widescale commercial adoption This is because circuits and systems operating with NTC suffer from several problems including increased sensitivity to process variation reliability problems performance degradation and security vulnerabilities to name a few To realize its potential we need designs techniques and solutions to overcome these challenges associated with NTC circuits and systems The readers of this book will be able to familiarize themselves with recent advances in electronics systems focusing on near threshold computing

Computer Arithmetic Earl E Swartzlander, 2015-03-17 This is the new edition of the classic book Computer Arithmetic in three volumes published originally in 1990 by IEEE Computer Society Press As in the original the book contains many classic papers treating advanced concepts in computer arithmetic which is very suitable as stand alone textbooks or complementary materials to textbooks on computer arithmetic for graduate students and research professionals interested in the field Told in the words of the initial developers this book conveys the excitement of the creators and the implementations provide insight into the details necessary to realize real chips This second volume presents topics on error tolerant arithmetic digit on line arithmetic number systems and now in this new edition a topic on implementations of arithmetic operations all wrapped with an updated overview and a new introduction for each chapter This volume is part of a 3 volume set Computer Arithmetic Volume I Computer Arithmetic Volume II Computer Arithmetic Volume III The full set is available for sale in a print only version Contents Error Tolerant Arithmetic On Line Arithmetic VLSI Adder Implementations VLSI Multiplier Implementations Floating Point VLSI Chips Number Representation Implementations Readership Graduate students and research professionals interested in computer arithmetic Key Features It reprints the classic papers It covers advanced arithmetic operations It does this in the words of the original creators Keywords Computer Arithmetic Fault Tolerant Arithmetic On Line Arithmetic Adder Implementations Multiplier Implementations Floating Point Chips Number Representation Implementations

Multicore Systems On-Chip: Practical Software/Hardware Design Abderazek Ben Abdallah, 2013-07-20 System on chips designs have evolved from fairly simple uncore single memory designs to complex heterogeneous multicore SoC architectures consisting of a large number of IP blocks on the same silicon To meet high computational demands posed by latest consumer electronic devices most current systems are based on such paradigm which represents a real revolution in many aspects in computing The attraction of multicore processing for power reduction is compelling By splitting a set of tasks among multiple processor cores the operating frequency necessary for each core can be reduced allowing to reduce the voltage on each core Because dynamic power is proportional to the frequency and to the square of the voltage we get a big gain even though we may have more cores running As more and more cores are integrated into these designs to share the ever increasing processing load the main challenges lie in efficient memory hierarchy scalable

system interconnect new programming paradigms and efficient integration methodology for connecting such heterogeneous cores into a single system capable of leveraging their individual flexibility Current design methods tend toward mixed HW SW co designs targeting multicore systems on chip for specific applications To decide on the lowest cost mix of cores designers must iteratively map the device s functionality to a particular HW SW partition and target architectures In addition to connect the heterogeneous cores the architecture requires high performance complex communication architectures and efficient communication protocols such as hierarchical bus point to point connection or Network on Chip Software development also becomes far more complex due to the difficulties in breaking a single processing task into multiple parts that can be processed separately and then reassembled later This reflects the fact that certain processor jobs cannot be easily parallelized to run concurrently on multiple processing cores and that load balancing between processing cores especially heterogeneous cores is very difficult

Signal Processing and Integrated Circuits Hussein Baher, 2012-04-23
This book provides a balanced account of analog digital and mixed mode signal processing with applications in telecommunications Part I Perspective gives an overview of the areas of Systems on a Chip Soc and mobile communication which are used to demonstrate the complementary relationship between analog and digital systems Part II Analog continuous time and Digital Signal Processing contains both fundamental and advanced analysis and design techniques of analog and digital systems This includes analog and digital filter design fast Fourier transform FFT algorithms stochastic signals linear estimation and adaptive filters Part III Analog MOS Integrated Circuits for Signal Processing covers basic MOS transistor operation and fabrication through to the design of complex integrated circuits such as high performance Op Amps Operational Transconductance Amplifiers OTA s and Gm C circuits Part IV Switched capacitor and Mixed mode Signal Processing outlines the design of switched capacitor filters and concludes with sigma delta data converters as an extensive application of analog and digital signal processing Contains the fundamentals and advanced techniques of continuous time and discrete time signal processing Presents in detail the design of analog MOS integrated circuits for signal processing with application to the design of switched capacitor filters Uses the comprehensive design of integrated sigma delta data converters to illustrate and unify the techniques of signal processing Includes solved examples end of chapter problems and MATLAB throughout the book to help readers understand the mathematical complexities of signal processing The treatment of the topic is at the senior undergraduate to graduate and professional levels with sufficient introductory material for the book to be used as a self contained reference

'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

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functional decomposition including producing circuits with fewer elements that are faster and consume less power than their counterparts The book includes experimental results proving the efficiency of the proposed solutions and compares the numbers in Look up Tables LUTs showing the performance maximum operating frequency and power consumption for various methods of state assignment The audience for this book is students researchers and engineers specializing in computer science engineering electronics and telecommunications It will be especially useful for engineers working within the scope of algorithms hardware based software accelerators and control units and systems based on the use of FPGAs

Introduction to VLSI Design Flow Saurabh, 2023 **Soft Computing and Signal Processing** V. Sivakumar Reddy, V. Kamakshi Prasad, Jiacun Wang, K. T. V. Reddy, 2021-07-23 This book presents selected research papers on current developments in the fields of soft computing and signal processing from the Third International Conference on Soft Computing and Signal Processing ICSCSP 2020 The book covers topics such as soft sets rough sets fuzzy logic neural networks genetic algorithms and machine learning and discusses various aspects of these topics e g technological considerations product implementation and application issues *4th International Conference on Biomedical Engineering in Vietnam* Vo Van Toi, Nguyen Bao Toan, Truong Quang Dang Khoa, Tran Ha Lien Phuong, 2012-09-20 This volume presents the proceedings of the Fourth International Conference on the Development of Biomedical Engineering in Vietnam which was held in Ho Chi Minh City as a Mega conference It is kicked off by the Regenerative Medicine Conference with the theme BUILDING A FACE USING A REGENERATIVE MEDICINE APPROACH endorsed mainly by the Tissue Engineering and Regenerative Medicine International Society TERMIS It is followed by the Computational Medicine Conference endorsed mainly by the Computational Surgery International Network COSINE and the Computational Molecular Medicine of German National Funding Agency and the General Biomedical Engineering Conference endorsed mainly by the International Federation for Medical and Biological Engineering IFMBE It featured the contributions of 435 scientists from 30 countries including Australia Austria Belgium Canada China Finland France Germany Hungary India Iran Italy Japan Jordan Korea Malaysia Netherlands Pakistan Poland Russian Federation Singapore Spain Switzerland Taiwan Turkey Ukraine United Kingdom United States Uruguay and Viet Nam **Proceedings of the 1st International Conference on Electronic Engineering and Renewable Energy** Bekkay Hajji, Giuseppe Marco Tina, Kamal Ghoumid, Abdelhamid Rabhi, Adel Mellit, 2018-08-01 The proceedings present a selection of refereed papers presented at the 1st International Conference on Electronic Engineering and Renewable Energy ICEERE 2018 held during 15 17 April 2018 Saidi Morocco The contributions from electrical engineers and experts highlight key issues and developments essential to the multifaceted field of electrical engineering systems and seek to address multidisciplinary challenges in Information and Communication Technologies The book has a special focus on energy challenges for developing the Euro Mediterranean regions through new renewable energy technologies in the agricultural and rural areas The book is intended for academia including graduate students experienced

researchers and industrial practitioners working in the fields of Electronic Engineering and Renewable Energy Field Programmable Logic and Application Jürgen Becker,Marco Platzner,Serge Vernalde,2004-08-11 This book contains the papers presented at the 14th International Conference on Field Programmable Logic and Applications FPL held during August 30th September 1st 2004 The conference was hosted by the Interuniversity Micro Electronics Center IMEC in Leuven Belgium The FPL series of conferences was founded in 1991 at Oxford University UK and has been held annually since in Oxford 3 times Vienna Prague Darmstadt London Tallinn Glasgow Villach Belfast Montpellier and Lisbon It is the largest and oldest conference in reconfigurable computing and brings together academic researchers industry experts users and newcomers in an informal welcoming atmosphere that encourages productive exchange of ideas and knowledge between the delegates The fast and exciting advances in field programmable logic are increasing steadily with more and more application potential and need New ground has been broken in architectures design techniques partial run time reconfiguration and applications of field programmable devices in several different areas Many of these recent innovations are reported in this volume The size of the FPL conferences has grown significantly over the years FPL in 2003 saw 216 papers submitted The interest and support for FPL in the programmable logic community continued this year with 285 scientific papers submitted demonstrating a 32% increase when compared to the year before The technical program was assembled from 78 selected regular papers 45 additional short papers and 29 posters resulting in this volume of proceedings The program also included three invited plenary keynote presentations from Xilinx Gilder Technology Report and Altera and three embedded tutorials from Xilinx the Universit at Karlsruhe TH and the University of Oslo Smart Computing Mohammad Ayoub Khan,Sanjay Gairola,Bhola Jha,Pushkar Praveen,2021-06-22 The field of SMART technologies is an interdependent discipline It involves the latest burning issues ranging from machine learning cloud computing optimisations modelling techniques Internet of Things data analytics and Smart Grids among others that are all new fields It is an applied and multi disciplinary subject with a focus on Specific Measurable Achievable Realistic Timely system operations combined with Machine intelligence Real Time computing It is not possible for any one person to comprehensively cover all aspects relevant to SMART Computing in a limited extent work Therefore these conference proceedings address various issues through the deliberations by distinguished Professors and researchers The SMARTCOM 2020 proceedings contain tracks dedicated to different areas of smart technologies such as Smart System and Future Internet Machine Intelligence and Data Science Real Time and VLSI Systems Communication and Automation Systems The proceedings can be used as an advanced reference for research and for courses in smart technologies taught at graduate level Embedded Systems Kiyofumi Tanaka,2012-03-02 Nowadays embedded systems the computer systems that are embedded in various kinds of devices and play an important role of specific control functions have permitted various aspects of industry Therefore we can hardly discuss our life and society from now onwards without referring to embedded systems For wide ranging embedded systems to continue their growth a

number of high quality fundamental and applied researches are indispensable This book contains 19 excellent chapters and addresses a wide spectrum of research topics on embedded systems including basic researches theoretical studies and practical work Embedded systems can be made only after fusing miscellaneous technologies together Various technologies condensed in this book will be helpful to researchers and engineers around the world Field Programmable Logic and Applications Peter Y.K. Cheung, Georg A. Constantinides, Jose T. de Sousa, 2003-10-02 This book contains the papers presented at the 13th International Workshop on Field Programmable Logic and Applications FPL held on September 1-3 2003 The conference was hosted by the Institute for Systems and Computer Engineering Research and Development of Lisbon INESC ID and the Department of Electrical and Computer Engineering of the IST Technical University of Lisbon Portugal The FPL series of conferences was founded in 1991 at Oxford University UK and has been held annually since in Oxford 3 times Vienna Prague Darmstadt London Tallinn Glasgow Villach Belfast and Montpellier It brings together academic researchers industrial experts users and newcomers in a formal

welcoming atmosphere that encourages productive exchange of ideas and knowledge between delegates Exciting advances in embedded programmable logic show no sign of slowing down New grounds have been broken in architectures design techniques run time configuration and applications of embedded programmable devices in several different areas Many of these innovations are reported in this volume The size of FPL conferences has grown significantly over the years FPL in 2002 saw 214 papers submitted representing an increase of 83% when compared to the year before The interest and support for FPL in the programmable logic community continued this year with 216 papers submitted The technical program was assembled from 90 selected regular papers and 56 posters resulting in this volume of proceedings The program also included three invited plenary keynote presentations from LSI Logic Xilinx and Cadence and three industrial tutorials from Altera Mentor Graphics and Daffa MULTICORE SYSTEMS ON-CHIP Ben Abadallah Abderazek, 2010-08-01 Conventional on chip communication design mostly use ad hoc approaches that fail to meet the challenges posed by the next generation MultiCore Systems on chip MCoS designs These major challenges include wiring delay predictability diverse interconnection architectures and power dissipation A Network on Chip NoC paradigm is emerging as the solution for the problems of interconnecting dozens of cores into a single system on chip However there are many problems associated with the design of such systems These problems arise from non scalable global wire delays failure to achieve global synchronization and difficulties associated with non scalable bus based functional interconnects The book consists of three parts with each part being subdivided into four chapters The first part deals with design and methodology issues The architectures used in conventional methods of MCoS design and custom multiprocessor architectures are not flexible enough to meet the requirements of different application domains and not scalable enough to meet different computation needs and different complexities of various applications Several chapters of the first part will emphasize on the design techniques and methodologies The second part covers the

most critical part of MCMs design the interconnections One approach to addressing the design methodologies is to adopt the so called reusability feature to boost design productivity In the past years the primitive design units evolved from transistors to gates finite state machines and processor cores The network on chip paradigm offers this attractive property for the future and will be able to close the productivity gap The last part of this book delves into MCMs validations and optimizations A more qualitative approach of system validation is based on the use of formal techniques for hardware design The main advantage of formal methods is the possibility to prove the validity of essential design requirements As formal languages have a mathematical foundation it is possible to formally extract and verify these desired properties of the complete abstract state space Online testing techniques for identifying faults that can lead to system failure are also surveyed Emphasis is given to analytical redundancy based techniques that have been developed for fault detection and isolation in the automatic control area

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