

DIGITAL INTEGRATED CIRCUITS

A DESIGN PERSPECTIVE



JAN M. RABAEY

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Digital Integrated Circuit Rabaey

**Valentijn De Smedt, Georges
Gielen, Wim Dehaene**



Digital Integrated Circuit Rabaey:

Digital Integrated Circuits Jan M. Rabaey, Anantha P. Chandrakasan, Borivoje Nikolić, 2003 Intended for use in undergraduate senior level digital circuit design courses with advanced material sufficient for graduate level courses Progressive in content and form this text successfully bridges the gap between the circuit perspective and system perspective of digital integrated circuit design Beginning with solid discussions on the operation of electronic devices and in depth analysis of the nucleus of digital design the text maintains a consistent logical flow of subject matter throughout The revision addresses today's most significant and compelling industry topics including the impact of interconnect design for low power issues in timing and clocking design methodologies and the tremendous effect of design automation on the digital design perspective The revision reflects the ongoing evolution in digital integrated circuit design especially with respect to the impact of moving into the deep submicron realm

Digital Integrated Circuits Jan M. Rabaey, 1996 Contemporary in content and form this practical book successfully bridges the gap between the circuit perspective and system perspective of digital integrated circuit design Beginning with a solid foundation of the operation of electronic devices and an in depth analysis of the nucleus of digital design it maintains a consistent logical flow of subject matter throughout addressing today's most significant and compelling industry topics the effect of interconnect design for low power issues in timing and clocking design methodologies and the tremendous impact of design automation on the digital design perspective Discusses state of the art topics in design such as complex gates adders multipliers registers controllers and memories Focuses on practical design issues with examples design problems and case studies creating practical knowledge readers can readily apply in industrial design Offers perspectives on the future evolution of design practice at the end of each chapter to put issues discussed in a broader vision Includes many illustrations and reality based design problems to foster comprehension For professional engineers

Digital integrated Circuits, 1976

Digital Integrated Circuits, *Digital Integrated Circuits* Jan M. Rabaey, Anantha P. Chandrakasan, Borivoje Nikolić, 2008

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

Digital Integrated Circuits : Design Perspective(2nd Edition)(Paperback) Jan M. Rabaey, 2012-01-01 **Outlines and Highlights**

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Piguet,2018-10-03 The power consumption of integrated circuits is one of the most problematic considerations affecting the design of high performance chips and portable devices The study of power saving design methodologies now must also include subjects such as systems on chips embedded software and the future of microelectronics Low Power Electronics Design covers all major aspects of low power design of ICs in deep submicron technologies and addresses emerging topics related to future design This volume explores in individual chapters written by expert authors the many low power techniques born during the past decade It also discusses the many different domains and disciplines that impact power consumption including processors complex circuits software CAD tools and energy sources and management The authors delve into what many specialists predict about the future by presenting techniques that are promising but are not yet reality They investigate nanotechnologies optical circuits ad hoc networks e textiles as well as human powered sources of energy Low Power Electronics Design delivers a complete picture of today s methods for reducing power and also illustrates the advances in chip design that may be commonplace 10 or 15 years from now **Low-Power CMOS Circuits** Christian

Piguet,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 Piguet s recently published Low Power Electronics Design Low Power CMOS Circuits Technology Logic Design and CAD Tools addresses the design of low power circuitry in deep submicron technologies It provides a focused reference for specialists involved in designing low power circuitry from transistors to logic gates The book is organized into three broad sections for convenient access The first examines the history of low power electronics along with a look at emerging and possible future technologies It also considers other technologies such as nanotechnologies and optical chips that may be useful in designing integrated circuits The second part explains the techniques used to reduce power consumption at low levels These include clock gating leakage reduction interconnecting and communication on chips and adiabatic circuits The final section discusses various CAD tools for designing low power circuits This section includes three chapters that demonstrate the tools and low power design issues at three major companies that produce logic synthesizers Providing detailed examinations contributed by leading experts Low Power CMOS Circuits Technology Logic Design and CAD Tools supplies authoritative information on how to design and model for high performance with low power consumption in modern integrated circuits It is a must read for anyone designing modern computers or embedded systems **Electronic Design Automation** Laung-Terng Wang,Yao-Wen Chang,Kwang-Ting (Tim) Cheng,2009-03-11 This book provides broad and comprehensive coverage of the entire EDA flow EDA VLSI practitioners and

researchers in need of fluency in an adjacent field will find this an invaluable reference to the basic EDA concepts principles data structures algorithms and architectures for the design verification and test of VLSI circuits Anyone who needs to learn the concepts principles data structures algorithms and architectures of the EDA flow will benefit from this book Covers complete spectrum of the EDA flow from ESL design modeling to logic test synthesis verification physical design and test helps EDA newcomers to get up and running quickly Includes comprehensive coverage of EDA concepts principles data structures algorithms and architectures helps all readers improve their VLSI design competence Contains latest advancements not yet available in other books including Test compression ESL design modeling large scale floorplanning placement routing synthesis of clock and power ground networks helps readers to design develop testable chips or products Includes industry best practices wherever appropriate in most chapters helps readers avoid costly mistakes

Digital VLSI Chip Design with Cadence and Synopsys CAD Tools Erik Brunvand, 2010 Digital VLSI Chip Design with Cadence and Synopsys CAD Tools leads students through the complete process of building a ready to fabricate CMOS integrated circuit using popular commercial design software Detailed tutorials include step by step instructions and screen shots of tool windows and dialog boxes This hands on book is for use in conjunction with a primary textbook on digital VLSI University instructors may order Digital VLSI Chip Design with Cadence and Synopsys CAD Tools with the following textbooks Rabaey Cover Image Digital Integrated Circuits 2nd Edition by Jan M Rabaey Anantha Chandrakasan and Borivoje Nikoli To order Digital Integrated Circuits 2nd Edition packaged with Digital VLSI Chip Design with Cadence and Synopsys CAD Tools please use ISBN 0 13 509470 4 on your bookstore order form Weste Cover Image CMOS VLSI Design 3rd Edition by Neil H E Weste and David Harris To order CMOS VLSI Design 3rd Edition packaged with Digital VLSI Chip Design with Cadence and Synopsys CAD Tools please use ISBN 0 13 509469 0 on your bookstore order form For further details please contact your local Pearson Addison Wesley and Prentice Hall sales representative or visit www.pearsonhighered.com

Education and Educational Technology Yuanzhi Wang, 2011-10-07 This volume includes extended and revised versions of a set of selected papers from the 2011 2nd International Conference on Education and Educational Technology EET 2011 held in Chengdu China October 1 2 2011 The mission of EET 2011 Volume 1 is to provide a forum for researchers educators engineers and government officials involved in the general areas of education and educational technology to disseminate their latest research results and exchange views on the future research directions of these fields 130 related topic papers were selected into this volume All the papers were reviewed by 2 program committee members and selected by the volume editor Prof Yuanzhi Wang from Intelligent Information Technology Application Research Association Hong Kong The conference will bring together leading researchers engineers and scientists in the domain of interest We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the education and educational technology

The Electrical Engineering Handbook Wai Kai Chen, 2004-11-16 The Electrical Engineer s

Handbook is an invaluable reference source for all practicing electrical engineers and students Encompassing 79 chapters this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students This text will most likely be the engineer's first choice in looking for a solution extensive complete references to other sources are provided throughout No other book has the breadth and depth of coverage available here This is a must have for all practitioners and students The Electrical Engineer's Handbook provides the most up to date information in Circuits and Networks Electric Power Systems Electronics Computer Aided Design and Optimization VLSI Systems Signal Processing Digital Systems and Computer Engineering Digital Communication and Communication Networks Electromagnetics and Control and Systems About the Editor in Chief Wai Kai Chen is Professor and Head Emeritus of the Department of Electrical Engineering and Computer Science at the University of Illinois at Chicago He has extensive experience in education and industry and is very active professionally in the fields of circuits and systems He was Editor in Chief of the IEEE Transactions on Circuits and Systems Series I and II President of the IEEE Circuits and Systems Society and is the Founding Editor and Editor in Chief of the Journal of Circuits Systems and Computers He is the recipient of the Golden Jubilee Medal the Education Award and the Meritorious Service Award from the IEEE Circuits and Systems Society and the Third Millennium Medal from the IEEE Professor Chen is a fellow of the IEEE and the American Association for the Advancement of Science 77 chapters encompass the entire field of electrical engineering THOUSANDS of valuable figures tables formulas and definitions Extensive bibliographic references

Digital Integrated Circuits John E. Ayers, 2018-09-03 Exponential improvement in functionality and performance of digital integrated circuits has revolutionized the way we live and work The continued scaling down of MOS transistors has broadened the scope of use for circuit technology to the point that texts on the topic are generally lacking after a few years The second edition of Digital Integrated Circuits Analysis and Design focuses on timeless principles with a modern interdisciplinary view that will serve integrated circuits engineers from all disciplines for years to come Providing a revised instructional reference for engineers involved with Very Large Scale Integrated Circuit design and fabrication this book delves into the dramatic advances in the field including new applications and changes in the physics of operation made possible by relentless miniaturization This book was conceived in the versatile spirit of the field to bridge a void that had existed between books on transistor electronics and those covering VLSI design and fabrication as a separate topic Like the first edition this volume is a crucial link for integrated circuit engineers and those studying the field supplying the cross disciplinary connections they require for guidance in more advanced work For pedagogical reasons the author uses SPICE level 1 computer simulation models but introduces BSIM models that are indispensable for VLSI design This enables users to develop a strong and intuitive sense of device and circuit design by drawing direct connections between the hand analysis and the SPICE models With four new chapters more than 200 new illustrations numerous worked examples case studies and support provided on a dynamic website this text significantly expands concepts presented in the first edition

Temperature- and Supply Voltage-Independent Time References for Wireless Sensor Networks Valentijn De Smedt, Georges Gielen, Wim Dehaene, 2014-11-07 This book investigates the possible circuit solutions to overcome the temperature and supply voltage sensitivity of fully integrated time references for ultra low power communication in wireless sensor networks The authors provide an elaborate theoretical introduction and literature study to enable full understanding of the design challenges and shortcomings of current oscillator implementations Furthermore a closer look to the short term as well as the long term frequency stability of integrated oscillators is taken Next a design strategy is developed and applied to 5 different oscillator topologies and 1 sensor interface All 6 implementations are subject to an elaborate study of frequency stability phase noise and power consumption In the final chapter all blocks are compared to the state of the art

Integrated Circuit and System Design, 2004 **Digital Integrated Circuit Design** Hubert Kaeslin, 2008-04-28 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 CMOS/BiCMOS ULSI Kiat Seng Yeo, Samir S. Rofail, Wang-Ling Goh, 2002 For upper level and graduate level Electrical and Computer Engineering courses in Integrated Circuit Design as well as professional circuit designers engineers and researchers working in portable wireless communications hardware This book presents the fundamentals of Complementary Metal Oxide Semiconductor CMOS and Bipolar compatible Complementary Metal Oxide Semiconductor BiCMOS technology as well as the latest technological advances in the field It discusses the concepts and techniques of new integrated circuit design for building high performance and low power circuits and systems for current and future very large scale integration VLSI and giga scale integration GSI applications CMOS BiCMOS ULSI Low Voltage Low Power is an essential resource for every professional moving toward lower voltage lower power and higher performance VLSI circuits and subsystems design **Low-Voltage/Low-Power**

Integrated Circuits and Systems Edgar Sánchez-Sinencio, Andreas G. Andreou, 1999-01-13 Electrical Engineering Low Voltage Low Power Integrated Circuits and Systems Low Voltage Mixed Signal Circuits Leading experts in the field present this collection of original contributions as a practical approach to low power analog and digital circuit theory and design illustrated with important applications and examples Low Voltage Low Power Integrated Circuits and Systems features comprehensive coverage of the latest techniques for the design modeling and characterization of low power analog and digital circuits Low Voltage Low Power Integrated Circuits and Systems will help you improve your understanding of the trade offs between analog and digital circuits and systems It is an invaluable resource for enhancing your designs This book is intended for senior and graduate students It is also intended as a key reference for designers in the semiconductor and communication industries Highlighted applications include Low voltage analog filters Low power multiplierless YUV to RGB based on human vision perception Micropower systems for implantable defibrillators and pacemakers Neuromorphic systems

Low power design in telecom circuits

Digital Integrated Circuit Rabaey: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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