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DIGITAL INTEGRATED CIRCUITS

A DESIGN PERSPECTIVE

SECOND EDITION



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Jan M. Rabaey



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models ATPG and BIST Ideal for students and professionals it blends theory with practical design strategies in modern VLSI systems Visit garuda publishers com *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 TFET Integrated Circuits Navneet Gupta, Adam Makosiej, Amara Amara, Andrei Vladimirescu, Costin Anghel, 2020-11-06 This book describes the physical operation of the Tunnel Field effect Transistor TFET and circuits built with this device Whereas the majority of publications on TFETs describe in detail the device its characteristics variants and performance this will be the first book addressing TFET integrated circuits TFET ICs The authors describe the peculiarities of TFET ICs and their differences with MOSFETs They also develop and analyze a number of logic circuits and memories The discussion also includes complex circuits combining CMOS and TFET as well as a potential fabrication process in Silicon Introduction to VLSI Circuits and Systems John P. Uyemura, 2002 CD ROM contains AIM SPICE from AIM Software Micro Cap 6 from Spectrum Software Silos III Verilog Simulator from Simucad Adobe Acrobat Reader 4.0 from Adobe China, India, and East and Southeast Asia: Assessing Sustainability Ray C. Anderson, Sam Geall, Jingjing Liu, Sony Pellissery, E. N. Anderson, Joel R. Campbell, Joanna I. Lewis, Muhammad Aurang Zeb Mughal, Mark Wilson, 2012-11-01 China India and East and Southeast Asia Assessing Sustainability provides unprecedented analyses by regional experts and scholars elsewhere in the world on China India and their neighbors Despite growing demands internally on their natural resources China and India alone are home to more than one third of the world's population the expanding global economic influence of this region makes these countries vital players in a sustainable future for all citizens of the Earth Regional coverage includes topics such as business and commerce environmental and corporate law and lifestyles and values *Digital Integrated Circuits : Design Perspective* (2nd Edition) (Paperback) Jan M. Rabaey, 2012-01-01 **Introduction to Nanoelectronics (Journey from Micro to Nano)** Dr. Prashant Mani, Mr. Aditya Agarwal, 2022-12-16 The book is about the fundamental and research based outcome of Semiconductor Device development in Electronics The continuous shrinking of the physical size of devices is the main reason for high density chips As the density increases the complex system can be made in a single chip The book covers silicon based technology requirements The surround gate structure pocket based devices basics of SOI MOSFET and technology are

also covered in this book The Ultra thin fully depleted MOSFET devices and their characteristics are taken into account The device journey from Micro to Nano can not be complete without nanoscale devices Here in the book the basics of NANOSCALE DEVICES are presented The device is dedicated to beginners in the field of Semiconductor Devices

Nanotechnology Rakesh K. Sindhu, Mansi Chitkara, Inderjeet Singh Sandhu, 2021-05-27 This book gives a summary of the rapidly growing field of nanotechnology and includes materials and technologies that help in developing particles of various sizes which can be utilized in different areas of research It discusses the role of nanotechnology in different aspects such as healthcare especially in target specific drug therapy for managing a number of medical disorders agriculture for developing smart field systems and food industry for improving and stabilizing the quality healthiness and shelf life of food Being multidisciplinary this book brings together the principles theory practices and applications of not only nanotechnology but also those of nanobiotechnology pharmaceuticals food packaging biosensors and electronic devices The book will be an exhilarating read for advanced undergraduate and graduate level students general readers interested in nanotechnology and researchers in chemistry biology and engineering The scope of the book extends from basic research in physics chemistry and biology including computational work and simulations through to the development of new devices and technologies for applications in a wide range of industrial sectors including information technology medicine manufacturing high performance materials and energy and environmental technologies It covers organic inorganic and hybrid materials and is an interdisciplinary book

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

Embedded Systems Handbook Richard Zurawski, 2005-08-16 Embedded systems are nearly ubiquitous and books on individual topics or components of embedded systems are equally abundant Unfortunately for those designers who thirst for knowledge of the big picture of embedded systems there is not a drop to drink Until now The Embedded Systems Handbook is an oasis of information offering a mix of basic a

Advanced Topics In Microelectronics And System Design Giuseppe Ferla, Luigi Fortuna, Antonio Imbruglia, 2000-12-13 This volume covers a wide area from research topics to the design and improvement of integrated circuit devices already existing or to be introduced to the market

Nano Interconnects Afreen Khursheed, Kavita Khare, 2021-12-23 This textbook comprehensively covers on chip interconnect dimension and application of carbon nanomaterials for modeling VLSI interconnect and buffer circuits It provides analysis of ultra low power high speed nano interconnects based on different facets such as material modeling circuit modeling and the adoption of repeater insertion

strategies and measurement techniques It covers important topics including on chip interconnects interconnect modeling electrical impedance modeling of on chip interconnects modeling of repeater buffer and variability analysis Pedagogical features including solved problems and unsolved exercises are interspersed throughout the text for better understanding Aimed at senior undergraduate and graduate students in the field of electrical engineering electronics and communications engineering for courses on Advanced VLSI Interconnects Advanced VLSI Design VLSI Interconnects VLSI Design Automation and Techniques this book Provides comprehensive coverage of fundamental concepts related to nanotube transistors and interconnects Discusses properties and performance of practical nanotube devices and related applications Covers physical and electrical phenomena of carbon nanotubes as well as applications enabled by this nanotechnology Discusses the structure properties and characteristics of graphene based on chip interconnect Examines interconnect power and interconnect delay issues arising due to downscaling of device size **Dual Mode Logic** Itamar Levi,Alexander

Fish,2020-12-15 This book presents Dual Mode Logic DML a new design paradigm for digital integrated circuits DML logic gates can operate in two modes each optimized for a different metric Its on the fly switching between these operational modes at the gate block and system levels provide maximal E D optimization flexibility Each highly detailed chapter has multiple illustrations showing how the DML paradigm seamlessly implements digital circuits that dissipate less energy while simultaneously improving performance and reducing area without a significant compromise in reliability All the facets of the DML methodology are covered starting from basic concepts through single gate optimization general module optimization design trade offs and new ways DML can be integrated into standard design flows using standard EDA tools DML logic is compatible with numerous applications but is particularly advantageous for ultra low power reliable high performance systems and advanced scaled technologies Written in language accessible to students and design engineers each topic is oriented toward immediate application by all those interested in an alternative to CMOS logic Describes a novel promising alternative to conventional CMOS logic known as Dual Mode Logic DML with which a single gate can be operated selectively in two modes each optimized for a different metric e g energy consumption performance size Demonstrates several techniques at the architectural level which can result in high energy savings and improved system performance Focuses on the tradeoffs between power area and speed including optimizations at the transistor and gate level including alternatives to DML basic cells Illustrates DML efficiency for a variety of VLSI applications **Physical Design Essentials** Khosrow

Golshan,2007-04-08 Arranged in a format that follows the industry common ASIC physical design flow Physical Design Essentials begins with general concepts of an ASIC library then examines floorplanning placement routing verification and finally testing Among the topics covered are Basic standard cell design transistor sizing and layout styles Linear non linear and polynomial characterization Physical design constraints and floorplanning styles Algorithms used for placement Clock Tree Synthesis Parasitic extraction Electronic Testing and many more Design and Analysis of High Efficiency Line

Drivers for xDSL Tim Piessens, Michiel Steyaert, 2005-12-30 Design and Analysis of High Efficiency Line Drivers for xDSL covers the most important building block of an xDSL ADSL VDSL system the line driver Traditional Class AB line drivers consume more than 70% of the total power budget of state of the art ADSL modems This book describes the main difficulties in designing line drivers for xDSL The most important specifications are elaborated starting from the main properties of the channel and the signal properties The traditional class AB state of the art class G and future technologies class K are discussed The main part of Design and Analysis of High Efficiency Line Drivers for xDSL describes the design of a novel architecture the Self Oscillating Power Amplifier or SOPA

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