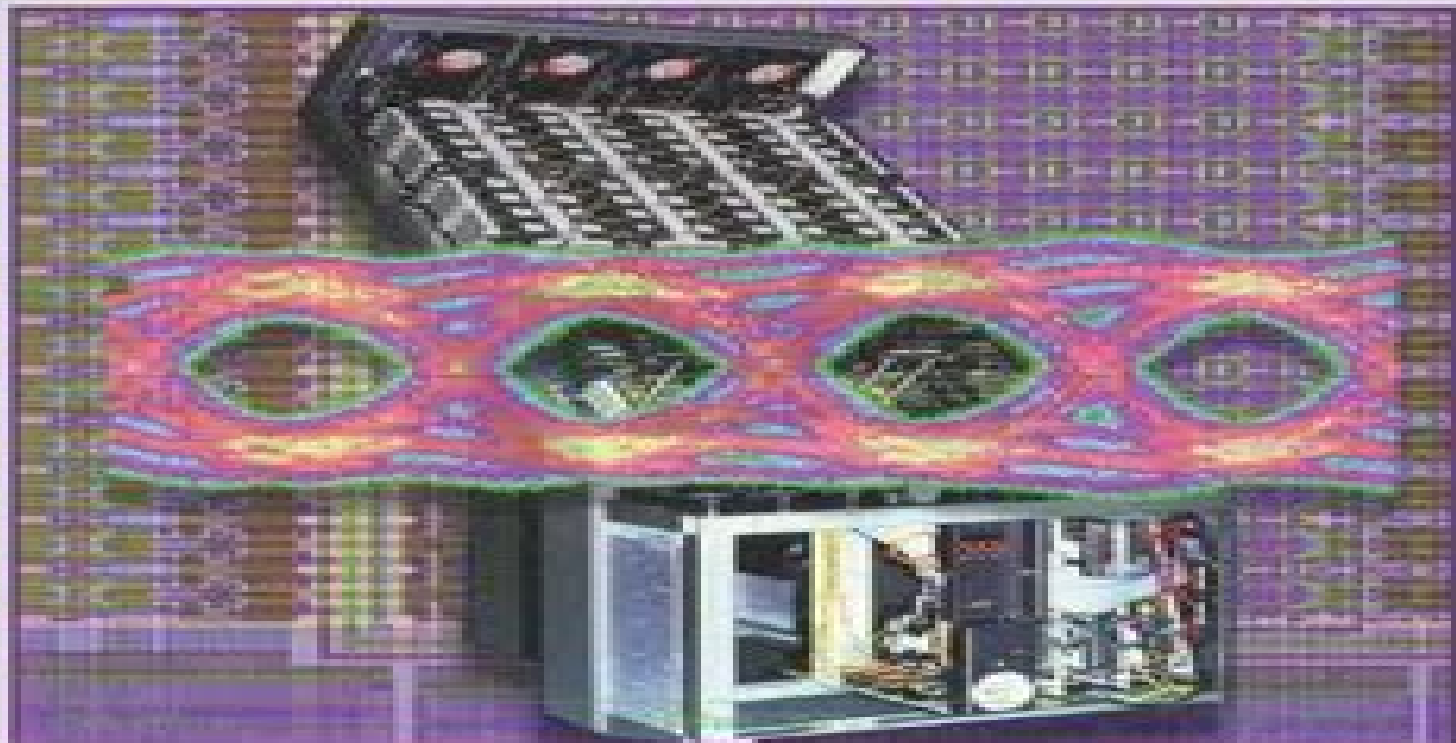


DIGITAL SYSTEMS ENGINEERING

WILLIAM J. DALLY

JOHN W. POULTON



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**Laung-Terng Wang, Charles E.
Stroud, Nur A. Touba**



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Digital Systems Engineering William J. Dally, John W. Poulton, 2008-04-24 What makes some computers slow Why do some digital systems operate reliably for years while others fail mysteriously every few hours How can some systems dissipate kilowatts while others operate off batteries These questions of speed reliability and power are all determined by the system level electrical design of a digital system Digital Systems Engineering presents a comprehensive treatment of these topics It combines a rigorous development of the fundamental principles in each area with real world examples of circuits and methods The book not only serves as an undergraduate textbook filling the gap between circuit design and logic design but can also help practising digital designers keep pace with the speed and power of modern integrated circuits The techniques described in this book once used only in supercomputers are essential to the correct and efficient operation of any type of digital system

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Digital Design William James Dally, R. Curtis Harting, 2012-09-17 This book provides students with a system level perspective and the tools they need to understand analyze and design complete digital systems using Verilog It goes beyond the design of simple combinational and sequential modules to show how such modules are used to build complete systems reflecting digital design in the real world

Multicore Processors and Systems Stephen W. Keckler, Kunle Olukotun, H. Peter Hofstee, 2009-08-29 Multicore Processors and Systems provides a comprehensive overview of emerging multicore processors and systems It covers

technology trends affecting multicores multicore architecture innovations multicore software innovations and case studies of state of the art commercial multicore systems A cross cutting theme of the book is the challenges associated with scaling up multicore systems to hundreds of cores The book provides an overview of significant developments in the architectures for multicore processors and systems It includes chapters on fundamental requirements for multicore systems including processing memory systems and interconnect It also includes several case studies on commercial multicore systems that have recently been developed and deployed across multiple application domains The architecture chapters focus on innovative multicore execution models as well as infrastructure for multicores including memory systems and on chip interconnections The case studies examine multicore implementations across different application domains including general purpose server media broadband network processing and signal processing Multicore Processors and Systems is the first book that focuses solely on multicore processors and systems and in particular on the unique technology implications architectures and implementations The book has contributing authors that are from both the academic and industrial communities

System-on-Chip Test Architectures Laung-Terng Wang, Charles E. Stroud, Nur A. Touba, 2010-07-28 Modern electronics testing has a legacy of more than 40 years The introduction of new technologies especially nanometer technologies with 90nm or smaller geometry has allowed the semiconductor industry to keep pace with the increased performance capacity demands from consumers As a result semiconductor test costs have been growing steadily and typically amount to 40% of today's overall product cost This book is a comprehensive guide to new VLSI Testing and Design for Testability techniques that will allow students researchers DFT practitioners and VLSI designers to master quickly System on Chip Test architectures for test debug and diagnosis of digital memory and analog mixed signal designs Emphasizes VLSI Test principles and Design for Testability architectures with numerous illustrations examples Most up to date coverage available including Fault Tolerance Low Power Testing Defect and Error Tolerance Network on Chip NOC Testing Software Based Self Testing FPGA Testing MEMS Testing and System In Package SIP Testing which are not yet available in any testing book Covers the entire spectrum of VLSI testing and DFT architectures from digital and analog to memory circuits and fault diagnosis and self repair from digital to memory circuits Discusses future nanotechnology test trends and challenges facing the nanometer design era promising nanotechnology test techniques including Quantum Dots Cellular Automata Carbon Nanotubes and Hybrid Semiconductor Nanowire Molecular Computing Practical problems at the end of each chapter for students

Wireline Equalization using Pulse-Width Modulation Johan Hendrik Rutger Schrader, 2007

Source-Synchronous Networks-On-Chip Ayan Mandal, Sunil P. Khatri, Rabi Mahapatra, 2013-11-19 This book describes novel methods for network on chip NoC design using source synchronous high speed resonant clocks The authors discuss NoCs from the bottom up providing circuit level details before providing architectural simulations As a result readers will get a complete picture of how a NoC can be designed and optimized Using the methods described in this book

readers are enabled to design NoCs that are 5X better than existing approaches in terms of latency and throughput and can also sustain a significantly greater amount of traffic

Synchronization and Arbitration in Digital Systems David J. Kinniment, 2008-02-28 Today's networks of processors on and off chip operating with independent clocks need effective synchronization of the data passing between them for reliability. When two or more processors request access to a common resource such as a memory, an arbiter has to decide which request to deal with first. Current developments in integrated circuit processing are leading to an increase in the numbers of independent digital processing elements in a single system. With this comes faster communications, more networks on chip, and the demand for more reliable, more complex, and higher performance synchronizers and arbiters. Written by one of the foremost researchers in this area of digital design, this authoritative text provides in-depth theory and practical design solutions for the reliable working of synchronization and arbitration hardware in digital systems. The book provides methods for making real reliability measurements both on and off chip, evaluating some of the common difficulties and detailing circuit solutions at both circuit and system levels. Synchronization and Arbitration in Digital Systems also presents mathematical models used to estimate mean time between failures in digital systems, a summary of serial and parallel communication techniques for on-chip data transmission, explanations on how to design a wrapper for a locally synchronous cell, highlighting the issues associated with stoppable clocks, an examination of various types of priority arbiters using signal transition graphs to show the specification of different designs from the simplest to more complex, multi-way arbiters, including ways of solving problems encountered in a wide range of applications, essential information on systems composed of independently timed regions, including a discussion on the problem of choice and the factors affecting the time taken to make choices in electronics. With its logical approach to design methodology, this will prove an invaluable guide for electronic and computer engineers and researchers working on the design of digital electronic hardware. Postgraduates and senior undergraduate students studying digital systems design as part of their electronic engineering course will struggle to find a resource that better details the information given inside this book.

On-Chip Networks Natalie Enright, Li-shiuan Peh, 2022-11-10 With the ability to integrate a large number of cores on a single chip, research into on-chip networks to facilitate communication becomes increasingly important. On-chip networks seek to provide a scalable and high-bandwidth communication substrate for multi-core and many-core architectures. High bandwidth and low latency within the on-chip network must be achieved while fitting within tight area and power budgets. In this lecture, we examine various fundamental aspects of on-chip network design and provide the reader with an overview of the current state of the art research in this field.

Table of Contents Introduction Interface with System Architecture Topology Routing Flow Control Router Microarchitecture Conclusions

Advanced Signal Integrity for High-Speed Digital Designs Stephen H. Hall, Howard L. Heck, 2011-09-20 A synergistic approach to signal integrity for high-speed digital design. This book is designed to provide contemporary readers with an understanding of the emerging high

speed signal integrity issues that are creating roadblocks in digital design Written by the foremost experts on the subject it leverages concepts and techniques from non related fields such as applied physics and microwave engineering and applies them to high speed digital design creating the optimal combination between theory and practical applications Following an introduction to the importance of signal integrity chapter coverage includes Electromagnetic fundamentals for signal integrity Transmission line fundamentals Crosstalk Non ideal conductor models including surface roughness and frequency dependent inductance Frequency dependent properties of dielectrics Differential signaling Mathematical requirements of physical channels S parameters for digital engineers Non ideal return paths and via resonance I O circuits and models Equalization Modeling and budgeting of timing jitter and noise System analysis using response surface modeling Each chapter includes many figures and numerous examples to help readers relate the concepts to everyday design and concludes with problems for readers to test their understanding of the material Advanced Signal Integrity for High Speed Digital Designs is suitable as a textbook for graduate level courses on signal integrity for programs taught in industry for professional engineers and as a reference for the high speed digital designer

Design of Cost-Efficient Interconnect Processing Units Marcello Coppola, Miltos D. Grammatikakis, Riccardo Locatelli, Giuseppe Maruccia, Lorenzo

Pieralisi, 2020-10-14 Streamlined Design Solutions Specifically for NoC To solve critical network on chip NoC architecture and design problems related to structure performance and modularity engineers generally rely on guidance from the abundance of literature about better understood system level interconnection networks However on chip networks present several distinct challenges that require novel and specialized solutions not found in the tried and true system level techniques A Balanced Analysis of NoC Architecture As the first detailed description of the commercial Spidergon STNoC architecture Design of Cost Efficient Interconnect Processing Units Spidergon STNoC examines the highly regarded cost cutting technology that is set to replace well known shared bus architectures such as STBus for demanding multiprocessor system on chip SoC applications Employing a balanced well organized structure simple teaching methods numerous illustrations and easy to understand examples the authors explain how the SoC and NoC technology works why developers designed it the way they did the system level design methodology and tools used to configure the Spidergon STNoC architecture differences in cost structure between NoCs and system level networks From professionals in computer sciences electrical engineering and other related fields to semiconductor vendors and investors all readers will appreciate the encyclopedic treatment of background NoC information ranging from CMPs to the basics of interconnection networks The text introduces innovative system level design methodology and tools for efficient design space exploration and topology selection It also provides a wealth of key theoretical and practical MPSoC and NoC topics such as technological deep sub micron effects homogeneous and heterogeneous processor architectures multicore SoC interconnect processing units generic NoC components and embeddings of common communication patterns

Ultra Low-Power Electronics and

Design E. Macii, 2007-05-08 Power consumption is a key limitation in many high speed and high data rate electronic systems today ranging from mobile telecom to portable and desktop computing systems especially when moving to nanometer technologies Ultra Low Power Electronics and Design offers to the reader the unique opportunity of accessing in an easy and integrated fashion a mix of tutorial material and advanced research results contributed by leading scientists from academia and industry covering the most hot and up to date issues in the field of the design of ultra low power devices systems and applications

Analog Circuit Design for Communication SOC Steve Hung-Lung Tu, Ding-Lan Shen, Rong-Jyi Yang, 2012 This book provides several state of the art analog circuit design techniques It presents both empirical and theoretical materials for system on a chip SOC circuit design Fundamental communication concepts are used to explain a variety of topics including data conversion ADC DAC S oversampling data converters clock data recovery phase locked loops for system timing synthesis supply voltage regulation power amplifier design and mixer design This is an excellent reference book for both circuit designers and researchers who are interested in the field of design of analog communic

Low-Power Electronics Design Christian 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

VLSI Test Principles and Architectures Laung-Terng Wang, Cheng-Wen Wu, Xiaoqing Wen, 2006-08-14 This book is a comprehensive guide to new DFT methods that will show the readers how to design a testable and quality product drive down test cost improve product quality and yield and speed up time to market and time to volume Most up to date coverage of design for testability Coverage of industry practices commonly found in commercial DFT tools but not discussed in other books Numerous practical examples in each chapter illustrating basic VLSI test principles and DFT architectures

On-Chip Networks Natalie Enright Jerger, Tushar Krishna, Li-Shiuan Peh, 2017-06-19 This book targets engineers and researchers familiar with basic computer architecture concepts who are interested in learning about on chip networks This work is designed to be a short synthesis of the most critical concepts in on chip network design It is a resource for both

understanding on chip network basics and for providing an overview of state of the art research in on chip networks We believe that an overview that teaches both fundamental concepts and highlights state of the art designs will be of great value to both graduate students and industry engineers While not an exhaustive text we hope to illuminate fundamental concepts for the reader as well as identify trends and gaps in on chip network research With the rapid advances in this field we felt it was timely to update and review the state of the art in this second edition We introduce two new chapters at the end of the book We have updated the latest research of the past years throughout the book and also expanded our coverage of fundamental concepts to include several research ideas that have now made their way into products and in our opinion should be textbook concepts that all on chip network practitioners should know For example these fundamental concepts include message passing multicast routing and bubble flow control schemes

Understanding Signal Integrity Stephen C. Thierauf, 2011 This unique book provides you with practical guidance on understanding and interpreting signal integrity SI performance to help you with your challenging circuit board design projects You find high level discussions of important SI concepts presented in a clear and easily accessible format including question and answer sections and bulleted lists This valuable resource features rules of thumb and simple equations to help you make estimates of critical signal integrity parameters without using circuit simulators or CAD computer aided design The book is supported with over 120 illustrations nearly 100 equations and detailed reference lists at the end of each chapter

Variation Tolerant On-Chip Interconnects Ethiopia Enideg Nigussie, 2011-12-02 This book presents design techniques analysis and implementation of high performance and power efficient variation tolerant on chip interconnects Given the design paradigm shift to multi core interconnect centric designs and the increase in sources of variability and their impact in sub 100nm technologies this book will be an invaluable reference for anyone concerned with the design of next generation high performance electronics systems

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