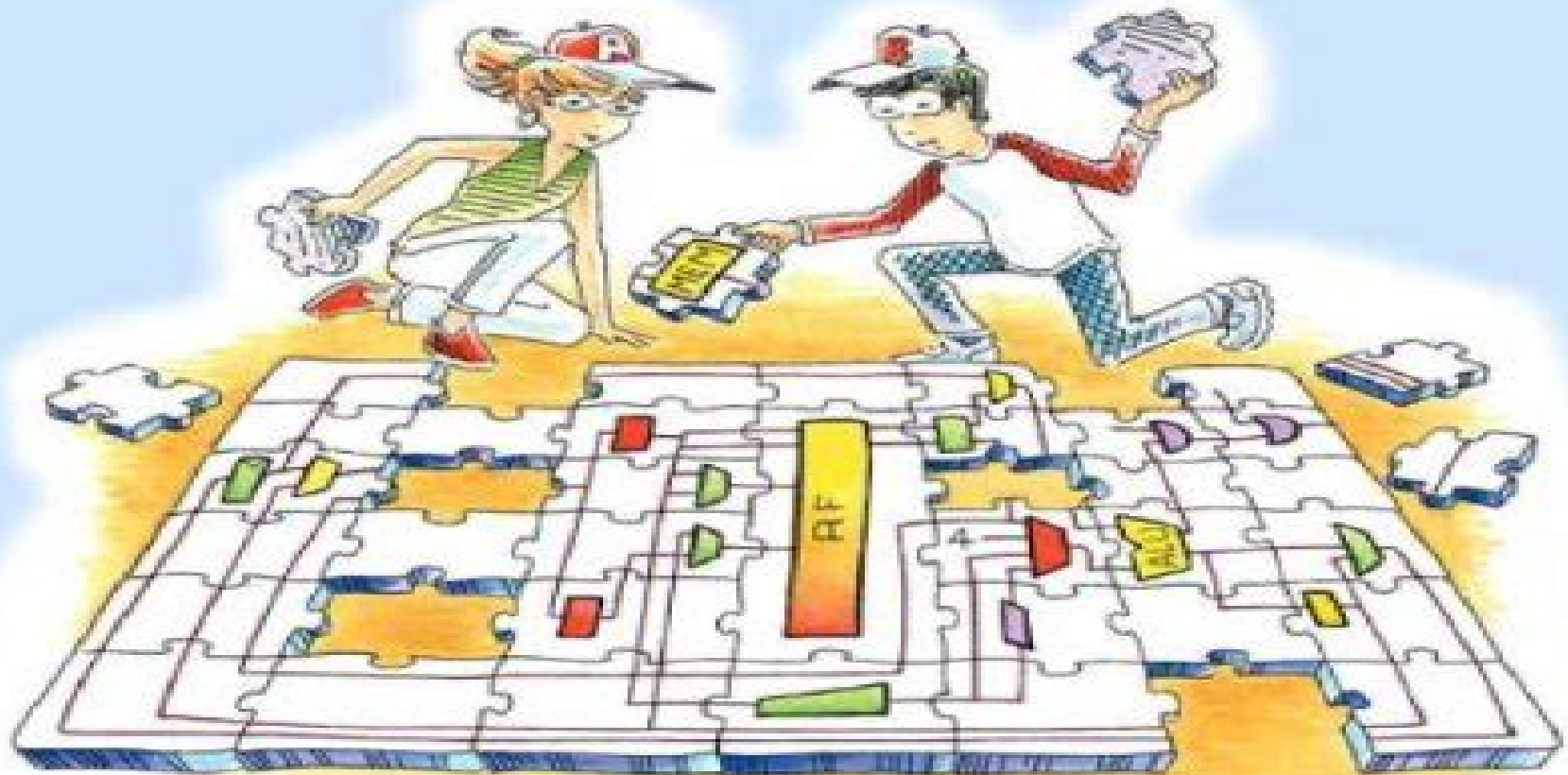


Digital Design and Computer Architecture



David Money Harris & Sarah L. Harris



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AN Whitehead



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Digital Design and Computer Architecture David Harris, Sarah Harris, 2010-07-26 Digital Design and Computer Architecture is designed for courses that combine digital logic design with computer organization architecture or that teach these subjects as a two course sequence Digital Design and Computer Architecture begins with a modern approach by rigorously covering the fundamentals of digital logic design and then introducing Hardware Description Languages HDLs Featuring examples of the two most widely used HDLs VHDL and Verilog the first half of the text prepares the reader for what follows in the second the design of a MIPS Processor By the end of Digital Design and Computer Architecture readers will be able to build their own microprocessor and will have a top to bottom understanding of how it works even if they have no formal background in design or architecture beyond an introductory class David Harris and Sarah Harris combine an engaging and humorous writing style with an updated and hands on approach to digital design Unique presentation of digital logic design from the perspective of computer architecture using a real instruction set MIPS Side by side examples of the two most prominent Hardware Design Languages VHDL and Verilog illustrate and compare the ways the each can be used in the design of digital systems Worked examples conclude each section to enhance the reader's understanding and retention of the material

Digital Design and Computer Architecture David Harris, Sarah Harris, 2012-08-24 Digital Design and Computer Architecture Second Edition takes a unique and modern approach to digital design introducing the reader to the fundamentals of digital logic and then showing step by step how to build a MIPS microprocessor in both Verilog and VHDL This new edition combines an engaging and humorous writing style with an updated and hands on approach to digital design It presents new content on I/O systems in the context of general purpose processors found in a PC as well as microcontrollers found almost everywhere Beginning with digital logic gates and progressing to the design of combinational and sequential circuits the book uses these fundamental building blocks as the basis for the design of an actual MIPS processor It provides practical examples of how to interface with peripherals using RS232 SPI motor control interrupts wireless and analog to digital conversion SystemVerilog and VHDL are integrated throughout the text in examples illustrating the methods and techniques for CAD based circuit design There are also additional exercises and new examples of parallel and advanced architectures practical I/O applications embedded systems and heterogeneous computing plus a new appendix on C programming to strengthen the connection between programming and processor architecture This new edition will appeal to professional computer engineers and to students taking a course that combines digital logic and computer architecture Updated based on instructor feedback with more exercises and new examples of parallel and advanced architectures practical I/O applications embedded systems and heterogeneous computing Presents digital system design examples in both VHDL and SystemVerilog updated for the second edition from Verilog shown side by side to compare and contrast their strengths Includes a new chapter on C programming to provide necessary prerequisites and strengthen the connection

between programming and processor architecture Companion Web site includes links to Xilinx CAD tools for FPGA design lecture slides laboratory projects and solutions to exercises Instructors can also register at textbooks elsevier com for access to Solutions to all exercises PDF Lab materials with solutions HDL for textbook examples and exercise solutions Lecture slides PPT Sample exams Sample course syllabus Figures from the text JPG PPT

Digital Design and Computer Architecture, ARM Edition Sarah Harris, David Harris, 2015-04-09 Digital Design and Computer Architecture ARM Edition covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM microprocessor Combining an engaging and humorous writing style with an updated and hands on approach to digital design this book takes the reader from the fundamentals of digital logic to the actual design of an ARM processor By the end of this book readers will be able to build their own microprocessor and will have a top to bottom understanding of how it works Beginning with digital logic gates and progressing to the design of combinational and sequential circuits this book uses these fundamental building blocks as the basis for designing an ARM processor SystemVerilog and VHDL are integrated throughout the text in examples illustrating the methods and techniques for CAD based circuit design The companion website includes a chapter on I O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs Bluetooth radios and motors This book will be a valuable resource for students taking a course that combines digital logic and computer architecture or students taking a two quarter sequence in digital logic and computer organization architecture Covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM microprocessor Features side by side examples of the two most prominent Hardware Description Languages HDLs SystemVerilog and VHDL which illustrate and compare the ways each can be used in the design of digital systems Includes examples throughout the text that enhance the reader s understanding and retention of key concepts and techniques The Companion website includes a chapter on I O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs Bluetooth radios and motors The Companion website also includes appendices covering practical digital design issues and C programming as well as links to CAD tools lecture slides laboratory projects and solutions to exercises

Digital Design and Computer Architecture, RISC-V Edition Sarah Harris, David Harris, 2021-07-12 The newest addition to the Harris and Harris family of Digital Design and Computer Architecture books this RISC V Edition covers the fundamentals of digital logic design and reinforces logic concepts through the design of a RISC V microprocessor Combining an engaging and humorous writing style with an updated and hands on approach to digital design this book takes the reader from the fundamentals of digital logic to the actual design of a processor By the end of this book readers will be able to build their own RISC V microprocessor and will have a top to bottom understanding of how it works Beginning with digital logic gates and progressing to the design of combinational and sequential circuits this book uses these fundamental building blocks as the basis for designing a RISC V processor

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Engineering of Additive Manufacturing Features for Data-Driven Solutions Mutahar

Safdar,Guy Lamouche,Padma Polash Paul,Gentry Wood,Yaoyao Fiona Zhao,2023-06-01 This book is a comprehensive guide to the latest developments in data driven additive manufacturing AM From data mining and pre processing to signal processing computer vision and more the book covers all the essential techniques for preparing AM data Readers will explore the key physical and synthetic sources of AM data throughout the life cycle of the process and learn about feature engineering techniques pipelines and resulting features as well as their applications at each life cycle phase With a focus on featurization efforts from reviewed literature this book offers tabular summaries for major data sources and analyzes feature spaces at the design process and structure phases of AM to uncover trends and insights specific to feature engineering techniques Finally the book discusses current challenges and future directions including AI ML DL readiness of AM data Whether you re an expert or newcomer to the field this book provides a broader summary of the status and future of data driven AM technology

Privacy Solutions and Security Frameworks in Information Protection Nemati, Hamid,2012-09-30 While information technology continues to play a vital role in every aspect of our lives there is a greater need for the security and protection of this information Ensuring the trustworthiness and integrity is important in order for data to be used appropriately Privacy Solutions and Security Frameworks in Information Protection explores the areas of concern in guaranteeing the security and privacy of data and related technologies This reference source includes a range of topics in information security and privacy provided for a diverse readership ranging from academic and professional researchers to industry practitioners

Homomorphic Encryption and Applications Xun Yi,Russell Paulet,Elisa Bertino,2014-11-06 This book introduces the

fundamental concepts of homomorphic encryption From these foundations applications are developed in the fields of private information retrieval private searching on streaming data privacy preserving data mining electronic voting and cloud computing The content is presented in an instructional and practical style with concrete examples to enhance the reader's understanding This volume achieves a balance between the theoretical and the practical components of modern information security Readers will learn key principles of homomorphic encryption as well as their application in solving real world problems

High-Performance Computing Systems and Technologies in Scientific Research, Automation of Control and Production Vladimir Jordan,Ilya Tarasov,Vladimir Faerman,2022-01-17 This book constitutes selected revised and extended papers from the 11th International Conference on High Performance Computing Systems and Technologies in Scientific Research Automation of Control and Production HPCST 2021 Barnaul Russia in May 2021 The 32 full papers presented in this volume were thoroughly reviewed and selected from 98 submissions The papers are organized in topical sections on Hardware for High Performance Computing and Signal Processing Information Technologies and Computer Simulation of Physical Phenomena Computing Technologies in Discrete Mathematics and Decision Making Information and Computing Technologies in Automation and Control Science and Computing Technologies in Information Security Applications

Network and System Security Zheng Yan,Refik Molva,Wojciech Mazurczyk,Raimo Kantola,2017-08-11 This book constitutes the proceedings of the 11th International Conference on Network and System Security NSS 2017 held in Helsinki Finland in August 2017 The 24 revised full papers presented in this book were carefully reviewed and selected from 83 initial submissions The papers are organized in topical sections on Cloud and IoT Security Network Security Platform and Hardware Security Crypto and Others and Authentication and Key Management This volume also contains 35 contributions of the following workshops Security Measurements of Cyber Networks SMCN 2017 Security in Big Data SECBD 2017 5G Security and Machine Learning IW5GS 2017 of the Internet of Everything SECIOE 2017

Hardware Security Swarup Bhunia,Mark M. Tehranipoor,2018-10-30 Hardware Security A Hands On Learning Approach provides a broad comprehensive and practical overview of hardware security that encompasses all levels of the electronic hardware infrastructure It covers basic concepts like advanced attack techniques and countermeasures that are illustrated through theory case studies and well designed hands on laboratory exercises for each key concept The book is ideal as a textbook for upper level undergraduate students studying computer engineering computer science electrical engineering and biomedical engineering but is also a handy reference for graduate students researchers and industry professionals For academic courses the book contains a robust suite of teaching ancillaries Users will be able to access schematic layout and design files for a printed circuit board for hardware hacking i e the HaHa board that can be used by instructors to fabricate boards a suite of videos that demonstrate different hardware vulnerabilities hardware attacks and countermeasures and a detailed description and user manual for companion materials Provides a thorough overview of computer hardware including the fundamentals of

computer systems and the implications of security risks Includes discussion of the liability safety and privacy implications of hardware and software security and interaction Gives insights on a wide range of security trust issues and emerging attacks and protection mechanisms in the electronic hardware lifecycle from design fabrication test and distribution straight through to supply chain and deployment in the field A full range of instructor and student support materials can be found on the authors own website for the book <http://hwsecuritybook.org> *Digital Design*, 1986 *Security Opportunities in Nano Devices and Emerging Technologies* Mark Tehranipoor, Domenic Forte, Garrett Rose, Swarup Bhunia, 2017-11-22 The research community lacks both the capability to explain the effectiveness of existing techniques and the metrics to predict the security properties and vulnerabilities of the next generation of nano devices and systems This book provides in depth viewpoints on security issues and explains how nano devices and their unique properties can address the opportunities and challenges of the security community manufacturers system integrators and end users This book elevates security as a fundamental design parameter transforming the way new nano devices are developed Part 1 focuses on nano devices and building security primitives Part 2 focuses on emerging technologies and integrations

Circuit-Technology Co-Optimization of SRAM Design in Advanced CMOS Nodes Hsiao-Hsuan Liu, Francky Catthoor, 2024-12-20 Modern computing engines CPUs GPUs and NPUs require extensive SRAM for cache designs driven by the increasing demand for higher density performance and energy efficiency This book delves into two primary areas within ultra scaled technology nodes 1 advancing SRAM bitcell scaling and 2 exploring innovative subarray designs to enhance power performance area PPA metrics across technology nodes The first part of the book utilizes a bottom up design technology co optimization DTCO approach employing a dedicated PPA simulation framework to evaluate and identify the most promising strategies for SRAM bitcell scaling It offers a comprehensive examination of SRAM bitcell scaling beyond 1 nm node outlining a structured research cycle that includes identifying scaling bottlenecks developing cutting edge architectures with complementary field effect transistor CFET technology and addressing challenges such as process integration and routing complexities Additionally this book introduces a novel write margin methodology to better address the risks of write failures in resistance dominated nodes This methodology accounts for time dependent parasitic bitline effects and incorporates timing setup of write assist techniques to prevent underestimating the yield loss In the second part the focus shifts to a top down DTCO approach due to the diminishing returns of bitcell scaling beyond 5 nm node at the macro level As technology scales increasing resistance and capacitance RC lead designers to adopt smaller subarray sizes to reduce effective RC and enhance subarray level PPA However this approach can result in increased inter subarray interconnect overhead potentially offsetting macro level improvements This book examines the effects of various subarray sizes on macro level PPA and finds that larger subarrays can significantly reduce interconnect overhead and improve the energy delay area product EDAP of SRAM macro The introduction of the active interconnect AIC concept enables the use of larger subarray sizes while integrating carbon

nanotube FET as back end of line compatible devices results in macro level EDAP improvements of up to 65% when transitioning from standard subarrays to AIC divided subarrays These findings highlight the future trajectory of SRAM subarray design in deeply scaled nodes **ECM Solutions** Bill Forquer, Peter Jelinski, Tom Jenkins, 2005 *Artificial Neural Networks and Machine Learning - ICANN 2017* Alessandra Lintas, Stefano Rovetta, Paul F.M.J. Verschure, Alessandro E.P. Villa, 2017-10-24 The two volume set LNCS 10613 and 10614 constitutes the proceedings of then 26th International Conference on Artificial Neural Networks ICANN 2017 held in Alghero Italy in September 2017 The 128 full papers included in this volume were carefully reviewed and selected from 270 submissions They were organized in topical sections named From Perception to Action From Neurons to Networks Brain Imaging Recurrent Neural Networks Neuromorphic Hardware Brain Topology and Dynamics Neural Networks Meet Natural and Environmental Sciences Convolutional Neural Networks Games and Strategy Representation and Classification Clustering Learning from Data Streams and Time Series Image Processing and Medical Applications Advances in Machine Learning There are 63 short paper abstracts that are included in the back matter of the volume **Digital Design and Computer Architecture** David Harris, Sarah Harris, 2015-04-22 Digital Design and Computer Architecture ARM Edition takes a unique and modern approach to digital design Beginning with digital logic gates and progressing to the design of combinational and sequential circuits Harris and Harris use these fundamental building blocks as the basis for what follows the design of an actual ARM processor With over 75% of the world's population using products with ARM processors the design of the ARM processor offers an exciting and timely application of digital design while also teaching the fundamentals of computer architecture SystemVerilog and VHDL are integrated throughout the text in examples illustrating the methods and techniques for CAD based circuit design By the end of this book readers will be able to build their own microprocessor and will have a top to bottom understanding of how it works Harris and Harris have combined an engaging and humorous writing style with an updated and hands on approach to digital design Covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM microprocessor Features side by side examples of the two most prominent Hardware Description Languages HDLs SystemVerilog and VHDL which illustrate and compare the ways each can be used in the design of digital systems Includes examples throughout the text that enhance the reader's understanding and retention of key concepts and techniques The Companion website includes a chapter on I/O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs Bluetooth radios and motors The Companion website also includes appendices covering practical digital design issues and C programming as well as links to CAD tools lecture slides laboratory projects and solutions to exercises Advances in the Internet of Things Qusay F. Hassan, 2025-07-17 Many reports estimated that in 2024 the number of Internet of Things IoT devices exceeded 18 billion worldwide with predictions suggesting that it could reach nearly 40 billion by 2033 Despite primarily being consumer devices a growing number of them will find use in

industrial and enterprise applications This shows the significance of IoT and how it shapes the future However to realize its full potential we must address its emerging challenges and highlight recent applications advances and trends which is the focus of this book Security and privacy represent some of the key challenges IoT adopters face The severity of these issues is exacerbated by the growing number of IoT devices the expansion of Industry 4 0 and the emergence of Industry 5 0 and the significant increase in cybersecurity attacks Considering that ensuring security and privacy is crucial for the successful adoption of IoT this book dedicates several chapters to these areas This book also introduces some novel models that improve IoT environments and presents several practical implementations that utilize IoT to demonstrate some of its real world applications Furthermore it examines several emerging technologies that enable the realization of advanced IoT environments We see most IoT advances in three main areas the integration of artificial intelligence machine learning network technologies and hardware design Therefore this book dedicates several chapters to these areas Most chapters touch on artificial intelligence machine learning emphasizing the significance of these technologies in today s and next generation applications The main objective of this book is to capture the state of the art in IoT and explore some of its emerging challenges solutions and technologies This peer reviewed book serves as a reference for researchers academics practitioners and graduate level students

Electronic Design Automation for IC Implementation, Circuit Design, and Process Technology Luciano Lavagno,Igor L. Markov,Grant Martin,Louis K. Scheffer,2017-02-03 The second of two volumes in the Electronic Design Automation for Integrated Circuits Handbook Second Edition Electronic Design Automation for IC Implementation Circuit Design and Process Technology thoroughly examines real time logic RTL to GDSII a file format used to transfer data of semiconductor physical layout design flow analog mixed signal design physical verification and technology computer aided design TCAD Chapters contributed by leading experts authoritatively discuss design for manufacturability DFM at the nanoscale power supply network design and analysis design modeling and much more New to This Edition Major updates appearing in the initial phases of the design flow where the level of abstraction keeps rising to support more functionality with lower non recurring engineering NRE costs Significant revisions reflected in the final phases of the design flow where the complexity due to smaller and smaller geometries is compounded by the slow progress of shorter wavelength lithography New coverage of cutting edge applications and approaches realized in the decade since publication of the previous edition these are illustrated by new chapters on 3D circuit integration and clock design Offering improved depth and modernity Electronic Design Automation for IC Implementation Circuit Design and Process Technology provides a valuable state of the art reference for electronic design automation EDA students researchers and professionals

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