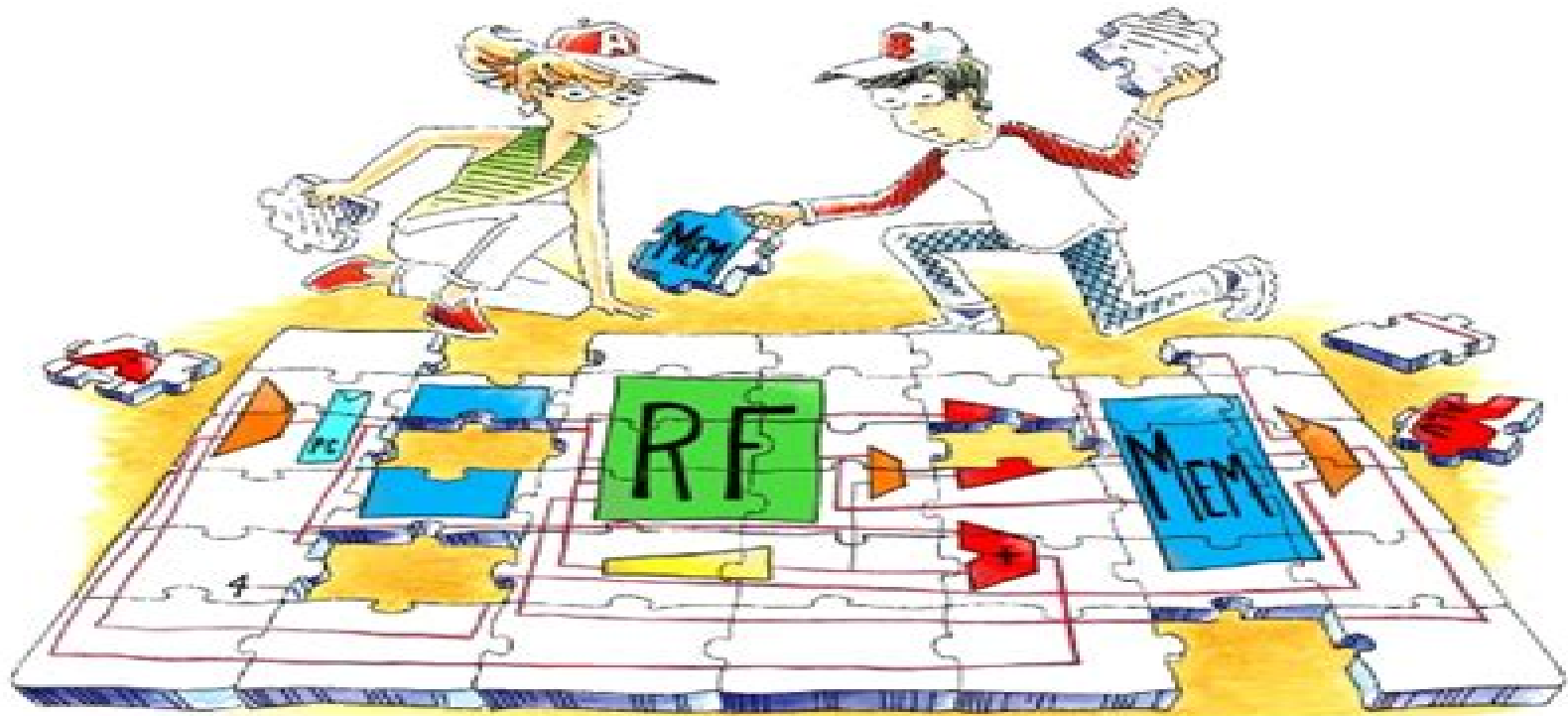


Digital Design and Computer Architecture

RISC-V Edition



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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 Money Harris, Sarah L. Harris, 2013 Provides practical examples of how to interface with peripherals using RS232 SPI motor control interrupts wireless and analog to digital conversion This book covers the fundamentals of digital logic design and reinforces logic concepts through the design of a MIPS microprocessor

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 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 SparkFun's RED V RedBoard 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 a RISC V microprocessor Gives students a full understanding of the RISC V instruction set architecture enabling them to

build a RISC V processor and program the RISC V processor in hardware simulation software simulation and in hardware Includes both SystemVerilog and VHDL designs of fundamental building blocks as well as of single cycle multicycle and pipelined versions of the RISC V architecture Features a companion website with a bonus chapter on I O systems with practical examples that show how to use SparkFun s RED V RedBoard 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 See the companion EdX MOOCs ENGR85A and ENGR85B with video lectures and interactive problems

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

Digital Design and Computer Organisation D. Nasib S. Gill,J.B. Dixit,2008-12 Digital Design and Computer Organization introduces digital design as it applies to the creation of computer systems It summarizes the tools of logic design and their mathematical basis along with in depth coverage of combinational and sequential circuits The book includes an accompanying CD that includes the majority of circuits highlighted in the text delivering you hands on experience in the simulation and observation of circuit functionality These circuits were designed and tested with a user friendly Electronics Workbench package Multisim Textbook Edition that enables your progression from truth tables onward to more complex designs This volume differs from traditional digital design texts by providing a complete design of an AC based CPU allowing you to apply digital design directly to computer

architecture The book makes minimal reference to electrical properties and is vendor independent allowing emphasis on the general design principles *Digital Design and Computer Architecture* David Maney Harris, Sarah L. Harris, 2007

Digital Design And Computer Architecture David Money Harris, 2009-01-01 **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 **Computer Systems** Ata Elahi, 2017-11-08 This textbook covers digital design fundamentals of computer architecture and assembly language The book starts by introducing basic number systems character coding basic knowledge in digital design and components of a computer The book goes on to discuss information representation in computing Boolean algebra and logic gates sequential logic input output and CPU performance The author also covers ARM architecture ARM instructions and ARM assembly language which is used in a variety of devices such as cell phones digital TV automobiles routers and switches The book contains a set of laboratory experiments related to digital design using Logisim software in addition each chapter features objectives summaries key terms review questions and problems The book is targeted to students majoring Computer Science Information System and IT and follows the ACM IEEE 2013 guidelines Comprehensive textbook covering digital design computer architecture and ARM architecture and assembly

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Computer Systems Ata Elahi, 2022-03-16 This updated textbook covers digital design fundamentals of computer architecture and ARM assembly language The book starts by introducing computer abstraction basic number systems character coding basic knowledge in digital design and components of a computer The book goes on to discuss information representation in computing Boolean algebra and logic gates and sequential logic The book also presents introduction to computer architecture Cache mapping methods and virtual memory The author also covers ARM architecture ARM instructions ARM assembly language using Keil development tools and bitwise control structure using C and ARM assembly language The book includes a set of laboratory experiments related to digital design using Logisim software and ARM assembly language programming using Keil development tools In addition each chapter features objectives summaries key terms review questions and problems

Digital Design and Computer Architecture, RISC-V Edition Sarah L. Harris, David Money Harris, 2025

Digital Design and Computer Organization Hassan A. Farhat, 2003-12-29 Digital Design and Computer Organization introduces digital design as it applies to the creation of computer systems It summarizes the tools of logic design and their mathematical basis along with in depth coverage of combinational and sequential circuits The book includes an accompanying CD that includes the majority of circuits highlighted in the text delivering you hands on experience in the simulation and observation of circuit functionality These circuits were designed and tested with a user friendly Electronics Workbench package Multisim Textbook Edition that enables your progression from truth tables onward to more complex designs This volume differs from traditional digital design texts by providing a complete design of an AC based CPU allowing you to apply digital design directly to computer architecture The book makes minimal reference to electrical properties and is vendor independent allowing emphasis on the general design principles

Digital Design Principles and Computer Architecture Edward Karalis, 1997 Appropriate for courses in Digital Design Microprocessor Based Design Computer Architecture Computer Communications and Networks and Analog and Mixed Signal Design found in 2 year and 4 year electronics technology and engineering departments Based on the author's 20 years of hands on experience this text articulates the underlying principles and practices that comprise today's digital components and systems Karalis provides a comprehensive yet concise fully integrated treatment of relevant analytical tools and design methodologies as applied to various integrated devices modules systems and signal interactions Coverage offers a balance of theory application and functional level examples

Complete Digital Design: A Comprehensive Guide to Digital Electronics and Computer System Architecture Mark Balch, 2003-06-22 YOUR ONE STOP RESOURCE FOR DIGITAL SYSTEM DESIGN The explosion in communications and embedded computing technologies has brought with it a host of new skill requirements for electrical and electronics engineers students and hobbyists With engineers expected to have such diverse expertise they need

comprehensive easy to understand guidance on the fundamentals of digital design Enter McGraw Hill s Complete Digital Design Written by an experienced electrical engineer and networking hardware designer this book helps you understand and navigate the interlocking components architectures and practices necessary to design and implement digital systems It includes Real world implementation of microprocessor based digital systems Broad presentation of supporting analog circuit principles Building complete systems with basic design elements and the latest technologies Complete Digital Design will teach you how to develop a customized set of requirements for any design problem and then research and evaluate available components and technologies to solve it Perfect for the professional the student and the hobbyist alike this is one volume you need handy at all times What you ll find inside Digital logic and timing analysis Integrated circuits Microprocessor and computer architecture Memory technologies Networking and serial communications Finite state machine design Programmable logic CPLD and FPGA Analog circuit basics Diodes transistors and operational amplifiers Analog to digital conversion Voltage regulation Signal integrity and PCB design And more

17th International Conference on Information Technology-New Generations (ITNG 2020) Shahram Latifi,2020-05-11 This volume presents the 17th International Conference on Information Technology New Generations ITNG and chronicles an annual event on state of the art technologies for digital information and communications The application of advanced information technology to such domains as astronomy biology education geosciences security and healthcare are among the themes explored by the ITNG proceedings Visionary ideas theoretical and experimental results as well as prototypes designs and tools that help information flow to end users are of special interest Specific topics include Machine Learning Robotics High Performance Computing and Innovative Methods of Computing The conference features keynote speakers a best student contribution award poster award and service award a technical open panel and workshops exhibits from industry government and academia

Digital Design Principles and Computer Architecture KARALIS,1996-07-01 *A Practical Guide for Simulation and FPGA Implementation of Digital Design* Bekkay Hajji,Adel Mellit,Loubna Bouselham,2022-03-21 This book introduces the FPGA technology used in the laboratory sessions and provides a step by step guide for designing and simulation of digital circuits It utilizes the VHDL language which is one of the most common language used to describe the design of digital systems The Quartus II Xilinx ISE 14 7 and ModelSim software are used to process the VHDL code and make simulations and then the Altera and Xilinx FPGA platforms are employed to implement the simulated digital designs The book is composed of four parts The first part of this book has two chapters and covers various aspects FPGA architectures ASIC vs FPGA comparison FPGA design flow and basic VHDL concepts necessary to describe the design of digital systems The second part of the book includes three chapters that deal with the design of digital circuits such as combinational logic circuits sequential logic circuits and finite state machines The third part of the book is reserved for laboratory projects carried out on the FPGA platform It is a largely hands on lab class for design digital circuits and implementing their designs on the Altera

FPGA platform Finally the fourth part of this work is devoted to recent applications carried out on FPGAs in particular advanced techniques in renewable energy systems The book is primarily intended for students scholars and industrial practitioners interested in the design of modern digital systems

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

Digital Arithmetic Milos D. Ercegovic, Tomás Lang, 2004 The authoritative reference on the theory and design practice of computer arithmetic

Digital Computer Platforms Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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