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Digital Design Digital Design Digital Design Digital Logic and Computer Design Logic and Computer Design Fundamentals Computer System Architecture Digital Design Schaum's Outline of Theory and Problems of Basic Circuit Analysis Computer Organization and Design Digital Logic and Computer Design Digital Design, Global Edition Digital Design Digital Electronics Digital Logic & Computer Design Computer Systems Fundamentals of Digital Logic with Verilog Design Gender Through the Prism of Difference Computer Logic Design Digital Design Modern Digital Electronics 4E Advanced Digital Design with the Verilog HDL Digital Design (cd) 3rd Edition Pulse and Digital Circuits Fundamentals of Power Electronics The Essentials of Computer Organization and Architecture Logic and Computer Design Fundamentals Modern Digital Design and Switching Theory Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems FUNDAMENTALS OF DIGITAL CIRCUITS Computer Organization & Architecture 7e Artificial Intelligence and Evolutionary Computations in Engineering Systems System Software Computer Organization and Design RISC-V Edition Computer engineering Nanoelectronics, Circuits and Communication Systems Computer Networks Proceedings of the Sixth International Conference on Green and Human Information Technology The Principles of Computer Hardware

Capital Fundamentals of Logic Design

Computer Organization and Design Apr 23 2022

"Presents the fundamentals of hardware technologies, assembly language, computer arithmetic, pipelining, memory hierarchies and I/O"--

Computer Networks Dec 28 2019 Computer Networks is the ideal introduction to today's and tomorrow's networks. This classic best-seller has been totally rewritten to reflect the networks of the late 1990s and beyond. Author, educator, and researcher Andrew S. Tanenbaum, winner of the ACM Karl V. Karlstrom Outstanding Educator Award, carefully explains how networks work inside, from the hardware technology up through the most popular network applications. The book takes a structured approach to networking, starting at the bottom (the physical layer) and gradually working up to the top (the application layer). The topics covered include: *Physical layer (e.g., copper, fiber, radio, and satellite communication) *Data link layer (e.g., protocol principles, HDLC, SLIP, and PPP) *MAC Sublayer (e.g., IEEE 802 LANs, bridges, new high-speed LANs) *Network layer (e.g., routing, congestion control, internetworking, IPv6) *Transport layer (e.g., transport protocol principles, TCP, network performance) *Application layer (e.g., cryptography, email, news, the Web, Java, multimedia) In each chapter, the necessary principles are described in detail, followed by extensive examples taken from the Internet, ATM networks, and wireless

Digital Logic & Computer Design Nov 18 2021

Digital Logic and Computer Design Sep 28 2022 This book presents the basic concepts used in the design and analysis of digital systems and introduces the

principles of digital computer organization and design.
Digital Design (cd) 3rd Edition Mar 11 2021
Modern Digital Electronics 4E May 13 2021
Fundamentals of Digital Logic with Verilog Design Sep 16 2021
Fundamentals of Digital Logic With Verilog Design teaches the basic design techniques for logic circuits. It emphasizes the synthesis of circuits and explains how circuits are implemented in real chips. Fundamental concepts are illustrated by using small examples. Use of CAD software is well integrated into the book. A CD-ROM that contains Altera's Quartus CAD software comes free with every copy of the text. The CAD software provides automatic mapping of a design written in Verilog into Field Programmable Gate Arrays (FPGAs) and Complex Programmable Logic Devices (CPLDs). Students will be able to try, firsthand, the book's Verilog examples (over 140) and homework problems. Engineers use Quartus CAD for designing, simulating, testing and implementing logic circuits. The version included with this text supports all major features of the commercial product and comes with a compiler for the IEEE standard Verilog language. Students will be able to: enter a design into the CAD system compile the design into a selected device simulate the functionality and timing of the resulting circuit implement the designs in actual devices (using the school's laboratory facilities) Verilog is a complex language, so it is introduced gradually in the book. Each Verilog feature is presented as it becomes pertinent for the circuits being discussed. To teach the student to use the Quartus CAD, the book includes three tutorials.

***Digital Design* Jun 13 2021** For this edition, eight chapters have been substantially revised by adding new

topics and deleting those that are obsolete. An entirely new chapter presents IEEE Standard graphic symbols for logic elements recommended by ANSI/IEEE Standard 91-1984. In addition, new problems have been formulated for the first seven chapters, and new experiments have been added to Chapter 11.

Nanoelectronics, Circuits and Communication Systems
Jan 27 2020 This book features selected papers presented at the Fourth International Conference on Nanoelectronics, Circuits and Communication Systems (NCCS 2018). Covering topics such as MEMS and nanoelectronics, wireless communications, optical communications, instrumentation, signal processing, the Internet of Things, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications in mines, it offers a valuable resource for young scholars, researchers, and academics alike.

Computer Systems Oct 18 2021 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 • Covers basic number system and coding, basic knowledge in digital design, and components of a computer • Features laboratory exercises in addition to objectives, summaries, key terms, review questions, and problems in each chapter

***Digital Design* Nov 30 2022 For sophomore courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. & Digital Design, fourth edition is a modern update of the classic authoritative text on digital design.& This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.**

System Software May 01 2020 This text is an introduction to the design and implementation of various types of system software. A central theme of the book is the relationship between machine architecture and system software.

Pulse and Digital Circuits Feb 07 2021 Pulse and Digital Circuits is designed to cater to the needs of undergraduate students of electronics and communication engineering. Written in a lucid, student-friendly style, it covers key topics in the area of pulse and digital circuits. This is an introductory text that discusses the basic concepts involved in the design, operation and analysis of waveshaping circuits. The

book includes a preliminary chapter that reviews the concepts needed to understand the subject matter. Each concept in the book is accompanied by self-explanatory circuit diagrams. Interspersed with numerous solved problems, the text presents detailed analysis of key concepts. Multivibrators and sweep generators are covered in great detail in the book.

Digital Design Jan 01 2023 CD-ROM contains: evalutaiton versions of Synpticad's WaveFormer Pro -- TestBencher Pro -- Verilogger Pro -- DataSheet Pro -- TimeDiagrammer Pro -- author-supplied HDL example files.

Computer System Architecture Jul 27 2022

Fundamentals of Logic Design Aug 23 2019 Updated with modern coverage, a streamlined presentation, and excellent companion software, this seventh edition of FUNDAMENTALS OF LOGIC DESIGN achieves yet again an unmatched balance between theory and application. Authors Charles H. Roth, Jr. and Larry L. Kinney carefully present the theory that is necessary for understanding the fundamental concepts of logic design while not overwhelming students with the mathematics of switching theory. Divided into 20 easy-to-grasp study units, the book covers such fundamental concepts as Boolean algebra, logic gates design, flip-flops, and state machines. By combining flip-flops with networks of logic gates, students will learn to design counters, adders, sequence detectors, and simple digital systems. After covering the basics, this text presents modern design techniques using programmable logic devices and the VHDL hardware description language. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

***Advanced Digital Design with the Verilog HDL* Apr 11 2021** This title builds on the student's background from a first course in logic design and focuses on developing, verifying, and synthesizing designs of digital circuits. The Verilog language is introduced in an integrated, but selective manner, only as needed to support design examples.

Digital Design Jun 25 2022 Digital Design, fifth edition is a modern update of the classic authoritative text on digital design. This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

Computer engineering Feb 28 2020

Computer Organization and Design RISC-V Edition Mar 30 2020 The new RISC-V Edition of Computer Organization and Design features the RISC-V open source instruction set architecture, the first open source architecture designed to be used in modern computing environments such as cloud computing, mobile devices, and other embedded systems. With the post-PC era now upon us, Computer Organization and Design moves forward to explore this generational change with examples, exercises, and material highlighting the emergence of mobile computing and the Cloud. Updated content featuring tablet computers, Cloud infrastructure, and the x86 (cloud computing) and ARM (mobile computing devices) architectures is included. An online companion Web site provides advanced content for further study, appendices, glossary, references, and recommended reading. Features RISC-V, the first such architecture designed to be used in modern computing environments, such as

cloud computing, mobile devices, and other embedded systems Includes relevant examples, exercises, and material highlighting the emergence of mobile computing and the cloud

***Computer Organization & Architecture 7e* Jul 03 2020**

Fundamentals of Power Electronics Jan 09 2021

Fundamentals of Power Electronics, Third Edition, is an up-to-date and authoritative text and reference book on power electronics. This new edition retains the original objective and philosophy of focusing on the fundamental principles, models, and technical requirements needed for designing practical power electronic systems while adding a wealth of new material. Improved features of this new edition include: new material on switching loss mechanisms and their modeling; wide bandgap semiconductor devices; a more rigorous treatment of averaging; explanation of the Nyquist stability criterion; incorporation of the Tan and Middlebrook model for current programmed control; a new chapter on digital control of switching converters; major new chapters on advanced techniques of design-oriented analysis including feedback and extra-element theorems; average current control; new material on input filter design; new treatment of averaged switch modeling, simulation, and indirect power; and sampling effects in DCM, CPM, and digital control. Fundamentals of Power Electronics, Third Edition, is intended for use in introductory power electronics courses and related fields for both senior undergraduates and first-year graduate students interested in converter circuits and electronics, control systems, and magnetic and power systems. It will also be an invaluable reference for professionals working in power electronics, power conversion, and analog and digital electronics.

FUNDAMENTALS OF DIGITAL CIRCUITS Aug 04 2020

The Fourth edition of this well-received text continues to provide coherent and comprehensive coverage of digital circuits. It is designed for the undergraduate students pursuing courses in areas of engineering disciplines such as Electrical and Electronics, Electronics and Communication, Electronics and Instrumentation, Telecommunications, Medical Electronics, Computer Science and Engineering, Electronics, and Computers and Information Technology. It is also useful as a text for MCA, M.Sc. (Electronics) and M.Sc. (Computer Science) students. Appropriate for self study, the book is useful even for AMIE and grad IETE students. Written in a student-friendly style, the book provides an excellent introduction to digital concepts and basic design techniques of digital circuits. It discusses Boolean algebra concepts and their application to digital circuitry, and elaborates on both combinational and sequential circuits. It provides numerous fully worked-out, laboratory tested examples to give students a solid grounding in the related design concepts. It includes a number of short questions with answers, review questions, fill in the blanks with answers, multiple choice questions with answers and exercise problems at the end of each chapter.

Computer Logic Design Jul 15 2021

Digital Design Oct 30 2022 For courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. Digital Design, fifth edition is a modern update of the classic authoritative text on digital design. This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools

for the design of digital circuits and provides procedures suitable for a variety of digital applications.

Digital Design, Global Edition Feb 19 2022 For introductory courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. A clear and accessible approach to teaching the basic tools, concepts, and applications of digital design. A modern update to a classic, authoritative text, Digital Design, 6th Edition teaches the fundamental concepts of digital design in a clear, accessible manner. The text presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications. Like the previous editions, this edition of Digital Design supports a multimodal approach to learning, with a focus on digital design, regardless of language. Recognising that three public-domain languages- Verilog, VHDL, and SystemVerilog-all play a role in design flows for today's digital devices, the 6th Edition offers parallel tracks of presentation of multiple languages, but allows concentration on a single, chosen language.

Gender Through the Prism of Difference Aug 16 2021 This engaging collection of readings presents a multifaceted view of contemporary gender relations. Using other inequalities such as race, class, and sexual orientation as a prism of difference, the readings present gender as it is situated in sexual, racial-ethnic, social class, physical abilities, age, and national citizenship contexts. In addition to articles about men, women, and sexual, and immigrant diversity, this reader also includes works on gender and globalization. The editors introduce this wide-ranging collection with a provocative analytical introduction that sets the stage

for understanding gender as a socially constructed experience. Takes a sociological perspective on contemporary gender relations. Emphasizes the theme of difference or how other inequalities such as race, class, or age affect our gendered experiences. Presents a discussion of women's and men's issues. Includes articles on international and transnational factors in addition to the articles on U.S. gender relations. For anyone interested in Sociology of Gender, Women's Studies, Gender Roles, Sociology of Women, Women in Society, Race, Class, and Gender, Diversity, Feminist Theory, and Social Inequality.

Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems Sep 04 2020 This book presents high-quality papers from the Fourth International Conference on Microelectronics, Computing & Communication Systems (MCCS 2019). It discusses the latest technological trends and advances in MEMS and nanoelectronics, wireless communication, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems and sensor network applications. It includes papers based on original theoretical, practical and experimental simulations, development, applications, measurements and testing. The applications and solutions discussed here provide excellent reference material for future product development.

Digital Design Jan 21 2022 This book takes an authoritative introduction to basic principles of digital

design and practical requirements in both board-level and VLSI systems. Digital Design covers the most widespread logic design practices while building a solid foundation of theoretical and engineering principles. This easy-to-follow book uses a practical writing style. Includes low voltage and LVCMOS/LVTTL. Coverage of Complex Programmable Logic Devices (CPLDs) and Field-Programmable Gate Arrays (FPGAs). Introduction of HDL-based digital design Covers VHDL as well as ABEL. Including simulation and synthesis.

***Schaum's Outline of Theory and Problems of Basic Circuit Analysis* May 25 2022 Confusing Textbooks? Missed Lectures? Not Enough Time?. . Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. . . This Schaum's Outline gives you. . Practice problems with full explanations that reinforce knowledge. Coverage of the most up-to-date developments in your course field. In-depth review of practices and applications. . . Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores!. . Schaum's Outlines-Problem Solved..**

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Logic and Computer Design Fundamentals Nov 06 2020 Featuring a strong emphasis on the fundamentals underlying contemporary logic design using hardware description languages, synthesis, and verification, this

book focuses on the ever-evolving applications of basic computer design concepts with strong connections to real-world technology. Treatment of logic design, digital system design, and computer design. Ideal for self-study by engineers and computer scientists.

Digital Electronics Dec 20 2021 The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and

graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

Proceedings of the Sixth International Conference on Green and Human Information Technology Nov 26 2019

This volume presents the Proceedings of the Sixth International Conference on Green and Human Information Technology (ICGHIT), held in Chiang Mai, Thailand, Jan 31-Feb 2, 2018. ICGHIT is the unique global conference for researchers, industry professionals, and academics interested in the latest development of green and human information technology. Its broad scope ranges from electronics to communications, computers, multimedia and signal processing, control and intelligent systems, IC and convergence technologies, which are related to green and human issues such as energy saving and human welfare. Specially in this volume, ICGHIT covers state-of-the-art technologies for the 4th industrial revolution, for example, cyber security, big data and cloud service, smart medical system, machine learning and its applications.

Digital Logic and Computer Design Mar 23 2022

Logic and Computer Design Fundamentals Aug 28

2022 Featuring a strong emphasis on the fundamentals underlying contemporary logic design using hardware description languages, synthesis and verification, this text focuses on the ever-evolving applications of basic computer design concepts.

The Principles of Computer Hardware Oct 25 2019

Principles of Computer Hardware, now in its third edition, provides a first course in computer architecture or computer organization for undergraduates. The book covers the core topics of

such a course, including Boolean algebra and logic design; number bases and binary arithmetic; the CPU; assembly language; memory systems; and input/output methods and devices. It then goes on to cover the related topics of computer peripherals such as printers; the hardware aspects of the operating system; and data communications, and hence provides a broader overview of the subject. Its readable, tutorial-based approach makes it an accessible introduction to the subject. The book has extensive in-depth coverage of two microprocessors, one of which (the 68000) is widely used in education. All chapters in the new edition have been updated. Major updates include: * powerful software simulations of digital systems to accompany the chapters on digital design; * a tutorial-based introduction to assembly language, including many examples; * a completely rewritten chapter on RISC, which now covers the ARM computer.

Artificial Intelligence and Evolutionary Computations in Engineering Systems Jun 01 2020 The book is a collection of high-quality peer-reviewed research papers presented in the first International Conference on International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES -2015) held at Velammal Engineering College (VEC), Chennai, India during 22 - 23 April 2015. The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. Researchers from academic and industry present their original work and exchange ideas, information, techniques and applications in the field of Communication, Computing and Power Technologies.

Capital Sep 24 2019 The "forgotten" second volume of Capital, Marx's world-shaking analysis of economics,

politics, and history, contains the vital discussion of commodity, the cornerstone to Marx's theories.

Modern Digital Design and Switching Theory Oct 06 2020 **Modern Digital Design and Switching Theory** is an important text that focuses on promoting an understanding of digital logic and the computer programs used in the minimization of logic expressions. Several computer approaches are explained at an elementary level, including the Quine-McCluskey method as applied to single and multiple output functions, the Shannon expansion approach to multilevel logic, the Directed Search Algorithm, and the method of Consensus. Chapters 9 and 10 offer an introduction to current research in field programmable devices and multilevel logic synthesis. Chapter 9 covers more advanced topics in programmed logic devices, including techniques for input decoding and Field-Programmable Gate Arrays (FPGAs). Chapter 10 includes a discussion of boolean division, kernels and factoring, boolean tree structures, rectangle covering, binary decision diagrams, and if-then-else operators. Computer algorithms covered in these two chapters include weak division, iterative weak division, and kernel extraction by tabular methods and by rectangle covering theory. **Modern Digital Design and Switching Theory** is an excellent textbook for electrical and computer engineering students, in addition to a worthwhile reference for professionals working with integrated circuits.

The Essentials of Computer Organization and Architecture Dec 08 2020 Updated and revised, **The Essentials of Computer Organization and Architecture, Third Edition** is a comprehensive resource that addresses all of the necessary organization and

architecture topics, yet is appropriate for the one-term course.

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