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Digital Logic Circuit Analysis and Design [rental Edition]-Victor P Nelson 2020-02-18 This print textbook is available for students to rent for their classes. The Pearson print rental program provides students with affordable access to learning materials, so they come to class ready to succeed. Balance breadth and depth of coverage with practical real-world design methods. Digital Logic Circuit Analysis and Design provides an authoritative, state-of-the-art approach to the fundamentals of digital logic analysis and design that is highly supportive of student learning. The book balances theory and practice in depth without getting bogged down in excessive technical or mathematical language. Retaining its tradition of both clarity and rigor, the 2nd Edition features extensive coverage of current topics of interest, such as modeling with Verilog and VHDL, design with programmable devices, and computer-aided design. Filled with updated illustrations, examples, and problems, this text helps students gain a solid sense of how theory underlies practice. This title is also available digitally as a standalone Pearson eText. Contact your Pearson rep for more information.

Digital Logic Circuit Analysis and Design-Victor Peter Nelson 2007

Digital Logic Circuit Analysis and Design [rental Edition]-Victor P Nelson 2007 A text developed from a previous work, An Introduction to Computer Logic (1974) by Nagle, Carroll, and Irwin, which was a widely adopted text on the fundamentals of combinational and sequential logic circuit analysis and synthesis. The present text retains its predecessor's strong coverage of fundamental theory. To address practical design issues, over half of the text is new material that reflects the many changes which have occurred in recent years, including modular design, CAD methods, and the use of programmable logic, as well as such practical issues as device timing characteristics and standard logic symbols. Annotation copyright by Book News, Inc., Portland, OR

Digital Logic Circuit Analysis and Design- 1995
DIGITAL LOGIC DESIGN - Sonali Singh 2018-06-01 Description: The book is an attempt to make Digital Logic Design easy and simple to understand. The book covers various features of Logic Design using lots of examples and relevant diagrams. The complete text is reviewed for its correctness. This book is an outcome of sincere effort and hard work to bring concepts of Digital Logic Design close to the audience of this book. The salient features of the book: -- Easy explanation of Digital System and Binary Numbers with lots of solved examples - Detailed covering of Boolean Algebra and Gate-Level Minimization with proper examples and diagrammatic representation - Detailed analysis of different Combinational Logic Circuits - Complete Synchronous sequential Logic understanding - Deep understanding of Memory and Programmable Logic - Detailed analysis of different Asynchronous Sequential Logic Table Of Contents: Unit 1: Digital System and Binary Numbers; Part 1: Digital System and Binary Numbers: Part 2: Boolean Algebra and Gate Level Minimization; Unit 2: Combinational Logic; Unit 3: Sequential Circuits; Unit 4: Memory, Programmable Logic and Design; Unit 5: Asynchronous Sequential Logic

Digital Circuit Analysis and Design with Simulink Modeling and Introduction to CPLDs and FPGAs - Steven T. Karris 2007 This text includes the following chapters and appendices: Common Number Systems and Conversions Operations in Binary, Octal, and Hexadecimal Systems Sign Magnitude and Floating Point Arithmetic Binary Codes Fundamentals of Boolean Algebra Minterms and Maxterms Combinational Logic Circuits Sequential Logic Circuits Memory Devices Advanced Arithmetic and Logic Operations Introduction to Field Programmable Devices Introduction to the ABEL Hardware Description Language Introduction to VHDL Introduction to Verilog Introduction to Boundary-Scan Architecture. Each chapter contains numerous practical applications. This is a design-oriented text.

Digital Electronics 1 - Tertulien Ndjountche 2016-06-17 The omnipresence of electronic devices in our everyday lives has been accompanied by the downscaling of chip feature sizes and the ever increasing complexity of digital circuits. This book is devoted to the analysis and design of digital circuits, where the signal can assume only two possible logic levels. It deals with the basic principles and concepts of digital electronics. It addresses all aspects of combinational logic and provides a detailed understanding of logic gates that are the basic components in the implementation of circuits used to perform functions and operations of Boolean algebra. Combinational logic circuits are characterized by outputs that depend only on the actual input values. Efficient techniques to derive logic equations are proposed together with methods of analysis and synthesis of combinational logic circuits. Each chapter is well structured and is supplemented by a selection of solved exercises covering logic design practices.

Digital Logic Design - Brian Holdsworth 2002-11-01 New, updated and expanded topics in the fourth edition include: EBCDIC, Grey code, practical applications of flip-flops, linear and shaft encoders, memory elements and FPGAs. The section on fault-finding has been expanded. A new chapter is dedicated to the interface between digital components and analog voltages.* A highly accessible, comprehensive and fully up to date digital systems text * A well known and respected text now revamped for current courses * Part of the Newnes suite of texts for HND/1st year modules

CMOS Logic Circuit Design - John P. Uyemura 2007-05-08 This is an up-to-date treatment of the analysis and design of CMOS integrated digital logic circuits. The self-contained book covers all of the important digital circuit design styles found in modern CMOS chips, emphasizing solving design problems using the various logic styles available in CMOS.

Digital Logic Circuit Analysis and Design - Victor Peter Nelson 2019 "The advent, in the 1980s, of low-cost, easy to use computers such as the IBM Personal Computer and the Apple II led to decades of expanding applications of computers in all aspects of life. Later, the Internet made it feasible to interconnect computers around the world which spurred even more uses of computers including cloud computing. The continued miniaturization and cost reduction of microelectronics has resulted in the
proliferization of mobile devices, an emergence of the Internet of Things (IoT), and the rise of on-chip parallel processing. Continued evolution of computer hardware coupled with advances in artificial intelligence and software will lead to even more sophisticated applications in the years to come"--

Digital Logic Design-Guy Even 2012-10-08 This textbook, based on the author's fifteen years of teaching, is a complete teaching tool for turning students into logic designers in one semester. Each chapter describes new concepts, giving extensive applications and examples. Assuming no prior knowledge of discrete mathematics, the authors introduce all background in propositional logic, asymptotics, graphs, hardware and electronics. Important features of the presentation are: • All material is presented in full detail. Every designed circuit is formally specified and implemented, the correctness of the implementation is proved, and the cost and delay are analyzed • Algorithmic solutions are offered for logical simulation, computation of propagation delay and minimum clock period • Connections are drawn from the physical analog world to the digital abstraction • The language of graphs is used to describe formulas and circuits • Hundreds of figures, examples and exercises enhance understanding. The extensive website (http://www.eng.tau.ac.il/~guy/Even-Medina/) includes teaching slides, links to Logisim and a DLX assembly simulator.

Digital Circuits-Ronald C. Emery 2020-11-25 This textbook is intended to introduce the student of electronics to the fundamentals of digital circuits, both combinational and sequential, in a reasonable and systematic manner. It proceeds from basic logic concepts to circuits and designs.

Digital Electronics: A Primer - Introductory Logic Circuit Design-Mark S Nixon 2015-01-27 This practical introduction explains exactly how digital circuits are designed, from the basic circuit to the advanced system. It covers combinational logic circuits, which collect logic signals, to sequential logic circuits, which embody time and memory to progress through sequences of states. The primer also highlights digital arithmetic and the integrated circuits that implement the logic functions. Based on the author's extensive experience in teaching digital electronics to undergraduates, the book translates theory directly into practice and presents the essential information in a compact, digestible style. Worked problems and examples are accompanied by abbreviated solutions, with demonstrations to ensure that the design material and the circuits' operation are fully understood. This is essential reading for any electronic or electrical engineering student new to digital electronics and requiring a succinct yet comprehensive introduction.

Asynchronous Operators of Sequential Logic: Venjuction & Sequention-Vadim Vasyukevich 2011-06-18 This book is dedicated to new mathematical instruments assigned for logical modeling of the memory of digital devices. The case in point is logic-dynamical operation named venjuction and venjunctive function as well as sequention and sequential function. Venjuction and sequention operate within the framework of sequential logic. In a form of the corresponding equations, they organically fit analytical expressions of Boolean algebra. Thus, a sort of symbiosis is formed using elements of asynchronous sequential logic on the one hand and combinational logic on the other hand. So, asynchronous logic is represented in the form of enhanced Boolean logic. The book contains initial concepts, fundamental definitions, statements, principles and rules needed for theoretical justification of the mathematical apparatus and its validity for asynchronous logic. Asynchronous operators named venjunctor and sequentor are designed for practical implementation. These basic elements are assigned for realizing of memory functions in sequential circuits. Present research work is the final stage of generalization and systematization of all those ideas and investigations, author's interest to which alternately flashed up and faded over many years and for various reasons until formed "critical mass", and all findings were arranged definitively as a mathematical basis of a theory appropriately associated under a common theme - asynchronous sequential logic, essentially classified as switching logic, which falls into category of algebraic logics.

Foundations of Analog and Digital Electronic Circuits-Anant Agarwal
Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

Digital Logic-M. Rafiquzzaman 2019-09-11 Digital Logic with an Introduction to Verilog and FPGA-Based Design provides basic knowledge of field programmable gate array (FPGA) design and implementation using Verilog, a hardware description language (HDL) commonly used in the design and verification of digital circuits. Emphasizing fundamental principles, this student-friendly textbook is an ideal resource for introductory digital logic courses. Chapters offer clear explanations of key concepts and step-by-step procedures that illustrate the real-world application of FPGA-based design. Designed for beginning students familiar with DC circuits and the C programming language, the text begins by describing of basic terminologies and essential concepts of digital integrated circuits using transistors. Subsequent chapters cover device level and logic level design in detail, including combinational and sequential circuits used in the design of microcontrollers and microprocessors. Topics include Boolean algebra and functions, analysis and design of sequential circuits using logic gates, FPGA-based implementation using CAD software tools, and combinational logic design using various HDLs with focus on Verilog.

Digital Electronics 2-Tertulien Ndjountche 2016-08-29 As electronic devices become increasingly prevalent in everyday life, digital circuits are becoming even more complex and smaller in size. This book presents the basic principles of digital electronics in an accessible manner, allowing the reader to grasp the principles of combinational and sequential logic and the underlying techniques for the analysis and design of digital circuits. Providing a hands-on approach, this work introduces techniques and methods for establishing logic equations and designing and analyzing digital circuits. Each chapter is supplemented with practical examples and well-designed exercises with worked solutions. This second of three volumes focuses on sequential and arithmetic logic circuits. It covers various aspects related to the following topics: latch and flip-flop; binary counters; shift registers; arithmetic and logic circuits; digital integrated circuit technology; semiconductor memory; programmable logic circuits. Along with the two accompanying volumes, this book is an indispensable tool for students at a bachelors or masters level seeking to improve their understanding of digital electronics, and is detailed enough to serve as a reference for electronic, automation and computer engineers.

Introduction to Logic Circuits & Logic Design with Verilog-Brock J. LaMeres 2017-04-17 This textbook for courses in Digital Systems Design introduces students to the fundamental hardware used in modern computers. Coverage includes both the classical approach to digital system design (i.e., pen and paper) in addition to the modern hardware description language (HDL) design approach (computer-based). Using this textbook enables readers to design digital systems using the modern HDL approach, but they have a broad foundation of knowledge of the underlying hardware and theory of their designs. This book is designed to match the way the material is actually taught in the classroom. Topics are presented in a manner which builds foundational knowledge before moving onto advanced topics. The author has designed the presentation with learning Goals and assessment at its core. Each section addresses a specific learning outcome that the student should be able to “do” after its completion. The concept checks and exercise problems provide a rich set of assessment tools to measure student performance on each outcome.
Digital Logic Testing and Simulation - Alexander Miczo 2003-10-24 Your road map for meeting today's digital testing challenges. Today, digital logic devices are common in products that impact public safety, including applications in transportation and human implants. Accurate testing has become more critical to reliability, safety, and the bottom line. Yet, as digital systems become more ubiquitous and complex, the challenge of testing them has become more difficult. As one development group designing a RISC stated, "the work required to . . . test a chip of this size approached the amount of effort required to design it." A valued reference for nearly two decades, Digital Logic Testing and Simulation has been significantly revised and updated for designers and test engineers who must meet this challenge. There is no single solution to the testing problem. Organized in an easy-to-follow, sequential format, this Second Edition familiarizes the reader with the many different strategies for testing and their applications, and assesses the strengths and weaknesses of the various approaches. The book reviews the building blocks of a successful testing strategy and guides the reader on choosing the best solution for a particular application. Digital Logic Testing and Simulation, Second Edition covers such key topics as: * Binary Decision Diagrams (BDDs) and cycle-based simulation * Tester architectures/Standard Test Interface Language (STIL) * Practical algorithms written in a Hardware Design Language (HDL) * Fault tolerance * Behavioral Automatic Test Pattern Generation (ATPG) * The development of the Test Design Expert (TDX), the many obstacles encountered and lessons learned in creating this novel testing approach Up-to-date and comprehensive, Digital Logic Testing and Simulation is an important resource for anyone charged with pinpointing faulty products and assuring quality, safety, and profitability.


Foundations of Digital Logic Design - Gideon Langholz 1998-08-11 This text is intended for a first course in digital logic design, at the sophomore or junior level, for electrical engineering, computer engineering and computer science programs, as well as for a number of other disciplines such as physics and mathematics. The book can also be used for self-study or for review by practicing engineers and computer scientists not intimately familiar with the subject. After completing this text, the student should be prepared for a second (advanced) course in digital design, switching and automata theory, microprocessors or computer organization. Request Inspection Copy

Design, Analysis and Test of Logic Circuits Under Uncertainty - Smita Krishnaswamy 2012-09-21 Logic circuits are becoming increasingly susceptible to probabilistic behavior caused by external radiation and process variation. In addition, inherently probabilistic quantum- and nano-technologies are on the horizon as we approach the limits of CMOS scaling. Ensuring the reliability of such circuits despite the probabilistic behavior is a key challenge in IC design—one that necessitates a fundamental, probabilistic reformulation of synthesis and testing techniques. This monograph will present techniques for analyzing, designing, and testing logic circuits with probabilistic behavior.

Digital Logic Circuits - Atul P. Godse 2007

Principles of Modern Digital Design - Parag K. Lala 2007-09-10 PRINCIPLES OF MODERN DIGITAL DESIGN FROM UNDERLYING PRINCIPLES TO IMPLEMENTATION—A THOROUGH INTRODUCTION TO DIGITAL LOGIC DESIGN With this book, readers discover the connection between logic design principles and theory and the logic design and optimization techniques used in practice. Therefore, they not only learn how to implement current design techniques, but also how these techniques were developed and why they work. With a deeper understanding of the underlying principles, readers become better problem-solvers when faced with new and difficult digital design challenges. Principles of Modern Digital Design begins with an examination of number systems and binary code followed by the fundamental concepts of digital logic. Next, readers advance to combinational logic design. Armed with this foundation, they are
then introduced to VHDL, a powerful language used to describe the function of digital circuits and systems. All the major topics needed for a thorough understanding of modern digital design are presented, including: Fundamentals of synchronous sequential circuits and synchronous sequential circuit design Combinational logic design using VHDL Counter design Sequential circuit design using VHDL Asynchronous sequential circuits VHDL-based logic design examples are provided throughout the book to illustrate both the underlying principles and practical design applications. Each chapter is followed by exercises that enable readers to put their skills into practice by solving realistic digital design problems. An accompanying website with Quartus II software enables readers to replicate the book’s examples and perform the exercises. This book can be used for either a two- or one-semester course for undergraduate students in electrical and computer engineering and computer science. Its thorough explanation of theory, coupled with examples and exercises, enables both students and practitioners to master and implement modern digital design techniques with confidence.

**Fundamentals of Digital Logic and Microcomputer Design**
*M.* Rafiquzzaman 2005-07-08 Fundamentals of Digital Logic and Microcomputer Design, has long been hailed for its clear and simple presentation of the principles and basic tools required to design typical digital systems such as microcomputers. In this Fifth Edition, the author focuses on computer design at three levels: the device level, the logic level, and the system level. Basic topics are covered, such as number systems and Boolean algebra, combinational and sequential logic design, as well as more advanced subjects such as assembly language programming and microprocessor-based system design. Numerous examples are provided throughout the text. Coverage includes: Digital circuits at the gate and flip-flop levels Analysis and design of combinational and sequential circuits Microcomputer organization, architecture, and programming concepts Design of computer instruction sets, CPU, memory, and I/O System design features associated with popular microprocessors from Intel and Motorola Future plans in microprocessor development An instructor’s manual, available upon request Additionally, the accompanying CD-ROM, contains step-by-step procedures for installing and using Altera Quartus II software, MASM 6.11 (8086), and 68asmsim (68000), provides valuable simulation results via screen shots. Fundamentals of Digital Logic and Microcomputer Design is an essential reference that will provide you with the fundamental tools you need to design typical digital systems.

**Digital Electronic Circuits - The Comprehensive View**
*A.* Axelevitch Alexander 2018-09-25 This book deals with key aspects of design of digital electronic circuits for different families of elementary electronic devices. Implementation of both simple and complex logic circuits are considered in detail, with special attention paid to the design of digital systems based on complementary metal-oxide-semiconductor (CMOS) and Pass-Transistor Logic (PTL) technologies acceptable for use in planar microelectronics technology. It is written for students in electronics and microelectronics, with exercises and solutions provided.

**Digital Logic Design Principles**
*N.* Norman Balabanian 2007-05 Market_Desc: · Electrical engineers · Logic Designers in Computer Industry Special Features: · Provides extensive exercises for readers to work out while studying a topic · Presents up-to-date approaches in logic design in later chapters · Discusses the relationship between digital system design and computer architecture About The Book: This is an introductory-level book on the principles of digital logic design. While providing coverage to the usual topics in combinational and sequential circuit principles, it also includes a chapter on the use of the hardware description language ABEL in the design of circuits using PLDs and a chapter on computer organization.

**Introduction to Logic Circuits & Logic Design with Verilog**
*B.* LaMeres 2019-04-10 This textbook for courses in Digital Systems Design introduces students to the fundamental hardware used in modern computers. Coverage includes both the classical approach to digital system design (i.e., pen and paper) in addition to the modern hardware description language (HDL) design approach (computer-based). Using this textbook enables readers to design digital systems using the modern HDL approach, but they have a broad foundation of knowledge of the underlying hardware and theory of their designs. This book is designed to match the way the
material is actually taught in the classroom. Topics are presented in a manner which builds foundational knowledge before moving onto advanced topics. The author has designed the presentation with learning goals and assessment at its core. Each section addresses a specific learning outcome that the student should be able to “do” after its completion. The concept checks and exercise problems provide a rich set of assessment tools to measure student performance on each outcome.

experiments, sequential circuits, flip-flops, lamp handball, memory units, serial addition, shift registers, and simplification of Boolean function. Practice MSI and PLD Components MCQ PDF with answers to solve MCQ test questions: Introduction to MSI and PLD components, binary adder and subtractor, carry propagation, decimal adder, decoders and encoders, introduction to combinational logics, magnitude comparator, multiplexers, and read only memory. Practice Registers Counters and Memory Units MCQ PDF with answers to solve MCQ test questions: Introduction to registers counters, registers, ripple counters, shift registers, synchronous counters, and timing sequences. Practice Simplification of Boolean Functions MCQ PDF with answers to solve MCQ test questions: DE Morgan’s theorem, dont care conditions, five variable map, four variable map, map method, NAND implementation, NOR implementation, OR and invert implementations, product of sums simplification, selection of prime implicants, tabulation method, two and three variable maps, and two level implementations. Practice Standard Graphic Symbols MCQ PDF with answers to solve MCQ test questions: Dependency notation symbols, qualifying symbols, and rectangular shape symbols. Practice Synchronous Sequential Logics MCQ PDF with answers to solve MCQ test questions: Introduction to synchronous sequential logic, flip-flops in synchronous sequential logic, clocked sequential circuits, clocked sequential circuits analysis, design of counters, design procedure in sequential logic, flip-flops excitation tables, state reduction and assignment, and triggering of flip-flops.

CMOS Digital Integrated Circuits - Sung-Mo Kang 2002 The fourth edition of CMOS Digital Integrated Circuits: Analysis and Design continues the well-established tradition of the earlier editions by offering the most comprehensive coverage of digital CMOS circuit design, as well as addressing state-of-the-art technology issues highlighted by the widespread use of nanometer-scale CMOS technologies. In this latest edition, virtually all chapters have been re-written, the transistor model equations and device parameters have been revised to reflect the significant changes that must be taken into account for new technology generations, and the material has been reinforced with up-to-date examples. The broad-ranging coverage of this textbook starts with the fundamentals of CMOS process technology, and continues with MOS transistor models, basic CMOS gates, interconnect effects, dynamic circuits, memory circuits, arithmetic building blocks, clock and I/O circuits, low power design techniques, design for manufacturability and design for testability.

Computer Analysis of a Digital Logic Circuit - Rodney Jerome Means 1970

High-Frequency Integrated Circuits - Sorin Voinigescu 2013-02-28 A transistor-level, design-intensive overview of high speed and high frequency monolithic integrated circuits for wireless and broadband systems from 2 GHz to 200 GHz, this comprehensive text covers high-speed, RF, mm-wave, and optical fibre circuits using nanoscale CMOS, SiGe BiCMOS, and III-V technologies. Step-by-step design methodologies, end-of-chapter problems, and practical simulation and design projects are provided, making this an ideal resource for senior undergraduate and graduate courses in circuit design. With an emphasis on device-circuit topology interaction and optimization, it gives circuit designers and students alike an in-depth understanding of device structures and process limitations affecting circuit performance.

Digital Integrated Circuits - John E. Ayers 2018-09-03 Exponential improvement in functionality and performance of digital integrated circuits has revolutionized the way we live and work. The continued scaling down of MOS transistors has broadened the scope of use for circuit technology to the point that texts on the topic are generally lacking after a few years. The second edition of Digital Integrated Circuits: Analysis and Design focuses on timeless principles with a modern interdisciplinary view that will serve integrated circuits engineers from all disciplines for years to come. Providing a revised instructional reference for engineers involved with Very Large Scale Integrated Circuit design and fabrication, this book delves into the dramatic advances in the field, including new applications and changes in the physics of operation made possible by relentless miniaturization. This book was conceived in the versatile spirit of the field to bridge a void that had existed between books on transistor electronics and those covering VLSI design and fabrication as a separate topic. Like the first edition, this
volume is a crucial link for integrated circuit engineers and those studying the field, supplying the cross-disciplinary connections they require for guidance in more advanced work. For pedagogical reasons, the author uses SPICE level 1 computer simulation models but introduces BSIM models that are indispensable for VLSI design. This enables users to develop a strong and intuitive sense of device and circuit design by drawing direct connections between the hand analysis and the SPICE models. With four new chapters, more than 200 new illustrations, numerous worked examples, case studies, and support provided on a dynamic website, this text significantly expands concepts presented in the first edition.

Digital Design  M. Morris Mano 2013 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 Systems  Jean-Pierre Deschamps 2016-10-12 This textbook for a one-semester course in Digital Systems Design describes the basic methods used to develop "traditional" Digital Systems, based on the use of logic gates and flip flops, as well as more advanced techniques that enable the design of very large circuits, based on Hardware Description Languages and Synthesis tools. It was originally designed to accompany a MOOC (Massive Open Online Course) created at the Autonomous University of Barcelona (UAB), currently available on the Coursera platform. Readers will learn what a digital system is and how it can be developed, preparing them for steps toward other technical disciplines, such as Computer Architecture, Robotics, Bionics, Avionics and others. In particular, students will learn to design digital systems of medium complexity, describe digital systems using high level hardware description languages, and understand the operation of computers at their most basic level. All concepts introduced are reinforced by plentiful illustrations, examples, exercises, and applications. For example, as an applied example of the design techniques presented, the authors demonstrate the synthesis of a simple processor, leaving the student in a position to enter the world of Computer Architecture and Embedded Systems.

Digital Logic and Switching Circuits  Jefferson C. Boyce 1975

Digital Circuits and Logic Design  Samuel C. Lee 1976

Introduction to Digital Logic  Textbook Equity 2014-09-10 This textbook, released under a Creative Commons Share Alike (CC BY SA) license, is presented in its original format with the academic content unchanged. It was authored by James Feher and reviewed by colleagues, and provided by the University of Georgia's Global Textbook Project. This lab manual provides an introduction to digital logic, starting with simple gates and building up to state machines. Students should have a solid understanding of algebra as well as a rudimentary understanding of basic electricity including voltage, current, resistance, capacitance, inductance and how they relate to direct current circuits.

Circuit Analysis For Dummies  John Santiago 2013-04-01 Circuits overloaded from electric circuit analysis? Many universities require that students pursuing a degree in electrical or computer engineering take an Electric Circuit Analysis course to determine who will "make the cut" and continue in the degree program. Circuit Analysis For Dummies will help these students to better understand electric circuit analysis by presenting the information in an effective and straightforward manner. Circuit Analysis For Dummies gives you clear-cut information about the topics covered in an electric circuit analysis course to help further your understanding of the subject. By covering topics such as resistive circuits, Kirchhoff's laws, equivalent sub-circuits, and energy storage, this book distinguishes itself as the perfect aid for any student taking an electric circuit analysis course. Tracks to a typical electric circuit analysis course. Serves as an excellent supplement to your circuit analysis text. Helps you score high on exam day. Whether you're pursuing a degree in electrical or computer engineering or...
are simply interested in circuit analysis, you can enhance your knowledge of the subject with Circuit Analysis For Dummies.