
Digital Logic Circuits By P S Manoharan

Digital Logic Circuit Analysis and Design [rental Edition]
Digital Electronics 2
Foundations of Analog and Digital Electronic Circuits
Sequential and Arithmetic Logic Circuits
Foundations of Digital Logic Design
Quantum-Dot Cellular Automata Based Digital Logic Circuits: A Design Perspective
Digital Logic Circuit Analysis and Design
Digital Logic Circuits
Digital Logic Circuits using VHDL
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Digital Logic Circuits (As Per Anna University)
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Digital Electronics
With an Introduction to Verilog and FPGA-Based Design

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Digital Logic Circuit Analysis and Design [rental Edition] Tata McGraw-Hill Education
 This book introduces readers to both the fundamentals of digital logic and the advanced, modern method of utilizing the fundamentals with PLD Technology. An application first approach—and over 80 PLD alternative circuit applications for both Altera and Xilinx integrated and referenced throughout the book—shows learners how to immediately begin using PLD software and allow them to experiment. The book emphasizes strong testing, test equipment, and troubleshooting, to help prepare the technician student for the working world. Other key topics include number systems and codes, standard logic versus programmable logic, digital IC types, troubleshooting logic gates, logic circuit simplification, decoders and encoders, other combinational logic circuits, set-reset and data-type flip-flops, JK flip-flop and timer circuits,

registers, counters, semiconductor memories, digital systems, and an introduction to microprocessors. For technicians specializing in digital electronics.

Digital Electronics 2

CRC Press

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

Foundations of Analog and Digital Electronic Circuits Butterworth-Heinemann

- Explains electronics from fundamentals to applications - no other book has such breadth of coverage
- Approachable, clear writing style with minimal math - no previous knowledge of electronics required!
- Now fully revised and updated to include coverage of the latest developments in electronics: Blu-ray, HD, 3D TV, digital TV and radio, miniature computers, robotic systems and more

Electronics Simplified (previously published as *Electronics Made Simple*) is essential reading for students embarking on courses involving electronics, anyone whose job involves electronic technology or equipment, and anyone who wants to

know more about the electronics revolution. No previous knowledge is assumed and by focusing on how systems work, rather than on details of circuit diagrams and calculations, this book introduces readers to the key principles and technology of modern electronics without needing access to expensive equipment or laboratories. This approach also enables students to gain a firm grasp of the principles they will be applying in the lab. Explains electronics from fundamentals to applications - No other book has such breadth of coverage Approachable, clear writing style, with minimal math - No previous knowledge of electronics required! Now fully revised and updated to include coverage of the latest developments in electronics: Blu-ray, HD, 3-D TV, digital TV and radio, miniature computers, robotic systems and more.

Sequential and Arithmetic Logic Circuits World Scientific Publishing Company

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.

Foundations of Digital Logic Design Sree kamalamani Publications

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.

Quantum-Dot Cellular Automata Based Digital Logic Circuits: A Design Perspective Tata McGraw-Hill Education

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 Logic Circuit Analysis and Design

Technical Publications
Learn FileMaker® Pro 10 provides an excellent reference to FileMaker Inc.'s award-winning database program for both beginners and advanced developers. From converting files created with previous versions of FileMaker Pro and sharing data on the web to creating reports and sorting data, this book offers a hands-on approach to getting the most out of your FileMaker Pro databases. Learn how to use the completely redesigned Status area, now known as the Status toolbar; send e-mail right from FileMaker with the SMTP-based Send Mail option; build reports quickly and easily with the Saved Finds feature; automate your database with scripts and activate those scripts with the new script trigger feature;

integrate your Bento data into your FileMaker files; work with the enhanced Web viewer.

Digital Logic Circuits

Pearson College Division
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 Circuits using VHDL Sree kamalamani Publications private limited

FPGAs have almost entirely replaced the traditional Application Specific Standard Parts (ASSP) such as the 74xx logic chip families because of their superior size, versatility, and speed. For example, FPGAs provide over a million fold increase in gates compared to ASSP parts. The traditional approach for hands-on exercises has relied on ASSP parts, primarily because of their simplicity and ease of use for the novice. Not only is this approach technically outdated, but it also severely limits the complexity of the designs

that can be implemented. By introducing the readers to FPGAs, they are being familiarized with current digital technology and the skills to implement complex, sophisticated designs. However, working with FPGAs comes at a cost of increased complexity, notably the mastering of an HDL language, such as Verilog. Therefore, this book accomplishes the following: first, it teaches basic digital design concepts and then applies them through exercises; second, it implements these digital designs by teaching the user the syntax of the Verilog language while implementing the exercises. Finally, it employs contemporary digital hardware, such as the FPGA, to build a simple calculator, a basic music player, a frequency and period counter and it ends with a microprocessor being embedded in the fabric of the FGPA to communicate with the PC. In the process, readers learn about digital mathematics and digital-to-analog converter concepts through pulse width modulation.

Principles of Modern Digital Design CRC Press
Digital Logic Circuits using

VHDL Technical
Publications

Digital Logic Design

John Wiley & Sons

Digital Logic Design, Second Edition provides a basic understanding of digital logic design with emphasis on the two alternative methods of design available to the digital engineer. This book describes the digital design techniques, which have become increasingly important. Organized into 14 chapters, this edition begins with an overview of the essential laws of Boolean algebra, K-map plotting techniques, as well as the simplification of Boolean functions. This text then presents the properties and develops the characteristic equations of a number of various types of flip-flop. Other chapters consider the design of synchronous and asynchronous counters using either discrete flip-flops or shift registers. This book discusses as well the design and implementation of event driven logic circuits using the NAND sequential equation. The final chapter deals with simple coding techniques and the principles of error detection and correction. This book is a valuable resource for

undergraduate students, digital engineers, and scientists.

Applied Digital Logic

Exercises Using FPGAs

New Age International

In this volume drawn from the VLSI Handbook, the focus is on logic design and compound semiconductor digital integrated circuit technology. Expert discussions cover topics ranging from the basics of logic expressions and switching theory to sophisticated programmable logic devices and the design of GaAs MESFET and HEMT logic circuits. Logic Design *Digital Principles & Logic Design* John Wiley & Sons 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 Digital Logic Design* BPB Publications 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.

Combinational Logic Circuits Routledge

The book is written for an undergraduate course on digital electronics. The book provides basic concepts, procedures and several relevant examples to help the readers to understand the analysis and design of various digital circuits. It also introduces hardware description language, VHDL. The book teaches you the logic gates, logic families, Boolean algebra, simplification of logic functions, analysis and design of combinational circuits using SSI and MSI circuits and analysis and design of the sequential circuits. This book provides in-depth information about multiplexers, de-multiplexers, decoders, encoders, circuits for arithmetic operations, various types of flip-flops, counters and registers. It also covers asynchronous sequential circuits, memories and programmable logic devices.

Introduction to Logic Design Pearson

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.

Digital Logic Circuits (As Per Anna University) Morgan & Claypool Publishers

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.

Digital Logic Circuit Analysis and Design (second Edition)

Cambridge University Press

This book covers several futuristic computing technologies like quantum computing, quantum-dot cellular automata, DNA computing, and optical computing. In turn, it explains them using examples and tutorials on a CAD tool that can help beginners get a head start in QCA layout design. It discusses research on the design of circuits in quantum-dot cellular automata (QCA) with the objectives of obtaining low-complexity, robust designs for various arithmetic operations. The book also investigates the systematic reduction of majority logic in the realization of multi-bit adders, dividers, ALUs, and memory.

John Wiley & Sons

An essential companion to John C Morris's 'Analogue Electronics', this clear and

accessible text is designed for electronics students, teachers and enthusiasts who already have a basic understanding of electronics, and who wish to develop their knowledge of digital techniques and applications. Employing a discovery-based approach, the author covers fundamental theory before going on to develop an appreciation of logic networks, integrated circuit applications and analogue-digital conversion. A section on digital fault finding and useful ic data sheets completes the book.

Digital Electronics 1
Springer Science & Business Media

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.

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