



Digital Design and Computer Architecture, RISC-V Edition  
Fundamentals of Digital Logic with VHDL Design  
Principles and Practices and Xilinx 4. 2i Student Package  
Circuit Design, Layout, and Simulation  
Digital Logic Design  
Modern Digital Electronics 4E  
Microprocessor Engineering

*Digital Logic Design Fourth Edition*  
Floyd

OMB No. 1922375487584 edited by

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## **ROGERS MUHAMMAD**

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**Digital and Microprocessor Fundamentals** McGraw Hill  
Professional

Designed as a textbook for undergraduate students in Electrical Engineering, Electronics, Computer Science, and Information Technology, this up-to-date, well-organized study gives an exhaustive treatment of the basic principles of Digital Electronics and Logic Design. It aims at bridging the gap between these two subjects. The many years of teaching undergraduate and postgraduate students of engineering that Professor Somanathan Nair has done is reflected in the in-depth analysis and student-friendly approach of this book. Concepts are illustrated with the help of a large number of diagrams so that students can comprehend the subject with ease. Worked-out examples within the text illustrate the concepts discussed, and questions at the end of each chapter drill the students in self-study.

Digital Design Cengage Learning

This highly acclaimed, well established, book now in its fifth

edition, is intended for an introductory course in digital computer design for B.Sc. students of computer science, B.Tech. students of computer science and engineering, and BCA/MCA students of computer applications. A knowledge of programming in C or Java would be useful to give the student a proper perspective to appreciate the development of the subject. The first part of the book presents the basic tools and develops procedures suitable for the design of digital circuits and small digital systems. It equips students with a firm understanding of logic principles before they study the intricacies of logic organization and architecture of computers in the second part. Besides discussing data representation, arithmetic operations, Boolean algebra and its application in designing combinatorial and sequential switching circuits, the book introduces the Algorithmic State Machines which are used to develop a hardware description language for the design of digital systems. The organization of a small hypothetical computer is described to illustrate how instruction sets are evolved. Real computers (namely, Pentium and MIPS machines) are described and compared with the hypothetical computer. After discussing the features of a CPU, I/O devices and I/O organization, cache and virtual memory, the book

concludes with a new chapter on the use of parallelism to enhance the speed of computers. Besides, the fifth edition has new material in CMOS gates, MSI/ALU and Pentium5 architecture. The chapter on Cache and Virtual Memory has been rewritten.

Digital Logic Design and Computer Organization with Computer Architecture for Security Elsevier

A COMPREHENSIVE GUIDE TO THE DESIGN & ORGANIZATION OF MODERN COMPUTING SYSTEMS Digital Logic Design and Computer Organization with Computer Architecture for Security provides practicing engineers and students with a clear understanding of computer hardware technologies. The fundamentals of digital logic design as well as the use of the Verilog hardware description language are discussed. The book covers computer organization and architecture, modern design concepts, and computer security through hardware. Techniques for designing both small and large combinational and sequential circuits are thoroughly explained. This detailed reference addresses memory technologies, CPU design and techniques to increase performance, microcomputer architecture, including "plug and play" device interface, and memory hierarchy. A chapter on security engineering methodology as it applies to computer architecture concludes the book. Sample problems, design examples, and detailed diagrams are provided throughout this practical resource. COVERAGE INCLUDES: Combinational circuits: small designs Combinational circuits: large designs Sequential circuits: core modules Sequential circuits: small designs Sequential circuits: large designs Memory Instruction set architecture Computer architecture: interconnection Memory system Computer architecture: security

*Applied Electromagnetics Apress*

The Circuit Designer's Companion covers the theoretical aspects and practices in analogue and digital circuit design. Electronic circuit design involves designing a circuit that will fulfill its specified function and designing the same circuit so that every production model of it will fulfill its specified function, and no other undesired and unspecified function. This book is composed of nine chapters and starts with a review of the concept of grounding, wiring, and printed circuits. The subsequent chapters deal with the passive and active components of circuitry design. These topics are followed by discussions of the principles of other design components, including linear integrated circuits, digital circuits, and power supplies. The remaining chapters consider the vital role of electromagnetic compatibility in circuit design. These chapters also look into safety, design of production, testability, reliability, and thermal management of the designed circuit. This book is of great value to electrical and design engineers.

*Digital Circuit Design Laboratory Manual, 4th edition (Global)*

Lulu.com

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.

### **THEORY AND APPLICATIONS**

Tata McGraw-Hill Education

Microprocessor Engineering provides an insight in the structures and operating techniques of a small computer. The book is comprised of 10 chapters that deal with the various aspects of computing. The first two chapters tackle the basic arithmetic and logic processes. The third chapter covers the various memory devices, both ROM and RWM. Next, the book deals with the general architecture of microprocessor. The succeeding three chapters discuss the software aspects of machine operation, while the last remaining three chapters talk about the relationship of the microprocessor with the outside world. The text will be of great use to undergraduate students of various disciplines. Practitioners of computer-related fields with no previous digital experience will find this book useful.

Digital Design PHI Learning Pvt. Ltd.

"Fundamentals of Digital Logic with VHDL Design, 4th Edition is intended for an introductory course in digital logic design, which is a basic course in most electrical and computer engineering programs. A successful designer of digital logic circuits needs a good understanding of basic concepts and a firm grasp of computer-aided design (CAD) tools"--

**Principles and Practices** Addison-Wesley Longman

Provide beginning programmers with a guide to developing object-oriented program logic with Farrell's AN OBJECT-ORIENTED APPROACH TO PROGRAMMING LOGIC AND DESIGN, 4E. This text takes a unique, language-independent approach to ensure students develop a strong foundation in traditional programming principles and object-oriented concepts before learning the details of a specific programming language. The author presents object-oriented programming terminology without highly

technical language, making the book ideal for students with no previous programming experience. Common business examples clearly illustrate key points. The book begins with a strong object-oriented focus in updated chapters that make even the most challenging programming concepts accessible. A wealth of updated programming exercises in every chapter provide diverse practice opportunities, while new Video Lessons by the author clarify and expand on key topics. Use this text alone or with a language-specific companion text that emphasizes C++, Java or Visual Basic for the solid introduction to object-oriented programming logic your students need for success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

DIGITAL ELECTRONICS AND LOGIC DESIGN Prentice Hall

THE BOOK THAT MAKES ELECTRONICS MAKE SENSE This intuitive, applications-driven guide to electronics for hobbyists, engineers, and students doesn't overload readers with technical detail.

Instead, it tells you-and shows you-what basic and advanced electronics parts and components do, and how they work. Chock-full of illustrations, Practical Electronics for Inventors offers over 750 hand-drawn images that provide clear, detailed instructions that can help turn theoretical ideas into real-life inventions and gadgets. CRYSTAL CLEAR AND COMPREHENSIVE Covering the entire field of electronics, from basics through analog and digital, AC and DC, integrated circuits (ICs), semiconductors, stepper motors and servos, LCD displays, and various input/output devices, this guide even includes a full chapter on the latest microcontrollers. A favorite memory-jogger for working electronics engineers, Practical Electronics for Inventors is also

the ideal manual for those just getting started in circuit design. If you want to succeed in turning your ideas into workable electronic gadgets and inventions, is THE book. Starting with a light review of electronics history, physics, and math, the book provides an easy-to-understand overview of all major electronic elements, including: Basic passive components o Resistors, capacitors, inductors, transformers o Discrete passive circuits o Current-limiting networks, voltage dividers, filter circuits, attenuators o Discrete active devices o Diodes, transistors, thyristors o Microcontrollers o Rectifiers, amplifiers, modulators, mixers, voltage regulators ENTHUSIASTIC READERS HELPED US MAKE THIS BOOK EVEN BETTER This revised, improved, and completely updated second edition reflects suggestions offered by the loyal hobbyists and inventors who made the first edition a bestseller. Reader-suggested improvements in this guide include: Thoroughly expanded and improved theory chapter New sections covering test equipment, optoelectronics, microcontroller circuits, and more New and revised drawings Answered problems throughout the book Practical Electronics for Inventors takes you through reading schematics, building and testing prototypes, purchasing electronic components, and safe work practices. You'll find all this in a guide that's destined to get your creative-and inventive-juices flowing.

### **BASIC CONCEPTS IN DIGITAL ELECTRONICS AND LOGIC DESIGN**

John Wiley & Sons

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.

Computer Organization and Design Lulu.com

CD-ROM contains: evaluation versions of Synapticad's WaveFormer Pro -- TestBench Pro -- Verilogger Pro -- DataSheet Pro -- TimeDiagrammer Pro -- author-supplied HDL example files.

An Object-oriented Approach to Programming Logic and Design

Morgan Kaufmann

Understand the structure, behavior, and limitations of logic machines with this thoroughly updated third edition. Many new topics are included, such as CMOS gates, logic synthesis, logic design for emerging nanotechnologies, digital system testing, and asynchronous circuit design, to bring students up-to-speed with modern developments. The intuitive examples and minimal formalism of the previous edition are retained, giving students a text that is logical and easy to follow, yet rigorous. Kohavi and Jha begin with the basics, and then cover combinational logic design and testing, before moving on to more advanced topics in finite-state machine design and testing. Theory is made easier to understand with 200 illustrative examples, and students can test their understanding with over 350 end-of-chapter review questions.

*Digital Logic Circuit Analysis and Design (second Edition)*

Thomson South-Western  
 STUDENT COMPANION SITE Every new copy of Stuart  
 Wentworth's Applied Electromagnetics comes with a registration  
 code which allows access to the Student's Book Companion Site.  
 On the BCS the student will find: \* Detailed Solutions to Odd-  
 Numbered Problems in the text \* Detailed Solutions to all Drill  
 Problems from the text \* MATLAB code for all the MATLAB  
 examples in the text \* Additional MATLAB demonstrations with  
 code. This includes a Transmission Lines simulator created by the  
 author. \* Weblinks to a vast array of resources for the  
 engineering student. Go to [www.wiley.com/college/wentworth](http://www.wiley.com/college/wentworth) to  
 link to Applied Electromagnetics and the Student Companion Site.  
 ABOUT THE PHOTO Passive RFID systems, consisting of readers  
 and tags, are expected to replace bar codes as the primary  
 means of identification, inventory and billing of everyday items.  
 The tags typically consist of an RFID chip placed on a flexible film  
 containing a planar antenna. The antenna captures radiation from  
 the reader's signal to power the tag electronics, which then  
 responds to the reader's query. The PENI Tag (Product Emitting  
 Numbering Identification Tag) shown, developed by the  
 University of Pittsburgh in a team led by Professor Marlin H.  
 Mickle, integrates the antenna with the rest of the tag  
 electronics. RFID systems involve many electromagnetics  
 concepts, including antennas, radiation, transmission lines, and  
 microwave circuit components. (Photo courtesy of Marlin H.  
 Mickle.)

Principles and Practices Package Pearson College Division  
 With over 30 years of experience in both industrial and university  
 settings, the author covers the most widespread logic design

practices while building a solid foundation of theoretical and  
 engineering principles for students to use as they go forward in  
 this fast moving field.

### **DIGITAL DESIGN: INTERNATIONAL VERSION**

John Wiley & Sons Incorporated

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

### **CMOS VLSI Design: A Circuits and Systems Perspective**

Pearson Education India

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 and Computer Architecture, RISC-V Edition**

Cambridge University 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

## FUNDAMENTALS OF DIGITAL LOGIC WITH VHDL DESIGN

BPB Publications

In the era of self-taught developers and programmers, essential topics in the industry are frequently learned without a formal academic foundation. A solid grasp of data structures and algorithms (DSA) is imperative for anyone looking to do professional software development and engineering, but classes in the subject can be dry or spend too much time on theory and unnecessary readings. Regardless of your programming language background, *Codeless Data Structures and Algorithms* has you covered. In this book, author Armstrong Subero will help you learn DSAs without writing a single line of code. Straightforward explanations and diagrams give you a confident handle on the topic while ensuring you never have to open your code editor, use a compiler, or look at an integrated development environment. Subero introduces you to linear, tree, and hash data structures and gives you important insights behind the most common algorithms that you can directly apply to your own programs. *Codeless Data Structures and Algorithms* provides you with the knowledge about DSAs that you will need in the professional programming world, without using any complex mathematics or irrelevant information. Whether you are a new

developer seeking a basic understanding of the subject or a decision-maker wanting a grasp of algorithms to apply to your projects, this book belongs on your shelf. Quite often, a new, refreshing, and unpretentious approach to a topic is all you need to get inspired. What You'll Learn Understand tree data structures without delving into unnecessary details or going into too much theory Get started learning linear data structures with a basic discussion on computer memory Study an overview of arrays, linked lists, stacks and queues Who This Book Is For This book is for beginners, self-taught developers and programmers, and anyone who wants to understand data structures and algorithms but don't want to wade through unnecessary details about quirks of a programming language or don't have time to sit and read a massive book on the subject. This book is also useful for non-technical decision-makers who are curious about how algorithms work.

Principles and Practices and Xilinx 4. 2i Student Package PHI Learning Pvt. Ltd.

The performance of software systems is dramatically affected by how well software designers understand the basic hardware technologies at work in a system. Similarly, hardware designers must understand the far-reaching effects their design decisions have on software applications. For readers in either category, this classic introduction to the field provides a look deep into the computer. It demonstrates the relationships between the software and hardware and focuses on the foundational concepts that are the basis for current computer design.

## CIRCUIT DESIGN, LAYOUT, AND SIMULATION

Pearson Education India

This is one of very few books that combine the must know essentials of digital electronics and microprocessors. Through this approach, it enables students to readily understand both hardware and software. The fourth edition of Digital and Microprocessor Fundamentals: Theory and Applications enhances coverage of the following topics: \*Computer magnetic and optical

memory devices \*Review of basic electricity principles  
\*Instructions for implementing digital logic with CPLDs \*Circuit design applications using CPLDs \*Using the EMAC Primer Microprocessor Trainer \*Using the SIM8085 Microprocessor Simulator on a PC \*Important World Wide Web sites The CD packaged with this text includes SIM8085 software. This valuable learning tool allows students to simulate their programs on a Windows-based PC as they monitor registers and memory.

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