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## A Quantitative Approach

清华大学出版社有限公司

Digital Design: An Embedded Systems Approach Using Verilog provides a foundation in digital design for students in computer engineering, electrical engineering and computer science courses. It takes an up-to-date and modern approach of presenting digital logic design as an activity in a larger systems design context. Rather than focus on aspects of digital design that have little relevance in a realistic design context, this book concentrates on modern and evolving knowledge and design skills. Hardware description language (HDL)-based design and verification is emphasized--Verilog examples are used extensively throughout. By treating digital logic as part of embedded systems design, this book provides an understanding of the hardware needed in the analysis and design of systems comprising both hardware and software components. Includes a Web site with links to vendor tools, labs and tutorials. Presents digital logic design as an activity

in a larger systems design context. Features extensive use of Verilog examples to demonstrate HDL (hardware description language) usage at the abstract behavioural level and register transfer level, as well as for low-level verification and verification environments. Includes worked examples throughout to enhance the reader's understanding and retention of the material. Companion Web site includes links to tools for FPGA design from Synplcity, Mentor Graphics, and Xilinx, Verilog source code for all the examples in the book, lecture slides, laboratory projects, and solutions to exercises.

*Computer Logic Design*

McGraw-Hill Higher Education

Written for advanced study in digital systems design, Roth/John's **DIGITAL SYSTEMS DESIGN USING VHDL, 3E** integrates the use of the industry-standard hardware description

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language, VHDL, into the digital design process. The book begins with a valuable review of basic logic design concepts before introducing the fundamentals of VHDL. The book concludes with detailed coverage of advanced VHDL topics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

With an Introduction to the Verilog HDL New York ; Toronto : McGraw-Hill

**DIGITAL SYSTEMS DESIGN USING VERILOG** integrates coverage of logic design principles, Verilog as a hardware design language, and FPGA implementation to help electrical and computer engineering students master the process of

designing and testing new hardware configurations. A Verilog equivalent of authors Roth and John's previous successful text using VHDL, this practical book presents Verilog constructs side-by-side with hardware, encouraging students to think in terms of desired hardware while writing synthesizable Verilog. Following a review of the basic concepts of logic design, the authors introduce the basics of Verilog using simple combinational circuit examples, followed by models for simple sequential circuits. Subsequent chapters ask readers to tackle more and more complex designs. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Electrical Machines-I**  
**KHANNA PUBLISHING**

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## HOUSE

Master the principles of logic design with the exceptional balance of theory and application found in Roth/Kinney/John's **FUNDAMENTALS OF LOGIC DESIGN, ENHANCED**, 7th Edition.

This edition introduces you to today's latest advances. The authors have carefully developed a clear presentation that introduces the fundamental concepts of logic design without overwhelming you with the mathematics of switching theory. Twenty engaging, easy-to-follow study units present basic concepts, such as Boolean algebra, logic gate design, flip-flops and state machines. You learn to design counters, adders, sequence detectors and simple digital systems. After mastering the basics, you progress to modern design techniques using programmable logic devices as

well as VHDL hardware description language.

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## Solutions Manual

Prentice Hall

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.

Experiments Manual for use with Electronic Principles No Starch Press

This book is written so that it serves as a text book for B.E./B.Tech degree students in general and for the institutions where AICTE model curriculum has been adopted. **TOPICS COVERED IN THIS**

**BOOK:-** Magnetic field and Magnetic circuit  
Electromagnetic force and

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torque D.C. Machines D.C. Machines-Motoring and Generation SALIENT FEATURES:- Self-contained, self-explanatory and simple to follow text. Numerous worked out examples. Well Explained theory parts with illustrations. Exercises, objective type question with answers at the end of each chapter.

Introduction to the Design & Analysis of Algorithms Prentice Hall

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

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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

Structural Analysis, SI Edition Prentice Hall Professional

Part of the McGraw-Hill Core Concepts Series, Modern Digital Electronics is an ideal textbook for a course on digital electronics at the undergraduate level. The text introduces digital systems and techniques through a bottom-up approach that allows users to start out with the basics of integrated circuits/circuit design and

delve into topics such as digital design, flip flops, A/D and D/A. The book then moves on to explore elements of complex digital circuits with material like FPGAs, PLDs, PLAs, and more. Rich pedagogical features include review questions with answers, a glossary of key terms, a large number of solved examples, and numerous practice problems. This is a concise, less expensive alternative to other digital logic designs. This series is edited by Dick Dorf.

Analyzing Computer Security Prentice Hall

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

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engineering principles for students to use as they go forward in this fast moving field.

Applied Circuit Analysis

Addison-Wesley

Professional

Om hvordan

mikroprocessorer

fungerer, med

undersøgelse af de

nyeste mikroprocessorer

fra Intel, IBM og

Motorola.

Computer Organisation &

Architecture Pearson UK

Fundamentals of Digital

Logic With VHDL 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, which are easy

to understand. Then, a

modular approach is used

to show how larger circuits

are designed. VHDL is

used to demonstrate how the basic building blocks and larger systems are defined in a hardware description language, producing designs that can be implemented with

modern CAD tools. The book emphasizes the

concepts that should be

covered in an introductory

course on logic design,

focusing on: Logic

functions, gates, and rules

of Boolean algebra Circuit

synthesis and optimization

techniques Number

representation and

arithmetic circuits

Combinational-circuit

building blocks, such as

multiplexers, decoders,

encoders, and code

converters Sequential-

circuit building blocks, such

as flip-flops, registers, and

counters Design of

synchronous sequential

circuits Use of the basic

building blocks in designing

larger systems It also

includes chapters that deal

with important, but more

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advanced topics: Design of asynchronous sequential circuits Testing of logic circuits For students who have had no exposure to basic electronics, but are interested in learning a few key concepts, there is a chapter that presents the most basic aspects of electronic implementation of digital circuits. Major changes in the second edition of the book include new examples to clarify the presentation of fundamental concepts over 50 new examples of solved problems provided at the end of chapters NAND and NOR gates now introduced in Chapter 2 more complete discussion of techniques for minimization of logic functions in Chapter 4 (including the tabular method) a new chapter explaining the CAD flow for synthesis of logic circuits Altera's Quartus II CAD software provided on a CD-ROM three appendices that give tutorials on the use of Quartus II software Digital Systems Design Using Verilog Computer System Architecture By helping students develop an intuitive understanding of the subject, Microelectronics teaches them to think like engineers. The second edition of Razavi ' s Microelectronics retains its hallmark emphasis on analysis by inspection and building students ' design intuition, and it incorporates a host of new pedagogical features that make it easier to teach and learn from, including: application sidebars, self-check problems with answers,



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simulation problems with SPICE and MULTISIM, and an expanded problem set that is organized by degree of difficulty and more clearly associated with specific chapter sections.

Digital Systems Design Using VHDL Springer

The computing world today is in the middle of a revolution: mobile clients and cloud computing have emerged as the dominant paradigms driving programming and hardware innovation today. The Fifth Edition of Computer

Architecture focuses on this dramatic shift, exploring the ways in which software and technology in the cloud are accessed by cell phones, tablets, laptops,

and other mobile computing devices. Each chapter includes two real-world examples, one mobile and one datacenter, to illustrate this revolutionary change. Updated to cover the mobile computing revolution Emphasizes the two most important topics in architecture today: memory hierarchy and parallelism in all its forms. Develops common themes throughout each chapter: power, performance, cost, dependability, protection, programming models, and emerging trends ("What's Next") Includes three review appendices in the printed text. Additional reference appendices are available online. Includes updated Case Studies and completely new exercises. Elements of

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Electromagnetics Cengage Learning  
Digital Design, Global Edition.  
Logic and Computer Design Fundamentals  
McGraw-Hill Science/Engineering/Math  
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.

An Embedded Systems Approach Using

Verilog Pearson Education India  
This introductory text on 'digital logic and computer organization' presents a logical treatment of all the fundamental concepts necessary to understand the organization and design of a computer. It is designed to cover the requirements of a first-course in computer organization for undergraduate Computer Science, Electronics, or MCA students. Beginning from first principles, the text guides students through to a stage where they are able to design and build a small computer with available IC chips. Starting with the

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foundation material on data representation, computer arithmetic and combinatorial and sequential circuit design, the text explains ALU design and includes a discussion on an ALU IC chip. It also discusses Algorithmic State Machine and its representation using a Hardware Description Language before shifting to computer organization. The evolutionary development of a small hypothetical computer is described illustrating hardware-software trade-off in computer organization. Its instruction set is designed giving reasons why each new instruction is

introduced. This is followed by a description of the general features of a CPU, organization of main memory and I/O systems. The book concludes with a chapter describing the features of a real computer, namely the Intel Pentium. An appendix describes a number of laboratory experiments which can be put together by students, culminating in the design of a toy computer. Key Features

- Self-contained presentation of digital logic and computer organization with minimal pre-requisites
- Large number of examples provided throughout the book
- Each chapter

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begins with learning goals and ends with a summary to aid self-study by students. Principles and Practices Package Cengage Learning Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Microelectronics Cengage Learning  
This textbook provides a perfect amalgam of the basics of computer architecture, intricacies of modern assembly languages and advanced concepts such as multiprocessor memory systems and I/O technologies. It shows the design of a processor from first principles including its instruction set,

assembly-language specification, functional units, microprogrammed implementation and 5-stage pipeline.

Computer Organisation and Architecture can serve as a textbook in both basic as well as advanced courses on computer architecture, systems programming, and microprocessor design. Additionally, it can also serve as a reference book for courses on digital electronics and communication. Salient Features: ? Balanced presentation of theoretical, qualitative and quantitative aspects of computer architecture ?

Extensive coverage of the ARM and x86

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assembly languages ?  
Extensive software support: Instruction set emulators, assembler, Logisim and VHDL design of the SimpleRisc processor  
Fundamentals of Digital Logic with VHDL Design  
McGraw-Hill Education  
Based on a new classification of algorithm design techniques and a clear delineation of analysis methods,  
Introduction to the Design and Analysis of Algorithms presents the subject in a coherent and innovative manner. Written in a student-friendly style, the book emphasizes the understanding of ideas over excessively formal treatment while thoroughly covering the material required in an introductory algorithms course. Popular puzzles are used to motivate students' interest and strengthen their skills

in algorithmic problem solving. Other learning-enhancement features include chapter summaries, hints to the exercises, and a detailed solution manual.  
Digital Design, EBook, Global Edition Elsevier  
本书介绍使用C++进行程序设计和软件开发的基本原理,适用作大学各专业学生学习面向对象程序设计课的教材。