

Access Free Digital Logic Design And Application

Digital Logic Design And Application

***This book is designed to
serve as a hands-on
professional reference
with additional utility***

Access Free Digital Logic Design And Application

as a textbook for upper undergraduate and some graduate courses in digital logic design. This book is organized in such a way that that it can describe a number

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*of RTL design scenarios,
from simple to complex.
The book constructs the
logic design story from
the fundamentals of
logic design to advanced
RTL design concepts.*

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Keeping in view the importance of miniaturization today, the book gives practical information on the issues with ASIC RTL design and how to

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overcome these concerns. It clearly explains how to write an efficient RTL code and how to improve design performance. The book also describes advanced

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RTL design concepts such as low-power design, multiple clock-domain design, and SOC-based design. The practical orientation of the book makes it ideal for

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training programs for practicing design engineers and for short-term vocational programs. The contents of the book will also make it a useful read

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*for students and
hobbyists.*

*This textbook for a one-
semester course in
Digital Systems Design
describes the basic
methods used to develop*

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“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,

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***based on Hardware
Description Languages
and Synthesis tools. It
was originally designed
to accompany a MOOC
(Massive Open Online
Course) created at the***

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***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,***

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***preparing them for steps
toward other technical
disciplines, such as
Computer Architecture,
Robotics, Bionics,
Avionics and others. In
particular, students***

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*will learn to design
digital systems of
medium complexity,
describe digital systems
using high level
hardware description
languages, and*

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***understand the operation
of computers at their
most basic level. All
concepts introduced are
reinforced by plentiful
illustrations, examples,
exercises, and***

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applications. For example, as an applied example of the design techniques presented, the authors demonstrate the synthesis of a simple processor,

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*leaving the student in a
position to enter the
world of Computer
Architecture and
Embedded Systems.
Digital Logic with an
Introduction to Verilog*

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***and FPGA-Based Design
provides basic knowledge
of field programmable
gate array (FPGA) design
and implementation using
Verilog, a hardware
description language***

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***(HDL) commonly used in
the design and
verification of digital
circuits. Emphasizing
fundamental principles,
this student-friendly
textbook is an ideal***

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***resource for
introductory digital
logic courses. Chapters
offer clear explanations
of key concepts and step-
by-step procedures that
illustrate the real-***

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***world application of
FPGA-based design.***

***Designed for beginning
students familiar with
DC circuits and the C
programming language,
the text begins by***

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describing of basic terminologies and essential concepts of digital integrated circuits using transistors. Subsequent chapters cover device

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***level and logic level
design in detail,
including combinational
and sequential circuits
used in the design of
microcontrollers and
microprocessors. Topics***

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include Boolean algebra and functions, analysis and design of sequential circuits using logic gates, FPGA-based implementation using CAD software tools, and

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***combinational logic
design using various
HDLs with focus on
Verilog.***

***Hardware -- Logic
Design.***

Using Verilog, State

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***Machines, and Synthesis
for FPGAs***

***Introduction to Logic
Design, Second Edition
Coding and RTL Synthesis
With An Introduction to
Verilog HDL***

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With an Introduction to Verilog and FPGA-Based Design Application Of Digital Electronics

The fundamentals and
implementation of digital electronics

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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

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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

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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

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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

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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

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

Fundamentals of Digital Logic With Verilog Design teaches the basic design techniques for logic circuits. It

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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

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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

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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.

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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

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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.

The third edition of Digital Logic Techniques provides a clear and

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comprehensive treatment of the representation of data, operations on data, combinational logic design, sequential logic, computer architecture, and practical digital circuits. A wealth of exercises and worked examples in each chapter give students valuable experience in

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applying the concepts and techniques discussed. Beginning with an objective comparison between analogue and digital representation of data, the author presents the Boolean algebra framework for digital electronics, develops combinational logic design from first principles, and presents

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cellular logic as an alternative structure more relevant than canonical forms to VLSI implementation. He then addresses sequential logic design and develops a strategy for designing finite state machines, giving students a solid foundation for more advanced studies

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in automata theory. The second half of the book focuses on the digital system as an entity. Here the author examines the implementation of logic systems in programmable hardware, outlines the specification of a system, explores arithmetic processors, and elucidates fault diagnosis. The final chapter

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examines the electrical properties of logic components, compares the different logic families, and highlights the problems that can arise in constructing practical hardware systems.

There are many books on computers, networks, and software engineering

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but none that integrate the three with applications. Integration is important because, increasingly, software dominates the performance, reliability, maintainability, and availability of complex computer and systems. Books on software engineering typically portray software

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as if it exists in a vacuum with no relationship to the wider system. This is wrong because a system is more than software. It is comprised of people, organizations, processes, hardware, and software. All of these components must be considered in an integrative fashion when designing

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systems. On the other hand, books on computers and networks do not demonstrate a deep understanding of the intricacies of developing software. In this book you will learn, for example, how to quantitatively analyze the performance, reliability, maintainability, and availability of

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computers, networks, and software in relation to the total system.

Furthermore, you will learn how to evaluate and mitigate the risk of deploying integrated systems. You will learn how to apply many models dealing with the optimization of systems. Numerous quantitative

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examples are provided to help you understand and interpret model results. This book can be used as a first year graduate course in computer, network, and software engineering; as an on-the-job reference for computer, network, and software engineers; and as a reference

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for these disciplines.

Fundamentals of Digital Logic with Verilog Design

Digital Design

Digital Logic and Computer Design

DIGITAL LOGIC DESIGN

Digital Logic Design

From Logic Gates to Processors

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The second edition of this text provides an introduction to the analysis and design of digital circuits at a logic, instead of electronics, level. It covers a range of topics, from number system theory to asynchronous logic design. A solution manual is available to instructors only.

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Requests must be made on official school stationery.

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

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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.

This book describes digital design

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techniques with exercises. The concepts and exercises discussed are useful to design digital logic from a set of given specifications. Looking at current trends of miniaturization, the contents provide practical information on the issues in digital design and various design optimization and

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performance improvement techniques at logic level. The book explains how to design using digital logic elements and how to improve design performance. The book also covers data and control path design strategies, architecture design strategies, multiple clock domain

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design and exercises , low-power design strategies and solutions at the architecture and logic-design level. The book covers 60 exercises with solutions and will be useful to engineers during the architecture and logic design phase. The contents of this book prove useful to hardware

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engineers, logic design engineers, students, professionals and hobbyists looking to learn and use the digital design techniques during various phases of design.

Practical Design of Digital Circuits: Basic Logic to Microprocessors demonstrates the practical aspects of

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digital circuit design. The intention is to give the reader sufficient confidence to embark upon his own design projects utilizing digital integrated circuits as soon as possible. The book is organized into three parts. Part 1 teaches the basic principles of practical design, and introduces the

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designer to his "tools" — or rather, the range of devices that can be called upon. Part 2 shows the designer how to put these together into viable designs. It includes two detailed descriptions of actual design exercises. The first of these is a fairly simple exercise in CMOS design; the

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second is a much more complex design for an electronic game, using TTL devices. Part 3 focuses on microprocessors. It illustrates how a particular design problem changes emphasis when a microprocessor is introduced. This book is aimed at a fairly broad market: it is intended to aid

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the linear design engineer to cross the barrier into digital electronics; it should provide interesting supporting reading for students studying digital electronics from the more academic viewpoint; and it should enable the enthusiast to design much more ambitious and sophisticated projects than he could

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otherwise attempt if restricted to linear devices.

Digital Logic Design Basic Projects:

Digital Computer Logic Design

Digital Circuits

Advanced Digital Logic Design

Introduction to Logic Design

Digital Design Techniques and

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Exercises

Fundamentals of Digital Logic and Microcomputer Design

Digital Logic Design, Second Edition provides a basic understanding of digital logic design with emphasis on the two

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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

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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

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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

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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

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valuable resource for undergraduate students, digital engineers, and scientists.

A college text for a one- or two-term first course in digital logic design at about the sophomore or junior level. It covers the

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basics of switching theory and logic design necessary to analyze and design combinational and sequential logic circuits at switch, gate, and register (or register-transfer DIGITAL LOGIC offers the right

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balance of classical and up-to-date treatment of combinational and sequential logic design for a first digital logic design class. The author provides a thorough explanation of the design process, including completely

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worked examples beginning with simple examples and going on to problems of increasing complexity. This text contains PLD (Programmable Logic Design) coverage. Chapter 9 develops complete, worked

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E PROM, PLA, and EPLD design examples. The problems are developed in Chapter 7 as standard designs using SSI and MSI devices so that your students can see the difference between the two approaches.

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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.

Foundations of Digital Logic

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Design

A Rigorous Approach

Digital Logic Design Principles

Design Principles and

Applications

A Systematic Approach to Digital

Logic Design

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With VLSI Circuit Applications
This book focuses on the basic principles of digital electronics and logic design. It is designed as a textbook for undergraduate students of electronics, electrical engineering, computer science,

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physics, and information technology. The text covers the syllabi of several Indian and foreign universities. It depicts the comprehensive resources on the recent ideas in the area of digital electronics explored by leading

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experts from both industry and academia. A good number of diagrams are provided to illustrate the concepts related to digital electronics so that students can easily comprehend the subject. Solved examples

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within the text explain the concepts discussed and exercises are provided at the end of each chapter.

The book is written for an undergraduate course on digital electronics. The book provides

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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

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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

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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

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asynchronous sequential circuits, memories and programmable logic devices.

New, updated and expanded topics in the fourth edition include: EBCDIC, Grey code, practical applications of flip-flops,

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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

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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

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本书以介绍数字设计的基础知识以及丰富案例为主要特色,并在第一版的基础上进行了全面的修订与更新,更加突出了数字设计相关技术的应用. 本书内容包括:
计算机与数字系统, 数制系统,
逻辑电路与布尔代数,

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组合逻辑电路分析与设计,
时序逻辑电路简介,
同步时序逻辑电路分析与设计,
异步时序逻辑电路分析与设计,
可编程逻辑器件, 数字系统设计.
Digital Logic Circuits using VHDL
Digital Logic Design and

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Applications

Digital Logic Design and
Computer Organization with
Computer Architecture for
Security

Digital Electronics

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Digital Logic Applications And Design

FPGAs have almost entirely replaced the traditional Application Specific Standard Parts (ASSP) such as the 74xx logic chip families because of their superior size,

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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

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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

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technology and the skills to implement complex, sophisticated designs. However, working with FGPAs comes at a cost of increased complexity, notably the mastering of an HDL language, such as Verilog. Therefore, this

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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

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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

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the fabric of the FPGA to communicate with the PC. In the process, readers learn about digital mathematics and digital-to-analog converter concepts through pulse width modulation.

Digital Logic Design Elsevier

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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

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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

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(advanced) course in digital design, switching and automata theory, microprocessors or computer organization.

Fundamentals of Digital Logic and Microcomputer Design, has long been hailed for its clear and simple

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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

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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

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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

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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

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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

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It 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

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fundamentaltools you need to design typical digital systems.
Fundamentals of Digital Logic Design
Digital Logic Techniques Applications and Design
Computer Logic

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An Experimental Approach
Practical Design of Digital Circuits
Digital Logic Design is a comprehensive textbook, which aims to provide entry level readers a quick start to the field of digital logic design so as to facilitate them with

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the capability suitable for the versatility of social change and interdisciplinary learning. This textbook can be used as a textbook for classroom use in the fields of electronics, electrical, computer science, information engineering,

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mechanical, and soon. The salient features of this textbook are as follows: 1. Introduce incrementally the principles of digital logic design and exemplify each basic theme and concept with abundant illustrations. 2. Detail design

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principles of various combinational modules, including decoders, encoders, multiplexers, demultiplexers, arithmetic circuits, and so on.3. Introduce design principles of various sequential modules, including counters,

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*registers, shift registers, sequence generators, etc.*4. Address the structures, features, and applications of PLD/FPGA devices.5. Exemplify applications of CPLD/FPGA devices with Verilog HDL modules.6. Provide 20 basic

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and application experiments of digital logic to help readers verify the consistence of digital logic between principles and practice.7. Include an abundance of review questions in each section to help readers evaluate their

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*understandings about the section.8.
Deal with Verilog HDL concisely in relevant sections so as to make the reader understand how to describe a logic circuit in Verilog HDL precisely. Digital Logic Design is an ideal textbook for the digital logic*

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design course in the fields of electronics, electrical, computer science, information engineering, mechanical, etc, or serves as a valuable reference book for self-study.

This book provides the reader with

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the key concepts and techniques of modern digital logic design and applications. This concise treatment provides essential development and explanations for both classical and modern topics. The modern topics include unicode, unipolar

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transistors, copper technology, flash memory, HDL, verilog and logic simulation software tools. Also covered are combinatorial logic circuits and transistor circuits. It will be an essential resource for computer scientists, logic circuit

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designers and computer engineers. 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

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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

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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

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*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*

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*and Binary Numbers;Part 1: Digital
System and Binary NumbersPart 2 :
Boolean Algebra and Gate Level
MinimizationUnit 2 : Combinational
LogicUnit 3: Sequential
CircuitsUnit 4 : Memory,
Programmable Logic and*

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Design Unit 5 : Asynchronous Sequential Logic

This textbook is intended to serve as a practical guide for the design of complex digital logic circuits such as digital control circuits, network interface circuits, pipelined

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arithmetic units, and RISC microprocessors. It is an advanced digital logic design textbook that emphasizes the use of synthesizable Verilog code and provides numerous fully worked-out practical design examples including a Universal

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Serial Bus interface, a pipelined multiply-accumulate unit, and a pipelined microprocessor for the ARM THUMB architecture.

Digital Principles & Logic Design

Introduction to Digital Logic Design

Digital Logic

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*Principles, Devices and
Applications*

*Foundation of Digital Electronics
and Logic Design*

*Applied Digital Logic Exercises
Using FPGAs*

This book is your beginner's guide

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to simple logic programming. Digital design is based on the binary principle, where everything is either 0 or 1, either low or high. Few people realize that digital logic existed before the advent of the computer. Digital logic was used for control and communications

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systems even before semiconductors were invented. They worked using switches, relays, and solenoids. If you search the internet you will not find the phrase digital logic separate from computers. It's like the only purpose for digital logic was to

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invent the computer.

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.

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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

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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

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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.e>

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[ng.tau.ac.il/~guy/Even-Medina/](http://www.tau.ac.il/~guy/Even-Medina/) includes teaching slides, links to Logisim and a DLX assembly simulator.

With an abundance of insightful examples, problems, and computer experiments, Introduction to Logic Design provides a balanced, easy-

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to-read treatment of the fundamental theory of logic functions and applications to the design of digital devices and systems. Requiring no prior knowledge of electrical circuits or electronics, it supplies the
This textbook is intended to

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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 Systems

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

**Basic Logic to Microprocessors
Computer, Network, Software, and
Hardware Engineering with
Applications**

Fundamentals of Digital Logic

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Design, with VLSI Applications

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

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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

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language ABEL in the design of circuits using PLDs and a chapter on computer organization.

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

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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

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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.

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***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*

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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

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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

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*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*

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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

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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

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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.

A COMPREHENSIVE GUIDE TO THE

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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

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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

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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

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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

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*Instruction set architecture Computer
architecture: interconnection Memory
system Computer architecture: security
Third Edition*

*Principles of Modern Digital Design
A Practice Book for Digital Logic Design
Logic and Design*

Designed for the first

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*digital course for four-
year electrical
engineering majors and for
the second course
(following basic logic)
for four-year electrical
and electronic engineering*

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*technology majors.
Features a classical
approach to the subject.
Provides a thorough
explanation of the design
process. Includes real-
world examples with real-*

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*world parts. Extensive
problem sets. PLD
coverage.*