

Fundamentals Of Logic Design 6 Edition

Fundamentals of Logic Design A Systematic Approach to Digital Logic Design
Fundamentals of Logic Design and Switching Theory Design of Logic Systems
Digital Principles and Logic Design Introduction to Logic Design, Second Edition
Digital Logic Design Logic Design and Computer Organization Foundations of Digital Logic Design
Logic Design Introduction to Logic Design DIGITAL LOGIC DESIGN Digital Logic Techniques
Problems and Solutions in Logic Design Digital Logic Design Principles Digital Logic Design Exam Essentials
Fundamentals of Logic Design Digital Logic Design Fundamentals of Logic Design Fundamentals of Digital Logic with VHDL Design
Charles H. Roth Frederic J. Mowle Arthur D. Friedman DAVID PROTHEROE DOUGLAS LEWIN Arijit Saha Sajjan G. Shiva Guy Even Atul P. Godse Gideon Langholz Jaden Mclean & Carmen Hurley Svetlana N. Yanushkevich Sonali Singh John Stonham D. Zissos Norman Balabanian Cybellium Roth Ming-Bo Lin Charles H. Roth Stephen D. Brown

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number systems base r arithmetic boolean algebra special boolean functions and basic logic conventions minimization procedures for boolean function binary arithmetic units decimal arithmetic introduction to sequential circuit design practical flip flop circuits binary counters register design techniques advanced arithmetic units

this text and reference provides students and practicing engineers with an

introduction to the classical methods of designing electrical circuits but incorporates modern logic design techniques used in the latest microprocessors microcontrollers microcomputers and various lsi components the book provides a review of the classical methods e g the basic concepts of boolean algebra combinational logic and sequential logic procedures before engaging in the practical design approach and the use of computer aided tools the book is enriched with numerous examples and their solutions over 500 illustrations and includes a cd rom with simulations additional figures and third party software to illustrate the concepts discussed in the book

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 requests must be made on official school stationery

this textbook based on the authors fifteen years of teaching is a complete teaching tool for turning students into logic designers in one semester each chapter describes new concepts giving extensive applications and examples assuming no prior knowledge of discrete mathematics the authors introduce all background in propositional logic asymptotics graphs hardware and electronics important features of the presentation are all material is presented in full detail every designed circuit is formally specified and implemented the correctness of the implementation is proved and the cost and delay are analyzed algorithmic solutions are offered for logical simulation computation of propagation delay and minimum clock period connections are drawn from the physical analog world to the digital abstraction the language of graphs is used to describe formulas and circuits hundreds of figures examples and exercises enhance understanding the extensive website eng.tau.ac.il/guyevenmedina includes teaching slides links to logisim and a dlx assembly simulator

this book presents the basic concepts used in designing and analyzing digital circuits and introduces digital computer organization and design principles the first part of the book teaches you the number systems logic gates logic families boolean algebra simplification of logic functions analysis and design of combinational circuits using ssi and msi circuits it also explains latches and flip flops types of counters synchronous and asynchronous counter design and applications and shift registers and its applications the second part of the book teaches you functional units of computer von neumann and harvard architectures processor organization control unit hardwired control unit and microprogrammed control unit processor instructions instruction cycle instruction formats instruction pipelining risc and cisc architectures interrupts interrupt handling multiprocessor systems multicore processors memory

and i o organizations

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

the book attempts to achieve a balance between theory and application for this reason the book does not over emphasize the mathematics of switching theory however it does present the theory which is necessary for understanding the fundamental concepts of logic design written in a student friendly style the book provides an in depth knowledge of logic design striking a balance between theory and practice it covers topics ranging from number systems binary codes logic gates and boolean algebra design of combinational logic circuits synchronous and asynchronous sequential circuits etc the main emphasis of this book is to highlight the theoretical concepts and systematic synthesis techniques that can be applied to the design of practical digital systems this comprehensive book is written for the graduate students of electronics and communication engineering electrical and electronics engineering instrumentation engineering telecommunication engineering computer science and engineering and information technology

with an abundance of insightful examples problems and computer experiments introduction to logic design provides a balanced easy 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

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

the third edition of digital logic techniques provides a clear and 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 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 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 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 examines the electrical properties of logic components compares the different logic families and highlights the problems that can arise in constructing practical hardware systems

market desc electrical engineers logic designers in computer industry special features provides extensive exercises for readers to work out while studying a topic presents up to date approaches in logic design in later chapters discusses the relationship between digital system design and computer architecture about the book this is an introductory level book on the principles of digital logic design while providing coverage to the usual topics in combinational and sequential circuit principles it also includes a chapter on the use of the hardware description language abel in the design of circuits using plds and a chapter on computer organization

designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world expert insights our books provide deep actionable insights that bridge the gap between theory and practical application up to date content stay current with the latest advancements trends and best practices in it al cybersecurity business economics and science each

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digital logic design is a comprehensive textbook which aims to provide entrylevelreaders a quick start to the field of digital logic design so as to facilitate themwith the capability suitable for the versatility of social change and interdisciplinarylearning this textbook can be used as a textbook for classroom use in the fields ofelectronics electrical computer science information engineering mechanical and soon the salient features of this textbook are as follows 1 introduce incrementally the principles of digital logic design and exemplify eachbasic theme and concept with abundant illustrations 2 detail design 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 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 and application experiments of digital logic to help readers verifythe consistence of digital logic between principles and practice 7 include an abundance of review questions in each section to help readers evaluatetheir understandings about the section 8 deal with verilog hdl concisely in relevant sections so as to make the readerunderstand how to describe a logic circuit in verilog hdl precisely digital logic design is an ideal textbook for the digital logic design course in thefields of electronics electrical computer science information engineering mechanical etc or serves as a valuable reference book for self study

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 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

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Introduction

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