Introduction To Logic Design Marcovitz 3rd Edition

Digital Principles and Logic DesignIntroduction to Logic DesignIntroduction to Logic DesignIntroduction to Logic DesignDigital Logic DesignIntroduction to Logic Circuits & Logic Design with VHDLA Systematic Approach to Digital Logic DesignDigital Logic DesignDigital Logic Design PrinciplesAn Illustrative Approach To Logic DesignIntroduction to Logic Circuits & Logic Design with VHDLFundamentals of Logic DesignIntroduction to Logic Circuits & Logic Design with VHDLIntroduction to Logic Circuits & Logic Design with VerilogIntroduction to Logic DesignAn Illustrative Approch To Logic DesignLogic DesignThe Essence of Logic CircuitsProblems and Solutions in Logic DesignLogic Design and Computer Organization Arijit Saha Sajjan G. Shiva Alan B. Marcovitz Sajjan G. Shiva B. Holdsworth Brock J. LaMeres Frederic J. Mowle Guy Even Norman Balabanian Samuel R. D. Sudhaker Brock J. LaMeres Charles H. Roth Brock J. LaMeres Brock J. LaMeres Svetlana N. Yanushkevich Dr. R D Sudhaker Samuel Mike Wharton Stephen H. Unger D. Zissos Atul P. Godse

Digital Principles and Logic Design Introduction to Logic Design Introduction to Logic Design Introduction to Logic Design Digital Logic Design Introduction to Logic Circuits & Logic Design with VHDL A Systematic Approach to Digital Logic Design Digital Logic Design Digital Logic Design Principles An Illustrative Approach To Logic Design Introduction to Logic Circuits & Logic Design with VHDL Fundamentals of Logic Design Introduction to Logic Circuits & Logic Design with VHDL Introduction to Logic Circuits & Logic Design with Verilog Introduction to Logic Design An Illustrative Approch To Logic Design Logic Design The Essence of Logic Circuits Problems and Solutions in Logic Design Logic Design and Computer Organization *Arijit Saha Sajjan G. Shiva Alan B. Marcovitz Sajjan G. Shiva B. Holdsworth Brock J. LaMeres Frederic J. Mowle Guy Even Norman Balabanian Samuel R. D. Sudhaker Brock J. LaMeres Charles H. Roth Brock J. LaMeres Brock J. LaMeres Svetlana N. Yanushkevich Dr. R D Sudhaker Samuel Mike Wharton Stephen H. Unger D. Zissos Atul P. Godse*

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

introduction to logic design is intended for a first course in logic design taken by computer science computer engineering and electrical engineering students most commonly in the sophomore year its special strengths are a clear presentation of fundamentals with an exceptional collection of examples solved problems and exercises the text integrates laboratory experiences both hardware and computer simulation while not making them mandatory for following the main flow of the chapters design is emphasized throughout the text switching algebra is developed as a tool for analyzing and implementing digital systems the book contains an excellent presentation of minimization of combinational circuits including multiple output ones using the karnaugh map and iterated consensus there are a number of examples of the design of larger systems both combinational and sequential

using medium scale integrated circuits and programmable logic devices introduction to logic design will provide students with the sort of grounding that will give them a solid foundation for further study whether it be in a computer science computer engineering or electrical engineering program

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

digital logic design second edition provides a basic understanding of digital logic design with emphasis on the two alternative methods of design available to the digital engineer this book describes the digital design techniques which have become increasingly important organized into 14 chapters this edition begins with an overview of the essential laws of boolean algebra k map plotting techniques as well as the simplification of boolean functions this text then presents the properties and develops the characteristic equations of a number of various types of flip flop other chapters consider the design of synchronous and asynchronous counters using either discrete flip flops or shift registers this book discusses as well the design and implementation of event driven logic circuits using the nand sequential equation the final chapter deals with simple coding techniques and the principles of error detection and correction this book is a valuable resource for undergraduate students digital engineers and scientists

this textbook introduces readers to the fundamental hardware used in modern computers the only pre requisite is algebra so it can be taken by college freshman or sophomore students or even used in advanced placement courses in high school this book presents both the classical approach to digital system design i e pen and paper in addition to the modern hardware description language hdl design approach computer based this textbook enables readers to design digital systems using the modern hdl approach while ensuring they have a solid foundation of knowledge of the underlying hardware and theory of their designs this book is designed to match the way the material is actually taught in the classroom topics are presented in a manner which builds foundational knowledge before moving onto advanced topics the author has designed the content with learning goals and assessment at its core each section addresses a specific learning outcome that the learner should be able to do after its completion the concept checks and exercise problems provide a rich set of assessment tools to measure learner performance on each outcome this book can be used for either a sequence of two courses consisting of an introduction to logic circuits chapters 1 7 followed by logic design chapters 8 13 or a single accelerated course that uses the early chapters as reference material written the way the material is taught enabling a bottom up approach to learning which culminates with a high level of learning with a solid foundation emphasizes examples from which students can learn contains a solved example for nearly every section in the book includes more than 600 exercise problems as well as concept check questions for each section tied directly to specific learning outcomes

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 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 guy even medina includes teaching slides links to logisim and a dlx assembly simulator

this book is an introduction on the principles of digital logic circuits 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

this textbook introduces readers to the fundamental hardware used in modern computers the only pre requisite is algebra so it can be taken by college freshman or sophomore students or even used in advanced placement courses in high school this book presents both the classical approach to digital system design i e pen and paper in addition to the modern hardware description language hdl design approach computer based this textbook enables readers to design digital systems using the modern hdl approach while ensuring they have a solid foundation of knowledge of the underlying hardware and theory of their designs this book is designed to match the way the material is actually taught in the classroom topics are presented in a manner which builds foundational knowledge before moving onto advanced topics the author has designed the content with learning goals and assessment at its core each section addresses a specific learning outcome that the learner should be able to do after its completion the concept checks and exercise problems provide a rich set of assessment tools to measure learner performance on each outcome this book can be used for either a sequence of two courses consisting of an introduction to logic circuits chapters 1 7 followed by logic design chapters 8 13 or a single accelerated course that uses the early chapters as reference material

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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

packed with nearly 400 illustrative examples and exercises this book begins with boolean algebra and combination logic circuits and goes on to explain the various methods of simplify cation of boolean expressions a brief deviation is taken to look at various logic families their structure and operation this is followed by a simple approach to the design of combination circuits with msi components and programmable logic devices with illustrations of adders comparators decoders encoders multipliers and various forms of plds a treatise on sequential circuits begins with explanations of all types of flip flops and their applications backed by delightful examples and exercises the book concludes with an interesting chapter on the analysis and design of synchronous sequential circuits while the book is a remarkable reference material for logic design engineers it provides a simplified and well illustrated approach to students who desire a systematic and vibrant approach to the study of logic design contents logic design using msi components and programmable logic devices simplify cation of boolean expression logic gates and families flip flops and their applications synchronous sequential circuits appendix

this is a clear introduction to logic circuit design as well as providing a first guide for the beginner the volume includes practical information and reference material for the more experienced electronics amateur or student

today designing a state of the art circuit means knowing how to pack more and more logic on a chip featuring an extensive introductory material this complete carefully organized guide brings you valuable information on designing modern logic circuits from gates switches and other basic elements to meet the rising demands on modern circuit technology the essence of logic circuits allows computer scientists and students to start from scratch and gain a comprehensive understanding of most important topics in the field

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

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