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the omnipresence of electronic devices in our everyday lives has been accompanied by the downscaling of chip feature sizes and the ever increasing complexity of digital circuits this book is devoted to the analysis and design of digital circuits where the signal can assume only two possible logic levels it deals with the basic principles and concepts of digital electronics it addresses all aspects of combinational logic and provides a detailed understanding of logic gates that are the basic components in the implementation of circuits used to perform functions and operations of boolean algebra combinational logic circuits are characterized by outputs that depend only on the actual input values efficient techniques to derive logic equations are proposed together with methods of analysis and synthesis of combinational logic circuits each chapter is well

structured and is supplemented by a selection of solved exercises covering logic design practices

an essential companion to john c morris s analogue electronics this clear and accessible text is designed for electronics students teachers and enthusiasts who already have a basic understanding of electronics and who wish to develop their knowledge of digital techniques and applications employing a discovery based approach the author covers fundamental theory before going on to develop an appreciation of logic networks integrated circuit applications and analogue digital conversion a section on digital fault finding and useful ic data sheets completes the book

the field of teaching digital electronics has not changed significantly in the past 20 years many of the same books that first became available in the late 1970s and early 1980s are still being used as basic texts in the 20 years since these were written the basic rules have not changed but they do not provide strong links to modern electronics including cmos logic programmable logic devices and microprocessor microcontroller interfacing courses teaching introductory digital electronics will fill in the missing areas of information for students but neither the instructors nor students have resources to explain modern technology and interfaces one assumption made by all the standard texts is that experimenting with digital electronics cannot be done easily in the proposed book digital guru myke predko will show how readers can set up their own apparatus for experimenting with digital electronics for less than 10

as electronic devices become increasingly prevalent in everyday life digital circuits are becoming even more complex and smaller in size this book presents the basic principles of digital electronics in an accessible manner allowing the reader to grasp the principles of combinational and sequential logic and the underlying techniques for the analysis and design of digital circuits providing a hands on approach this work introduces techniques and methods for establishing logic equations and designing and analyzing digital circuits each chapter is supplemented with practical examples and well designed exercises with worked solutions this second of three volumes focuses on sequential and arithmetic logic circuits it covers various aspects related to the following topics latch and flip flop binary counters shift registers arithmetic and logic circuits digital integrated circuit technology semiconductor memory programmable logic circuits along with the two accompanying volumes this book is an indispensable tool for students at a bachelors or masters level seeking to improve their understanding of digital electronics and is detailed enough to serve as a reference for electronic automation and computer engineers

publisher description in digital electronics demystified electronics expert and author myke predko provides a totally painless way to learn enough digital logic and electronics to build your own projects with digital electronics demystified you master the subject one simple step at a time at your own speed this unique guide offers problems at the end of each chapter and section to pinpoint weaknesses and a 100 question final exam to reinforce the entire book

this book presents the fundamentals of digital electronics in a focused and comprehensivemanner with many illustrations for understanding of the subject with high clarity digitalsignal processing dsp application information is provided for many topics of the subjectto appreciate the practical significance of learning to summarize this book lays afoundation for students to become dsp engineers

this text takes the student from the very basics of digital electronics to an introduction of state of the art techniques used in the field it is ideal for any engineering or science student who wishes to study the subject from its basic principles as well as serving as a guide to more advanced topics for readers already familiar with the subject the coverage is sufficiently in depth to allow the reader to progress smoothly onto higher level texts

this book introduces readers to both the fundamentals of digital logic and the advanced modern method of utilizing the fundamentals with pld technology an application first approach and over 80 pld alternative circuit applications for both altera and xilinx integrated and referenced throughout the book shows learners how to immediately begin using pld software and allow them to experiment the book emphasizes strong testing test equipment and troubleshooting to help prepare the technician student for the working world other key topics include number systems and codes standard logic versus programmable logic digital ic types troubleshooting logic gates logic circuit simplification decoders and encoders other combinational logic circuits set reset and data type flip flops jk flip flop and timer circuits registers counters semiconductor memories digital systems and an introduction to microprocessors for technicians specializing in digital electronics

while writing this treatise i have constantly kept in mind the requirments of all the students regarding the latest as well as changing trend of their examinations to make it really useful for the students latest examination questions of various indian universities as well as other examinations bodies have been included the book has been written in easy style with full details and illustrations

market desc undergraduate and graduate level students of different universities special features each chapter in the book whether it is related to operational fundamentals or applications is amply illustrated with diagrams and design examples each chapter concludes in a comprehensive self evaluation exercise comprising multiple choice questions with answers and other type of objective type questions with answers unlike most of the books in print on the subject that are either too brief lacking in illustrated examples and examination oriented study material or too voluminous containing lot of redundant material the book has been written keeping in mind the topics taught in the subject and covers in entirety what is required by undergraduate and graduate level students of engineering in electrical electronics instrumentation and control computer science and information technology disciplines about the book digital electronics is a precise and yet complete book covering both digital electronics fundamentals and integrated circuits this book provides

practical and comprehensive coverage of digital electronics bringing together information on fundamental theory operational aspects and potential applications each chapter in the book is amply illustrated with diagrams and design examples each chapter concludes in a comprehensive self evaluation exercise comprising multiple choice and objective type questions with answers the book has up to date coverage of recent application fields such as programmable logic devices microprocessors and microcontrollers this valuable reference book provides in depth information about multiplexers de multiplexers devices for arithmetic operations flip flops and related devices counters and registers and data conversion circuits

this book teaches the basic principles of digital circuits it is appropriate for an introductory course in digital electronics for the students of b sc computer science b sc electronics b sc information technology b sc physics bachelor of computer applications bca postgraduate diploma in computer applications master of computer applications mca the book emphasizes the must know concepts that should be covered in an introductory course and provides an abundance of clearly explained examples so essential for a thorough understanding of the principles involved in the analysis and design of digital computers the book takes students step by step through digital theory focusing on number representation systems and codes for representing information in digital systems use of logic gates in building digital circuits basic postulates and theorems of boolean algebra karnaugh map method for simplifying boolean functions arithmetic circuits such as adders and subtractors combinational circuit building blocks such as multiplexers decoders and encoders sequential circuit building blocks such as flip flops counters and registers operation of memory elements such as ram dram magnetic disk magnetic bubble optical disk etc 1 number systems and codes 2 logic gates and circuits 3 boolean algebra 4 combinational logic circuits 5 sequential logic circuits 6 counters and shift registers 7 memory elements

designed to provide a comprehensive and practical insight to the basic concepts of digital electronics this book brings together information on theory operational aspects and practical applications of digital circuits in a succinct style that is suitable for undergraduate students spread across 16 chapters the book walks the student through the first principles and the karnaugh mapping reduction technique before proceeding to elaborate on the design and implementation of complex digital circuits with ample examples and exercises to reinforce theory and an exclusive chapter allotted for electronic experiments this textbook is an ideal classroom companion for students

in the recent years there has been rapid advances in the field of digital electronics and microprocessor this book is intended to help students to keep pace with these latest developments the present book is revised version of earlier book introduction to digital computers by the same author now this book is written in a lucid and simple language which gives clear explanation of basics of digital electronics computers and icroprocessors

the fundamentals and implementation of digital electronics 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 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 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 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 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 for senior undergraduate and graduate students of electrical electronics and computer engineering and a valuable reference book for professionals and researchers

a highly accessible introduction to the workings of digital electronics the components at the heart of modern computer technology

logic concepts boolean algebra combinational logic binary number operations flip flops counter analysis and design sequential circuits digital circuit fault analysis analog digital conversion computers and microprocessors

industrial machinery computers microprocessors house hold appliances medical equipment the internet e banking e business e governance etc are all examples of the tremendous power and usefulness of digital techniques and systems the growing breadth of digital electronics potential uses has sparked a level of interest in the field that has never been seen before there has been a digital revolution brought about by the widespread use of digital technology the primary goal of digital electronics and microprocessors is to serve as a bridge between the extensive material of encyclopaedic reference works and the condensed needs of first year college students the needs of students were taken into account while this book was developed to ensure that it was both thorough and accessible the book is meant to be used as a reference for undergraduate and graduate students in engineering programmes microprocessor and digital electronics designers can find useful information in this book regarding digital logic design the goals of the book are twofold to teach the reader the fundamentals of digital logic design and to show how those rules are used in the construction of modern complicated microprocessor circuits although the fundamentals of digital logic design remain the same advancements in both the design process and circuit imple mentation have altered the field modern programmable logic devices

plds like field programmable gate arrays fpgas make it easy and fast to design and implement complex digital circuits thanks to the integration of cad tools for logic synthesis simulation and pld implementation

this book contains short definitions and descriptions followed by examination material for digital electronics the topics included are analog and digital signals number systems combinational logic circuits multiplexer demultiplexer encoder decoder binary arithmetic digital logic families different types of displays

discover the essential knowledge and practical skills to excel in the dynamic field of digital electronics with mastering digital electronics from the fundamentals of diode resistor logic to unraveling the intricacies of ttl and cmos logic gates this book takes you on a journey through the evolution of digital electronics starting with the humble sr latch and progressing to the revolutionary jk flip flop that powers today s computer technology you ll gain a solid foundation in binary arithmetic boolean algebra and the representation and optimization of digital circuits the book gives a firm understanding of digital electronics then moves on to using standard design methods such as state diagrams to design everyday logic circuits such as counters shift registers piso and sipo registers it delves into how to design some challenging digital circuits such as a crossroad set of traffic lights with a pelican crossing and how to use the 555 timer to control a variety of applications at every stage of the book you will be learning how to use tina version 12 an industry standard ecad and many of its functions moreover the book ventures into using the software to simulate and so confirm all the circuits you design for readers interested in advancing to the practical implementation of the circuits discussed the book provides opportunities to design pcb circuit boards for selected circuits using the software this book will suit any student of digital electronics at any level and provide them with essential reference material for them to start a career in digital electronics what you ll learn what logic gates are and the difference between sequential and combinational logic how to use binary numbers and how to perform all arithmetic operations learn about the five basic logic gates and nand or nor and exor gates how to minimize logic circuits using boolean algebra and karnaugh maps how to state diagrams to design logic circuits how to design a range of logic circuits learn about combinational circuits and the half and full adder as well as a logic circuit to subtract binary numbers learn about the 555 timer and how to apply it to a range of logic circuits who this book is for students who are studying for an engineering qualification hobbyist who wants to design digital circuits engineers who need a go to reference book on digital electronics

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