

Modern Digital Electronics

Digital Electronics: A Primer - Introductory Logic Circuit Design Digital Electronics Digital Electronics 1 Digital Electronics 2 Digital Electronics Demystified Digital Electronics with Engineering Applications Digital Electronics PRINCIPLES OF DIGITAL ELECTRONICS Introduction to Digital Electronics Basic Digital Electronics Introduction to Digital Electronics Digital Electronics Digital Electronics and System Digital Electronics Basic Digital Electronics Fundamental of Digital Electronics And Microprocessors Digital Electronics Principles and Applications of Digital Electronics Digital Electronic Circuits - The Comprehensive View Introduction to Digital Electronics Mark S Nixon John Morris Tertulien Ndjountche Tertulien Ndjountche Myke Predko Thomas P. Sifferlen Christopher E. Strangio MEENA, K. J. Crowe Ray Ryan Kenneth J. Reid John D. Kershaw Abhishek Bhatt John E. Uffenbeck Alvis J. Evans A.K.Chhabra Anil K. Maini Larry D. Jones Alexander Axelevitch Stanley M. Hajek

Digital Electronics: A Primer - Introductory Logic Circuit Design Digital Electronics Digital Electronics 1 Digital Electronics 2 Digital Electronics Demystified Digital Electronics with Engineering Applications Digital Electronics PRINCIPLES OF DIGITAL ELECTRONICS Introduction to Digital Electronics Basic Digital Electronics Introduction to Digital Electronics Digital Electronics Digital Electronics and System Digital Electronics Basic Digital Electronics Fundamental of Digital Electronics And Microprocessors Digital Electronics Principles

and Applications of Digital Electronics Digital Electronic Circuits - The Comprehensive View Introduction to Digital Electronics *Mark S Nixon John Morris Tertulien Ndjountche Tertulien Ndjountche Myke Predko Thomas P. Sifferlen Christopher E. Strangio MEENA, K. J. Crowe Ray Ryan Kenneth J. Reid John D. Kershaw Abhishek Bhatt John E. Uffenbeck Alvis J. Evans A.K.Chhabra Anil K. Maini Larry D. Jones Alexander Axelevitch Stanley M. Hajek*

this practical introduction explains exactly how digital circuits are designed from the basic circuit to the advanced system it covers combinational logic circuits which collect logic signals to sequential logic circuits which embody time and memory to progress through sequences of states the primer also highlights digital arithmetic and the integrated circuits that implement the logic functions based on the author s extensive experience in teaching digital electronics to undergraduates the book translates theory directly into practice and presents the essential information in a compact digestible style worked problems and examples are accompanied by abbreviated solutions with demonstrations to ensure that the design material and the circuits operation are fully understood this is essential reading for any electronic or electrical engineering student new to digital electronics and requiring a succinct yet comprehensive introduction

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 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

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

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

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

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

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

a guide to digital circuitry for students and hobbyists covering the latest memory chips and packages microprocessor basics alphanumeric codes demultiplexers and lcds it retains the best chapters from the first edition including examples of the application for digital circuitry

the perfect introduction to digital concepts applications and design digital design with cpld applications uses a logical organization of topics clear explanations and current examples to present key information in a way that is easy to grasp unique in its approach this book covers

combinational and sequential logic circuits using cplds while still covering circuit design at the gate level using ttl cmos devices the book begins by introducing combinational logic including detailed explanations for implementing circuits in altera quartus ii software and cplds the material continues to be presented at the gate level preparing readers to successfully navigate more complicated areas like functional circuits using formal problem solving concepts combinational design is then covered which includes a large combinational design that includes the building and simulation of each component marking a valuable departure from traditional books in the field which do not cover large scale design at a combinational level additional coverage includes sequential circuits with an emphasis on relevant and useful circuits and microprocessor and memory concepts

basic digital electronics will teach you the difference between analog and digital systems the functions required to design digital systems circuits used to make decisions code conversions and data selections are discussed

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 microprocessors

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

this book deals with key aspects of design of digital electronic circuits for different families of elementary electronic devices implementation of both simple and complex logic circuits are considered in detail with special attention paid to the design of digital systems based on complementary metal oxide semiconductor cmos and pass transistor logic ptl technologies acceptable for use in planar microelectronics technology it is written for students in electronics and microelectronics with exercises and solutions provided related link s

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