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Fundamentals of Digital ElectronicsDigital ElectronicsDigital ElectronicsDigital Electronics: A Primer - Introductory Logic Circuit DesignPrinciples of Digital ElectronicsDigital ElectronicsDigital Electronic Circuits - The Comprehensive ViewDigital Logic DesignBasic Electronics EngineeringPractical Digital Electronics for TechniciansDigital Logic And State Machine Design 3/EDigital Integrated Circuit DesignMicroelectronic CircuitsPower Electronics HandbookLinear ElectronicsPost-digital ElectronicsDigital Circuits and DesignA Practical Approach to Analog and Digital ElectronicsIntroductory Experiments in Digital Electronics and 8080A Microcomputer Programming and InterfacingElectronic Engineering Salina Muhamad G. K. Kharate Anil K. Maini Mark S Nixon Hilary D. Brewster Alexander Axelevitch Brian Holdsworth Syed Akhtar Imam Will Kimber David J. Comer Kenneth William Martin Adel S. Sedra Muhammad H. Rashid Marcelo Sampaio de Alencar Francis R. Pettit S. Salivahanan Peter R. Rony
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digital electronics is specially designed as a textbook for the undergraduate students of electronics communciation computer science electrical and instrumentation engineering for their introductory course on digital electronics or digital system and design

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 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

digital electronics is a concise introduction to the principles of modem digital electronics from basic logic elements to analog to digital converters this book provides practical and comprehensive coverage of digital electronics bringing together informati811 on fundamental theory operational aspects and potential applications 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 counte

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

new updated and expanded topics in the fourth edition include ebcdic grey code practical applications of flip flops 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 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

basic electronics engineering is written to cater to the needs of the undergraduate courses in the discipline of electronics communication engineering computer science engineering information technology electronics instrumentation engineering electrical electronics engineering and postgraduate students specializing in electronics it will also serve as reference material for engineers employed in industry the fundamental concepts and principles behind digital logic designs are explained in a simple easy to understand manner each chapter contains a large number of solved examples and problems this textbook is organized into thirteen chapters covering the syllabus requirements the last chapter gives the possible experiments of digital logic design that can be done by students of b e b tech level

practical digital electronics for technicians covers topics on analog and digital signals logic gates combinational logic and karnaugh mapping the book discusses the characteristics and types of logic families sequential systems including latch bistable circuits counters and shift registers schmitt triggers and multivibrators and msi combinational logic systems display devices including led lcd and dot matrix display analog and digital conversion and examples of and equipment for digital fault finding are also considered the book concludes by providing answers to the questions from each chapter electronics technicians and students engaged in electronics courses will find the book useful

the impact of digital integrated circuits on our modern society has been pervasive they are the enabling technology of the current computer and information technology revolution this is largely true because of the immense amount of signal and computer processing that can be realized in a single integrated circuit modern ic s may contain millions of logic gates this text book is intended to take a reader having only a minimal background and knowledge in electronics to the point where they can design state of the art digital integrated circuits designing high performance digital integrated circuits requires expertise in many different areas these include semiconductor physics integrated circuit processing transistor level design logic level design system level design testing etc aspects of these topics are covered throughout this text although the emphasis is on transistor level design of digital integrated circuits and systems this is in contrast to the perspective in many other texts which takes a system level or vlsi approach where transistor level details are minimized it is the author s belief that before system level considerations can be properly evaluated an in depth tranisistor level understanding must first be obtained important system level considerations such as timing pipe lining clock distribution and system building blocks are covered in detail but the emphasis on transistors first throughout the book physical and intuitive explanations are given and although mathematical quantitative analysis of many circuits have necessarily been presented martin has attempted not to miss seeing the forest because of the trees this book presents the critical underlying concepts without becoming entangled in tedious and over complicated circuit analyses it is intended for senior graduate level students in electrical and computer engineering this course assumes the sedra smith microelectronic

circuits course as a prerequisite

microelectronic circuits by sedra and smith has served generations of electrical and computer engineering students as the best and most widely used text for this required course respected equally as a textbook and reference sedra smith combines a thorough presentation of fundamentals with an introduction to present day ic technology it remains the best text for helping students progress from circuit analysis to circuit design developing design skills and insights that are essential to successful practice in the field significantly revised with the input of two new coauthors slimmed down and updated with the latest innovations microelectronic circuits eighth edition remains the gold standard in providing the most comprehensive flexible accurate and design oriented treatment of electronic circuits available today

power electronics handbook fifth edition delivers an expert guide to power electronics and their applications the book examines the foundations of power electronics power semiconductor devices and power converters before reviewing a constellation of modern applications comprehensively updated throughout this new edition features new sections addressing current practices for renewable energy storage transmission integration and operation as well as smart grid security intelligent energy artificial intelligence and machine learning applications applied to power electronics and autonomous and electric vehicles this handbook is aimed at practitioners and researchers undertaking projects requiring specialist design analysis installation commissioning and maintenance services provides a fully comprehensive work addressing each aspect of power electronics in painstaking depth delivers a methodical technical presentation in over 1500 pages includes 50 contributions prepared by leading experts offers practical support and guidance with detailed examples and applications for lab and field experimentation includes new technical sections on smart grid security and intelligent energy artificial intelligence and machine learning applications applied to power electronics and autonomous and electric vehicles features new chapter level templates and a narrative progression to facilitate understanding

a considerable amount of effort has been devoted both in industry and academia towards the design performance analysis and evaluation of amplification schemes and filters to be used in control systems audio video equipment instrumentation and communication systems this book is intended to serve as a complementary textbook for courses dealing with linear amplification but also as a professional book for engineers who need to update their knowledge in the electronics control and communications areas the book is suitable for the undergraduate as well as the initial graduate levels of electrical engineering courses and is useful for the professional who wants to review or get acquainted with amplification theory the book presents essential concepts in plain language and covers the most important applications of amplifier circuits the book has four appendices an appendix to detail the operational amplifier model an appendix with specification data sheets an appendix on fourier transform and signal spectrum including the concepts of convolution autocorrelation and power spectral density for deterministic signals and a final one that presents and explains the usual electronics acronyms

digital circuits and design is a textbook dealing with the basics of digital technology including the design aspects of circuits the book fulfils the requirements of the students of electrical electronics and computer science engineering for the first course on the subject the book is divided into 16 chapters each chapter begin with an introduction and ends with a set of review questions and problems all the topics have been illustrated with clear diagrams a variety of examples are given to enable students to design digital circuits efficiently the fifth editionof the book provides discussion of verilog a popular hardware description language to demonstrate solutions to problems in digital design the current edition also provides additional example problems

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