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## *Principles And Applications Of Digital Radio*

Principles of Digital Transmission is designed for advanced undergraduate and graduate level students and professions in telecommunications. Teachers and learners can mix and match chapters to create four distinct courses: (1) a one-term basic course in digital communications; (2) a one-term course in advanced digital communications; (3) a one-term course in

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information theory and coding; (4) a two-term course sequence in digital communications and coding. The book provides rigorous mathematical tools for the analysis and design of digital transmission systems. The authors emphasize methodology in their aim to teach the reader how to do it rather than how it is done. They apply the fundamental tools of the discipline onto a number of systems, such as wireless data transmission systems.

This textbook is the third of three

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volumes which provide a modern, algorithmic introduction to digital image processing, designed to be used both by learners desiring a firm foundation on which to build, and practitioners in search of critical analysis and concrete implementations of the most important techniques. This volume builds upon the introductory material presented in the first two volumes with additional key concepts and methods in image processing. Features: practical examples and carefully constructed chapter-ending exercises; real

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implementations, concise mathematical notation, and precise algorithmic descriptions designed for programmers and practitioners; easily adaptable Java code and completely worked-out examples for easy inclusion in existing applications; uses ImageJ; provides a supplementary website with the complete Java source code, test images, and corrections; additional presentation tools for instructors including a complete set of figures, tables, and mathematical elements.

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"Digital Sonar Design in Underwater Acoustics Principles and Applications" provides comprehensive and up-to-date coverage of research on sonar design, including the basic theory and techniques of digital signal processing, basic concept of information theory, ocean acoustics, underwater acoustic signal propagation theory, and underwater signal processing theory. This book discusses the general design procedure and approaches to implementation, the design method, system simulation theory and techniques, sonar

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tests in the laboratory, lake and sea, and practical validation criteria and methods for digital sonar design. It is intended for researchers in the fields of underwater signal processing and sonar design, and also for navy officers and ocean explorers. Qihu Li is a professor at the Institute of Acoustics, Chinese Academy of Sciences, and an academician of the Chinese Academy of Sciences. Tocci and Widmer use a block diagram approach to basic logic operations, enabling readers to have a firm

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understanding of logic principles before they study the electrical characteristics of the logic ICs. KEY TOPICS For each new device or circuit, the authors describe the principle of the operation, give thorough examples, and then show its actual application. An excellent reference on modern digital systems.

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.

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(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



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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,

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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

Devices overview. Discrete signal and systems. Z transforms. The discrete Fourier transform. FIR and IIR filter design methods. Kalman filters.

Implementation of digital control algorithms. Review of architectures. Microcontrollers. Systolic arrays. Case

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studies.

Experiments Manual To Accompany Digital Electronics: Principles and Applications

Modern Communication Principles

Visual Usability

Digital Filters

Digital Electronics: Principles and Applications, Experiments Manual

Digital Systems: Principles and Applications, 10/e

Digital Sonar Design in Underwater Acoustics

Digital Design

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## Student study guide

### Principles & Applications

*Digital Principles and Applications McGraw-Hill Science, Engineering & Mathematics*  
*In today's digital design environment, engineers must achieve quick turn-around time with ready accesses to circuit synthesis and simulation applications. This type of productivity relies on the principles and practices of computer aided design (CAD). Digital Design: Basic Concepts and Principles addresses the many challenging issues critical to today's digital design practices such as hazards and logic minimization,*

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*finite-state-machine synthesis, cycles and races, and testability theories while providing hands-on experience using one of the industry's most popular design application, Xilinx Web PACKTM. The authors begin by discussing conventional and unconventional number systems, binary coding theories, and arithmetic as well as logic functions and Boolean algebra. Building upon classic theories of digital systems, the book illustrates the importance of logic minimization using the Karnaugh map technique. It continues by discussing implementation options and examining the pros*

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*and cons of each method in addition to an assessment of tradeoffs that often accompany design practices. The book also covers testability, emphasizing that a good digital design must be easy to verify and test with the lowest cost possible. Throughout the text, the authors analyze combinational and sequential logic elements and illustrate the designs of these components in structural, hierarchical, and behavior VHDL descriptions. Covering fundamentals and best practices, Digital Design: Basic Concepts and Principles provides you with critical knowledge of how each digital component ties together to form*

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*a system and develops the skills you need to design and simulate these digital components using modern CAD software.*

*A comprehensive and mathematically accessible introduction to digital signal processing, covering theory, advanced topics, and applications.*

*The book is not an exposition on digital signal processing (DSP) but rather a treatise on digital filters. The material and coverage is comprehensive, presented in a consistent that first develops topics and subtopics in terms of their purpose, relationship to other core ideas, theoretical and conceptual*

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*framework, and finally instruction in the implementation of digital filter devices. Each major study is supported by Matlab-enabled activities and examples, with each Chapter culminating in a comprehensive design case study.*

*Learn about state-of-the-art digital image processing without the complicated math and programming... You don't have to be a preeminent computer scientist or engineer to get the most out of today's digital image processing technology. Whether you're working in medical imaging, machine vision, graphic arts, or just a hobbyist working at home,*



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*this book will get you up and running in no time, with all the technical know-how you need to perform sophisticated image processing operations. Designed for end users, as well as an introduction for system designers, developers, and technical managers, this book doesn't bog you down in complex mathematical formulas or lines of programming code. Instead, in clear down-to-earth language supplemented with numerous example images and the ready-to-run digital image processing program on the enclosed disk, it schools you, step-by-step, in essential digital image processing concepts,*

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*principles, techniques, and technologies. Disk contains sample image files and a ready-to-run digital image processing program that lets you do as you learn detailed step-by-step guides to the most commonly used operations, including references to real-world applications and implementations hundreds of before and after images that help illustrate all the operations described comprehensive coverage of current hardware and the best methods for acquiring, displaying, and processing digital images To date, no unifying theory has been developed which encompasses nonlinear filters*

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*in the same theoretical framework. This book takes strides in that direction by organizing nonlinear filter classes in a concise way and stretching their common properties.*

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Portland, OR*

[Digital Logic Design](#)

[Principles of Digital Image Processing](#)

[Principles and Applications of Digital Electronics](#)

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[Tutorial CD-ROM 2003](#)

[Digital Holographic Microscopy](#)

[Physics of Electronic Materials](#)

[Digital Systems - Principles and Applications, Sixth Edition, Ronald Tocci, Neal Widmer](#)

[Basic Concepts and Principles](#)

***Tocci and Widmer use a block diagram approach to basic logic operations, enabling readers to have a firm understanding of logic principles before they study the electrical characteristics of the logic ICs. KEY TOPICS For each new device or circuit, the authors describe the principle of the operation, give thorough***

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***examples, and then show its actual application. An excellent reference on modern digital systems.***

***Now the standardisation work of DAB (Digital Audio Broadcasting) system is finished many broadcast organisations, network providers and receiver manufacturers in European countries and outside of Europe (for example Canada and the Far East) will be installing DAB broadcast services as pilot projects or public services. In addition some value added services (data and video services) are under development or have already started as pilot projects. The new digital broadcast system DAB distinguishes***

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***itself from existing conventional broadcast systems, and the various new international standards and related documents (from ITU-R, ISO/IEC, ETSI, EBU, EUREKA147, and others) are not readily available and are difficult to read for users. Therefore it is essential that a well structured technical handbook should be available. The Second Edition of Digital Audio Broadcasting has been fully updated with new sections and chapters added to reflect all the latest developments and advances. Digital Audio Broadcasting: Provides a fully updated comprehensive overview of DAB Covers international standards, applications and other***

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***technical issues Combines the expertise of leading researchers in the field of DAB Now covers such new areas as: IP-Tunneling via DAB; Electronic Programme Guide for DAB; and Metadata A comprehensive overview of DAB specifically written for planning and system engineers, developers for professional and domestic equipment manufacturers, service providers, as well as postgraduate students and lecturers in communications technology. 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.***

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***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 Digital Audio Broadcasting revised with the latest standards and updates of all new developments The new digital broadcast system family is very different from existing conventional broadcast systems. It is standardised in a large number of documents***



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***(from ITU-R, ISO/IEC, ETSI, EBU, and others) which are often difficult to read. This book offers a comprehensive and fully updated overview of Digital Audio Broadcasting (DAB, DAB+) and Digital Multimedia Broadcasting (DMB), and related services and applications. Furthermore, the authors continue to build upon the topics of the previous editions, including audio coding, data services, receiver techniques, frequencies, and many others. There are several new sections in the book, which would be otherwise difficult to locate from various sources. Key Features: The contents have been significantly updated from***

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***the second edition, including up-to-date coverage of the latest standards Contains a new chapter on Digital Multimedia Broadcasting “Must-have” handbook for engineers, developers and other professionals in the field This book will be of interest to planning and system engineers, developers for professional and domestic equipment manufacturers, service providers, postgraduate students and lecturers in communications technology. Broadcasting engineers in related fields will also find this book insightful. Imagine how much easier creating web and mobile applications would be if you had a***

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***practical and concise, hands-on guide to visual design. Visual Usability gets into the nitty-gritty of applying visual design principles to complex application design. You'll learn how to avoid common mistakes, make informed decisions about application design, and elevate the ordinary. We'll review three key principles that affect application design - consistency, hierarchy, and personality - and illustrate how to apply tools like typography, color, and layout to digital application design. Whether you're a UI professional looking to fine-tune your skills, a developer who cares about making applications beautiful and usable, or someone***

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***entirely new to the design arena, Visual Usability is your one-stop, practical guide to visual design. Discover the principles and rules that underlie successful application design Learn how to develop a rationale to support design strategy and move teams forward Master the visual design toolkit to increase user-friendliness and make complicated processes feel straightforward for your product Learn FileMaker® Pro 10 provides an excellent reference to FileMaker Inc.'s award-winning database program for both beginners and advanced developers. From converting files created with previous versions of FileMaker Pro***

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***and sharing data on the web to creating reports and sorting data, this book offers a hands-on approach to getting the most out of your FileMaker Pro databases. Learn how to use the completely redesigned Status area, now known as the Status toolbar; send e-mail right from FileMaker with the SMTP-based Send Mail option; build reports quickly and easily with the Saved Finds feature; automate your database with scripts and activate those scripts with the new script trigger feature; integrate your Bento data into your FileMaker files; work with the enhanced Web viewer.***

**[Basic Electronics](#)**

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**Digital Audio Broadcasting**

**With Wireless Applications**

**Principles of Digital Transmission**

**Digital Signal Processing**

**Principles, Methods and Applications**

**Advanced Methods**

**Principles and Applications with MATLAB**

**Digital Holography and Three-Dimensional Display**

**Nonlinear Digital Filters**

*Digital holography is an emerging field of new paradigm in general imaging applications. The book presents an introduction to the theoretical and numerical principles*

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*and reviews the research and development activities in digital holography, with emphasis on the microscopy techniques and applications. Topics covered include the general theory of diffraction and holography formations, and practical instrumentation and experimentation of digital holography. Various numerical techniques are described that give rise to the unique and versatile capabilities of digital holography. Representative special techniques and applications of digital holography are discussed. The book is intended for researchers interested in developing new techniques and exploring new applications of digital holography. Aimed at the student who wishes to learn principles of*

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*digital circuits, and then apply them to designs. This text includes: pin-outs for more than 60 digital IC chips; the use of standard logic symbols along with IEEE standard logic; and a review of IEEE symbols in the appendix. Emphasis is given to two digital integrated circuit families - Transistor Transistor Logic (TTL) and Complementary Metal Oxide Silicon (CMOS) logic.*

*The eighth edition of Digital Electronics: Principles and Applications provides a concise, modern approach to this fascinating subject. It has been written so that a so that a student needs no prior knowledge of electrical theory and principles and at a level that allows students with limited math and reading skills can gain a clear*



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*understanding of concepts and application covered in a digital electronics course. The textbook has been noted for its easy-to-read style and colorful illustrations. It is ideal for a wide range of electronics courses, especially programs in which students must learn the essentials and quickly apply them to real job situations.*

*How are our societies being transformed by internet and digital economics? This book provides an accessible introduction to the economics of the internet and a comprehensive account of the mechanisms of the digital economy. Leading scholars examine the original economic and business models being developed as a result of the internet system, and explore their impact on*

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*our economies and societies. Key issues are analysed, including the development of open source software and on-line communities, peer-to-peer and online sharing of cultural goods, electronic markets and the rise of new information intermediaries, e-retailing and e-banking. The volume examines how internet and digital economics have transformed the organization of firms, industries, markets, commerce, modes of distribution, money, finance, and innovation processes, and provides the analytical tools to understand both these recent transformations and the likely future directions of the 'New Economy'.  
Electronic Noise and Interfering Signals is a*

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*comprehensive reference book on noise and interference in electronic circuits, with particular focus on low-noise design. The first part of the book deals with mechanisms, modelling, and computation of intrinsic noise which is generated in every electronic device. The second part analyzes the coupling mechanisms which can lead to a contamination of circuits by parasitic signals and provides appropriate solutions to this problem. The last part contains more than 100 practical, elaborate case studies. The book requires no advanced mathematical training as it introduces the fundamental methods. Moreover, it provides insight into computational noise analysis with SPICE and NOF, a software developed by*

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*the author. The book addresses designers of electronic circuits as well as researchers from electrical engineering, physics, and material science. It should also be of interest for undergraduate and graduate students. Digital holography and its application to 3-D display is one of the formidable problems of evolving areas of high technology to receive great attention in recent years. This book offers a collection of key chapters that covers digital holography and 3-D display techniques to provide the state-of-the-art developments in these important areas. The book contains research material as well as reviews, new ideas and fresh insights.*

[Principles of Digital Electronics](#)

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[Digital Electronics: Principles and Applications](#)

[Principles and Applications of DAB, DAB + and DMB](#)

[Electronic Noise and Interfering Signals](#)

[Digital Electronics](#)

[Principles, Devices and Applications](#)

[With Application to Digital Signaling](#)

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With the presence of enhanced pedagogical features, the text will help readers in understanding fundamental concepts of electronics engineering. The fundamentals and implementation of digital

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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,

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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

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digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

Adopting a uniquely pedagogical approach, this comprehensive textbook on the quantum mechanics of semiconductor materials and devices focuses on the materials, components and devices themselves whilst incorporating a substantial amount of fundamental physics related to condensed matter theory and quantum mechanics. Written primarily for advanced undergraduate students in physics and engineering, this book can also be used as a supporting text for



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introductory quantum mechanics courses, and will be of interest to anyone interested in how electronic devices function at a fundamental level. Complete with numerous exercises, and with all the necessary mathematics and physics included in appendices, this book guides the reader seamlessly through the principles of quantum mechanics and the quantum theory of metals and semiconductors, before describing in detail how devices are exploited within electric circuits and in the hardware of computers, for example as amplifiers, switches and transistors.

[Krishna's Digital Signal Processing: \(Principles and Applications\)](#)

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