

An Introduction To Analog And Digital Communications By Simon Haykin Solution Manual

Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

Offers the most complete, up-to-date coverage available on the principles of digital communications. Focuses on basic issues, relating theory to practice wherever possible. Numerous examples, worked out in detail, have been included to help the reader develop an

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intuitive grasp of the theory. Topics covered include the sampling process, digital modulation techniques, error-control coding, robust quantization for pulse-code modulation, coding speech at low bit radio, information theoretic concepts, coding and computer communication. Because the book covers a broad range of topics in digital communications, it should satisfy a variety of backgrounds and interests, and offers a great deal of flexibility for teaching the course. The author has included suggested course outlines for courses at the undergraduate or graduate levels.

Teaches analog and digital circuit theory by building working circuits. For college students and self-study.

This book offers students and those new to the topic of analog-to-digital converters (ADCs) a broad introduction, before going into details of the state-of-the-art design techniques for SAR and DS converters, including the latest research topics, which are valuable for IC design engineers as well as users of ADCs in applications. The book then addresses important topics, such as correct connectivity of ADCs in an application, the verification, characterization and testing of ADCs that ensure high-quality end products. Analog-to-digital converters are the central element in any data processing system and regulation loops such as modems or electrical motor drives. They significantly affect the performance and resolution of a system or end product. System development engineers need to be familiar with the performance parameters of the converters and understand the advantages and disadvantages of the various architectures. Integrated circuit development engineers have to overcome the problem of achieving high performance and resolution with the lowest possible power dissipation, while the digital circuitry generates distortion in supply, ground and substrate. This book explains the

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connections and gives suggestions for obtaining the highest possible resolution. Novel trends are illustrated in the design of analog-to-digital converters based on successive approximation and the difficulties in the development of continuous-time delta-sigma modulators are also discussed.

This book primarily focuses on the design of analog and digital communication systems; and has been structured to cater to the second year engineering undergraduate students of Computer Science, Information Technology, Electrical Engineering and Electronics and Communication departments. For better understanding, the basics of analog communication systems are outlined before the digital communication systems section. The content of this book is also suitable for the students with little knowledge in communication systems. The book is divided into five modules for efficient presentation, and it provides numerous examples and illustrations for the detailed understanding of the subject, in a thorough manner. Technical topics discussed in the book include: Analog modulation techniques-AM, FM and PM Digital modulation techniques-ASK, PSK, FSK, QPSK, MSK and M-ary modulation Pulse modulation techniques and Data communication Source coding techniques-Shannon Fano and Huffman coding; channel coding techniques-Linear block codes and convolutional codes Advanced communication techniques topics includes-Cellular communication, Satellite communication and multiple access schemes.

An introduction to the design of analog VLSI circuits. Neuromorphic engineers work to improve the performance of artificial systems through the development of chips and systems that process information collectively using primarily analog circuits. This book presents the central concepts required for the creative and successful design of analog VLSI circuits. The

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discussion is weighted toward novel circuits that emulate natural signal processing. Unlike most circuits in commercial or industrial applications, these circuits operate mainly in the subthreshold or weak inversion region. Moreover, their functionality is not limited to linear operations, but also encompasses many interesting nonlinear operations similar to those occurring in natural systems. Topics include device physics, linear and nonlinear circuit forms, translinear circuits, photodetectors, floating-gate devices, noise analysis, and process technology.

Intuitive Analog Circuit Design outlines ways of thinking about analog circuits and systems that let you develop a feel for what a good, working analog circuit design should be. This book reflects author Marc Thompson's 30 years of experience designing analog and power electronics circuits and teaching graduate-level analog circuit design, and is the ideal reference for anyone who needs a straightforward introduction to the subject. In this book, Dr. Thompson describes intuitive and "back-of-the-envelope" techniques for designing and analyzing analog circuits, including transistor amplifiers (CMOS, JFET, and bipolar), transistor switching, noise in analog circuits, thermal circuit design, magnetic circuit design, and control systems. The application of some simple rules of thumb and design techniques is the first step in developing an intuitive understanding of the behavior of complex electrical systems. Introducing analog circuit design with a minimum of mathematics, this book uses numerous real-world examples to help you make the transition to analog design. The second edition is an ideal introductory text for anyone new to the area of analog circuit design. Design examples are used throughout the text, along with end-of-chapter examples Covers real-world parasitic elements in circuit design and their effects

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In this book, the technical explanation of the nature of analog sound creation is followed by the story of its birth and its subsequent development by various designers, manufacturers and performers. The individual components of analog sound creation are then examined in detail, with step by step examples of sound creation techniques. Then the modern imitative analog instruments are examined, again with detailed instructions for programming and using them, and the book is completed with appendices listing the major instrument lines available, hints on values and purchasing, other sources of information, and a discography of readily available recordings which give good examples of analog sound synthesis. The CD which accompanies the book gives many examples of analog sound creation basics as well as more advanced techniques, and of the abilities of the individual instruments associated with classical and with imitative analog sound synthesis.

This textbook is designed for graduate-level courses, and for self-study, in analog and sampled-data, including switched-capacitor, circuit theory and design for ongoing, or active electrical engineers, needing to become proficient in analog circuit design on a system, rather than on a device, level. After decades of experience in industry and teaching this material in academic settings, the author has extracted many of the most important and useful features of analog circuit theory and design and presented them in a manner that is easy to digest and utilize. The methodology and analysis techniques presented can be applied to areas well beyond those specifically addressed in this book. This book is meant to enable readers to gain a 'general knowledge' of one aspect of analog engineering (e.g., that of network theory, filter design, system theory and sampled-data signal processing). The presentation is self-contained and should be accessible to anyone with a first degree in electrical engineering.

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Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

Improve your circuit-design potential with this expert guide to the devices and technology used in mixed analog-digital VLSI chips for such high-volume applications as hard-disk drives, wireless telephones, and consumer electronics. The book provides you with a critical understanding of device models, fabrication technology, and layout as they apply to mixed analog-digital circuits. You will learn about the many device-modeling requirements for analog work, as well as the pitfalls in models used today for computer simulators such as Spice. Also included is information on fabrication technologies developed specifically for mixed-signal VLSI chips, plus guidance on the layout of mixed analog-digital chips for a high degree of analog-

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device matching and minimum digital-to-analog interference. This reference book features an intuitive introduction to MOSFET operation that will enable you to view with insight any MOSFET model ? besides thorough discussions on valuable large-signal and small-signal models. Filled with practical information, this first-of-its-kind book will help you grasp the nuances of mixed-signal VLSI-device models and layout that are crucial to the design of high-performance chips.

Analog and Hybrid Computing focuses on the operations of analog and hybrid computers. The book first outlines the history of computing devices that influenced the creation of analog and digital computers. The types of problems to be solved on computers, computing systems, and digital computers are discussed. The text looks at the theory and operation of electronic analog computers, including linear and non-linear computing units and use of analog computers as operational amplifiers. The monograph examines the preparation of problems to be deciphered on computers. Flow diagrams, methods of amplitude scaling, estimation of values and frequencies, and scaling of higher order equations are described. The text also looks at the organization of computers and checking of problem set-ups, including interconnection of units, control of problems, and setting of potentiometers. The book also discusses solutions of variable coefficient and nonlinear differential equations; simulation of linear transfer functions; and iterative operation of analog computers. The text offers information on hybrid computing, including hybrid computing systems, applications of hybrid computers, and a generation of hybrid computers. The book is a vital reference for readers interested in studying the operations of hybrid and analog computers.

This comprehensive text discusses the fundamentals of analog electronics applications,

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design, and analysis. Unlike the physics approach in other analog electronics books, this text focuses on an engineering approach, from the main components of an analog circuit to general analog networks. Concentrating on development of standard formulae for conventional analog systems, the book is filled with practical examples and detailed explanations of procedures to analyze analog circuits. The book covers amplifiers, filters, and op-amps as well as general applications of analog design.

For second and third year introductory communication systems courses for undergraduates, or an introductory graduate course. This revision of Couch's authoritative text provides the latest treatment of digital communication systems. The author balances coverage of both digital and analog communication systems, with an emphasis on design. Students will gain a working knowledge of both classical mathematical and personal computer methods to analyze, design, and simulate modern communication systems. MATLAB is integrated throughout.

This is a book about real-world design techniques for analog circuits: amplifiers, filters, injection-locked oscillators, phase-locked loops, transimpedance amplifiers, group delay correction circuits, notch filters, and spectrum regrowth in digital radio frequency (RF) transmitters, etc. The book offers practical solutions to analog and RF problems, helping the reader to achieve high-performance circuit and system design. A variety of issues are covered, such as: How to flatten group delay of filters How to use reciprocity to advantage How to neutralize a parasitic capacitance How to deepen a notch by

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adding only two components to the network How to demodulate a signal using the secant waveform and its benefit How to flatten the frequency response of a diode detector When to use a transimpedance amplifier and how to maximize its performance How to recover non-return-to-zero (NRZ) data when alternating current (AC) coupling is required Why phase noise corrupts adjacent communication channels Simple method to prevent false locking in phase-locked loops How to improve the bandwidth of amplification by using current conveyors A very simple impedance matching technique requiring only one reactive component How to use optimization Quadrature distortion and cross-rail interference This book is meant to be a handbook (or a supplemental textbook) for students and practitioners in the design of analog and RF circuitry with primary emphasis on practical albeit sometimes unorthodox circuit realizations. Equations and behavioral simulations result in an abundance of illustrations, following a "words and pictures" easy-to-understand approach. Teachers will find the book an important supplement to a standard analog and RF course, or it may stand alone as a textbook. Working engineers may find it useful as a handbook by bookmarking some of the step-by-step procedures, e.g., the section on simplified impedance matching or group delay flattening.

In the real world, most signals are analog, spanning continuously varying values. Circuits that interface with the physical environment need to be able to process these signals. Principles of Analog Electronics introduces the fascinating world of analog

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electronics, where fields, circuits, signals and systems, and semiconductors meet. Drawing on the author's teaching experience, this richly illustrated, full-color textbook expertly blends theory with practical examples to give a clear understanding of how real electronic circuits work. Build from the Essentials of Math, Physics, and Chemistry to Electronic Components, Circuits, and Applications Building a solid foundation, the book first explains the mathematics, physics, and chemistry that are essential for grasping the principles behind the operation of electronic devices. It then examines the theory of circuits through models and important theorems. The book describes and analyzes passive and active electronic devices, focusing on fundamental filters and common silicon-based components, including diodes, bipolar junction transistors, and metal–oxide–semiconductor field-effect transistors (MOSFETs). It also shows how semiconductor devices are used to design electronic circuits such as rectifiers, power suppliers, clamper and clipper circuits, and amplifiers. A chapter explores actual applications, from audio amplifiers and FM radios to battery chargers. Delve Deeper into Analog Electronics through Curiosities, Key Personalities, and Practical Examples Each chapter includes helpful summaries with key points, jargon, and terms, as well as exercises to test your knowledge. Practical tables illustrate the coding schemes to help identify commercial passive and active components. Throughout, sidebars highlight "curiosities," interesting observations, and examples that make the subject more concrete. This textbook offers a truly comprehensive introduction to the fundamentals of

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analog electronics, including essential background concepts. Taking a fresh approach, it connects electronics to its importance in daily life, from music to medicine and more. "Real Analog" is a comprehensive collection of free educational materials that seamlessly blend hands-on design projects with theoretical concepts and circuit analysis techniques. Real Analog has the equivalent content of a university level introductory circuits course. Developed for university circuits classes by practicing engineers and experienced educators, Real Analog is centered on a newly-updated 12-chapter textbook and features: Exercises designed to reinforce textbook and lecture topics Homework assignments for every chapter Multiple design projects that reinforce and extend theoretical concepts Worksheets to help students complete design projects outside of the lab This book contains the textbook material for the Real Analog Course. The Lab Manual will be published separately and is currently coming soon to Amazon. For now, it can be downloaded from Digilent.com/real-analog. The Table of Contents can be seen below: Chapter 1: Circuit Analysis Fundamentals 1.1 Basic Circuit Parameters and Sign Conventions 1.2 Power Sources 1.3 Resistors and Ohm's Law 1.4 Kirchhoff's Laws Chapter 2: Circuit Reduction 2.1 Series Circuit Elements and Voltage Division 2.2 Parallel Circuit Elements and Current Division 2.3 Circuit Reduction and Analysis 2.4 Non-ideal Power Supplies 2.5 Practical Voltage and Current Measurement Chapter 3: Nodal and Mesh Analysis 3.1 Introduction and Terminology 3.2 Nodal Analysis 3.3 Mesh Analysis Chapter 4: Systems and Network

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Theorems 4.1 Signals and Systems 4.2 Linear Systems 4.3 Superposition 4.4 Two-terminal Networks 4.5 Thévenin's and Norton's Theorems 4.6 Maximum Power Transfer Chapter 5: Operational Amplifiers 5.1 Ideal Operational Amplifier Model 5.2 Operational Amplifier Model Background 5.3 Commercially Available Operational Amplifiers 5.4 Analysis of Op-amp Circuits 5.5 Comparators 5.6 A Few Non-ideal Effects Chapter 6: Energy Storage Elements 6.1 Fundamental Concepts 6.2 Basic Time-varying Signals 6.3 Capacitors 6.4 Inductors 6.5 Practical Inductors Chapter 7: First Order Circuits 7.1 Introduction to First Order Systems 7.2 Natural Response of RC Circuits 7.3 Natural Response of RL Circuits 7.4 Forced Response of First Order Circuits 7.5 Step Response of First Order Circuits Chapter 8: Second Order Circuits 8.1 Introduction to Second Order Systems 8.2 Second Order System Natural Response, Part 1 8.3 Sinusoidal Signals and Complex Exponentials 8.4 Second Order System Natural Response, Part 2 8.5 Second Order System Step Response Chapter 9: State Variable Methods 9.1 Introduction to State Variable Models 9.2 Numerical Simulation of System Responses Using MATLAB 9.3 Numerical Simulation of System Responses Using Octave Chapter 10: Steady-State Sinusoidal Analysis 10.1 Introduction to Steady-state Sinusoidal Analysis 10.2 Sinusoidal Signals, Complex Exponentials, and Phasors 10.3 Sinusoidal Steady-state System Response 10.4 Phasor Representations of Circuit Elements 10.5 Direct Frequency Domain Circuit Analysis 10.6 Frequency Domain System Characterization Chapter 11: Frequency Response and Filtering 11.1

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Introduction to Steady-state Sinusoidal Analysis 11.2 Signal Spectra and Frequency Response Plots 11.3 Frequency Selective Circuits and Filters 11.4 Introduction to Bode Plots Chapter 12: Steady-State Sinusoidal Power 12.1 Instantaneous Power 12.2 Average and Reactive Power 12.3 RMS Values 12.4 Apparent Power and Power Factor 12.5 Complex Power 12.6 Power Factor Correction

This book presents a systematic, comprehensive treatment of analog and discrete signal analysis and synthesis and an introduction to analog communication theory. This evolved from my 40 years of teaching at Oklahoma State University (OSU). It is based on three courses, Signal Analysis (a second semester junior level course), Active Filters (a first semester senior level course), and Digital signal processing (a second semester senior level course). I have taught these courses a number of times using this material along with existing texts. The references for the books and journals (over 160 references) are listed in the bibliography section. At the undergraduate level, most signal analysis courses do not require probability theory. Only, a very small portion of this topic is included here. I emphasized the basics in the book with simple mathematics and the sophistication is minimal. Theorem-proof type of material is not emphasized. The book uses the following model: 1. Learn basics 2. Check the work using bench marks 3. Use software to see if the results are accurate The book provides detailed examples (over 400) with applications. A three number system is used consisting of chapter number – section number – example or problem number, thus allowing the

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student to quickly identify the related material in the appropriate section of the book. The book includes well over 400 homework problems. Problem numbers are identified using the above three-number system.

With exceptionally clear writing, Lathi takes students step by step through a history of communications systems from elementary signal analysis to advanced concepts in communications theory. The first four chapters of the text present basic principles, subsequent chapters offer ample material for flexibility in course content and level. All Topics are covered in detail, including a thorough treatment of frequency modulation and phase modulation. Numerous worked examples in each chapter and over 300 end-of-chapter problems and numerous illustrations and figures support the content.

This textbook for courses in Digital Systems Design introduces students to the fundamental hardware used in modern computers. Coverage includes 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). Using this textbook enables readers to design digital systems using the modern HDL approach, but they have a broad 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

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a manner which builds foundational knowledge before moving onto advanced topics. The author has designed the presentation with learning Goals and assessment at its core. Each section addresses a specific learning outcome that the student should be able to “do” after its completion. The concept checks and exercise problems provide a rich set of assessment tools to measure student performance on each outcome.

A reference volume of analog electronic circuits based on the op-amp, containing practical detail and technical advice.

This text introduces the theory and design of active and passive analog filters and emphasizes modern trends and applications. It includes an introduction to OTA (operational transconductance amplifier) and switched-capacitor filters. The book is designed to lead smoothly from basic background circuit theory into the details of modern analog filter theory. The treatment not only covers a study of the basic filter structures, but also introduces advanced topics including sensitivity, operational amplifier gain bandwidth effects and compensation. Its complete coverage of modern approximation allows students to study all types and enables comparative studies of different filter realizations because of the use of computers in filter design. Many computer methods are introduced, emphasizing design and applications.

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A Guide to Analog ASICs is a working reference for the engineer who regularly uses analog custom technology or plans to use it in a product. The book includes a detailed analysis of analog and digital application specific integrated circuits (ASICs), the vendor selection process, cost trade-offs, and design-options (in-house, design center, use of vendor design resources). After introducing the development of analog ASICs, ASIC vendors, development cycles, and cost considerations, the text reviews basic global semiconductor technology, IC fabrication techniques, and the limitations of linear IC design. The components found inside the chip are integrated resistors, capacitors, transistors, diodes, and metal connections. The text explains building block circuits, how these are used to construct complex circuitry, and how the Simulation Program with Integrated Circuit Emphasis (SPICE) can check for circuit performance. The selection of the chip's package is important and depends on several factors, such as thermal size, physical size, PC board technology, number of pins, die size. When tested, a typical product should have a failure rate that follows a curve composed of a failure rate (X-axis) versus time (Y-axis). The book also provides suggestions on vendor selections including vendor identification, site visitation, and price negotiations. The book is suitable for computer engineers, designers of industrial processes, and researchers involved in electrical, computer, or other devices

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using integrated circuits.

The primary purpose of this book is to explain the fundamentals of data converters for students and engineers involved in this fascinating field as a newcomer.

The second edition of this accessible book provides readers with an introductory treatment of communication theory as applied to the transmission of information-bearing signals. While it covers analog communications, the emphasis is placed on digital technology. It begins by presenting the functional blocks that constitute the transmitter and receiver of a communication system. Readers will next learn about electrical noise and then progress to multiplexing and multiple access techniques.

About The Book: The book provides a detailed, unified treatment of theoretical and practical aspects of digital and analog communication systems, with emphasis on digital communication systems. It integrates theory-keeping theoretical details to a minimum-with over 60 practical, worked examples illustrating real-life methods. The text emphasizes deriving design equations that relate performance of functional blocks to design parameters. It illustrates how to trade off between power, band-width and equipment complexity while maintaining an acceptable quality of performance. Material is modularized so that appropriate portions can be selected to teach several different courses. The book also includes over 300 problems and an annotated bibliography in each chapter.

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Analog and hybrid computing recently have gained much interest as analog computers can outperform classical stored-program digital computers in some areas by orders of magnitude. This book gives a thorough introduction to analog and hybrid computer programming by means numerous worked examples from various areas. It is based on a number of introductory and advanced lectures on this topic delivered by the author at several universities.

For courses in Signals and Systems offered in departments of Electrical Engineering. This book focuses on the mathematical analysis and design of analog signal processing using a just in time approach - new ideas and topics relevant to the narrative are introduced only when needed, and no chapters are stand alone. Topics are developed throughout the narrative, and individual ideas appear frequently as needed.

Advances in Analog and RF IC Design for Wireless Communication Systems gives technical introductions to the latest and most significant topics in the area of circuit design of analog/RF ICs for wireless communication systems, emphasizing wireless infrastructure rather than handsets. The book ranges from very high performance circuits for complex wireless infrastructure systems to selected highly integrated systems for handsets and mobile devices. Coverage includes power amplifiers, low-noise amplifiers, modulators, analog-to-digital converters (ADCs) and digital-to-analog converters (DACs), and even single-chip radios. This book offers a quick grasp of emerging research topics in RF integrated circuit design and their potential applications,

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with brief introductions to key topics followed by references to specialist papers for further reading. All of the chapters, compiled by editors well known in their field, have been authored by renowned experts in the subject. Each includes a complete introduction, followed by the relevant most significant and recent results on the topic at hand. This book gives researchers in industry and universities a quick grasp of the most important developments in analog and RF integrated circuit design. Emerging research topics in RF IC design and its potential application Case studies and practical implementation examples Covers fundamental building blocks of a cellular base station system and satellite infrastructure Insights from the experts on the design and the technology trade-offs, the challenges and open questions they often face References to specialist papers for further reading

An introductory treatment of communication theory as applied to the transmission of information-bearing signals with attention given to both analog and digital communications. Chapter 1 reviews basic concepts. Chapters 2 through 4 pertain to the characterization of signals and systems. Chapters 5 through 7 are concerned with transmission of message signals over communication channels. Chapters 8 through 10 deal with noise in analog and digital communications. Each chapter (except chapter 1) begins with introductory remarks and ends with a problem set. Treatment is self-contained with numerous worked-out examples to support the theory.

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