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the included cd rom contains powerpoint based animated presentations designed to reinforce certain examples within the book it also contains pdf files

with full color versions of selected figures from the book

thorough coverage of basic digital communication system principles ensures that readers are exposed to all basic relevant topics in digital communication system design the use of cd player and jpeg image coding standard as examples of systems that employ modern communication principles allows readers to relate the theory to practical systems over 180 worked out examples throughout the book aids readers in understanding basic concepts over 480 problems involving applications to practical systems such as satellite communications systems ionospheric channels and mobile radio channels gives readers ample opportunity to practice the concepts they have just learned with an emphasis on digital communications communication systems engineering second edition introduces the basic principles underlying the analysis and design of communication systems in addition this book gives a solid introduction to analog communications and a review of important mathematical foundation topics new material has been added on wireless communication systems gsm and cdma is 94 turbo codes and iterative decoding multicarrier ofdm systems multiple antenna systems includes thorough coverage of basic digital communication system principles including source coding channel coding baseband and carrier modulation channel distortion channel equalization synchronization and wireless communications includes basic coverage of analog modulation such as amplitude modulation phase modulation and frequency modulation as well as demodulation methods

this treatment of modern communication systems presents practical design applications as developed from basic principles after covering the basic principles of digital and analog baseband and bandpass signals the text includes practical design examples that illustrate transmitter and receiver blocks effects of nonlinearities spectral characteristics and noise performance it is designed for students studying courses in communication systems digital and computer communications or telecommunication systems and standards

an introductory graduate level look at modern communications in general and radio communications in particular this seminal presentation of the applications of communication theory to signal and receiver design brings you valuable insights into the fundamental concepts underlying today's communications systems especially wireless communications coverage includes am fm phase modulation pcm fading and diversity receivers this is a classic reissue of a book published by mcgraw hill in 1966

principles of electronic communication systems is intended for introductory courses in communication electronics with students having a background in basic electronics this up to date edition provides a readable accessible approach to modern communications systems

this book is written as a very concise introduction for students taking a first course in communication systems it provides the reader with fundamentals of

digital communication systems and disseminates the essentials needed for the understanding of wire and wireless communication systems for electrical engineers it covers important topics right from the beginning of the subject which communication engineers must understand example problems in each chapter will help them in understanding the materials well the study of data networking will include multiple access reliable packet transmission routing and protocols of the internet the concepts taught in class will be discussed in the context of aerospace communication systems aircraft communications satellite communications the book includes example problems in each chapter to help the reader in understanding the materials well

provides a detailed unified treatment of theoretical and practical aspects of digital and analog communication systems with emphasis on digital communication systems integrates theory keeping theoretical details to a minimum with over 60 practical worked examples illustrating real life methods emphasizes deriving design equations that relate performance of functional blocks to design parameters 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 includes over 300 problems and an annotated bibliography in each chapter

about the book this best selling easy to read communication systems book has been extensively revised to include an exhaustive treatment of digital communications throughout it emphasizes the statistical underpinnings of communication theory in a complete and detailed manner

revisions to 5th edition by zhili sun university of surrey uk new and updated edition of this authoritative and comprehensive reference to the field of satellite communications engineering building on the success of previous editions satellite communications systems fifth edition covers the entire field of satellite communications engineering from orbital mechanics to satellite design and launch configuration and installation of earth stations including the implementation of communications links and the set up of the satellite network this book provides a comprehensive treatment of satellite communications systems engineering and discusses the technological applications it demonstrates how system components interact and details the relationship between the system and its environment the authors discuss the systems aspects such as techniques enabling equipment and system dimensioning and state of the art technology for satellite platforms payloads and earth stations new features and updates for the fifth edition include more information on techniques allowing service provision of multimedia content extra material on techniques for broadcasting including recent standards dvr rcs and dvr s2 digital video broadcasting return channel satellite and satellite version 2 updates on onboard processing by offering a detailed and practical overview satellite communications systems continues to be an authoritative text for advanced students engineers and designers throughout the field of satellite

communications and engineering

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 textbook offers its readers a consistent and superb pedagogical style by explaining complex subjects and concepts clearly using both mathematics and heuristics the text begins by introducing students to the basics of communication systems without requiring probability theory only after a solid understanding on how basic communication systems work is analysis of communication systems requiring probability and random processes presented the authors use real world examples to capture the students attention and enable them to easily relate the course materials with their daily experience of communication tools the text features easy to understand examples and matlab exercises to clarify mathematical results and proofs

features explanations of practical communication systems presented in the context of theory over 300 excellent illustrations help students visualize difficult concepts and demonstrate practical applications over 120 worked out examples promote mastery of new concepts plus over 130 drill problems with answers extend these principles a wide variety of problems all new to this edition including realistic applications computer based problems and design problems coverage of current topics of interest such as fiber optics spread spectrum systems and integrated digital services networks

this book conveys the reality of today's communication systems by balancing traditional elements with the three more recent radical developments that have had the most dramatic effects on the field the widespread use of integrated circuits microprocessors and software digital techniques and signals the third edition has been both updated and expanded to include coverage of the latest tools and techniques systems and standards

the use of electronically scanned phased arrays is increasing in systems such as radar wireless networks and satellite ground terminals an important and necessary component for these systems is the transmit receive t r module which provides the amplification and electronic beam steering that is required for proper function this new resource presents a comprehensive overview of all design fabrication integration and implementation issues associated with t r modules for radar and communications this book provides engineers and researchers with practical designs and 44 examples of analysis circuits and components used in t r modules it also provides a solid explanation of the

theory for how t r modules operate and how they can be optimized in addition this book shows how the latest technical advances in silicon germanium sige and gallium nitride gan are allowing levels of performance that were previously unachievable the book concludes with informative chapters on testing cost considerations and the future of next generation t r modules

the industrial electronics handbook second edition industrial communications systems combines traditional and newer more specialized knowledge that helps industrial electronics engineers develop practical solutions for the design and implementation of high power applications embracing the broad technological scope of the field this collection explores fundamental areas including analog and digital circuits electronics electromagnetic machines signal processing and industrial control and communications systems it also facilitates the use of intelligent systems such as neural networks fuzzy systems and evolutionary methods in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components enhancing its value this fully updated collection presents research and global trends as published in the iee transactions on industrial electronics journal one of the largest and most respected publications in the field modern communication systems in factories use many different and increasingly sophisticated systems to send and receive information industrial communication systems spans the full gamut of concepts that engineers require to maintain a well designed reliable communications system that can ensure successful operation of any production process delving into the subject this volume covers technical principles application specific areas technologies internet programming outlook including trends and expected challenges other volumes in the set fundamentals of industrial electronics power electronics and motor drives control and mechatronics intelligent systems

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