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this treatment of modern communication systems presents practical design applications as developed from basic principles after covering the basic principles of digital and analogy 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

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

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

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 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

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

from basic concepts to the latest technologies electronic communications systems has proven successful for the introductory communications student now better than ever dungan s electronic communications systems third edition has maintained all the features that have made it so popular for future technicians the revision keeps it easy to read style and broad up to date coverage also available lab manual isbn 0 8273 8629 x instructor supplements call customer support to order instructor s guide isbn 0 8273 8625 7 instructor s resource guide isbn 0 8273 8630 3

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

now in its second edition electronic communications systems provides electronics technologists with an extraordinarily complete accurate and timely introduction to all of the state of the art technologies used in the communications field today comprehensive coverage includes traditional analog systems as well as modern digital techniques extensive discussion of today s modern wireless systems including cellular radio paging systems and wireless data networks is also included in addition sections on data communication and the internet high definition television and fiber optics have been updated in this edition to enable readers to keep pace with the latest technological advancements a block diagram approach is emphasized throughout the book with circuits included when helpful to lead readers to an understanding of fundamental principles instructive step by step examples using multisim in addition to those that use actual equipment and current manufacturer s specifications are also included knowledge of basic algebra and trigonometry is assumed yet no calculus is required

this updated and revised edition offers a broad yet rigorous introduction to communication theory contains an excellent account of noise effects in analog and digital communication systems followed by introductory treatments of detection estimation information and coding theory new to this edition sections on trellis coded modulation and carrier reconstruction material on interference demonstrating the difference between linear and nonlinear systems updates on optical communication links and feedback channels features scores of new examples and problems as well as computer exercises using mathematics packages such as matlab and mathcad to facilitate students understanding of concepts and applications

for sophomore senior level courses in introduction to electronic communications and digital and data communications comprehensive in scope and contemporary in coverage this text introduces basic electronic and data communications fundamentals and explores their application in modern digital and data communications systems students with previous knowledge in basic electronic principles and fundamental calculus concepts will gain a complete understanding of the topics presented here tomasi s advanced electronic communication systems 5 e is the last 10 chapters of this text

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 ieee 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

the study of communication systems is basic to an undergraduate program in electrical engineering in this third edition the author has presented a study of classical communication theory in a logical and interesting manner the material is illustrated with examples and computer oriented experiments intended to help the reader develop an intuitive grasp of the theory under discussion introduction representation of signals and systems continuous wave modulation random processes noise in cw modulation systems pulse modulation baseband pulse transmission digital passband transmission spread spectrum modulation fundamental limits in information theory error control coding advanced communication systems

pcs personal communication systems will provide the convenience of fax email and voice mail in a package similar to cellular phones this book describes both personal communication systems and mobile networks and as they are envisioned for the future key topics the first half of this book covers the theory of wireless communications presenting the historical background of wireless telephony and the evolution of wireless technologies in the u s and europe the second half of the book presents the analog and digital cellular and pcs systems used in the u s europe and japan for wireless engineers and those interested in marketing wireless products in the united states

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