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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 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

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 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

this best selling easy to read book offers the most complete discussion on the theories and principles behind today's most advanced communications systems throughout haykin emphasizes the statistical underpinnings of communication theory in a complete and detailed manner readers are guided through topics ranging from pulse modulation and passband digital transmission to random processes and error control coding the fifth edition has also been revised to include an extensive treatment of digital communications

introduction in first chapter includes various topics given in the book second chapter deals with information theory that includes modes of sources and channels information and entropy source coding discrete memoryless channels mutual information and shannon's theorems are given linear block codes cyclic codes hamming codes syndrome decoding convolutional codes are given in third chapter spread spectrum communication includes pseudo noise sequences direct sequence and frequency hop spread spectrum it is presented in fourth chapter multiple access techniques are reviewed in fifth chapter sixth chapter deals with satellite communications satellite orbits satellite access earth station transponder frequency reuse link budget vsat and msat are presented fibre optic communication is introduced in seventh chapter light propagation in fiber losses modes dispersion light sources and detectors fiber optic link are presented in this chapter

market desc graduate and undergraduate students instructors in engineering engineers about the book this book offers the most complete up to date coverage available on the principles of digital communications it 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 intuitive grasp of the theory because the book covers a broad range of topics in digital communications it satisfies 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

analog and digital communications will help students irrespective of their level of study to grasp the fundamental aspects of electronic communication by starting from the basics and working up the rungs gradually and in a structured form the book is designed to make a student think consistently and grasp the concepts in steps to ensure understanding and retention the coverage of fundamental ideas allows the student to easily learn the future developments that come up in these areas

this book constitutes the thoroughly refereed proceedings of the 12th international conference on information and communication technologies in education research and industrial applications icteri 2016 held in kyiv ukraine in june 2016 the 10 revised full papers presented together with one invited keynote paper were carefully reviewed and selected from 122 submissions the papers are grouped into topical sections on invited paper advances in ict research ict in education

the author explores the impediments to efficient wireless transmission and techniques and proposes ways to mitigate these problems problems presented include both fading and shadowing which increase the possibility of outage in wireless systems

this book provides a rigorous treatment of deterministic and random signals it offers detailed information on topics including random signals system modelling and system analysis system analysis in frequency domain using fourier transform and laplace transform is explained with theory and numerical problems the advanced techniques used for signal processing especially for speech and image processing are discussed the properties of continuous time and discrete time signals are explained with a number of numerical problems the physical significance of different properties is explained using real life examples to aid understanding concept check questions review questions a summary of important concepts and frequently asked questions are included matlab programs with output plots and simulation examples are provided for each concept students can execute these simulations and

verify the outputs

cognitive networks can be crucial for the evolution of future communication systems however current trends have indicated major movement in other relevant fields towards the integration of different techniques for the realization of self aware and self adaptive communication systems evolution of cognitive networks and self adaptive communication systems overviews innovative technologies combined for the formation of self aware self adaptive and self organizing networks by aiming to inform the research community and the related industry of solutions for cognitive networks this book is essential for researchers instructors and professionals interested in clarifying the latest trends resulting in a unified realization for cognitive networking and communication systems

the best of the best fifty years of communications and networking research consists of a group of 50 papers selected as the best published by comsoc in its various journals in the society s 50 year history the editors of the collection have written an essay to introduce the papers and discuss the historical significance of the collection and how they were selected for the collection the book divides the papers into two major categories communications and networking and groups them by decade within these major subdivisions

intended for use in undergraduate courses this textbook discusses the techniques of wireless communications according to the evolution of spectral utilization of the radio channel chapters discuss topics like propagation and noise modulation and frequency division multiple access coding and time

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