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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

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

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

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 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

market desc communication engineers telecommunications professionals design engineers electrical engineers system managers special features without neglecting coverage of analog communications the author presents the latest emerging technologies such as digital subscriber lines dsl carrierless amplitude modulation phase modulation cap and discrete multi tone dmt the author s easy to read writing style and superb organization makes the materials easy to understand the book offers the use of matlab in a software laboratory for demonstrating important aspects of communication theory 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

this book highlights applications that include machine learning methods to enhance new developments in complex and unmanned systems the

contents are organized from the applications requiring few methods to the ones combining different methods and discussing their development and hardware software implementation the book includes two parts the first one collects machine learning applications in complex systems mainly discussing developments highlighting their modeling and simulation and hardware implementation the second part collects applications of machine learning in unmanned systems including optimization and case studies in submarines drones and robots the chapters discuss miscellaneous applications required by both complex and unmanned systems in the areas of artificial intelligence cryptography embedded hardware electronics the internet of things and healthcare each chapter provides guidelines and details of different methods that can be reproduced in hardware software and discusses future research features provides details of applications using machine learning methods to solve real problems in engineering discusses new developments in the areas of complex and unmanned systems includes details of hardware software implementation of machine learning methods includes examples of applications of different machine learning methods for future lines for research in the hot topic areas of submarines drones robots cryptography electronics healthcare and the internet of things this book can be used by graduate students industrial and academic professionals to examine real case studies in applying machine learning in the areas of modeling simulation and optimization of complex systems cryptography electronics healthcare control systems internet of things security and unmanned systems such as submarines drones and robots

a compact overview on signals and systems with emphasis on analysis of continuous and discrete systems in time domain frequency domain analysis transform analysis and state space analysis are also discussed in detail with abundant examples and exercises to facilitate learning it is an ideal texts for graduate students and lecturers in signal processing and communication engineering

various measures of information are discussed in first chapter information rate entropy and mark off models are presented second and third chapter deals with source coding shannon s encoding algorithm discrete communication channels mutual information shannon s first theorem are also presented huffman coding and shannon fano coding is also discussed continuous channels are discussed in fourth chapter channel coding theorem and channel capacity theorems are also presented block codes are discussed in chapter fifth sixth and seventh linear block codes hamming codes syndrome decoding is presented in detail structure and properties of cyclic codes encoding and syndrome decoding for cyclic codes is also discussed additional cyclic codes such as rs codes golay codes burst error correction is also discussed last chapter presents convolutional codes time domain transform domain approach code tree code trellis state diagram viterbi decoding is discussed in detail

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

amplitude modulation and angle modulation are discussed in first two chapters am fm analysis equations modulators detectors transmission and reception are thoroughly presented ssb dsb vsb fdm are also discussed noise theory is given in third chapter it includes random variables probability random processes and correlation functions noise factor noise temperature and mathematical analysis of noise is presented performance of modulation systems in the presence of noise is explained in fourth chapter figure of merit capture effect and threshold effect are also presented last chapter presents information theory entropy information rate discrete memoryless source source coding shannon s theorems are also given in detail mutual information and channel capacity are also presented

a groundbreaking book from simon haykin setting out the fundamental ideas and highlighting a range of future research directions

original research on shm sensors quantification strategies system integration and control for a wide range of engineered materials new applications in robotics machinery as well as military aircraft railroads highways bridges pipelines stadiums tunnels space exploration and energy production continuing a critical book series on structural health monitoring shm this two volume set with full text searchable cd rom offers as its subtitle implies a guide to greater integration and control of shm systems specifically the volumes contain new research that will enable readers to more efficiently link sensor detection diagnostics quantification overall system functionality and automated e g robotic control thus further closing the loop from inherent signal based damage detection to responsive real time maintenance and repair shm performance is demonstrated in monitoring the behavior of composites metals concrete polymers and selected nanomaterials in a wide array of surroundings including harsh environments under extreme e g seismic loading and in space new information on smart sensors and network optimization is enhanced by novel statistical and model based methods for signal processing and data quantification a special feature of the book is its explanation of emerging control technologies research in these volumes was initially presented in september 2013 at the 9th international workshop on structural health monitoring iwsrm held at stanford university and sponsored by the air force office of scientific research the army research laboratory and the office of naval research

market desc electrical engineers special features design and matlab concepts have been integrated in the text integrates applications as it relates signals to a remote sensing system a controls system radio astronomy a biomedical system and seismology about the book the text provides a balanced and integrated treatment of continuous time and discrete time forms of signals and systems intended to reflect their roles in engineering practice this approach has the pedagogical advantage of helping the reader see the fundamental similarities and differences between discrete time and continuous time representations it includes a discussion of filtering modulation and feedback by building on the fundamentals of signals and

systems covered in earlier chapters of the book

this book is published open access under a cc by 4 0 license over the past decades rapid developments in digital and sensing technologies such as the cloud and internet of things have dramatically changed the way we live and work the digital transformation is revolutionizing our ability to monitor our planet and transforming the way we access process and exploit earth observation data from satellites this book reviews these megatrends and their implications for the earth observation community as well as the wider data economy it provides insight into new paradigms of open science and innovation applied to space data which are characterized by openness access to large volume of complex data wide availability of new community tools new techniques for big data analytics such as artificial intelligence unprecedented level of computing power and new types of collaboration among researchers innovators entrepreneurs and citizen scientists in addition this book aims to provide readers with some reflections on the future of earth observation highlighting through a series of use cases not just the new opportunities created by the new space revolution but also the new challenges that must be addressed in order to make the most of the large volume of complex and diverse data delivered by the new generation of satellites

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model based signal processing develops the model based approach to signal processing for a variety of useful model sets including the popularly termed physics based models it presents a unique viewpoint of signal processing from the model based perspective

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Introduction

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