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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

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 though 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

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

research directions

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

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

discover the technology for the next generation of radar systems here is the first book that brings together the key concepts essential for the application of knowledge based systems kbs to radar detection tracking classification and scheduling the book highlights the latest advances in both kbs and radar signal and data processing presenting a range of perspectives and innovative results that have set the stage for the next generation of adaptive radar systems the book begins with a chapter introducing the concept of knowledge based kb radar the remaining nine chapters focus on current developments and recent applications of kb concepts to specific radar functions among the key topics explored are fundamentals of relevant kb techniques kb solutions as they apply to the general radar problem kbs applications for the constant false alarm rate processor kb control for space time adaptive processing kb techniques applied to existing radar systems integrated end to end radar signals data processing with overarching kb control all chapters are self contained enabling readers to focus on those topics of greatest interest each one begins with introductory remarks moves on to detailed discussions and analysis and ends with a list of references throughout the presentation the authors offer examples of how kbs works and how it can dramatically improve radar performance and capability moreover the authors forecast the impact of kb technology on future systems including important civilian military and homeland defense applications with chapters contributed by leading international researchers and pioneers in the field this text is recommended for both students and professionals in radar and sonar detection tracking and classification and radar resource management

topics in this volume include antenna beamforming using optical processor novel optical techniques for phased array processing and optically controlled phased array radar receiver using slm switched real time delays

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