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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

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

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

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 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

get a solid account of physical layer communications theory illustrated with numerous interactive matlab mini projects you can rely on fundamentals of communications systems for a solid introduction to physical layer communications theory filled with modern implementations and matlab examples this state of the art guide covers essential theory and current engineering practice carefully explaining the real world tradeoffs necessary among performance spectral efficiency and complexity written by an award winning communications expert the book first takes readers through analog communications basics amplitude modulations analog angle modulation and random processes this essential resource then explains noise in bandpass communications systems bandpass gaussian random processes digital communications basics complexity of optimum demodulation spectrally efficient data transmission and more fundamentals of communications systems features a modern approach to communications theory reflecting current engineering applications numerous matlab problems integrated throughout with software available for download detailed coverage of tradeoffs among performance spectral efficiency and complexity in engineering design text written in four parts for easy modular presentation inside this on target

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this comprehensive book makes the important technologies and mathematical concepts behind today s optical communications systems accessible and understandable to practicing and future electrical and communication engineers featuring nearly 400 figures and over 900 equations the book provides the practical engineering details and mathematical tools necessary to analyze and design optical fiber systems

offering comprehensive up to date coverage on the principles of digital communications this book focuses on basic issues relating theory to practice wherever possible topics covered include the sampling process digital modulation techniques and error control coding

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