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Where To Download Digital Communications By Simon Haykin Solutions

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.

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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.

An introductory treatment of communication theory as applied to the transmission of information-bearing signals with attention given to both analog and digital communications. Chapter 1 reviews basic concepts. Chapters 2 through 4 pertain to the characterization of signals and systems. Chapters 5 through 7 are concerned with transmission of message signals over communication channels. Chapters 8 through 10 deal with noise in analog and digital communications. Each chapter (except chapter 1) begins with introductory remarks and ends with a problem set. Treatment is self-contained with numerous worked-out examples to support the theory.

Digital communications is an elective course often taken as the second semester of an analog/digital sequence or as a follow-on course to communication systems. This new text offers the most complete, up-to-date coverage available on the principles of digital communications, focusing on core principles and relating theory to practice. Numerous examples, worked out in detail, have been included to help the reader develop an intuitive grasp of the theory. The text also incorporates MATLAB-based computer experiments throughout, as well as themed examples and a large amount of quality homework problems. Because the book covers a broad range of topics in digital communications, it should satisfy a variety of backgrounds and interests.

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

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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.

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

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