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Simon Haykin is a University Professor at McMaster University, Hamilton, Ontario, Canada. His research interests include nonlinear dynamics, neural networks and adaptive filters and their applications in radar and communications systems. Dr.

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Simon Haykin is a renowned electrical engineer. He holds a BSc degree and a PhD in electrical engineering from the University of Birmingham. He has authored numerous books on electrical engineering and communications. He was awarded the Henry Booker Gold Medal of URSI and is also a Fellow of the Royal Society of Canada.

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This best-selling, easy-to-read, communication systems text has been extensively revised to include the most exhaustive treatment of digital communications in an undergraduate level text. In addition to being the most up-to-date communications text available, Simon Haykin has added MATLAB computer experiments.

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.

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.

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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

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.

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.

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