



# Modern Digital and Analog Communication Systems (The Oxford Series in Electrical and Computer Engineering)

By B. P. Lathi

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Lathi's trademark user-friendly and highly readable text presents a complete and modern treatment of communication systems. It begins by introducing students to the basics of communication systems without using probabilistic theory. Only after a solid knowledge base--an understanding of how communication systems work--has been built are concepts requiring probability theory covered. This third edition has been thoroughly updated and revised to include expanded coverage of digital communications. New topics discussed include spread-spectrum systems, cellular communication systems, global positioning systems (GPS), and an entire chapter on emerging digital technologies (such as SONET, ISDN, BISDN, ATM, and video compression).

Ideal for the first communication systems course for electrical engineers, *Modern Digital and Analog Communication Systems* offers students a superb pedagogical style; it consistently does an excellent job of explaining difficult concepts clearly, using prose as well as mathematics. The author makes every effort to give intuitive insights--rather than just proofs--as well as heuristic explanations of theoretical results wherever possible. Featuring lucid explanations, well-chosen examples clarifying abstract mathematical results, and excellent illustrations, this unique text is highly informative and easily accessible to students.

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"A textbook that focuses on giving students an intuitive understanding of communication systems as well as the theoretical knowledge. The book is well written so that I can cover additional material in class and allow the book's explanation of certain topics to stand on its own." --Lisa Osackiw, Syracuse University

"Elegantly written. Theories on Fourier transform and signal space are well presented. One of the best books for electrical engineering students and engineers."--Julian Cheung, New York Institute of Technology

"I liked this book simply for its simplicity of instruction, easy to understand, and its comprehensive material. The book covers a wide range of information related to communication, including how communication systems work and how they perform in the presence of noise." --Ibraheem Kateeb, Guilford Tech

"Excellent explanation! Super text for beginners!" --Donald M. Wiberg, University of California, Santa Cruz

#### About the Author

B. P. Lathi is at California State University.

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