



Principles of Digital Communication: A Top-Down Approach

Bixio Rimoldi

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This comprehensive and accessible text teaches the fundamentals of digital communication via a top-down-reversed approach, specifically formulated for a one-semester course. The unique approach focuses on the transmission problem and develops knowledge of receivers before transmitters. In doing so it cuts straight to the heart of the digital communication problem, enabling students to learn quickly, intuitively, and with minimal background knowledge. Beginning with the decision problem faced by a decoder and going on to cover receiver designs for different channels, hardware constraints, design trade-offs, convolutional coding, Viterbi decoding, and passband communication, detail is given on system-level design as well as practical applications in engineering. All of this is supported by numerous worked examples, homework problems, and MATLAB simulation exercises to aid self-study, providing a solid basis for students to specialize in the field of digital communication and making it suitable for both traditional and flipped classroom teaching.

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