



Principles of Communication: Systems, Modulation and Noise, 5th Edition

By Rodger E. Ziemer, W. H. Tranter

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Sections on important areas such as spread spectrum, cellular communications, and orthogonal frequency-division multiplexing are provided.

* Computational examples are included, illustrating how to use the computer as a simulation tool, thereby allowing waveforms, spectra, and performance curves to be generated.

* Overviews of the necessary background in signal, system, probability, and random process theory required for the analog and digital communications topics covered in the book.

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Editorial Review

From the Back Cover

Fundamental communications principles that will keep you on the cutting edge

Communications technology may come and go, but the ne Fifth Edition of Rodger Ziemer and William Tranter's *Principles of Communications: Systems, Modulation, and Noise* equips you with basic principles of communications at the physical layer—principles that will keep you on the cutting edge, regardless of how the technology changes.

Featuring thorough yet concise coverage, chapters gives you the necessary background in signal, system, probability, and random process theory required to understand the analog and digital communications topics covered in the book. You'll also learn about such currently popular topics as cellular radio, spread spectrum, and orthogonal frequency-division multiplexing.

Features of the Fifth Edition:

- Thoroughly updated to reflect the state-of-the-art in communications principles.
- Examples throughout the text illustrate key points and show how to apply theory.
- Computational computer examples in each chapter demonstrate how to use computers for calculation of various performance curves.
- Simulation computer examples show how to use the computer as a simulation tool, thereby allowing waveforms, spectra, and performance curves to be generated.
- Chapter summaries provide a concise checklist that will help you review for examinations.
- A wide variety of problems included at the end of each chapter allows you to practice on concepts given in text.

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