

Wireless Communications

Wireless Communications

PRINCIPLES AND PRACTICE

Second Edition

THEODORE S. RAPPAPORT

The indispensable guide to wireless communications—now fully revised and updated!

Wireless Communications: Principles and Practice, Second Edition is the definitive modern text for wireless communications technology and system design. Building on his classic first edition, Theodore S. Rappaport covers the fundamental issues impacting all wireless networks and reviews virtually every important new wireless standard and technological development, offering especially comprehensive coverage of the 3G systems and wireless local area networks (WLANs) that will transform communications in the coming years. Rappaport illustrates each key concept with practical examples, thoroughly explained and solved step-by-step. Coverage includes:

- An overview of key wireless technologies: voice, data, wireless, paging, fixed and mobile broadband wireless systems, and beyond
- Wireless system design fundamentals: channel assignment, handoffs, trunking efficiency, interference, frequency reuse, capacity planning, large-scale fading, and more
- Path loss, small-scale fading, multipath, reflection, diffraction, scattering, shadowing, spatial temporal channel modeling, and movement-induced propagation
- Modulation, equalization, diversity, channel coding, and speech coding
- New wireless LAN technologies: IEEE 802.11a/b, HIPERLAN, BLUAT, and other alternatives
- New 3G air interface standards, including W-CDMA, cdmaDOCS, GPRS, UAPTS, and EDGE
- Bluetooth™, universal computing, fixed wireless and Local Multipoint Distribution Service (LMDS), and other advanced technologies
- Updated glossary of abbreviations and acronyms, and a thorough list of references
- Dozens of new examples and end-of-chapter problems

Whether you're a communications/career professional, manager, researcher, or student, *Wireless Communications: Principles and Practice, Second Edition* gives you an in-depth understanding of the state-of-the-art in wireless technology—today's and tomorrow's.

About the Author

THEODORE S. RAPPAPORT holds the William and Bertha Moore Chair in Electrical Engineering at the University of Texas, Austin and is the James G. Thompson Distinguished Engineering and Emerging Technologies Professor. In 1992, he founded the Mobile & Portable Radio Research Group at Virginia Tech, one of the first university research and educational programs focused on wireless communications. Rappaport has developed dozens of commercial products and used his many careers and publications, the two often related fundamental research and teaching on how to build for product and developing systems. He has also worked on the global, the current research focus on how to build for product and developing systems. He has also worked on the global, the current research focus on how to build for product and developing systems. He has also worked on the global, the current research focus on how to build for product and developing systems.

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Wireless Communications Principles And Practice 2nd Edition

Raffaela Di Napoli



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