

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:

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- 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, instructor 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 former senior faculty member of the Communications Engineering and Emerging Technologies Center, at UTAS. 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 used by many carriers and manufacturers, the two often critical fundamental research and teaching materials used in industry short courses and in university classrooms around the globe. His current research focuses on new methods for protecting and distributing wireless broadband and portable Internet access by managing frequency reuse, and on low bandwidth, modeling, and practical use of 3-D ultra-wideband propagation techniques for future wireless networks.

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