



# Introduction to Wireless Digital Communication: A Signal Processing Perspective

*Robert W. Heath Jr.*

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**Introduction to Wireless Digital Communication: A Signal Processing Perspective** Robert W. Heath Jr. Developed and proven as part of a special laboratory course at the University of Texas, this unique book makes wireless communication accessible both to undergraduates and to practicing electrical engineers who haven't specialized in communications.

**Introduction to Wireless Digital Communication: A Signal Processing Perspective** goes beyond broad survey coverage, while assuming the right mathematical depth for undergraduates and building on the foundational DSP knowledge most of them already have. Using this text, instructors can teach wireless technologies without requiring other analog or digital communication prerequisites.

Robert W. Heath, Jr. presents:

- A comprehensive view of communication in wireless channels that accounts for practical impairments
- Algorithms for channel estimation, equalization, frame synchronization, and carrier frequency offset synchronization
- Focused coverage of widely-deployed quadrature pulse amplitude modulation technology
- Least squared estimation techniques, building on the linear algebra typically taught to electrical engineering undergraduates
- Modular, "less is more" coverage of realistic example cases, rather than an attempt to help students solve every single problem that might arise

**Introduction to Wireless Digital Communication** contains examples, homework problems, and lecture notes, and is supported with attractive adoption materials, including PowerPoint presentations, solutions and MATLAB manuals. (A separate Laboratory Manual is sold with hardware from National Instruments.)



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