



RF Engineering for Wireless Networks: Hardware, Antennas, and Propagation (Communications Engineering)

By Daniel M. Dobkin

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Finally, here is a single volume containing all of the engineering information needed to successfully design and implement any type of wireless network!

Author Dan Dobkin covers every aspect of RF engineering necessary for wireless networks. He begins with a review of essential math and electromagnetic theory followed by thorough discussions of multiplexing, modulation types, bandwidth, link budgets, network concepts, radio system architectures, RF amplifiers, mixers and frequency conversion, filters, single-chip radio systems, antenna theory and designs, signal propagation, as well as planning and implementing wireless networks for both indoor and outdoor environments.

The appendices contain such vital data as U.S., European, and Japanese technical and regulatory standards for wireless networks, measurements in wireless networks, reflection and matching of transmission lines, determining power density, and much more. No matter what type of wireless network you design-Bluetooth, UWB, or even metropolitan area network (MAN)-this book is the one reference you can't do without!

- The A-to-Z guide to wireless network engineering-covers everything from basic electromagnetic theory to modulation techniques to network planning and implementation!
- Engineering and design principles covered are applicable to any type of wireless network, including 802.11, 802.16, 802.20, and Bluetooth.
- Discusses state-of-the-art modulation techniques such as ultra wideband (UWB) and orthogonal frequency-division multiplexing (OFDM).

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Review

"Listed as noteworthy book by Bill Schweber from EDN Magazine" - EDN Feb 2005

"A practical level, mostly nonmathematical introduction to wireless communication networks, including the following topics: basics of signals, waves, and communications; local area networks, radio transmitters and receivers, performance of indoor networks; outdoor networks." - IEEE Microwave Magazine, Dec 2005

About the Author

Daniel Dobkin has been involved in the development, manufacturing, and marketing of communications devices, components, and systems for over 28 years. He holds a BS from the California Institute of Technology, and MS and PhD degrees from Stanford University, all in Applied Physics. He is the author of three books and 30 technical publications, and holds 7 US patents as inventor or co-inventor. He has given numerous talks and classes on radio-frequency identification in the US and Asia. He specializes in physical-layer issues: radios and signal generation, antennas, and signal propagation.

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