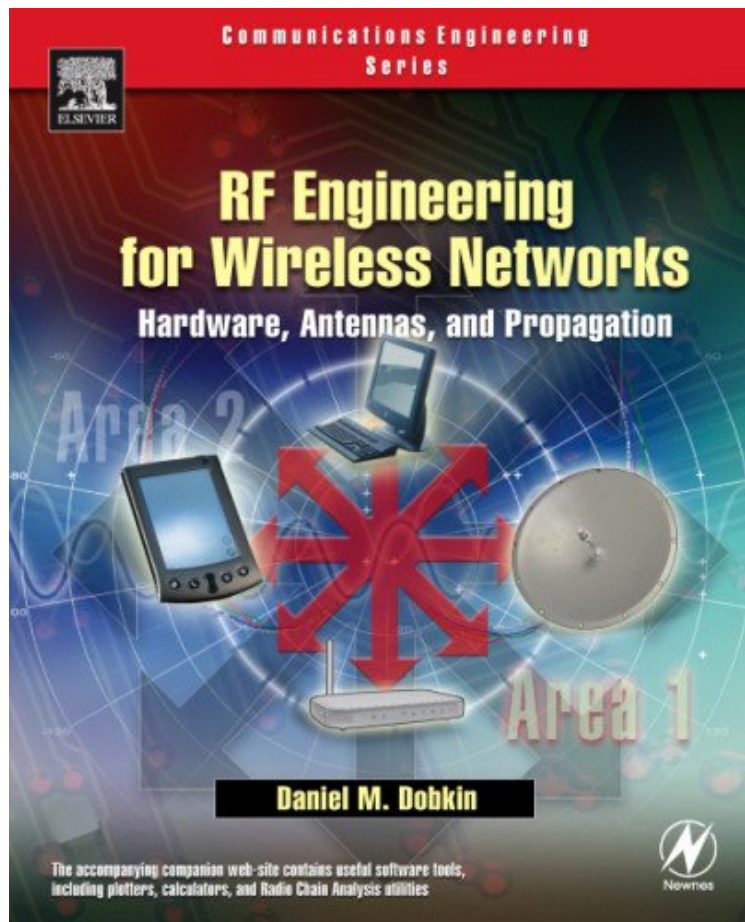


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highlights the importantBy Jason WaltersI have many texts on RF Engineering and quite a few on wireless networks. This has become the first port of call for understanding Antennae and propagation in this physically treacherous environment. Many real life designs rely on multi-path propagation to ensure access points and other such devices work. This is not often clear in the documentation however. This book will help you solve this thorny problem in your network and show you how to battle reflections effectively. It has the right amount of mathematics to make some predictions reasonably possible. A far cry from the norm in this rapidly evolving field.6 of 7 people found the following review helpful. Useful, intellectual and entertainingBy Jim MDan Dobkin has accomplished something close to impossible: an extremely useful, intelligent and entertaining book on Wireless Networks. This book is a must for wireless network designers or those just interested in how they operate.The book is filled with extremely useful technical information on wireless networks and all of the building blocks. His real world network application examples compliment the detailed technical derivations. Dobkin writes this book as if he is telling a story without the stuffiness of typical technical books. The Illustrations are very well thought out and help to get the complex ideas across to the reader. Dobkin adds interesting historical facts and comical quips to the detailed technical discussions to make the journey through this book interesting and rewarding. He manages to convey a sense of enthusiasm for technology throughout the text.Very few authors manage to write such useful technical books without putting the reader to sleep. Dan Dobkin is one of the few to have accomplished this feat. I thoroughly enjoyed this book and look forward to his next creation!

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 cant do without!The A-to-Z guide to wireless network engineeringcovers 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).

"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 2005About the AuthorDaniel 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.