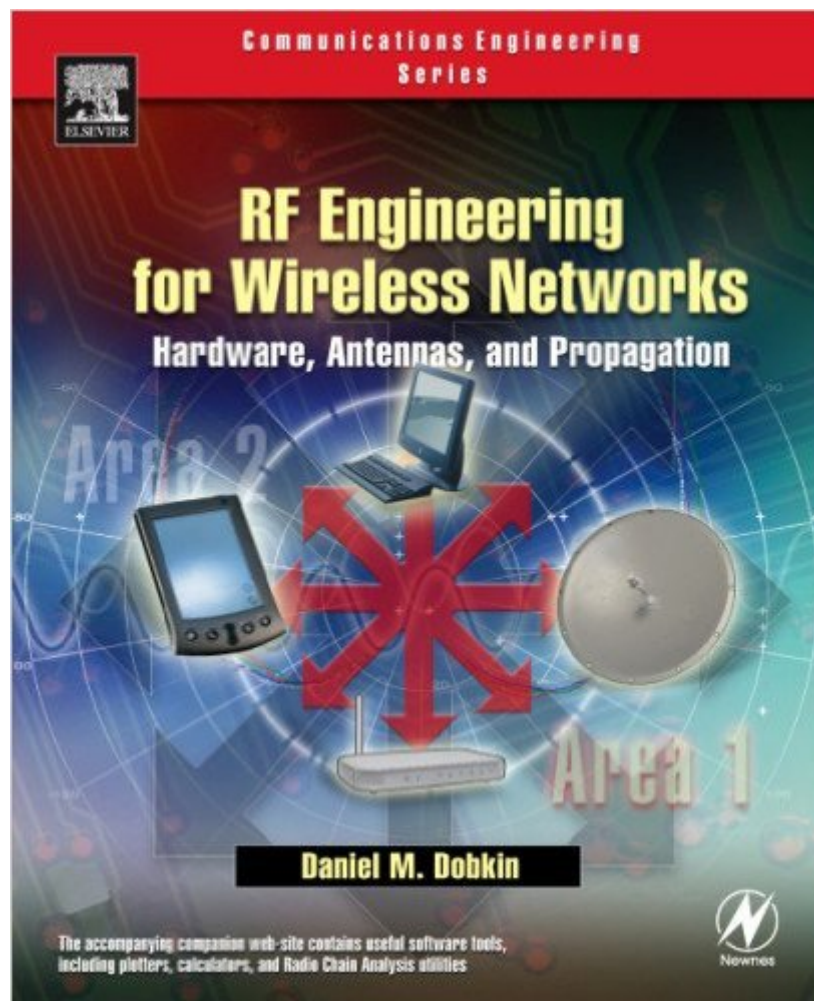


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# RF Engineering For Wireless Networks: Hardware, Antennas, And Propagation (Communications Engineering (Paperback))



## Synopsis

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. The accompanying companion website includes useful software tools such as a link budget calculator, a Smith Chart calculator and plotter, and radio chain analysis utilities. 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).

## Book Information

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## Customer Reviews

Probably the best book on the market for anyone affiliated with designing and/or deploying wireless networks. The book is very well written. Every curiosity of RF can be found in this book. The illustrations are great and the book is full of real world networking examples. Anyone planning on designing or operating a wireless network should have this book nearby.

Dan 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!

Dan Dobkin has managed to encompass in this book information that most people would take 15 to 20 years to learn. This book is useful not only for engineers researching wireless networks but also for the engineer/student that needs to understand the fundamentals of all aspects of radio systems. This really is a reference book to keep on the shelf ! The section on Antennas is particularly informative and should be read by all involved with the RF medium. Great work !

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