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By Farid Dowla

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Expert contributors drawn from the ranks of academia and industry have authored chapters in such areas as third-generation wireless, wireless sensor networks, RF power amplifiers, spread spectrum modulation, signal propagation, antennas, and other key subjects that engineers working in RF and wireless need to be familiar with.

This is far more than just a tutorial or reference guide?it is a "guided tour" through the world of cutting-edge RF and wireless design, combining theory, applications, and philosophies behind the RF/wireless design process. The multiple and sometimes overlapping chapters reiterate and emphasize the fundamentals in the context of different types of wireless applications.

Here are just a few benefits that readers will gain from reading this book:

- *A refresher and update of wireless principles and techniques.
- *Information about the latest (and forthcoming) RF and wireless circuits, products and systems.
- *Guidelines, approaches, and techniques to RF/wireless design.
- *Examples of typical applications with an emphasis on real-world situations including existing and forthcoming new components and integrated circuits.
- *Coverage of new and emerging wireless topics heretofore not widely covered in print (e.g. UWB, RFID, IR, etc.)
- * A comprehensive survey of current RF and wireless engineering practice
- * Heavy emphasis on practical applications and design guidelines
- * Multiple contributors assure a wide range of perspectives and avoids individual bias

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Handbook of RF and Wireless Technologies By Farid Dowla Bibliography

- Sales Rank: #3906107 in Books
- Brand: Brand: Newnes
- Published on: 2003-11-07
- Original language: English
- Number of items: 1
- Dimensions: 9.02" h x 1.19" w x 5.98" l, 2.13 pounds
- Binding: Hardcover
- 720 pages

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About the Author

Farid Dowla received his BS, MS, and PhD in electrical engineering from the Massachusetts Institute of Technology. He joined Lawrence Livermore National Laboratory shortly after receiving his doctorate in 1985. His research interests include adaptive filters, signal processing, wireless communication systems, and RF/mobile communication. He currently directs a research team focused on ultra-wideband RF radar and communication systems. Dowla is also an adjunct associate professor of electrical engineering at the University of California at Davis. He is a member of the Institute of Electrical and Electronic Engineers (IEEE) and Sigma Xi. He holds three patents in signal processing area, has authored a book on neural networks for the U.S. Department of Defense, and has edited a book on geophysical signal processing. He contributes to numerous IEEE and professional journals and is a frequent seminar participant at professional conferences.

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