



# RF Measurements for Cellular Phones and Wireless Data Systems

By Allen W. Scott, Rex Frobenius

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**RF Measurements for Cellular Phones and Wireless Data Systems** By Allen W. Scott, Rex Frobenius

**The only source for practical, real-world information on RF measurements for cellular phones and wireless data systems**

It is predicted that by the year 2010, all digital wireless communications equipment—including cellular, PCS, and 3G phones; wireless LANs; GPS navigation systems; and DBS TV—will have data transfer capabilities of over 1 Mbps. Now, as this significant turning point quickly approaches, this book presents everything industry professionals need to know about the Radio Frequency (RF) measurements and tests that must be made on this new generation of digital wireless communications equipment.

Presenting just enough theory as is absolutely required for comprehension, *RF Measurements for Cellular Phones and Wireless Data Systems*:

- Provides a review of basic RF principles and terminology
- Describes RF measurement equipment, including signal generators, power meters, frequency meters, vector network analyzers, spectrum analyzers, and vector signal analyzers
- Explains the RF devices that are used in cellular phones and wireless data transmission equipment—how they work, what their critical performance parameters are, how they're tested, and typical test results
- Illustrates the testing of RF devices and systems with digitally modulated signals that represent the voice, video, or data that the RF wave is carrying

*RF Measurements for Cellular Phones and Wireless Data Systems* has been written to serve as the industry standard for RF measurements and testing. It is an indispensable resource for engineers, technicians, and managers involved in the construction, installation, or maintenance of cell phones and wireless data equipment.



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## **Editorial Review**

### **Review**

"You cannot design or build anything without testing it. The test equipment manufacturers do a great job of providing equipment, but this book helps explain what the equipment is, how it works, and how to use it. It's a good addition to your wireless library." (*Electronic Design*, December 10, 2008)

### **From the Back Cover**

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### **About the Author**

**Allan W. Scott** is President of Scott Training Associates in Los Altos, California. He also serves as an instructor and curriculum developer for Besser Associates, the worldwide leader in RF/wireless training. He is the author of *Understanding Microwaves*, published by Wiley.

**Rex Frobenius** has been with Besser Associates for more than ten years, where he has been actively involved in course development for linear circuit design and test and measurement courses. He is also the author of several online utility software programs that are used to demonstrate fundamental RF principles.

## **Users Review**

### **From reader reviews:**

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