

# RF and Microwave Handbook

## Second Edition

By 1990 the wireless revolution had begun. In late 2000, Mike Golio gave the world a significant tool to use in this revolution: **The RF and Microwave Handbook**. Since then, wireless technology spread across the globe with unprecedented speed, fueled by 3G and 4G mobile technology and the proliferation of wireless LANs. Updated to reflect this tremendous growth, the second edition of this widely embraced, bestselling handbook divides its coverage conveniently into a set of three books, each focused on a particular aspect of the technology. Six new chapters cover WiMAX, broadband cable, bit error ratio (BER) testing, high-power PAs (power amplifiers), heterojunction bipolar transistors (HBTs), as well as an overview of microwave engineering.

Over 100 contributors, with diverse backgrounds in academic, industrial, government, manufacturing, design, and research reflect the breadth and depth of the field. This eclectic mix of contributors ensures that the coverage balances fundamental technical issues with the important business and marketing constraints that define commercial RF and microwave engineering. Focused chapters filled with formulas, charts, graphs, diagrams, and tables make the information easy to locate and apply to practical cases.

The new format, three tightly focused volumes, provides not only increased information but also ease of use. You can find the information you need quickly, without wading through material you don't immediately need, giving you access to the caliber of data you have come to expect in a much more user-friendly format.

### Features

- Discusses the fundamentals, technologies, and applications at the heart of modern wireless communications
- Includes four rewritten chapters, six entirely new chapters, and over 40 heavily updated chapters
- Covers applications and systems, passive and active technologies, and circuits, measurements, and modeling
- Discusses electromagnetic propagation at RF and microwave frequencies



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6000 Broken Sound Parkway, NW  
Suite 300, Boca Raton, FL 33487

270 Madison Avenue  
New York, NY 10016

2 Park Square, Milton Park  
Abingdon, Oxon OX14 4RN, UK

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