

# New and Featured Titles from Cambridge!

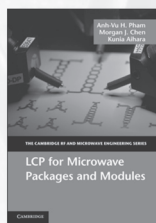
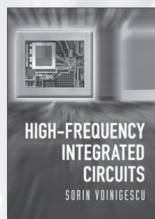
## The Cambridge RF and Microwave Engineering Series

*Coming Soon!*

### High-Frequency Integrated Circuits

Sorin Voinigesu

US\$95.00; Hb: 978-0-521-87302-4; 872 pp.



### LCP for Microwave Packages and Modules

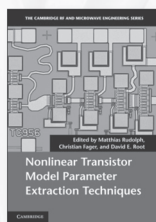
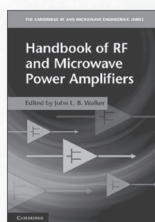
*Edited by Anh-Vu H. Pham, Morgan J. Chen, and Kunia Aihara*

US\$120.00; Hb: 978-1-107-00378-1; 266 pp.

### Handbook of RF and Microwave Power Amplifiers

*Edited by John L.B. Walker*

US\$150.00; Hb: 978-0-521-76010-2; 704 pp.



### Nonlinear Transistor Model Parameter Extraction Techniques

*Edited by Matthias Rudolph, Christian Fager, and David E. Root*

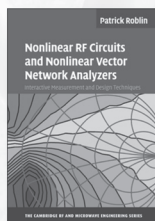
US\$130.00; Hb: 978-0-521-76210-6; 366 pp.

### Nonlinear RF Circuits and Nonlinear Vector Network Analyzers

Interactive Measurement and Design Techniques

Patrick Roblin

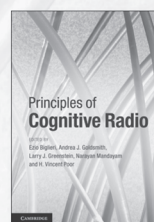
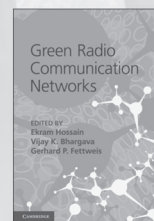
US\$125.00; Hb: 978-0-521-88995-7; 300 pp.



### Green Radio Communication Networks

*Edited by Ekram Hossain, Vijay K. Bhargava, and Gerhard P. Fettweis*

US\$125.00; Hb: 978-1-107-01754-2; 440 pp.



### Principles of Cognitive Radio

*Ezio Biglieri, Andrea Goldsmith, Larry J. Greenstein, Narayan Mandayam, and H. Vincent Poor*

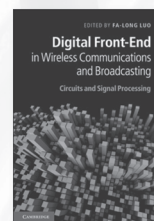
US\$95.00; Hb: 978-1-107-02875-3; 352 pp.

### Digital Front-End in Wireless Communications and Broadcasting

Circuits and Signal Processing

*Edited by Fa-Long Luo*

US\$165.00; Hb: 978-1-107-00213-5; 788 pp.



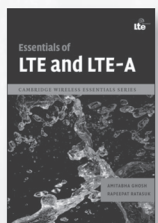
## Cambridge Wireless Essentials Series

*Coming Soon!*

### Essentials of Mobile Handset Design

Abhi Naha and Peter Whale

US\$65.00; Hb: 978-1-107-01004-8; 249 pp.



### Essentials of LTE and LTE-A

*Amitabha Ghosh and Rapeepat Ratasuk*

US\$65.00; Hb: 978-0-521-76870-2; 264 pp.

*Prices subject to change.*

Visit [www.cambridge.org/us/engineering](http://www.cambridge.org/us/engineering) to view our full Engineering catalog.

[www.cambridge.org/us/engineer](http://www.cambridge.org/us/engineer)

twitter @CambUP\_engineer

800.872.7423 (North America)

+44 1223 326050 (Europe, Middle East, and Africa)



CAMBRIDGE UNIVERSITY PRESS

INTERNATIONAL JOURNAL OF

**MICROWAVE AND WIRELESS TECHNOLOGIES****CONTENTS**

## RESEARCH PAPERS

**Front-end HPA/antenna for multi-radio**

Antoine M. Diet, Nicolas Ribière-Tharaud,  
Martine Villegas and Geneviève Baudoin 483

**Electrical modeling of packaged GaN HEMT dedicated to internal power matching in S-band**

Jérôme Chéron, Michel Campovecchio, Denis Barataud,  
Tibault Reveyrand, Michel Stanislawiak,  
Philippe Eudeline and Didier Floriot 495

**A high-speed buck converter for efficiency enhancement of W-CDMA power amplifiers**

Falk Haßler, Frank Ellinger, Udo Jörges, Robert Wolf  
and Bastian Lindner 505

**A new methodology for optimal RF DFT sensor design**

Conrado K. Mesadri, Aziz Doukkali, Philippe Descamps  
and Christophe Kelma 515

**Letter-shaped microstrip ground slots**

Amr M. E. Safwat 523

**Wideband and wide-angle flat Radomes using dielectric and ferrite layers**

Mohammad Khalaj-Amirhosseini and  
Sayed Mohammad Javad Razavi 529

**Simulation analysis and performance of a feasible GNSS system with multi-beam antennas deployment operating in Galileo frequency bands**

Constantinos T. Angelis 537

**Distillation of essential oil and simulation of electromagnetic power distribution in a microwave oven**

Mahit Gunes and Mehmet Hakki Alma 545

## INDUSTRIAL AND ENGINEERING PAPER

**Upgrade of the 88-Inch Cyclotron Power Amplifier**

Michel Kireeff Covo 553