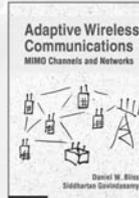


New and Featured Titles from Cambridge!

COMING SOON!

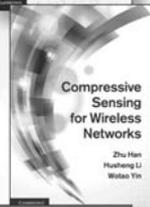
Adaptive Wireless Communications
MIMO Channels and Networks

Daniel W. Bliss and Siddharta Govindasamy
US\$110.00; Hb: 978-1-107-03320-7; 624 pp.



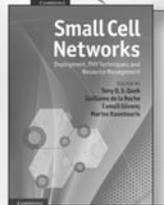
Compressive Sensing for Wireless Networks

Zhu Han, Husheng Li, and Wotao Yin
US\$110.00; Hb: 978-1-107-01883-9; 312 pp.



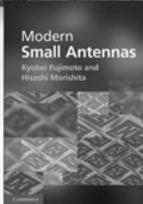
Small Cell Networks
Deployment, PHY Techniques, and Resource Management

Tony Q. S. Quek, Guillaume de la Roche, Ismail Güvenç, and Marios Kountouris
US\$125.00; Hb: 978-1-107-01678-1; 504 pp.



Modern Small Antennas

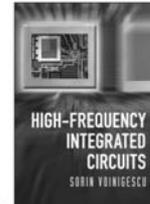
Kyohei Fujimoto and Hisashi Morishita
US\$110.00; Hb: 978-0-521-87786-2; 512 pp.



The Cambridge RF and Microwave Engineering Series

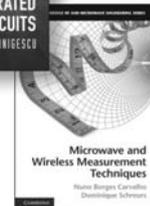
High-Frequency Integrated Circuits

Sorin Voinigescu
US\$95.00; Hb: 978-0-521-87302-4; 918 pp.



Microwave and Wireless Measurement Techniques

Nuno Borges Carvalho and Dominique Schreurs
US\$125.00; Hb: 978-1-107-00461-0; 400 pp.



Transmission Lines
Equivalent Circuits, Electromagnetic Theory, and Photons

Richard Collier
US\$95.00; 978-1-107-02600-1; 330 pp.

Nonlinear Transistor Model Parameter Extraction Techniques

Edited by Matthias Rudolph, Christian Fager, and David E. Root
US\$138.00; Hb: 978-0-521-76210-6; 366 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.

Nonlinear RF Circuits and Nonlinear Vector Network Analyzers
Interactive Measurement and Design Techniques

Patrick Roblin
US\$133.00; Hb: 978-0-521-88995-7; 300 pp.

Cambridge Wireless Essentials Series

Essentials of Positioning and Location Technology

David Bartlett
US\$65.00; Hb: 978-1-107-00621-8; 240 pp.



Essentials of Mobile Handset Design

Abhi Naha and Peter Whale
US\$65.00; Hb: 978-1-107-01004-8; 249 pp.



Announcing the EuMA High Frequency Technology Book Series

Wavelet Radio
Adaptive and Reconfigurable Wireless Systems Based on Wavelets

Homayoun Nikookar
US\$120.00; Hb: 978-1-107-01780-1; 216 pp.



Prices subject to change.

Visit www.cambridge.org/us/engineering to view our 2013 RF and Microwave Engineering catalog.

www.cambridge.org/us/engineer

@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**Special Issue: Special Issue on Power Amplifier Linearization****Guest Editors: John Wood and Eduard Beltrán****CONTENTS**

GUEST EDITORIAL

Special Issue on power amplifier linearization

John Wood and Eduard Beltrán 101

RESEARCH PAPERS

Sampling requirements for nonlinear basis waveforms used in digital predistortion and amplifier modeling

R. Neil Braithwaite 103

Application of embedding dimension estimation to Volterra series-based behavioral modeling and predistortion of wideband RF power amplifier

Bilel Fehri and Slim Boumaiza 115

New order selection technique using information criteria applied to SISO and MIMO systems predistortion

M.V. Amiri, S.A. Bassam, M. Helaoui and F.M. Ghannouchi 123

Non-analytic at the origin, behavioral models for active or passive non-linearity

Jacques Sombrin 133

INDUSTRIAL AND ENGINEERING PAPER

A multi-harmonic model taking into account coupling effects of long- and short-term memory in SSPAs

Christophe Maziere, Emmanuel Gatard, Cedric Enguehard and Bjorn Gustavsen 141

RESEARCH PAPERS

High-performance digital predistortion test platform development for wideband RF power amplifiers

Lei Guan, Ray Kearney, Chao Yu and Anding Zhu 149

Model order selection for digital predistortion of a RF power amplifier when the distortion spectrum exceeds the observation bandwidth

R. Neil Braithwaite 163

Digital predistortion of envelope-tracking power amplifiers under average power back-off and long-term average power efficiency for base-station applications

Jonmei J. Yan, Paul Draxler, Calogero D. Presti, Donald F. Kimball and Peter M. Asbeck 171

Ideal amplification of broadband signals

Ron Mccallister 179

Computationally efficient real-time digital predistortion architectures for envelope tracking power amplifiers

Pere L. Gilabert and Gabriel Montoro 187