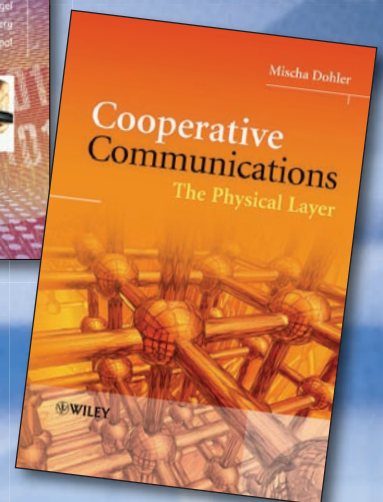
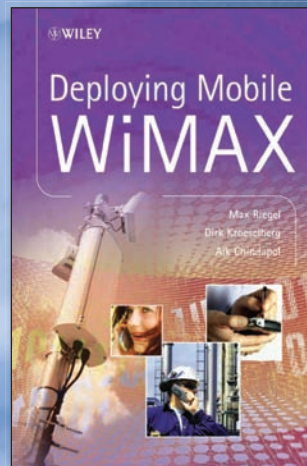
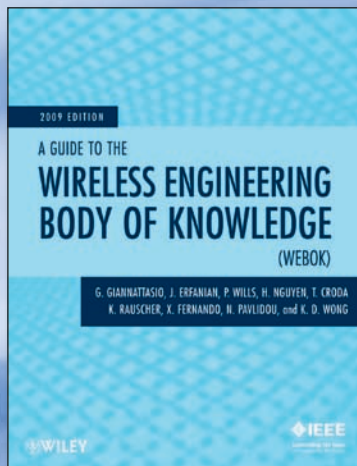
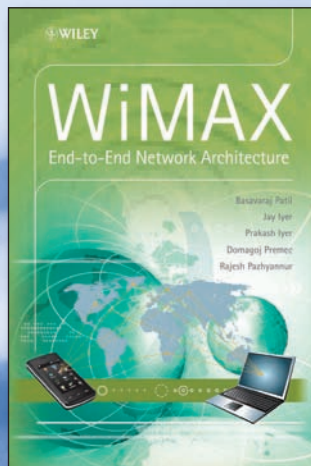


The Global View on Telecommunications

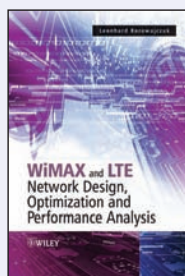
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WiMAX and LTE

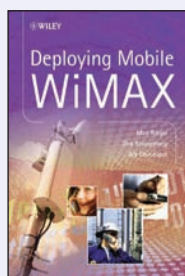
Network Design, Optimization and Performance Analysis

Leonhard Korowajczuk, CelPlan Technologies, Inc., Editor

Providing a step-by-step method to evolve current systems so as to enhance and optimize their future performance, this comprehensive analysis evaluates existing wireless network technology. Hot topics "neighborhood planning" and "footprint enhancement" are examined in conjunction with frequency and code optimization issues.

Hardcover 512 pp 2011 ISBN 978-0-470-74149-8 USD \$150.00

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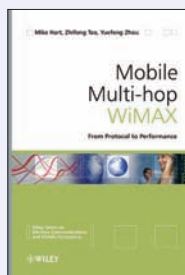


Deploying Mobile WiMAX

Max Riegel, Aik Chindapol, Dirk Kroeselberg; all of Nokia Siemens Networks

This book identifies and explains the technical challenges of integrating and deploying Mobile WiMAX. One of the first texts to explore links between the upper and lower WiMAX layers, this illustrated handbook provides the essential basic principles without overwhelming descriptions of every detail and option.

Hardcover 256 pp 2009 ISBN 978-0-470-69476-3 USD \$110.00



Mobile Multi-hop WiMAX

From Protocol to Performance

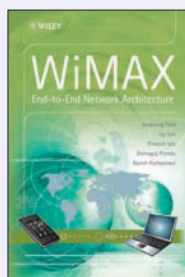
Michael Hart, Yuefeng Zhou, both of Fujitsu Laboratories of Europe Ltd; Zhifeng (Jeffrey) Tao, Mitsubishi Electric Research

This book provides a complete overview of multi-hop relay systems with a focus on IEEE 802.16j. Sections on performance and comparisons with other technologies provide good context for a reader who is not familiar with relay and with 802.16j.

WILEY SERIES ON WIRELESS COMMUNICATIONS AND MOBILE COMPUTING

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WiMAX

End-to-End Network Architecture

Basavaraj Patil, Domagoj Premec, both of Nokia Siemens Networks; Jay Iyer, Cisco Systems; Prakash Iyer, Intel Corp.

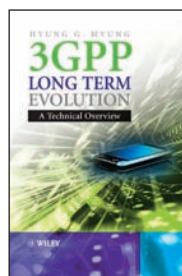
The complete end-to-end guide to the network architecture of WiMAX, with a special emphasis on the layers above the PHY and MAC.

Emphasizing network architecture, it features topics such as mobility, security, interworking, charging, QoS, and more.

Hardcover 416 pp 2010 ISBN 978-0-470-72523-8 USD \$120.00

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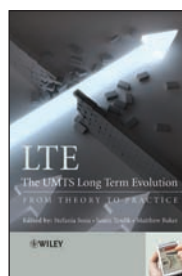
3GPP Long Term Evolution

A Technical Overview

Hyung G. Myung, QUALCOMM Flarion Technologies

This all-inclusive volume provides a complete explanation of the technical concepts adopted in the LTE standard. LTE is introduced in a logical and clear order for academics and professionals involved in digital communications and wireless cellular communications.

Hardcover 288 pp 2010 ISBN 978-0-470-74222-8 USD \$115.00



LTE, The UMTS Long Term Evolution

From Theory to Practice

Stefania Sesia, Issam Toufik, both of NXP Semiconductors; Matthew Baker, Alcatel-Lucent, UK; Editors

Presenting a thorough system-level understanding of the LTE by explaining the underlying theories behind it, *LTE* provides an accessible

and comprehensible description of the first release (and beyond) of the new LTE standard and the fundamental theoretical basis.

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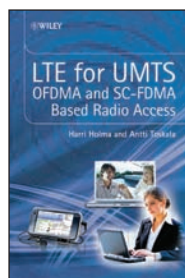
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LTE for UMTS

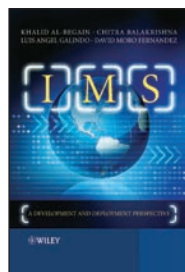
OFDMA and SC-FDMA Based Radio Access

Harri Holma, Antti Toskala, both of Nokia Siemens Networks, Finland; Editors

Here is your one-stop resource on LTE (Long Term Evolution). As one of the first books to market after the LTE L1 standard was finalized, this remarkable resource offers a complete overview of LTE for UMTS and includes chapters on MBMS, HSPA Evolution, and WiMAX.

Hardcover 450 pp 2009 ISBN 978-0-470-99401-6 USD \$120.00

Online Book See page 5 for more information. ISBN 978-0-470-74548-9



IMS

A Development and Deployment Perspective

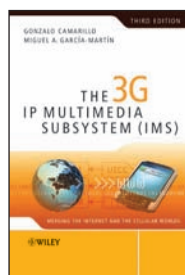
Khalid Al-Begain, Chitra Balakrishna, both of Univ. of Glamorgan, UK; Luis Angel Galindo, Telefónica Móviles España; David Moro Fernández, Telefónica I+D

Providing an holistic approach to IMS technologies, *IMS: A Development and Deployment Perspective* explores service architecture for development and delivery of IMS services. The

book offers a realistic view of IMS deployment, giving practical examples, application cases, and business models.

Hardcover 328 pp 2009 ISBN 978-0-470-74034-7 USD \$115.00

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The 3G IP Multimedia Subsystem (IMS)

Merging the Internet and the Cellular Worlds

THIRD EDITION

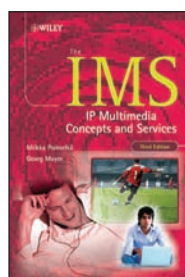
Gonzalo Camarillo, Miguel-Angel García-Martín, both of Ericsson

Fully updated and filled with brand new material, this third edition of the bestselling guide to IMS details the latest policy technology and security

architecture. New chapters cover multimedia conferencing, file transfer and SMS over IP, voice call continuity, and combinational services.

Hardcover 652 pp 2008 ISBN 978-0-470-51662-1 SD \$130.00

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The IMS

IP Multimedia Concepts and Services

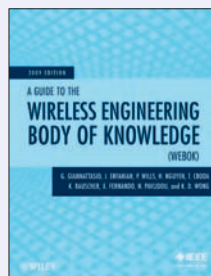
THIRD EDITION

Miikka Poikselka, Georg Mayer, both of Nokia

Building on the great success of the first two editions, *The IMS* provides comprehensive coverage of IMS. Fully revised and updated, this text includes several new chapters with special emphasis on services. A new companion Website enhances the Protocols section.

Hardcover 560 pp 2009 ISBN 978-0-470-72196-4 USD \$130.00

Online Book See page 5 for more information. ISBN 978-0-470-72297-8



A Guide to the Wireless Engineering Body of Knowledge (WEBOK)

IEEE Communications Society

The information presented in this book reflects the evolution of wireless technologies, their impact on the profession, and the industry's commonly accepted best practices.

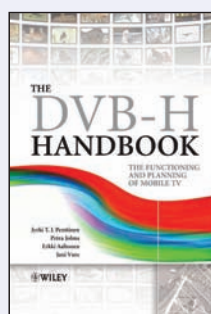
Organized into seven main areas of expertise,

A Guide to the Wireless Engineering Body of Knowledge (WEBOK) enhances readers' understanding of:

- Wireless access technologies
- Network and service architecture
- Network management and security
- Radio frequency engineering, propagation, and antennas
- Facilities infrastructure
- Agreements, standards, policies, and regulations
- Wireless engineering fundamentals

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The DVB-H Handbook

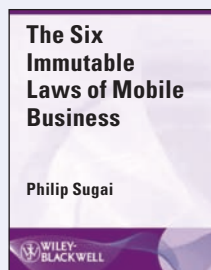
The Functioning and Planning of Mobile TV

Jyrki Penttinen, Petri Jolma, both of Nokia Siemens Networks; Erkki Aaltonen, Jani Väre, both of Nokia Corporation

This essential reference describes the principles and details of the DVB-H system, giving a complete picture of its background, functioning, planning and optimization. It

presents an overview of all aspects of the DVB-H system for the delivery of mobile TV services, with a particular emphasis on the technical aspects of implementing the system. Subjects such as signaling, coding, different modes for channel delivery and protection in core and radio system are explained in detail.

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The Six Immutable Laws of Mobile Business

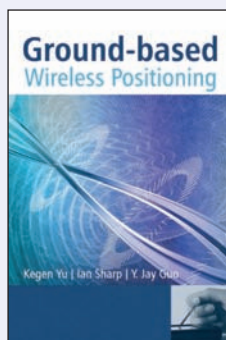
Philip Sugai, International Univ. of Japan

Through in-depth interviews with major players in this industry, such as Access, Bandai Networks, Matsumoto, Qualcomm, and Takahashi, the author describes the tremendous impact that the mobile and wireless industry has had on Japanese society. *The*

Six Immutable Laws of Mobile Business examines patterns from a technological and economic perspective, explains how the market has developed and grown successfully into a mature vital industry, and forecasts what is next.

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Online Book See page 5 for more information. ISBN 978-0-470-53021-4



Ground-based Wireless Positioning

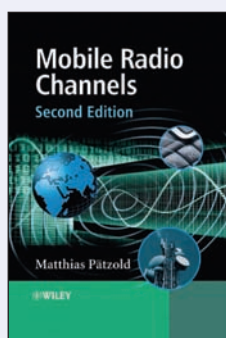
Kegen Yu, Ian Sharp, Jay Guo, *all of CSIRO ICT Centre*

Ground-based Wireless Positioning provides an in-depth treatment of non-GPS-based wireless positioning techniques, with a balance between theory and engineering practice. The book presents the architecture, design, and testing of a variety of wireless positioning systems based on the time-of-arrival, signal strength, and angle-

of-arrival measurements. A comprehensive study on the state-of-the-art techniques and methodologies in wireless positioning and tracking is provided, including anchor-based and anchor-free localization in wireless sensor networks (WSN).

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Mobile Radio Channels

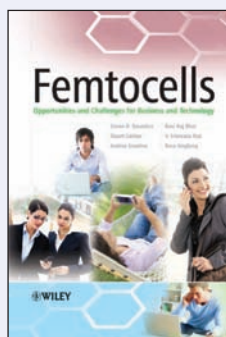
SECOND EDITION

Matthias Pätzold, *Agder Univ. College, Norway*

This book provides a fundamental understanding of key issues currently being investigated in the area of mobile fading channel modelling. New chapters in this second edition include Multiple-Input Multiple-Output (MIMO) channel models, selected topics in mobile fading channel

modelling, and methods for modelling of delay profiles.

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Femtocells

Opportunities and Challenges for Business and Technology

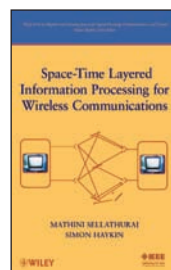
Simon Saunders, *Univ. of Surrey, UK*; Stuart Carlaw, *ABI Research*; Andrea Giustina, *Ubiquisys*; Ravi Rai Bhat, *V. Srinivasa Rao, both of Continuous Computing*; Rasa Siegborg

One of the first authoritative texts to concentrate on femtocells, this book outlines how wireless access points can be used by mobile operators to provide high-speed

wireless access, enhancing coverage and capacity and delivering entirely new services, while maximizing the benefits of licensed spectrum.

Paperback 252 pp 2009 ISBN 978-0-470-74816-9 USD \$69.95

Online Book See page 5 for more information. ISBN 978-0-470-74818-3



Space-Time Layered Information Processing for Wireless Communications

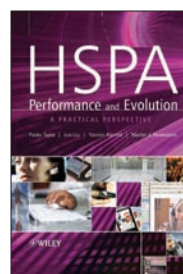
Mathini Sellathurai, Simon Haykin, *McMaster Univ., Canada*

Space-time communication is a hot topic in academia and industry. This comprehensive book provides coverage of cutting-edge research in the field, with an emphasis on Multiple-Input Multiple-Output (MIMO) wireless communication systems.

ADAPTIVE AND LEARNING SYSTEMS FOR SIGNAL PROCESSING, COMMUNICATIONS AND CONTROL SERIES

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HSPA Performance and Evolution

A Practical Perspective

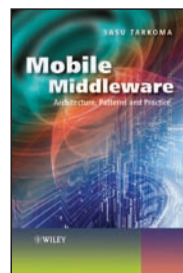
Pablo Tapia, Jun Liu, Yasmin Karimli, *all of T-Mobile*; Martin Feuerstein, *Polaris Wireless*

This useful reference incorporates real-world performance data and network optimization insights from a mobile operator's perspective and provides state-of-the-art insight to the performance

of HSDPA and HSUPA technology, including extensive documentation from real network trials.

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Mobile Middleware

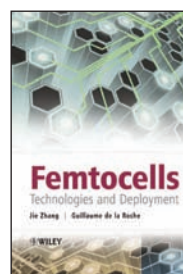
Supporting Applications and Services

Sasu Tarkoma, Jaakko Kangasharju, *both of Helsinki Univ. of Technology, Finland*

Presenting a unified treatment of three core topical areas (messaging, publish/subscribe, and data synchronization), *Mobile Middleware* provides a comprehensive overview of mobile middleware technology, including architectural patterns, middleware layering, data presentation, specific technological solutions, and standardization.

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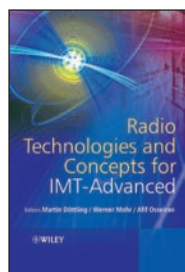
Femtocells

Technologies and Deployment

Jie Zhang, *Univ. of Bedfordshire, UK*

Femtocells: Technologies and Deployment is one of the first in-depth guides to femtocell technologies, providing a comprehensive reference on femtocells and related topics. It provides the latest research results on femtocells based on simulation and measurements.

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Radio Technologies and Concepts for IMT-Advanced

new

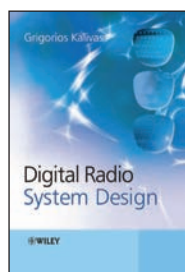
Martin Döttling, NSN; Werner Mohr, Ericsson Research; Editors

Afif Osseiran, NSN; Co-Editor

Radio Technologies and Concepts for IMT-Advanced presents the findings of the Wireless World Initiative New Radio (WINNER) project in Framework Program 6 of the European Commission. It provides an insight into the key concepts and technologies for the IMT-Advanced radio interface.

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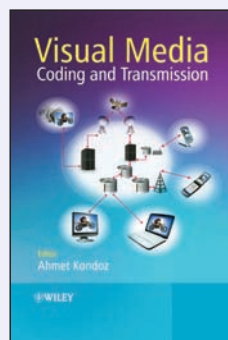
Digital Radio System Design

new

Grigorios Kalivas, Univ. of Patras, Greece

The first to provide a balanced treatment of transceivers as complete systems, this book provides the background to design and develop subsystems of a digital radio communication system or to integrate a full transceiver for a variety of applications.

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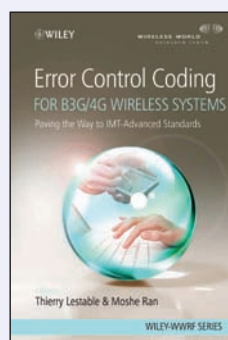
Visual Media Coding and Transmission

Ahmet Kondo, Univ. of Surrey, UK; Editor

Presenting the state-of-the-art in multimedia processing, coding, and security, this book examines the most current information essential for the study and development of multimedia communications technologies in the next five years and beyond. Coverage includes the latest multimedia signal processing and coding algorithms, network and information security, including DRM (digital rights management), coding techniques, multiple description coding, audio and video object detection, and network and information security.

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Error Control Coding for B3G/4G Wireless Systems

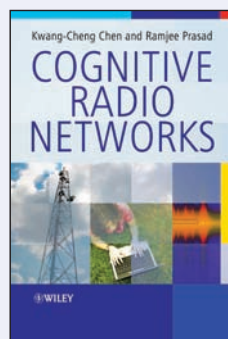
Paving the Way to IMT-Advanced Standards

Thierry Lestable, Samsung Electronics Research Institute; Moshe Ran, Holon Institute of Technology, Israel; Editors

Error Control Coding for B3G/4G Wireless Systems presents practical and clear information about the most promising technology trends in the field and how to implement them. Emphasizing how to apply advanced error control coding to

next generation wireless systems, targeting breakthrough enhancement requested by IMT-Advanced systems, the book identifies, describes, and makes accessible the latest trends in the field to both professionals and academics.

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Cognitive Radio Networks

Kwang-Cheng Chen, National Taiwan Univ.; Ramjee Prasad, Center for PersonKommunikation, Aalborg Univ., Denmark

This introductory-level text is one of the first books to provide a systematic description of the field. It provides a basic overview of the technologies supporting cognitive radio, a background of advances in the field of cognitive radios, and explores how these radios can work together as a network.

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Satellite Communications Systems

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FIFTH EDITION

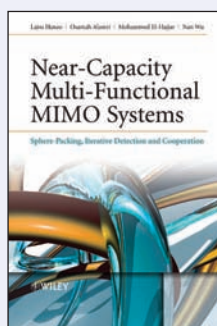
Gerard Maral, *ENST; Ecole Nationale Aeronautique et Espace*

Zhili Sun, *Univ. of Surrey, UK; Contributing Editor*

This revised and updated fifth edition covers the entire field of satellite communications engineering, from the techniques of

orbital mechanics and radio wave propagation to the design of communication links and earth stations. The new edition reflects recent developments in technologies and standards, with greater emphasis on techniques allowing service provision of multimedia contents, and material on recent standards in broadcasting such as DVB-RCS and DVB-S2.

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Near-Capacity Multi-Functional MIMO Systems

Sphere-Packing, Iterative Detection and Cooperation

Lajos Hanzo, Osamah Alamri, Mohammed El-Hajjar, Nan Wu, *all of Univ. of Southampton, UK*

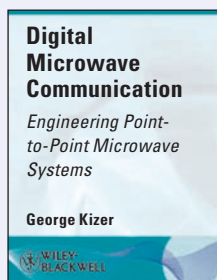
Providing a comprehensive view of techniques and recent advances in the field, this research-oriented book addresses the novel tool of Extrinsic Information Transfer

Charts (EXIT), which facilitates the design of transceivers operating arbitrarily close to the attainable system capacity. The only book available to cover EXIT, *Advanced Space-Time Coding* is logically presented to allow advanced readers to turn directly to any relevant chapter of interest.

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Digital Microwave Communication

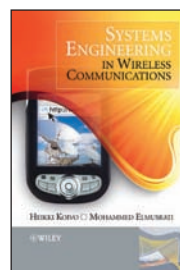
Engineering Point-to-Point Microwave Systems

George Kizer, *Consultant, USA*

Until now, no book has adequately treated all engineering aspects of microwave communications in the digital age. This important new work provides readers with the

depth of knowledge necessary for all the practical engineering details associated with fixed point-to-point microwave radio path design: the why, what, and how of microwave transmission; design objectives; engineering methodologies; and design philosophy—in the bid, design, and acceptance phase of the project.

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Systems Engineering in Wireless Communications

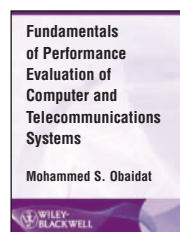
Heikki Niilo Koivo, *Helsinki Univ. of Technology, Finland; Mohammed Elmusrati, Vaasa Univ., Finland*

This accessible text covers a wide range of system engineering topics, from cellular radio systems and radio resource management to position location systems and network management.

It varies from other books on the market as it emphasizes the dynamic issues arising from mobile systems.

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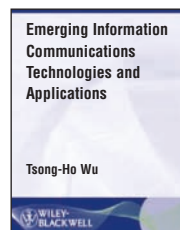
Fundamentals of Performance Evaluation of Computer and Telecommunications Systems

Mohammed S. Obaidat

This practical and applicable book presents all techniques of performance evaluation of computers, networks, and telecommunications in a balanced manner. An indispensable reference

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Emerging Information Communications Technologies and Applications

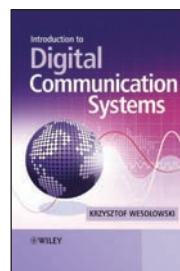
Tsong-Ho Wu

Establishing a clear picture of ICT technology evolution for better technology investment planning, this illuminating reference develops a network and service roadmap for emerging ICT

network/service planning using a cross-discipline collaboration for emerging ICT solution and application development.

INFORMATION AND COMMUNICATION TECHNOLOGY SERIES

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Introduction to Digital Communication Systems

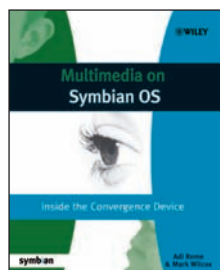
new

Krzysztof Wesolowski, *Poznan Univ. of Technology, Poland*

Covering modern topics in digital communication systems. Classical coding theory (block and convolutional codes, Galois fields, hard- and soft-decision decoding) is supplemented by descriptions of newer developments such as turbo-codes and Low Density Parity Check codes.

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Multimedia on Symbian OS

Inside the Convergence Device

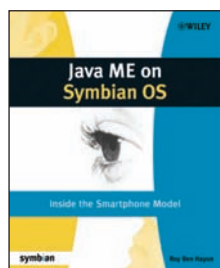
Adi Rome, Mark Wilcox

This is the only high-level book available to discuss multimedia on Symbian OS, covering key areas of the architecture of multimedia technology on Symbian OS C++, MMF Video and Audio. Current and informative, it presents code samples for the key

APIs with detailed descriptions.

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Java ME on Symbian OS

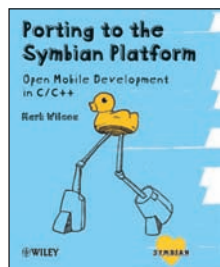
Inside the Smartphone Model

Roy Ben Hayun

Written by a team of experts from Symbian, Nokia, and Sun Microsystems, *Java ME on Symbian OS* reveals what can be found "under the hood" of the world's leading smartphone operating system.

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Porting to the Symbian Platform

Open Mobile Development in C/C++

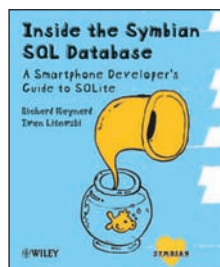
Mark Wilcox

First to market, this timely book examines the issues involved in porting and covers setting up the process, fixing problems, and highlighting common issues faced with Symbian OS when porting to include

resource limitations, device differences, common porting patterns, and designing code for multiple platforms.

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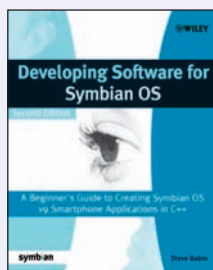
A Smartphone Developer's Guide to SQLite

Richard Maynard, Ivan Litovski, both of Symbian Software Ltd.

Inside the Symbian SQL Database is the only up-to-date reference book on using a SQL database in a mobile environment.

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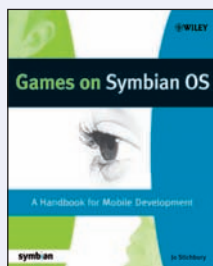
A Beginner's Guide to Creating Symbian OS v9 Smartphone Applications in C++

Steve Babin

The perfect introduction to Symbian OS, with comprehensive coverage of the key concepts of programming fully updated for Symbian OS v9. It shows how the Symbian OS architecture and programming style compare with other systems.

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Games on Symbian OS

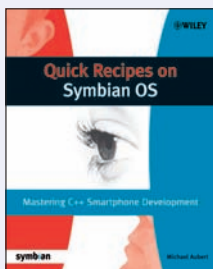
A Handbook for Mobile Development

Fadi Chehimi; Leon Clarke; Michael Coffey, Univ. of Wales, Swansea; Paul Coulton, Lancaster Univ., UK; Twm Davies; Roland Geisler; Nigel Hietala; Sam Mason; Peter Lykke Nielsen; Aleks Garo Pamir; Jo Stichbury, Independent

The only guide to highlight the gaming opportunities presented by the Symbian OS platform, with particular emphasis on creating mobile games in C++ using native APIs. The book presents how to create and play the games, clear code examples, and how to optimize code for best practice.

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Quick Recipes on Symbian OS

Mastering C++ Smartphone Development

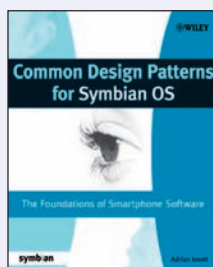
Michael Aubert

Serving as an entry point into the Symbian OS C++ development ecosystem, *Quick Recipes on Symbian OS* provides easy-to-use recipes for mastering common development tasks. The book's structured, time-focused approach to becoming familiar with the basics allows readers to get up and running quickly.

ers to get up and running quickly.

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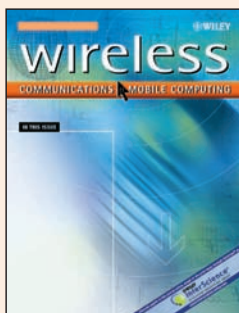
Common Design Patterns for Symbian OS

The Foundations of Smartphone Software

Adrian A. I. Issott, Symbian

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Wireless Communications and Mobile Computing

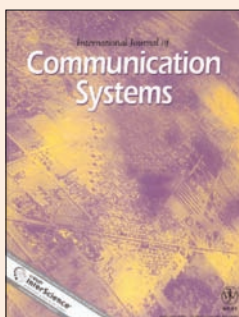
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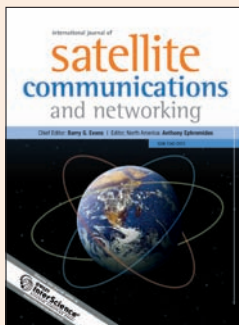
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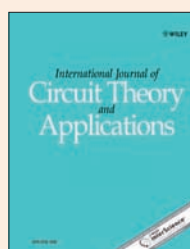


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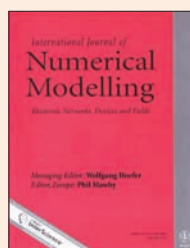


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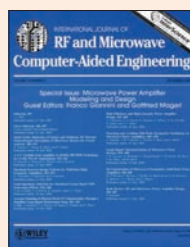


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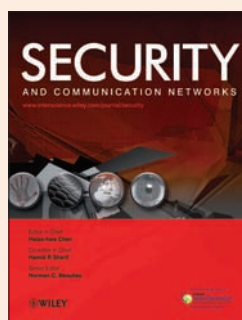


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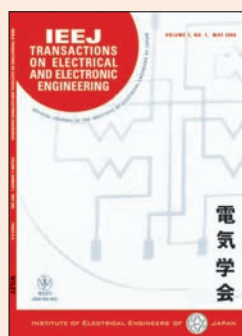
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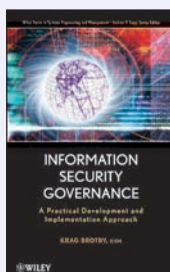
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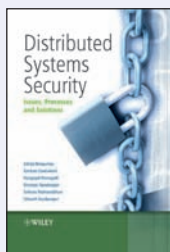
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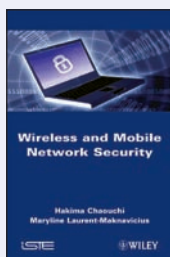
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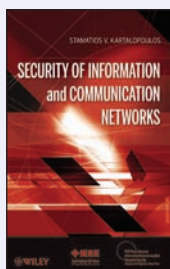
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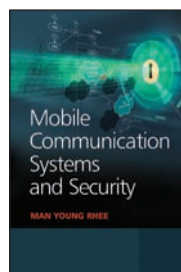


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Stamatis V. Kartalopoulos, *AT&T Bell Laboratories*

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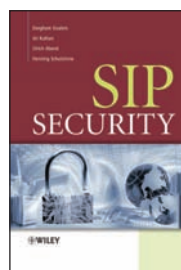


Mobile Communication Systems and Security

Man Young Rhee, *Seoul National Univ., Republic of Korea*

Covering technological development of wireless mobile communications in compliance with each iterative generation, this book presents the evolution and migration starting from 2G mobile radio technologies to 3G and beyond systems, largely covering packet-switched voice and data communications, with an emphasis on security layer protocols.

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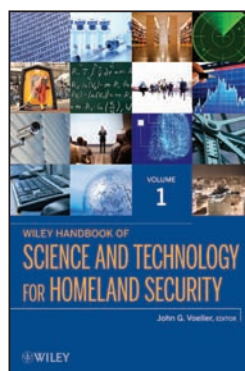
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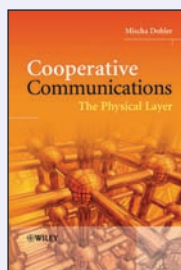
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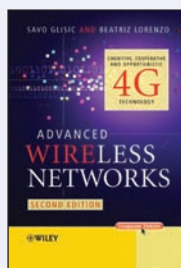
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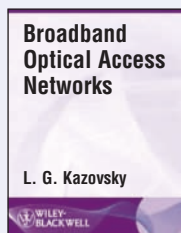
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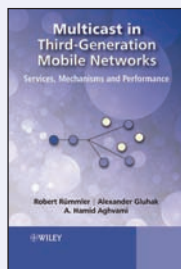


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L. G. Kazovsky, *Stanford Univ., USA*

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Services, Mechanisms and Performance

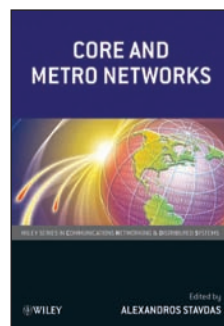
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Alexandros Stavdas, *National Technical Univ. of Athens, Greece*

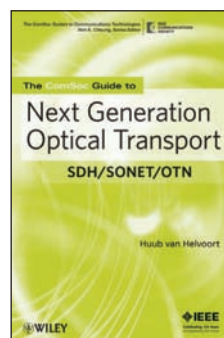
Written by leading practitioners from such cutting-edge companies as Alcatel, Siemens, Lucent, France Telecom, BT, and Telefonica, *Core and Metro Networks* provides a comprehensive overview of the status, the challenges, the architectures, and the technological solutions for core and metropolitan networks aiming to support broadband ser-

vices. Describing the state of the art of fixed communication networks, the text brims with today's hottest topics, including multi-hop optical networks and dynamic networks, as well as data-centric networks.

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The ComSoc Pocket Guide to Next Generation Optical Transport

SDH/SONET/OTN

Huub van Helvoort, *Senior Systems Architect, The Netherlands*

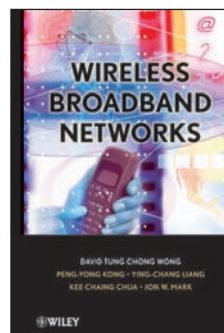
This is the perfect overview for anyone who is new to the field of SDH. Accessible and informative, it explains the multiplexing structures and methodologies used by these technologies designed around 1990, and fur-

ther covers the evolution towards the "Next Generation" SDH/SONET equipment and networks that support the transport of packet-based information developed around 2000. Written by one of the foremost experts and fully up-to-date with the latest research, it has an easy-to-understand format featuring 200 illustrations explaining key concepts.

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Wireless Broadband Networks

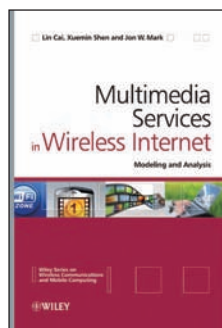
David T. Wong, Peng-Yong Kong, Ying-Chang Liang, all of the Institute for Infocomm Research, Singapore; Kee C. Chua, *National Research Foundation, Singapore*

This standard reference combines theory with advanced practical applications in wireless broadband networks. Covering important enabling technologies for wireless broadband networks including OFDM, MIMO, UWB, MAC, Mobility Resource

Management, Radio Resource Management, Routing and Quality of Service for Multimedia Services, this book also discusses the key theories underlying wireless broadband networks and shows readers how these theories are applied to real-world systems.

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Multimedia Services in Wireless Internet

Modeling and Analysis

Lin Cai, Univ. of Victoria, Canada; Xuemin Shen, Jon W. Mark, both of Univ. of Waterloo, Canada

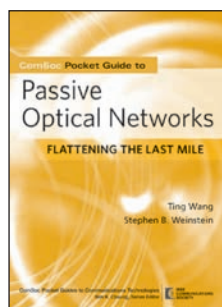
This book introduces the promising protocols for multimedia services and presents the analytical frameworks for measuring their performance in wireless networks. Timely issues such as IEEE

802.11, AIMD/RED, multimedia traffic models, congestion control, and random access networks are addressed.

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The ComSoc Pocket Guide to Passive Optical Networks

Flattening the Last Mile Access

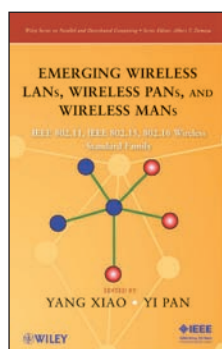
Stephen B. Weinstein, IEEE Fellow; Ting Wang, NEC Laboratories America, INC.

This book provides a brief, high-level overview of the technology and applications behind the Fiber-to-the-Home (FTTH) or Fiber-to-the-Curb (FTTC)

family of standards. The different types of PON architectures and standards, as well as key issues of PON devices, their management, and their implementation are reviewed.

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Emerging Wireless LANs, Wireless PANs, and Wireless MANs

IEEE 802.11™, IEEE 802.15™, IEEE 802.16™ Wireless Standard Family

Yang Xiao, Univ. of Memphis, USA; Yi Pan, Georgia State Univ., USA, Editors

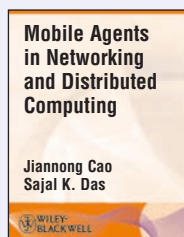
This book introduces current and emerging IEEE 802 wireless standards/drafts, including IEEE wireless standards (Wireless LANs, PANs, and MANs). It also examines MAC (medium access con-

trol) and the physical layer protocols for all these standards/drafts with an emphasis on channel access and power management.

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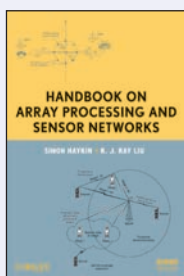
Mobile Agents in Networking and Distributed Computing

Jiannong Cao, Hong Kong Polytechnic Univ.; Sajal K. Das, Univ. of Texas at Arlington, USA

This book focuses on mobile agents, which are computer programs that can autonomously migrate between network sites. The text introduces the concepts and principles of mobile agents, provides an overview of mobile agent technology, and focuses on applications in networking and distributed computing.

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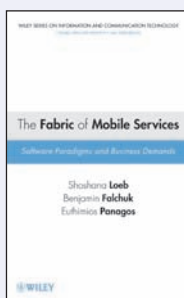
Handbook on Array Processing and Sensor Networks

Simon Haykin, McMaster Univ., Canada; K. J. Ray Liu, Univ. of Maryland, USA

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The Fabric of Mobile Services

Software Paradigms and Business Demands

Shoshana Loeb, Benjamin Falchuk, Thimios Panagos, all of Telecordia

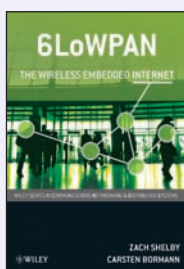
The Fabric of Mobile Services provides readers with a solid understanding of the subject, covering short- and long-term considerations and future trends that will shape this technological evolution. This encompassing title covers the business of mobile services, mobile user location, simplicity

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6LoWPAN

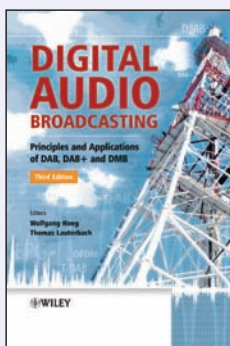
The Wireless Embedded Internet

Zach Shelby, Sensinode Ltd.; Carsten Bormann, Univ. Bremen, Germany; Geoff Mulligan, Proto6 LLC

Written by authors with vast experience in the field, both industrial and academic, this insightful title provides an overview of the 6LoWPAN standard, architecture, and related wireless and Internet technology. Coverage includes ISA100 and various operational topics such as bootstrapping, routing, security, and Internet integration.

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Digital Audio Broadcasting

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Principles and Applications of DAB, DAB+ and DMB

THIRD EDITION

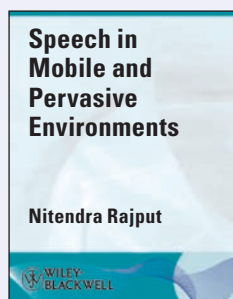
Wolfgang Hoeg, formerly at Deutsche Telekom Berkorn, Germany; Thomas Lauterbach, Univ. of Applied Science, Germany; Editors

The third edition of the "bible" in this field offers a comprehensive and fully updated overview of Digital Audio Broadcasting (DAB), its services, and applications. There are several

new sections in this must-have handbook, as well as a new chapter on Digital Multimedia Broadcasting (DMB). The book also contains all the latest updates on standards, which would be otherwise difficult to locate from various sources.

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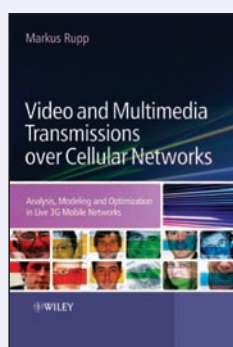
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Nitendra Rajput, IBM India Research Laboratory

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WIRELESS COMMUNICATIONS AND MOBILE COMPUTING

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Video and Multimedia Transmissions over Cellular Networks

Analysis, Modeling and Optimization in Live 3G Mobile Networks

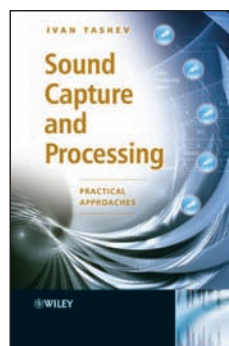
Markus Rupp, Vienna Univ. of Technology, Austria, Editor

Detailed analysis and optimization aspects of live 3G mobile communication networks

This excellent reference describes the state of the art in the transmission of multimedia over cellular networks, evaluates the performance of the running system based on the measurements and monitoring of live networks, and finally presents concepts and methods for improving quality in such systems.

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Sound Capture and Processing

new

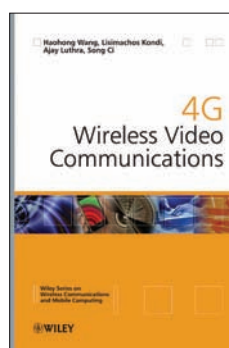
Practical Approaches

Ivan Jelev Tashev, Microsoft Research Group, USA

In next five to ten years, the mobile phones, portable media players, pocket PCs, and other portables will integrate further into one device. This book presents the digital signal processing algorithms and devices for capturing sounds, and enhancing them for achieving sufficient quality for the needs of real-time communication and speech recognition. It comes with a Matlab code (provided in an accompanying CD) that illustrates the algorithms discussed.

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Haohong Wang, Marvell Semiconductors; Lisimachos Kondi, Univ. of Ioannina, Greece; Ajay Luthra, Motorola Inc.; Song Ci, Univ. of Nebraska-Lincoln, USA

One of the first books to cover the latest developments for emerging systems in this promising area of research, *4G Wireless Video Communications* provides a comprehensive, integral presentation of the video communication techniques and systems for 4G wireless systems.

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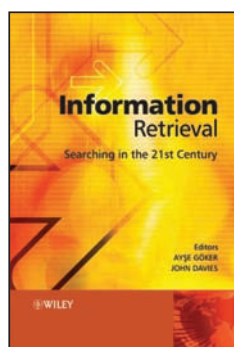
Mobile Handset Design

Sajal K. Das, Univ. of Texas at Arlington, USA

Based on the author's working experience as a design engineer at the world's top mobile phone and wireless component companies, this timely volume introduces mobile handset technologies. Das covers all aspects, from the basics of a mobile phone to mobile phone anatomy and its working principles up to 4G and beyond, demonstrating practical implementation of a mobile handset including hardware and software design details.

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Information Retrieval

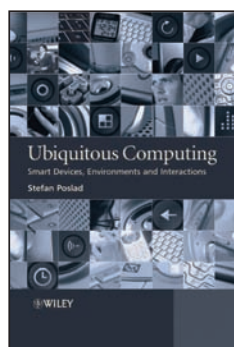
Searching in the 21st Century

Ayse Goker, City Univ., London, UK; John Davies, BTextact Technologies, UK; Editors

This worthwhile study provides a basis for understanding recent developments in the field and outlines directions for information search technologies. The text presents significant contributions to the research community and industry, covering topics such as the semantic search, natural language processing, parallel information retrieval, image and multimedia retrieval, text categorization, context technology, cross-language retrieval, and mobile information services. It is a balanced mixture of theory, practice, tools, and applications.

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Ubiquitous Computing

Smart Devices, Environments and Interactions

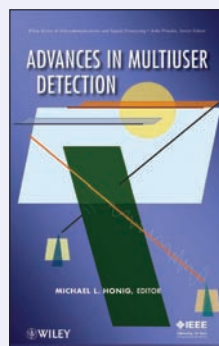
Stefan Poslad, Queen Mary, Univ. of London, UK

Bringing together an array of wireless technologies, *Ubiquitous Computing* provides a full introduction to this complex field. The text compiles current visions of mobile wireless networks and services, human-oriented but invisible artifacts, sensors and self-organizing P2P network models,

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Advances in Multiuser Detection

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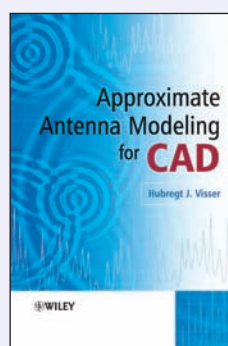
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Reflecting a number of crucial advances in the field, this book presents the latest on multiuser and joint detection techniques. Written by experts in the field, it provides in-depth coverage of topics such as fundamental limits, iterative techniques, performance with random signatures, multiuser detection with fading channels, and interference avoidance.

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Approximate Antenna Modeling for CAD

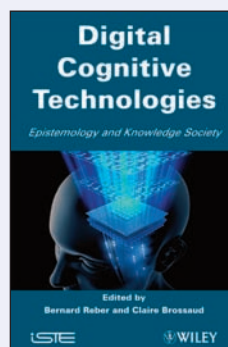
Hubregt Visser, Eindhoven Univ. of Technology, Netherlands

Emphasizing the practical use of antennas and models and not restricting antennas to single applications, this book examines various antennas for wireless and communications applications, each one linked to a specific application. Detailed information about the model development and the use of the developed models is given.

The text guides the reader through the design process of several antennas, including Intravascular MR antennas, Component antennas, PCB antennas, and RFID antennas.

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Claire Brossard, Barnard Reber

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