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The convergence of wireless
communication and the Internet is one of
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telecommunications industry. This book consists of a compilation of papers on key issues related to 3G and 4G wireless communications and wireless access to next generation Internet (NGI). Included in Multiaccess, Mobility and Teletraffic for Wireless Communications: Volume 5 are new results on space-time access

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Schemes that can dramatically increase the achievable bit rates of wireless systems, perhaps approaching bandwidth efficiencies in the order of 10 bits/s/Hz. The book also considers broadband wireless access to NGI. Effective management of radio resources in wireless systems is necessary for high spectral

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efficiency and to support mobility. This book treats issues relating to handoff and channel assignment in cellular frequency reuse systems. In order to achieve quality of service (QoS) expectations in a dynamically changing wireless environment, effective error and QoS control protocols are needed. To guarantee

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fairness in the access to resources,
medium access control (MAC) protocols
are needed. Optimization of network
resources traffic and mobility models are
also needed, along with effective call
admission control strategies. All of these
topics are covered herein. Finally, this
book considers future 3G and 4G wireless

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systems and highlights the critical challenges that must be overcome to make these systems a commercial reality.

Multiaccess, Mobility and Teletraffic for Wireless Communications: Volume 5 is an important book for researchers, students and professionals working in the area of wireless communications and mobile

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This book provides the reader with a complete coverage of radio resource management for 3G wireless communications Systems Engineering in

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Wireless Communications focuses on the area of radio resource management in third generation wireless communication systems from a systems engineering perspective. The authors provide an introduction into cellular radio systems as well as a review of radio resource management issues. Additionally, a

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detailed discussion of power control, handover, admission control, smart antennas, joint optimization of different radio resources , and cognitive radio networks is offered. This book differs from books currently available, with its emphasis on the dynamical issues arising from mobile nodes in the network. Well-

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known control techniques, such as least squares estimation, PID control, Kalman filters, adaptive control, and fuzzy logic are used throughout the book. Key Features: Covers radio resource management of third generation wireless communication systems at a systems level First book to address wireless communications issues

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using systems engineering methods Offers the latest research activity in the field of wireless communications, extending to the control engineering community Includes an accompanying website containing MATLABTM/SIMULINKTM exercises Provides illustrations of wireless networks This book will be a valuable reference for

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graduate and postgraduate students
studying wireless communications and
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Learn all you need to know about wireless
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Architectures for Wireless Sensor

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Networks provides a thorough description of the nuts and bolts of wireless sensor networks. The authors give an overview of the state-of-the-art, putting all the individual solutions into perspective with one and other. Numerous practical examples, case studies and illustrations demonstrate the theory, techniques and

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results presented. The clear chapter structure, listing learning objectives, outline and summarizing key points, help guide the reader expertly through the material. Protocols and Architectures for Wireless Sensor Networks: Covers architecture and communications protocols in detail with practical

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Implementation examples and case studies. Provides an understanding of mutual relationships and dependencies between different protocols and architectural decisions. Offers an in-depth investigation of relevant protocol mechanisms. Shows which protocols are suitable for which tasks within a wireless

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sensor network and in which
circumstances they perform efficiently.
Features an extensive website with the
bibliography, PowerPoint slides,
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This text provides academic researchers,
graduate students in computer science,
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formulas, comparisons etc. - all you need for a sound basis to start sensor network research." Prof. Jochen Schiller, Institute of Computer Science, Freie Universität Berlin

Future generations of wireless networks will place great demands on the

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performance of radio access technology.

This book describes the features of various mobile access technologies and assesses their strengths and weaknesses. In particular, it describes the underlying principles and practical implementation schemes for time division duplexing (TDD). The book begins with an overview

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of next generation wireless systems. It then describes the basics of duplex communication modes, interference in cellular systems, and multiple user access techniques. Focusing on TDD systems, dynamic channel assignment algorithms are discussed, as are multi-hop communications schemes, radio resource

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management, interference cancellation, and smart antennas. Real-world examples from UMTS, wireless LAN, and Bluetooth systems are described. The book is aimed at all those involved in the design and implementation of wireless systems, as well as at graduate students and researchers working in the area of wireless

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communications. For more information
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The Industrial Information Technology
Handbook focuses on existing and
emerging industrial applications of IT, and
on evolving trends that are driven by the
needs of companies and by industry-led

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consortia and organizations. Emphasizing fast growing areas that have major impacts on industrial automation and enterprise integration, the Handbook covers topics such as industrial communication technology, sensors, and embedded systems. The book is organized into two parts. Part 1 presents material covering

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new and quickly evolving aspects of IT. Part 2 introduces cutting-edge areas of industrial IT. The Handbook presents material in the form of tutorials, surveys, and technology overviews, combining fundamentals and advanced issues, with articles grouped into sections for a cohesive and comprehensive presentation.

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Considered a standard industry resource, the Embedded Systems Handbook provided researchers and technicians with the authoritative information needed to launch a wealth of diverse applications,

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Embedded Systems Handbook, Second Edition presents a comprehensive view on this area of computer engineering with a currently appropriate emphasis on developments in networking and applications. Those experts directly involved in the creation and evolution of the ideas and technologies presented offer

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tutorials, research surveys, and technology overviews that explore cutting-edge developments and deployments and identify potential trends. This second self-contained volume of the handbook, Network Embedded Systems, focuses on select application areas. It covers automotive field, industrial automation,

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Student literature on wireless sensor networks. This volume highlights implementations in fast-evolving areas which have not received proper coverage in other publications. Reflecting the unique functional requirements of different application areas, the contributors discuss inter-node

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communication aspects in the context of specific applications of networked embedded systems. Those looking for guidance on preliminary design of embedded systems should consult the first volume: Embedded Systems Design and Verification.

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textbook will be highly suitable for
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