

# **Mobile Broadband**

**Thomas Chapman,Erik Larsson,PETER von Wrycza,Erik  
Dahlman,Stefan Parkvall,Johan Skold**

*Mobile Broadband* Mustafa Ergen, 2009-04-05 This book addresses the emerging technology for Orthogonal Frequency Division Multiple Access (OFDMA), covering OFDMA physical layer as well as network technology. The book also includes information on IEEE 802.16e and WiMAX networks and also offers a comparison with other OFDMA technologies. OFDMA is the fastest growing area in the wireless marketplace, and the backbone of systems used in WiMAX. WiMAX is the technology that enables wireless users to communicate at any time from any location without having to find a WiFi hotspot.

**4G: LTE/LTE-Advanced for Mobile Broadband** Erik Dahlman, Stefan Parkvall, Johan Skold, 2013-10-07 This book focuses on LTE with full updates including LTE-Advanced (Release-11) to provide a complete picture of the LTE system. Detailed explanations are given for the latest LTE standards for radio interface architecture, the physical layer, access procedures, broadcast, relaying, spectrum and RF characteristics, and system performance. Key technologies presented include multi-carrier transmission, advanced single-carrier transmission, advanced receivers, OFDM, MIMO and adaptive antenna solutions, radio resource management and protocols, and different radio network architectures. Their role and use in the context of mobile broadband access in general is explained, giving both a high-level overview and more detailed step-by-step explanations. This book is a must-have resource for engineers and other professionals in the telecommunications industry, working with cellular or wireless broadband technologies, giving an understanding of how to utilize the new technology in order to stay ahead of the competition. New to this edition: In-depth description of CoMP and enhanced multi-antenna transmission including new reference-signal structures and feedback mechanisms Detailed description of the support for heterogeneous deployments provided by the latest 3GPP release Detailed description of new enhanced downlink control-channel structure (EPDCH) New RF configurations including operation in non-contiguous spectrum, multi-bands base stations and new frequency bands Overview of 5G as a set of well-integrated radio-access technologies, including support for higher frequency bands and flexible spectrum management, massive antenna configurations, and ultra-dense deployments Covers a complete update to the latest 3GPP Release-11 Two new chapters on HetNet, covering small cells/heterogeneous deployments, and CoMP, including Inter-site coordination Overview of current status of LTE release 12 including further enhancements of local-area, CoMP and multi-antenna transmission, Machine-type-communication, Device-to-device communication

*3G Evolution* Erik Dahlman, Stefan Parkvall, Johan Skold, Per Beming, 2010-07-28 Reflecting the recent completion of LTE's specification, the new edition of this bestseller has been fully updated to provide a complete picture of the LTE system. The latest LTE standards are included on the radio interface architecture, the physical layer, access procedures, MBMS, together with three brand new chapters on LTE Transmission Procedures, Flexible Bandwidth in LTE and LTE evolution into IMT-Advanced. Key technologies presented include multi-carrier transmission, advanced single-carrier transmission, advanced receivers, OFDM, MIMO and adaptive antenna solutions, advanced radio resource management and protocols, and different radio network architectures. Their role and use in the context of mobile broadband access in general is explained. Both a high-level overview and more detailed step-by-step explanations of HSPA and LTE implementation are given. An overview of other related systems such as TD SCDMA, CDMA2000, and WiMAX is also provided. The new edition has up-to-date coverage of the recently published LTE Release 8 radio-access standard, giving the reader insight into the ongoing and future process of LTE and LTE-Advanced standardisation. Coverage on LTE in this edition includes ( total of 270 pages on LTE): Easy-to-access overview of the LTE protocol layers Complete description of LTE physical layer including reference signals, control signalling, multi-antenna transmission schemes Covers both FDD and TDD, their

fundamental difference and their impact on the LTE design Detailed description of access procedures including cell search, random access, broadcast of system information Transmission procedures, including retransmission protocols, scheduling, uplink power control Evolution towards IMT-Advanced (4G) Reading a specification requires some effort. After reading the spec, you would know WHAT to transmit, but not WHY and HOW. This is where our book becomes important. Not only does it provide an easy-to-read description of the signals, procedures, and mechanisms in LTE, it also tells you WHY a certain signal, channel or procedure is present and HOW it is used. After reading the book, you will have a good understanding on how LTE works and why it is designed the way it is. - the authors The authors of the book all work at Ericsson Research and are deeply involved in 3G development and standardisation since the early days of 3G research. They are leading experts in the field and are today still actively contributing to the standardisation of both HSPA and LTE within 3GPP. This includes details of the standards and technologies (160 new pages): LTE radio interface architecture, LTE physical layer and LTE access procedures. Includes details of the standards and technologies (160 new pages): LTE radio interface architecture, LTE physical layer and LTE access procedures Contains three brand new chapters on LTE: Transmission Procedures, Flexible Bandwidth and LTE Evolution and expanded details on the physical layer (total LTE content is 270 pages) Examines the latest developments in the evolution of LTE into IMT-Advanced, the next stage of 3G Evolution Gives clear explanations of the role of OFDM and MIMO technologies in HSPA and LTE Outlines the System Architecture Evolution (SAE) supporting LTE and HSPA evolution

Mobile Broadband Multimedia Networks Luis M. Correia, 2010-07-26 Mobile Broadband Multimedia Networks: Techniques, Models and Tools for 4G provides the main results of the prestigious and well known European COST 273 research project on the development of next generation mobile and wireless communication systems. Based on the applied research of over 350 participants in academia and industry, this book focuses on the radio aspects of mobile and wireless broadband multimedia communications, by exploring and developing new methods, models, techniques, strategies and tools towards the implementation of 4th generation mobile and wireless communication systems. This complete reference includes topics ranging from transmission and signal processing techniques to antennas and diversity, ultra wide band, MIMO and reference scenarios for radio network simulation and evaluation. This book will be an ideal source of the latest developments in mobile multimedia broadband technologies for researchers, R&D engineers, graduates and engineers in industry implementing simulation models and conducting measurements. Based on the well known and respected research of the COST 273 project 'Towards Mobile Broadband Multimedia Networks', whose previous models have been adopted by standardisation bodies such as ITU, ETSI and 3GPP Gives methods, techniques, models and tools for developing 4th generation mobile and wireless communication systems Includes the latest development of key technologies and methods such as MIMO systems, ultra wide-band and OFDM

#### The Mobile Internet ,

*5G New Radio: Beyond Mobile Broadband* Amitav Mukherjee, 2019-10-31 Fifth-generation cellular radio access networks are currently being standardized as 5G New Radio (NR). The primary objectives of 5G NR are to provide enhanced mobile broadband (eMBB) and ultra-reliable low latency communication (URLLC) capabilities. This innovative resource analyzes these applications in detail to help readers understand how the flexible design of NR makes it suitable for a wide range of use cases and applications. The rationale behind the design decisions made during the NR standardization process are explored. Readers will be able to understand the performance limits of NR when applied to non-eMBB scenarios and how NR compares to 4G and IEEE 802.x connectivity solutions for such scenarios. The main features of 5G phase 2 are explored, as well as the use cases that can

be addressed by 5G phase 2. The mathematical models are included to help explain the future evolution of NR in Release 16 and beyond. This is the only book that describes both the standards features of NR and the mathematical models/open research issues for 5G, appealing to both industry practitioners and academic researchers.

*From GSM to LTE-Advanced Pro and 5G* Martin Sauter, 2021-01-20 A revised edition of the text that offers a comparative introduction to global wireless standards, technologies, and their applications The revised and updated fourth edition of *From GSM to LTE-Advanced Pro and 5G: An Introduction to Mobile Networks and Mobile Broadband* offers an authoritative guide to the technical descriptions of the various wireless technologies currently in use. The author—a noted expert on the topic—explains the rationale behind their differing mechanisms and implementations while exploring the advantages and limitations of each technology. The fourth edition reflects the significant changes in mobile network technology that have taken place since the third edition was published. The text offers a new chapter on 5G NR that explores its non-standalone and standalone architecture. In the Wi-Fi chapter, additional sections focus on the new WPA3 authentication protocol, the new 802.11ax air interface and protocol extensions like 802.11k and 11v for meshed networks. This important book: Presents the various systems based on the standards, their practical implementation and design assumptions, and their performance and capacity Provides an in-depth analysis of each system in practice Offers an updated edition of the most current changes to mobile network technology Includes questions at the end of each chapter and answers on the accompanying website that make this book ideal for self-study or as course material Written for students and professionals of wireless technologies, the revised fourth edition of *From GSM to LTE-Advanced Pro and 5G* provides an in-depth review and description of the most current mobile networks and broadband.

**OFDMA Mobile Broadband Communications** Junyi Li, Xinzhou Wu, Rajiv Laroia, 2013-01-17 The pioneers of Flash-OFDM present OFDMA from first principles, enabling readers to apply theory to practice and understand mobile broadband.

**HSPA Evolution** Thomas Chapman, Erik Larsson, PETER von Wrycza, Erik Dahlman, Stefan Parkvall, Johan Skold, 2014-11-24 This book is essential reading for those wishing to obtain a systems perspective and a broad view on the background, performance and application of the latest developments in HSPA in the context of the demands on today's mobile broadband devices and networks. It takes the reader behind the scenes of 3GPP and provides an easily accessible understanding of the basic principles, the latest steps in the standard's evolution, and the motivations behind the development of standardized features. It covers important topics such as smartphone related features, multi-carrier and multi-antenna operation, interface architecture, heterogeneous networks and HSPA system performance. Offering full coverage of recent developments in HSPA up to Release 13, this book will provide a comprehensive description of one of the dominating standards for mobile broadband. With this book, you will: Get a guided and consistent tour through the evolutionary stages of HSPA Gain an understanding of the 3GPP standardization process, the driving forces behind it, and the need for evolution Learn about the fundamental technology components of a modern wireless communication system, such as basic link level architecture, cellular system behavior, traffic management and scheduling and system management Learn in detail the features of the latest HSPA development up to Release 13 Gain a deep insight into the means by which HSPA performance can be simulated and characterized, the factors that drive the performance of networks and user experience, and the performance expectations for the technology Obtain insight into the telecommunications market and its evolution Learn about current trends and the future direction of HSPA A full insight into the 3GPP and regulatory standardisation processes and the factors that drive evolution of the specification A walk through of the fundamental technology principles that lie behind HSPA A structured overview of the

WCDMA/HSPA feature set, offering insider coverage starting from the core release 5/6 technologies and reviewing each of the added features up to and including the most recent developments in the area An overview of the frequency bands available for HSPA An insight into the radio performance requirements, their background and implications for mobiles and networks A tutorial on simulation principles for HSPA A description of the performance of HSPA features within the context of a tutorial on the factors that drive performance

*Mobile Broadband Communications for Public Safety* Ramon Ferrús, Oriol

Sallent, 2015-10-12 This book provides a timely and comprehensive overview of the introduction of LTE technology for PPDR communications. It describes the operational scenarios and emerging multimedia and data-centric applications in demand and discusses the main techno-economic drivers that are believed to be pivotal for an efficient and cost-effective delivery of mobile broadband PPDR communications. The capabilities and features of the LTE standard for improved support of mission-critical communications (e.g., proximity services, group communications) are covered in detail. Also, different network implementation options to deliver mobile broadband PPDR communications services over dedicated or commercial LTE-based networks are discussed, including the applicability of the Mobile Virtual Network Operator (MVNO) model and other hybrid models. Radio spectrum matters are also discussed in depth, outlining spectrum needs and providing an outlook into allocated and candidate spectrum bands for PPDR communications and suitable dynamic spectrum sharing solutions in PPDR communications. Explanations are accompanied by a vast collection of references that allow the more intrigued reader to gain further insight into the addressed topics.

*Mobile broadband multimedia networks* Luis M. Correia, 2006 Mobile Broadband

Multimedia Networks: Techniques, Models and Tools for 4th Generation Communication Networks provides the main results of the prestigious and well known European COST 273 research project on the development of next generation mobile and wireless communication systems. Based on the applied research of over 350 participants in academia and industry, this book focuses on the radio aspects of mobile and wireless broadband multimedia communications, by exploring and developing new methods, models, techniques, strategies and tools towards the implementation of 4th generation mobile and wireless communication systems. This complete reference includes topics ranging from transmission and signal processing techniques to antennas and diversity, ultra wide band, MIMO and reference scenarios for radio network simulation and evaluation. This book will be an ideal source of the latest developments in mobile multimedia broadband technologies for researchers, R&D engineers, graduates and engineers in industry implementing simulation models and conducting measurements. \* Based on the well known and respected research of the COST 273 project Towards Mobile Broadband Multimedia Networks', whose previous models have been adopted by standardisation bodies such as ITU, ETSI and 3GPP \* Gives methods, techniques, models and tools for developing 4th generation mobile and wireless communication systems \* Includes the latest development of key technologies and methods such as MIMO systems, ultra wide-band and OFDM

**EPC and 4G Packet Networks** Magnus Olsson, Catherine Mulligan, 2012-11-28 Offers detailed insight into the Evolved Packet Core (EPC) that covers the standards and industry developments. This book describes and explains the entire EPC including architecture, features and protocols, giving you the knowledge and insight to see the potential in EPC, develop EPC products and deploy LTE/EPC mobile broadband Networks.

*Mobile Broadband* Mustafa Ergen, 2014-06-30

LTE for 4G Mobile Broadband Farooq Khan, 2009-03-26 Understand the new technologies of the LTE standard and their impact on system performance improvements with this practical guide.

**Wireless Broadband Networks** David T. Wong, Peng-Yong Kong, Ying-Chang

Liang, Kee C. Chua, 2009-04-01 An introduction to theories and applications in wireless broadband networks As wireless broadband networks evolve into future generation wireless networks, it's important for students, researchers, and professionals to have a solid understanding of their underlying theories and practical applications. Divided into two parts, the book presents: Enabling Technologies for Wireless Broadband Networks—orthogonal frequency-division multiplexing and other block-based transmissions; multi-input/multi-output antenna systems; ultra-wideband; medium access control; mobility resource management; routing protocols for multi-hop wireless broadband networks; radio resource management for wireless broadband networks; and quality of service for multimedia services Systems for Wireless Broadband Networks—long-term evolution cellular networks; wireless broadband networking with WiMax; wireless local area networks; wireless personal area networks; and convergence of networks Each chapter begins with an introduction and ends with a summary, appendix, and a list of resources for readers who would like to explore the subjects in greater depth. The book is an ideal resource for researchers in electrical engineering and computer science and an excellent textbook for electrical engineering and computer science courses at the advanced undergraduate and graduate levels.

*SAE and the Evolved Packet Core* Magnus Olsson, Catherine Mulligan, Stefan Rommer, Shabnam Sultana, Lars Frid, 2009-08-01 This book provides a clear, concise, complete and authoritative introduction to System Architecture Evolution (SAE) standardization work and its main outcome: the Evolved Packet Core (EPC), including potential services and operational scenarios. After providing an insightful overview of SAE's historical development, the book gives detailed explanations of the EPC architecture and key concepts as an introduction. In-depth technical descriptions of EPC follow, including thorough functional accounts of the different components of EPC, protocols, network entities and procedures. Case studies of deployment scenarios show how the functions described within EPC are placed within a live network context, while a description of the services that are predicted to be used shows what EPC as a core network can enable. This book is an essential resource for professionals and students who need to understand the latest developments in SAE and EPC, the 'engine' that connects broadband access to the internet. All of the authors have from their positions with Ericsson been actively involved in GPRS, SAE and 3GPP from a business and technical perspective for many years. Several of the authors have also been actively driving the standardization efforts within 3GPP. There is no doubt that this book, which appears just when the mobile industry starts its transition away from legacy GSM/GPRS and UMTS networks into the future will become the reference work on SAE/LTE. There are no better qualified persons than the authors of this book to provide both communication professionals and an interested general public with insights into the inner workings of SAE/LTE. Not only are they associated with one of the largest mobile network equipment vendors in the world, they have all actively contributed to and, in some cases, been the driving forces behind the development of SAE/LTE within 3GPP. - from the foreword by Dr. Ulf Nilsson, TeliaSonera R&D, Mobility Core and Connectivity The authors have done an excellent job in writing this book. Their familiarity with the requirements, concepts and solution alternatives, as well as the standardization work allows them to present the material in a way that provides easy communication between Architecture and Standards groups and Planning/ Operational groups within service provider organizations. - from the foreword by Dr. Kalyani Bogineni, Principal Architect, Verizon Up-to-date coverage of SAE including the latest standards development Easily accessible overview of the architecture and concepts defined by SAE Thorough description of the Evolved Packet Core for LTE, fixed and other wireless accesses Comprehensive explanation of SAE key concepts, security and Quality-of-Service Covers potential service and operator scenarios including interworking with existing 3GPP and 3GPP2 systems

Detailed walkthrough of network entities, protocols and procedures Written by established experts in the SAE standardization process, all of whom have extensive experience and understanding of its goals, history and vision

**From GSM to LTE** Martin Sauter, 2010-12-30 A new edition of Wiley's Communication Systems for the Mobile Information Society, from the same author Wireless systems such as GSM, UMTS, LTE, WiMAX, Wi-Fi and Bluetooth offer possibilities to keep people connected while on the move. In this flood of technology, From GSM to LTE: An Introduction to Mobile Networks and Mobile Broadband enables readers to examine and understand each technology, and how to utilise several different systems for the best results. This book contains not only a technical description of the different wireless systems available today, but also explains the rationale behind the different mechanisms and implementations; not only the 'how' but also the 'why' is focused on. Thus the advantages and also limitations of each technology become apparent. Offering a solid introduction to major global wireless standards and comparisons of the different wireless technologies and their applications, this new edition has been updated to provide the latest directions and activities in 3GPP standardization reaching up to Release 10, and importantly includes a new chapter on LTE. The new LTE chapter covers aspects such as Mobility Management and Power Optimization, Voice over LTE, and Air Interface and Radio Network. Provides readers with an introduction to major global wireless standards and compares the different wireless technologies and their applications The performance and capacity of each system in practice is analyzed and explained, accompanied with practical tips on how to discover the functionality of different networks Offers approximately 25% new material, which includes a major new chapter on LTE and updates to the existing material including Release 4 BICN in relation to GSM Questions at the end of each chapter and answers on the accompanying website (<http://www.wirelessmoves.com>) make this book ideal for self study or as course material

**From Gsm to Lte-advanced** Martin Sauter, 2014 This revised edition of Communication Systems from GSM to LTE: An Introduction to Mobile Networks and Mobile Broadband Second Edition (Wiley 2010) contains not only a technical description of the different wireless systems available today, but also explains the rationale behind the different mechanisms and implementations; not only the 'how' but also the 'why'. In this way, the advantages and also limitations of each technology become apparent. Offering a solid introduction to major global wireless standards and comparisons of the different wireless technologies and their applications, this edition has been updated to provide the latest directions and activities in 3GPP standardization up to Release 12, and importantly includes a new chapter on Voice over LTE (VoLTE). There are new sections on Building Blocks of a Voice Centric Device, Building Blocks of a Smart Phone, Fast Dormancy, IMS and High-Speed Downlink Packet Access, and Wi-Fi-Protected Setup. Other sections have been considerably updated in places reflecting the current state of the technology. Describes the different systems based on the standards, their practical implementation and design assumptions, and the performance and capacity of each system in practice is analyzed and explained Questions at the end of each chapter and answers on the accompanying website make this book ideal for self-study or as course material.

*Future Fixed and Mobile Broadband Internet, Clouds, and IoT/AI* Toni Janevski, 2024-04-08 FUTURE FIXED AND MOBILE BROADBAND INTERNET, CLOUDS, AND IoT/AI All-in-one resource on the development of Internet and telecoms worldwide, based on the technological frameworks as defined by the ITU Future Fixed and Mobile Broadband Internet, Clouds, and IoT/AI is a highly comprehensive resource that provides full coverage of existing and future fixed and mobile broadband networks, internet, and telecom and OTT services. This book explains how to perform technical, business, and regulatory analysis for future 5G-Advanced, 6G, WiFi, and optical access. This book also covers optical transport, submarine cable, future satellite broadband, cloud computing, massive and critical IoT and

frameworks and use of AI / ML in telecommunications. Topics covered include: Internet technologies, IPv6, QUIC, DNS, IPX, QoS in Internet/IP, cybersecurity, future Internet 2030, Internet governance Future metallic and optical broadband, carrier-grade Ethernet, SD-WAN, OTN, submarine cable, satellite broadband, business and regulation of broadband Future mobile and wireless broadband, 5G-Advanced, 5G/6G spectrum management, 5G Non-Terrestrial Networks, QoS, 6G/IMT-2030, WiFi 7 (802.11.be), mobile business and regulatory aspects Cloud computing architectures and service models, MLaaS, BaaS, future OTT and telecom cloud services, business and regulation of clouds Future voice, future TV, XR/AR/VR, critical IoT/AI services, future OTT services, metaverse, network neutrality, future digital economy and markets Future Fixed and Mobile Broadband Internet, Clouds, and IoT/AI is an essential reference for government officials and regulators, business leaders, engineers, managers, and employees in the telecommunications industry, ICT business professionals, and students in telecommunications.

**Deploying IPv6 in 3GPP Networks** Jouni Korhonen, Teemu Savolainen, Jonne Soininen, 2013-04-01 Deploying IPv6 in 3GPP Networks – Evolving Mobile Broadband from 2G to LTE and Beyond A practical guide enabling mobile operators to deploy IPv6 with confidence The most widely used cellular mobile broadband network technology is based on the 3GPP standards. The history and background of the 3GPP technology is in the Global Mobile Service (GSM) technology and the work done in European Telecommunications Standards Institute (ETSI). This primary voice service network has evolved to be the dominant mobile Internet access technology. Deploying IPv6 in 3GPP Networks covers how Internet Protocol version 6 (IPv6) is currently defined in the industry standards for cellular mobile broadband, why and how this route was taken in the technology, and what is the current reality of the deployment. Furthermore, it offers the authors' views on how some possible IPv6 related advances 3GPP networks may be improved during the coming years. It gives guidance how to implement and deploy IPv6 correctly in the Third Generation Partnership Project (3GPP) mobile broadband environment, and what issues one may face when doing so. The book covers 3GPP technologies from 2G to LTE, and offers some ideas for the future. Key features written by highly respected and experienced authors from the IPv6 / mobile world Provides an explanation of the technical background for some not-so-obvious design choices, what to concentrate on, and what transition strategies should be used by the vendors and the operators Offers a useful reference guide for operators and vendors entering into IPv6 business

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