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Geoff Varrall, Roger Belcher

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

3G Marketing Tomi T. Ahonen, Timo Kasper, Sara Melkko, 2005-07-08 Next generation wireless is not about technology, it is all about marketing.... What is the service offering rather than the features of the latest handset? Who are the customers and which are the most profitable? How do you identify

and market to communities? How do you tariff for profit? If you need to know the answers and more, you really need to read this book. In the 1990s mobile operators underutilized marketing and only focused on rapid expansion of capacity and connecting new subscribers. Today, with the mobile services industry more mature and competitive, the authors unveil how more modern marketing is needed for success both in market share and profitability. 3G Marketing explains the role of early adopters, communities, reachability, brands, portals, and handsets to 3G success. It shows how success in 3G is dependent on successfully building strategic partnerships by covering issues from market intelligence to sales channel support. Aimed at the non-technical person, this authoritative resource gives clear and practical advice on how to use modern marketing methods to promote and sell mobile services. It provides a perfect and invaluable introduction for anybody entering mobile telecoms or companies faced with the need to partner with operators as crucially, it explains how services and applications can be brought to the market in the fiercely competitive 3G marketplace.

Wireless Network Evolution: 2G to 3G Garg, 2002-09

3G Wireless Networks Clint Smith, Daniel Collins, 2001-10-09 Real-world instruction in the design and deployment of 3G networks Pin down the technical details that make 3G wireless networking actually work. In 3G Wireless Networks, experts Clint Smith and Daniel Collins dissect critical issues of compatibility, internetworking, and voice/data convergence, providing you with in-depth explanations of how key standards and protocols intersect and interconnect. This guide digs into the gritty details of day-to-day network operations, giving you a chance to understand the difficulties service providers will experience in making the changeover from 2nd Generation systems (CDMS etc.) to 2.5 Generation systems like WAP and EDGE and finally to full throttle 3G networks. It describes key standards, digs deep into the guts of relevant network protocols, and details the full range of compatibility issues between the US (CDMA 2000) and European (WCDMA) versions of the standard. Plenty of call flow diagrams show you exactly how the technologies work.

3G Handset and Network Design Geoff Varrall, Roger Belcher, 2003-03-11 Third Generation (3G) wireless networks are in the works in Europe and Asia, and 2.5G networks that incorporate some 3G features are being rolled out in the United States Hands-on guide to integrating cell phone or PDA/portable PC products with present and future wireless network hardware Addresses topics such as quality of service (QoS) and service level agreements (SLAs) from a wireless perspective Presents an in-depth review of both handset and network hardware and software

Introduction to 3G Mobile Communications Juha Korhonen, 2003 This revised edition provides professionals with an up-to-date introduction to third generation (3G) mobile communication system principles, concepts, and applications, without the use of advanced mathematics. This newly revised edition of an Artech House bestseller provides professionals with an up-to-date introduction to third generation (3G) mobile communication system principles, concepts, and applications, without the use of advanced mathematics. The second edition includes an even more thorough treatment of potential 3G applications and descriptions of new, emerging technologies.

Evolution of 3G Networks Gottfried Punz, 2009-12-16 In this chapter we describe the motivation for writing this book and explain its scope. Some

remarks on nomenclature are given in order to help the reader with a fast and easy start. The concept and structure of the material compiled is presented, followed by some hints on how to make best use of it. Finally the status of standardization, on which this book is based, is described.

1.1 Motivation

Probably the main motivation for starting to draft the script for this book, and eventually to finish it, was the desire to have a more or less complete, up-to-date overview of mobile network technology for myself, not only when starting my work in 3GPP standardization, but also continuously afterwards. I realized that some of my colleagues were in search of the same, and I extrapolated to the point where, after 3G technology is in the field for some time, the huge, new step of development would be implemented and finally exist in reality: a manifold of system designers, SW engineers, solution consultants, test personnel, field technicians and service staff would have to deal with the underlying architecture, concepts and detailed procedures. Yet, I noticed in my roughly two decades of work as an engineer (in a few diverse fields) that compact, consistent, and balanced overview material, suitable for the wider audience is scarce.

Services for UMTS Tomi T. Ahonen, Joe Barrett, 2004-08-20 UMTS is not about Technology, it is about Services... The UMTS or 3G environment is the ultimate convergence of fixed and mobile, voice and data, content and delivery. The result will be the largest and most complex communications system that man has designed. If you want a challenge then this is the industry to be in. *Services for UMTS* (Universal Mobile Telecommunication System) or 3G (3rd Generation mobile networks) is a book about the near future, where UMTS allows mobile phones and other devices for communication, entertainment, personalised services, utility and fun to be used in new ways. While it is difficult to predict the potential of UMTS in the future in a precise way, broad categories and general service ideas are emerging. This book looks at over 200 of these possible applications and provides more detailed scenarios for over 100 of them. It explores these ideas in depth, with suggestions on how to create exciting and viable services for a new world. This book intends to answer many of the current UMTS service questions as well as introduce new ideas and concepts to enable operators to create a winning UMTS services strategy.

- * What should the focus of service creation be to ensure early time to profit in UMTS?
- * What are the key market segments that should be addressed with UMTS services?
- * Is there a killer application or applications that will revolutionise the industry?
- * What are the differentiating factors that will separate the leaders from the UMTS pack?
- * 15 aspects of the business analyzed by value chains and business models
- * The 5 M's of successful UMTS Service Definition

Written for the non-technical reader and with a strong business focus, *Services for UMTS* is a must-read for anybody wanting to enter the UMTS environment, make money in it, or to understand it.

3G, 4G and Beyond Martin Sauter, 2013-01-04 Extensively updated evaluation of current and future network technologies, applications and devices This book follows on from its successful predecessor with an introduction to next generation network technologies, mobile devices, voice and multimedia services and the mobile web 2.0. Giving a sound technical introduction to 3GPP wireless systems, this book explains the decisions taken during standardization of the most popular wireless network standards today, LTE, LTE-Advanced and HSPA+. It discusses how these elements strongly influence

each other and how network capabilities, available bandwidth, mobile device capabilities and new application concepts will shape the way we communicate in the future. This Second Edition presents a comprehensive and broad-reaching examination of a fast-moving technology which will be a welcome update for researchers and professionals alike. Key features: Fully updated and expanded to include new sections including VoLTE, the evolution to 4G, mobile Internet access, LTE-Advanced, Wi-Fi security and backhaul for wireless networks Describes the successful commercialization of Web 2.0 services such as Facebook, and the emergence of app stores, tablets and smartphones Examines the evolution of mobile devices and operating systems, including ARM and x86 architecture and their application to voice-optimized and multimedia devices

All IP in 3G CDMA Networks Jonathan P. Castro, 2005-07-08 All IP in 3G CDMA Networks covers all the key aspects of UMTS and its implementation from both the engineering designer and the operator and service providers' point of view. It addresses the essential tasks involved in the UMTS network deployment in new regions and within existing 2G/2.5G networks. Key features: Presents solutions for the integration and coexistence of 2G and 3G systems and highlights the seamless interoperability functions between GSM and UMTS. As part of the evolution towards All IP cellular networks, it outlines the IP Multimedia Subsystem - IMS and the packet optimized Radio Access Network, including High Speed Download Packet Access. Provides a complete picture of broadband wireless through UMTS, whilst describing applications enabler platforms and the criteria for 3G services that enhance the user experience. By providing one integrated source in UMTS and its evolution, All IP in 3G CDMA Networks represents an invaluable resource for design engineers, operators and services providers. Likewise, Technical and Marketing Executives and Managers in wireless communications or related areas, and Business or Sales channels representatives, will benefit from this concise volume in 3G networks and services enablers. Academic programmes in Telecommunications and Information Technology segments at senior or postgraduate level, will also find valuable contributions in this book.

Fundamentals of Cellular Network Planning and Optimisation Ajay R. Mishra, 2004-05-21 "By 2008, some 2 billion people will be using mobile phones and devices, in many cases to access advanced data services. Against this backdrop, the need for efficient and effective network design will be critical to the success of increasingly complex mobile networks." Simon Beresford-Wylie (SVP, Nokia Networks) With the complexity of the cellular networks increasing day by day, a deeper understanding of the design and performance of end-to-end cellular networks is required. Moreover, all the types of networks from 2G-2.5G-3G seem to co-exist. Fundamentals of Cellular Network Planning and Optimisation covers end-to-end network planning and optimisation aspects from second generation GSM to third generation WCDMA networks including GPRS and EDGE networks. All the sub-systems of the network i.e. radio network, transmission network and core network have been covered with focus on both practical and theoretical issues. By bringing all these concepts under one cover, this book becomes essential reading for the network design engineers working either with cellular service vendors or operators, experts/scientists working on end-to-end issues and undergraduate/post-graduate students. Key Highlights: Distinctly divided into four parts: 2G (GSM), 2.5G (GPRS & EDGE), 3G (WCDMA) and introduction to 4G (OFDM, ALL-IP,

WLAN Overview) respectively Each part focuses on the radio, transmission and core networks. Concentrates on cellular network planning process and explains the underlying principles behind the planning and optimizing of the cellular networks. The text will serve as a handbook for anyone engaged in the study, design, deployment and business of cellular networks.

IP for 3G Dave Wisely, Philip Eardley, Louise Burness, 2003-04-11 What is an 'all-IP' network? What difference will IP networking make to 3G services? Third Generation (3G) mobile offers access to broadband multimedia services - and in the future most of these, even voice and video, will be IP-based. However 3G networks are not based on IP technologies, rather they are an evolution from existing 2G networks. Much work needs to be done to IP QoS and mobility protocols and architectures for them to be able to provide the functionality 3G requires. IP for 3G gives a comprehensive overview of 3G networking functionality and examines how IP protocols can be developed to provide some of the basic building blocks of a mobile system (mobility, QoS and call control) Features: * Clear explanation of how 3G works at the network level. * Review of IP protocol and architectural principles. * Extensive review, classification and analysis of IP mobility protocols - macro and micro- including IPv6. * Analysis of IP QoS protocols and proposed solutions for mobile networks. * Tutorial on SIP (Session Initiation Protocol) and how SIP can be used for multimedia session control. * Description of latest UMTS developments - including Release 5. * Discussion of 4G networks - what does 4G mean? IP for 3G will appeal to mobile telecommunications and network engineers who want to know about future developments as well as system designers and developers. Students and academics on postgraduate courses related to telecommunications, especially 3G networking or IP protocols, will find this text ideal supplementary reading, only assuming a general knowledge of GSM and general networking principles.

m-Profits Tomi T. Ahonen, 2004-04-02 UMTS as a technology allows for exciting new applications of some of the best ideas of services in the fixed telecoms, cellular/mobile telecoms, and internet environments, with many revolutionary new possibilities which simply do not exist in the current media and communications vehicles. The current worldwide interest in UMTS/3G is driven partly by the imminent roll-out of the new infrastructure during 2002/3. The general consensus in the telecoms industry is that that services will be driving this new UMTS/3G industry, and with no historical reference points, a large worldwide demand exists for this type of book. 'm-Profits: Making Money from 3G Services' will discuss 3G services from the view of what is needed for the service to provide value to the user, which technical features of the 3G network will be used, what is the value proposition for the user, how will money be made out of delivering the service, and discussions on how revenue sharing propositions might work to benefit content providers and network operators. * Addresses subject from the viewpoints of network operator, virtual operator, service provider, content provider, and end-user * Explains how will money be made out of delivering 3G services * Covers the key issues of 'revenue sharing' and competition * Includes 12 service vignettes Essential reading for mobile operators dealing with marketing, product development, 3G people, content providers, business Development, mobile Services people, consultants, bankers and media professionals.

Cellular Technologies for Emerging Markets Ajay R. Mishra, 2010-08-30 In this book, the author addresses technologies that are being used in emerging cellular markets. These include GSM/EGPRS and CDMA which are being deployed at a rapid pace, while technologies such as UMTS (3G)/ HSPA (3.5G) which have started to find a place in these high growth markets, are also considered. The book examines other technologies including LTE (3.9G) which have already moved out of research labs into the commercial world. 2G-CDMA is widely used, while further developments, e.g. CDMA2000 are also finding acceptance in the commercial arena. IMS/Convergence is increasingly popular all over the world; UMA, which is deployed mostly in North America; and DVB which is gaining worldwide popularity, especially in South Asia, are all reviewed. Each chapter discusses a different technology and is structured into three parts. The technology is examined at an overview level, first explaining what the technology is and then considering the technical features of the technology. The chapter concludes by looking at the planning/implementation aspects of the technology. Key Features: Useful for all cellular industry professionals as provides an overview of the currently deployed technologies in mass scale, and the forthcoming technologies that are expected to make an impact in the future, such as 4th Generation Cellular Networks. One of the first books on the market to encompass all the major cellular technologies, as well as considering the design and implementation perspective. Wireless Technology will play a key role in uplifting the economies of the Emerging countries globally. Ashok Chandra, Wireless Advisor to Govt. of India

Introduction to Mobile Network Engineering: GSM, 3G-WCDMA, LTE and the Road to 5G Alexander Kukushkin, 2018-09-04 Summarizes and surveys current LTE technical specifications and implementation options for engineers and newly qualified support staff Concentrating on three mobile communication technologies, GSM, 3G-WCDMA, and LTE—while majorly focusing on Radio Access Network (RAN) technology—this book describes principles of mobile radio technologies that are used in mobile phones and service providers' infrastructure supporting their operation. It introduces some basic concepts of mobile network engineering used in design and rollout of the mobile network. It then follows up with principles, design constraints, and more advanced insights into radio interface protocol stack, operation, and dimensioning for three major mobile network technologies: Global System Mobile (GSM) and third (3G) and fourth generation (4G) mobile technologies. The concluding sections of the book are concerned with further developments toward next generation of mobile network (5G). Those include some of the major features of 5G such as a New Radio, NG-RAN distributed architecture, and network slicing. The last section describes some key concepts that may bring significant enhancements in future technology and services experienced by customers. Introduction to Mobile Network Engineering: GSM, 3G-WCDMA, LTE and the Road to 5G covers the types of Mobile Network by Multiple Access Scheme; the cellular system; radio propagation; mobile radio channel; radio network planning; EGPRS - GPRS/EDGE; Third Generation Network (3G), UMTS; High Speed Packet data access (HSPA); 4G-Long Term Evolution (LTE) system; LTE-A; and Release 15 for 5G. Focuses on Radio Access Network technologies which empower communications in current and emerging mobile network systems Presents a mix of introductory and advanced reading, with a generalist view on current mobile network technologies Written at a level that enables readers to understand principles of radio network deployment and operation

Based on the author's post-graduate lecture course on Wireless Engineering Fully illustrated with tables, figures, photographs, working examples with problems and solutions, and section summaries highlighting the key features of each technology described Written as a modified and expanded set of lectures on wireless engineering taught by the author, Introduction to Mobile Network Engineering: GSM, 3G-WCDMA, LTE and the Road to 5G is an ideal text for post-graduate and graduate students studying wireless engineering, and industry professionals requiring an introduction or refresher to existing technologies.

Future Mobile Networks Alan Clapton, 2001-08-10 Contributors from the British company BT Wireless describe new technologies and services that they predict the growing throng of mobile communications consumers will demand over the next few years. Among their topics are a virtual center of excellence in mobile and personal communications, what the technology will enable, architecture evolution to support multimedia, services through mobility portals, the future of radio access, and the company's airwave service. Annotation copyrighted by Book News, Inc., Portland, OR

Evolved Packet System (EPS) Pierre Lescuyer, Thierry Lucidarme, 2008-02-28 2G/GSM and 3G/UMTS are key mobile communication technologies, chosen by more than 2 billion people around the world. In order to adapt to new services, increasing demand for user bandwidth, quality of service and requirements for network convergence, major evolutions are introduced in 3G network standard. Evolved Packet System (EPS) presents the EPS evolution of the 3G/UMTS standard introduced by the 3rd Generation Partnership Project (3GPP) standard committee. This new topic is looked at from a system perspective, from the radio interface to network and service architecture. Hundreds of documents being issued by Standard organisations are summarised in one book to allow the reader to get an accessible comprehensive view of EPS evolution. Proposes a system view of Evolved UMTS, from the radio to Core and service architecture Gives a comprehensive and global view of the system that technical specifications do not provide Describes the new system as well as the inheritance and migration from 2G/GSM and 3G/UMTS Written by experts in the field who specialise in two complementary but very different technical domains (i.e. radio interface and network architecture) Contains many figures and examples for better understanding. This book is essential for industry professionals in the telecommunication business, telecommunication system architects and designers, product manufacturers and operators and postgraduate students.

Mobile and Wireless Systems Beyond 3G: Managing New Business Opportunities Pagani, Margherita, 2005-01-31 Mobile and Wireless Systems Beyond 3G: Managing New Business Opportunities explores new business opportunities and critical issue related to mobile and wireless systems beyond 3G. This book identifies motivations and barriers to the adoption of 3G mobile multimedia services and provides an end-user perspective on mobile multimedia services that are likely to emerge with the roll out of Third Generation Mobile Services (3G). Mobile and Wireless Systems beyond 3G: Managing New Business Opportunities presents a single source of up-to-date information about mobile commerce including the technology (hardware and software) involved, security issues and factors driving demand adoption (consumer and business). This book provides researchers and practitioners with a source of knowledge related to this emerging area of business, while also facilitating managers and business

leaders' understanding of the industrial evolutionary processes.

Cellular Communications Explained Ian Poole, 2006-02-08 Among the many books published on 3G and cellular telecommunications, this introduction stands out due to its broad coverage of the subject and straightforward explanations of the principles and applications using a minimum of maths. Writing as an engineer for engineers, Ian Poole provides a systems-level view of the fundamentals that will enhance the understanding of engineers involved working in this fast-paced field. Equally, the book helps students, technicians and equipment manufacturers to gain a working knowledge of the applications and technologies involved in cellular communications equipment and networks. The book focuses on the latest 2G, 2.5G and 3G technologies, including GSM (with GPRS and EDGE), NA-TDMA, cdmaOne (IS-95), CDMA2000 and UMTS (W-CDMA), with material on developing areas such as HSDPA. The fundamentals of radio propagation, modulation and cellular basics are also covered in a way that will give readers a real grasp of how cellular communications systems and equipment work. * Explains the principles and applications of cellular communications systems using a minimum of mathematics, providing a firm grounding for engineers, technicians and students. * Covers current technologies (2G, 2.5G) alongside 3G and other cutting-edge technologies, making this essential reading, not crystal ball gazing! * Provides coverage of fundamentals and whole systems, as well as equipment provides a wide knowledge base for engineers and technicians working in different parts of the industry: handset designers, network planners, maintenance technicians, technical sales, etc.

3G Mobile Networks Sumit Kaseria, Nishit Narang, 2005 This is a detailed deconstruction and explanation of the UMTS 3G mobile communications protocol and the networks that run it.

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