Radio Network Planning and Optimisation for UMTS

SECOND EDITION

EDITED BY

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Clemens Wendtner

Radio Network Planning And Optimisation For Umts:

  Radio Network Planning and Optimisation for UMTS Jaana Laiho,Achim Wacker,Tomáš Novosad,2005-04-08 Radio Network Planning and Optimisation for UMTS comprehensively explains how to dimension plan and optimise UMTS Universal Mobile Telecommunications System networks It introduces the properties of the spread spectrum system and provides a general overview of the physical layer of UTRA FDD The radio network planning process for WCDMA is clearly presented and detailed information on how to dimension plan and rollout a 3G network both theoretically and practically is provided This valuable text examines current and future radio network management issues and their impact on network performance as well as the relevant capacity and coverage enhancement methods Includes automation examples of radio resource management Focuses on UTRA FDD and introduces UTRA TDD GPRS and EDGE and examines their interaction and synergy Provides an excellent source of information for those considering future cellular networks where Quality of Service QoS is of paramount importance Analyses the radio network planning challenges and opportunities for both greenfield and existing operators Includes an accompanying CD ROM featuring a static radio network simulator implemented in MATLAB r Authoritative and instructive this text will have instant appeal to wireless operators and network and terminal manufacturers It will also be essential reading for university students frequency regulation bodies and everyone interested in radio network planning and optimisation especially RF network systems engineering professionals   UMTS Radio Network Planning, Optimization and QOS Management Jukka Lempiäinen,Matti Manninen,2007-05-08 In cellular networks a new generation of CDMA or WCDMA based networks will start operations in most countries in the near future The standardized WCDMA technology generates new challenges in radio network planning optimization and QoS management because of the dynamic nature of its radio interface and various new services and different network operating modes Moreover new and modified radio planning phases as well as new field measurements and emphasized QoS management are needed when UMTS networks are designed and optimized Hence a practical UMTS planning process must be defined in detail from dimensioning to optimization tasks This book follows the UMTS planning process It is organized in three parts Part I UMTS configuration planning Part II UMTS topology planning and Part III UMTS network functionality The first chapter in Part I introduces the UMTS and UTRAN systems and radio network planning strategy and defines a planning process for UMTS In Chapter 2 the UMTS planning process is covered and a detailed description of the UMTS power budget is given with planning threshold examples provided   **Understanding UMTS Radio Network Modelling, Planning and Automated Optimisation** Maciej Nawrocki,Hamid Aghvami,Mischa Dohler,2006-07-06 This book sets out to provide the theoretical foundations that will enable radio network planners to plan model and optimize radio networks using state of the art findings from around the globe It adopts a logical approach beginning with the background to the present status of UMTS radio network technology before devoting equal coverage to planning modelling and optimization issues All key planning areas are covered including

the technical and legal implications of network infrastructure sharing hierarchical cell structure HCS deployment ultra high site deployment and the benefits and limitations of using computer aided design CAD software Theoretical models for UMTS technology are explained as generic system models stand alone services and mixed services Business modelling theory and methods are put forward taking in propagation calculations link level UMTS static and UMTS dynamic simulations The challenges and goals of the automated optimization process are explored in depth using cutting edge cost function and optimization algorithms This theory based resource containing prolific illustrative case studies explains the reasons for UMTS radio networks performance issues and how to use this foundational knowledge to model plan and optimize present and future systems   *UMTS Radio Network Planning: Mastering Cell Coupling for Capacity Optimization* Hans-Florian Geerdes,2009-03-11 The author establishes a concise system model for UMTS radio networks which describes interference coupling and its impact on the network This model is the basis for efficient radio network performance analysis as well as new optimization methods for automatic planning   Fundamentals of Network Planning and Optimisation 2G/3G/4G Ajay R. Mishra,2018-07-27 Updated new edition covering all aspects of network planning and optimization This welcome new edition provides comprehensive coverage of all aspects of network planning in all the technologies from 2G to 5G in radio transmission and core aspects Written by leading experts in the field it serves as a handbook for anyone engaged in the study design deployment and business of cellular networks It increases basic understanding of the currently deployed and emerging technologies and helps to make evolution plans for future networks The book also provides an overview of the forthcoming technologies that are expected to make an impact in the future such as 5G Fundamentals of Cellular Network Planning and Optimization Second Edition encompasses all the technologies as well as the planning and implementation details that go with them It covers 2G GSM EGPRS 3G WCDMA and 4G LTE networks and introduces 5G The book also looks at all the sub systems of the network focusing on both the practical and theoretical issues Provides comprehensive coverage of the planning aspects of the full range of today s mobile network systems covering radio access network circuit and packet switching signaling control and backhaul Core transmission networks New elements in book include HSPA Ethernet 4G LTE and 5G Covers areas such as Virtualization IoT Artificial Intelligence Spectrum Management and Cloud By bringing all these concepts under one cover Fundamentals of Cellular Network Planning and Optimization becomes essential reading for network design engineers working with cellular service vendors or operators experts scientists working on end to end issues and undergraduate post graduate students   *Evolved Cellular Network Planning and Optimization for UMTS and LTE* Lingyang Song,Jia Shen,2010-08-24 Most books on network planning and optimization provide limited coverage of either GSM or WCDMA techniques Few scrape the surface of HSPA and even fewer deal with TD SCDMA Filling this void Evolved Cellular Network Planning and Optimization for UMTS and LTE presents an accessible introduction to all stages of planning and optimizing UMTS HSPA   **UMTS Network Planning, Optimization, and Inter-Operation with GSM** Moe

Rahnema,2008-04-15 UMTS Network Planning Optimization and Inter Operation with GSM is an accessible one stop reference to help engineers effectively reduce the time and costs involved in UMTS deployment and optimization Rahnema includes detailed coverage from both a theoretical and practical perspective on the planning and optimization aspects of UMTS and a number of other new techniques to help operators get the most out of their networks Provides an end to end perspective from network design to optimization Incorporates the hands on experiences of numerous researchers Single authorship allows for strong coherency and accessibility Details the complete iteration cycle of radio link budgeting for coverage planning and dimensioning Rahnema demonstrates detailed formulation of radio capacity and coverage in UMTS and discusses the tradeoffs involved He presents complete link budgeting and iterative simulations for capacity and coverage planning along with practical guidelines UMTS Network Planning contains seventeen cohesive and well organized chapters which cover numerous topics including Radio channel structures radio channel models parameters model tuning Techniques for capacity and coverage enhancements Complete treatment of power control handoffs and radio resource practical management processes and parameters Detailed coverage of TCP protocol enhancement for operation over wireless links particularly UMTS Application of GSM measurements to plan and re engineer for UMTS radio sites Guidelines for site co location with GSM the QOS classes parameters and inter workings in UMTS AMR voice codecs and tradeoffs core and access network design architectural evolution and protocols Comprehensive discussion and presentation of practical techniques for radio performance analysis trending and troubleshooting Perfect for professionals in the field and researchers specializing in network enhancement Engineers working on other air interfaces and next generation technologies will find many of the techniques introduced helpful in designing and deploying future wireless networks as well Students and professionals new to the wireless field will also find this book to be a good foundation in network planning performance analysis and optimization

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 **Fundamentals of Network Planning and Optimisation 2G/3G/4G** Ajay R. Mishra,2018-11-05 Updated new edition covering all aspects of network planning and optimization This welcome new edition provides comprehensive coverage of all aspects of network planning in all the technologies from 2G to 5G in radio transmission and core aspects Written by leading experts in the field it serves as a handbook for anyone engaged in the study design deployment and business of cellular networks It increases basic understanding of the currently deployed and emerging technologies and helps to make evolution plans for future networks The book also provides an overview of the forthcoming technologies that are expected to make an impact in the future such as 5G Fundamentals of Cellular Network Planning and Optimization Second Edition encompasses all the technologies as well as the planning and implementation details that go with them It covers 2G GSM EGPRS 3G WCDMA and 4G LTE networks and introduces 5G The book also looks at all the sub systems of the network focusing on both the practical and theoretical issues Provides comprehensive coverage of the planning aspects of the full range of today s mobile network systems covering radio access network circuit and packet switching signaling control and backhaul Core transmission networks New elements in book include HSPA Ethernet 4G LTE and 5G Covers areas such as Virtualization IoT Artificial Intelligence Spectrum Management and Cloud By bringing all these concepts under one cover Fundamentals of Cellular Network Planning and Optimization becomes essential reading for network design engineers working with cellular service vendors or operators experts scientists working on end to end issues and undergraduate post graduate students **Efficient Methods for WCDMA Radio Network Planning and Optimization** Ulrich Türke,2007-12-08 Ulrich T rke introduces innovative models and algorithms for the evaluation of WCDMA UMTS network performance He establishes an advanced snapshot analysis method which allows the efficient and accurate analysis of large radio networks The author develops two statistical evaluation methods which furnish quick approximations of relevant results from snapshot simulations Finally he discusses the application of these methods to automatic network optimization The majority of the developed strategies are successfully applied in a commercial radio network planning and optimization tool *Planning and Optimisation of 3g and 4g Wireless Networks* J. I. Agbinya,2010-02-15 Packed with details of the technologies that support each network type this cutting edge reference leads the reader step by step on how to plan and optimize various types of wireless networks It examines current and emerging network planning and enhancement techniques *Advanced Cellular Network Planning and Optimisation* Ajay R. Mishra,2007-01-11 A highly practical guide rooted in theory to include the necessary background for taking the reader through the planning implementation and management stages for each type of cellular network Present day cellular

networks are a mixture of the technologies like GSM EGPRS and WCDMA They even contain features of the technologies that will lead us to the fourth generation networks Designing and optimising these complex networks requires much deeper understanding Advanced Cellular Network Planning and Optimisation presents radio transmission and core network planning and optimisation aspects for GSM EGPRS and WCDMA networks with focus on practical aspects of the field Experts from each of the domains have brought their experiences under one book making it an essential read for design practitioners experts scientists and students working in the cellular industry Key Highlights Focus on radio transmission and core network planning and optimisation Covers GSM EGPRS WCDMA network planning optimisation Gives an introduction to the networks technologies beyond WCDMA and explores its current status and future potential Examines the full range of potential scenarios and problems faced by those who design cellular networks and provides advice and solutions all backed up with real world examples This text will serve as a handbook to anyone engaged in the design deployment performance and business of Cellular Networks Efficient planning and optimization of mobile networks are key to guarantee superior quality of service and user experience They also form the essential foundation for the success of future technology development making this book a valuable read on the road towards 4G Tero Ojanper Chief Technology Officer Nokia Networks   Wireless Communications Systems Design Haesik Kim,2015-08-03 em style mso bidi font style normal Wireless Communications Systems Design provides the basic knowledge and methodology for wireless communications design The book mainly focuses on a broadband wireless communication system based on OFDM OFDMA system because it is widely used in the modern wireless communication system It is divided into three parts wireless communication theory part I wireless communication block design part II and wireless communication block integration part III Written by an expert with various experience in system design standards research and development   **Operations Research Proceedings 2003** Dino Ahr,Roland Fahrion,Marcus Oswald,Gerhard Reinelt,2012-12-06 This volume contains a selection of papers referring to lectures presented at the symposium Operations Research 2003 OR03 held at the Ruprecht Karls Universitiit Heidelberg September 3 5 2003 This international con ference took place under the auspices of the German Operations Research So ciety GOR and of Dr Erwin Teufel prime minister of Baden Wurttemberg The symposium had about 500 participants from countries all over the world It attracted academians and practitioners working in various field of Opera tions Research and provided them with the most recent advances in Opera tions Research and related areas in Economics Mathematics and Computer Science The program consisted of 4 plenary and 13 semi plenary talks and more than 300 contributed papers selected by the program committee to be presented in 17 sections Due to a limited number of pages available for the proceedings volume the length of each article as well as the total number of accepted contributions had to be restricted Submitted manuscripts have therefore been reviewed and 62 of them have been selected for publication This refereeing procedure has been strongly supported by the section chairmen and we would like to express our gratitude to them Finally we also would like to thank Dr

Werner Muller from Springer Verlag for his support in publishing this proceedings volume   Wireless and Mobile Networking Jozef Wozniak,Jerzy Konorski,Ryszard Katulski,Andrzej R. Pach,2009-08-26 This book constitutes the refereed proceedings of the Second IFIP WG 6 8 Joint Conference on Wireless and Mobile Networking WMNC 2009 held in Gdansk Poland in September 2009 The 30 thoroughly revised papers presented together with one invited talk were selected from 65 submissions The papers are evenly split among three tracks Personal Wireless Communications PWC Wireless Sensor and Actors Networks WSAN and Mobile and Wireless Communications Networks MWCN reflecting the state of the art current discussions and development trends in wireless and mobile networks and services They are divided in topical sections on IMS interoperability QoS and multimedia support network design sensor networks trust management and competitive networking location algorithms evolution of 3G 3G 4G and future generation systems and handover mechanisms   *Network Optimization* Julia Pahl,Torsten Reiners,Stefan Voß,2011-09-15 This book constitutes the refereed proceedings of the 5th International Conference on Network Optimization INOC 2011 held in Hamburg Germany in June 2011 The 65 revised full papers presented were carefully reviewed and selected from numerous submissions The papers highlight recent developments in network optimization and are organized in the following topical sections theoretical problems uncertainty graph theory and network design network flows routing and transportation and further optimization problems and applications energy oriented network design telecom applications location maritime shipping and graph theory   **UMTS Signaling** Ralf Kreher,Torsten Rüedebusch,2012-04-27 This completely revised and updated edition of the highly successful UMTS Signaling provides a deep insight into all aspects of UMTS signalling The chapter structure has been reworked for improved usability for readers as well as including many new features and updates The successful trial deployment operation and troubleshooting of 3G or UMTS infrastructures and applications is the biggest challenge facing today s mobile communications Network element instability network element and multi vendor interoperability configuration and network planning faults are just a few of the challenges affecting performance and profitability that need to be addressed This book is an invaluable guide to resolving such problems Highlights of the Second Edition Includes new information and scenarios on HSPA HSDPA HSUPA and IMS Covers not only WCDMA but also TD SCDMA issues Contains up to date information on releases 5 and 6 and includes a new chapter on the future releases 7 and 8 Provides crucial information for network operators and equipment suppliers keen to understand how to handle and analyse UMTS signaling procedures in order to get the network into operation detect errors and troubleshoot faults Uses first hand real world information to explain issues which are unclear in the standards Includes comprehensive descriptions and documentation of UMTS reference scenarios for different UMTS procedures The unified comprehensive approach taken by the authors makes this book essential reading for engineers in network operators integrators or system suppliers who need to be at the cutting edge of this technology It will also be an invaluable resource for postgraduates on telecommunications courses especially those with a focus on signal

analysis **Fundamentals of Ultra-Dense Wireless Networks** David López-Pérez,Ming Ding,2022-06-30 Discover the fundamental characteristics of ultra dense networks with this comprehensive text Featuring a consistent mathematical description of ultra dense small cell networks while also covering real world issues such as network deployment operation and optimization this book investigates performance metrics of coverage probability and area spectral efficiency ASE and addresses the aspects of ultra dense networks that make them different from current networks Insightful intuitions which will assist decision makers as they migrate their services are explained and mathematically proven The book presents the latest review of research outcomes on ultra dense networks based on both theoretical analyses and network simulations includes over 200 sources from 3GPP the Small Cell Forum journals and conference proceedings and covers all other related and prominent topics This is an ideal reference text for professionals who are dealing with the development deployment operation and maintenance of ultra dense small cell networks as well as researchers and graduate students in communications HSPA Performance and Evolution Pablo Tapia,Jun Liu,Yasmin Karimli,Martin Feuerstein,2009-03-03 Written from an operator s viewpoint HSPA Performance and Evolution explores the lessons learned and techniques developed for optimally deploying HSPA High Speed Packet Access The essential distinctions between rolling out HSPA compared to earlier UMTS and GSM technologies are explained covering the many issues that must be specifically handled Areas in standards which have been left open for interpretation causing significant differences between vendor implementations are identified and solutions explored This book is invaluable in enabling wireless operators to extract maximum performance offered by 3GPP s HSPA radio technology consisting of both downlink HSDPA and uplink HSUPA elements It focuses on real world performance sharing practical implementation methods and tradeoffs for deploying optimizing and maintaining networks using the HSPA air interface Examines algorithms equipment and performance perspectives to identify and explain HSPA Measures performance and sets network parameters for optimal tradeoffs Presents results from practical and real world network performances Explores the evolution of HSPA technology into HSPA and eventually next generation LTE technologies HSDPA/HSUPA Handbook Borko Furht,Syed A. Ahson,2010-10-25 High Speed Packet Access HSPA is a collection of two mobile telephony protocols High Speed Downlink Packet Access HSDPA and High Speed Uplink Packet Access HSUPA Allowing networks based on the Universal Mobile Telecommunications System to achieve data rates of several megabits per second these powerful protocols are ideal for applications

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