

Radio Network Planning and Optimisation for UMTS

SECOND EDITION



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Radio Network Planning And Optimisation For Umts

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Novosad**



Radio Network Planning And Optimisation For Umts:

Radio Network Planning and Optimisation for UMTS Jaana Laiho, Achim Wacker, Tomáš Novosad, 2006-05-01 Radio Network Planning and Optimisation for UMTS Second Edition is a comprehensive and fully updated introduction to WCDMA radio access technology used in UMTS featuring new content on key developments Written by leading experts at Nokia the first edition quickly established itself as a best selling and highly respected book on how to dimension plan and optimise UMTS networks 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 In addition to coverage of WCDMA radio access technology used in UMTS and the planning and optimisation of such a system the service control and management concept in WCDMA and GPRS networks are also introduced This is an excellent source of information for those considering future cellular networks where Quality of Service QoS is of paramount importance Key features of the Second Edition include High Speed Downlink Packet Access HSDPA physical layer dimensioning and radio resource management Quality of Service QoS mechanisms in network for service differentiation Multiple Input Multiple Output MIMO technology Practical network optimisation examples Service optimisation for UMTS and GPRS EDGE capacity optimisation The hot topic of service control and management in WCDMA and GPRS networks that has evolved since the first edition Companion website includes Figures Static radio network simulator implemented in MATLAB This text will have instant appeal to wireless operators and network and terminal manufacturers It will also be essential reading for undergraduate and postgraduate students frequency regulation bodies and all those interested in radio network planning and optimisation particularly RF network systems engineering professionals *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 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 *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

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 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

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

Fundamentals of Network Planning and Optimisation 2G/3G/4G Ajay R. Mishra,2018-07-24 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

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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

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