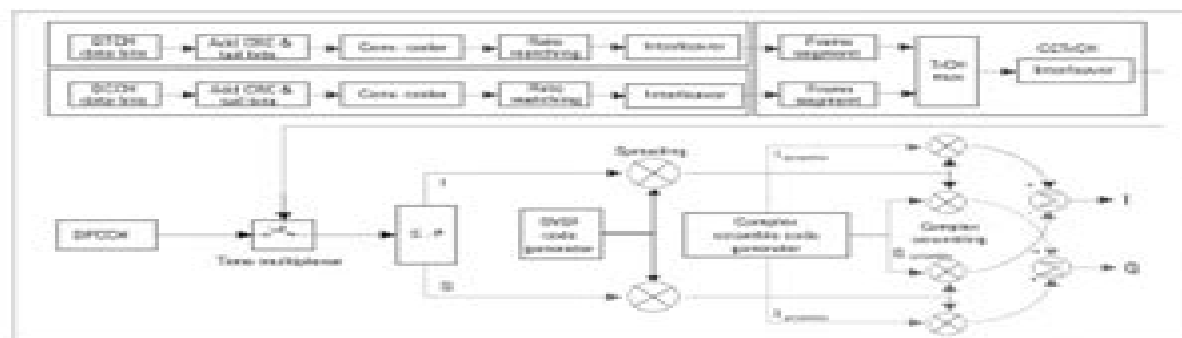


Designing and Testing 3GPP W-CDMA Base Transceiver Stations

(Including Femtocells)



Base Transceiver Station For W Cdma System

**Miikka Poikselkä, Georg Mayer, Hisham
Khartabil, Aki Niemi**



Base Transceiver Station For W Cdma System:

UMTS: Grundlagen der W-CDMA Zellplanung Alexander Beck, 2001-09-24 Inhaltsangabe Einleitung Es gibt heutzutage weltweit unterschiedliche Mobilfunktechniken Zu der am weitverbreitetsten Technik gehört das Globale System für Mobilkommunikation der sogenannte GSM Standard Er wird derzeit von rund 440 Millionen Teilnehmern auf der ganzen Welt genutzt Obwohl mit GSM fast überall ausgezeichnet zu telefonieren ist lassen sich Daten jedoch nur bis 9,6 kbit/s übertragen Nur neue Verfahren ermöglichen eine schnellere und größere Menge von Datenübertragungen Der Einsatz des Universal Mobile Telecommunication System UMTS soll nun die Möglichkeiten bieten mit höheren Datenübertragungsraten mobil zu kommunizieren Dieses neue System hat an der Luftschnittstelle geradezu revolutionäre Eigenschaften die sich vom klassischen Funkbetrieb und auch vom GSM drastisch unterscheiden Hinter UMTS verbirgt sich die sogenannte Wideband Code Division Multiple Access Technik W-CDMA Schwerpunktartig konzentriert sich die Ausarbeitung auf die Luftschnittstelle der UMTS Technologie Die Arbeit ist für Personen konzipiert die über ein entsprechendes technisches Verständnis verfügen und sich einen Überblick über die W-CDMA Technik verschaffen möchten Inhaltsverzeichnis Inhaltsverzeichnis 1 Einleitung 5 1 1 Aufgabenstellung Task 5 1 1 1 Deutsch 5 1 1 2 English 6 1 2 Aufbau der Diplomarbeit 7 2 Mobilfunkgeschichte in Deutschland 8 3 Die weltweite Standardisierung der UMTS Luftschnittstelle 9 3 1 Frequenzband für UMTS in Deutschland 12 3 2 UMTS Lizenzen in Deutschland 13 4 Die Systemarchitektur bei UMTS 15 5 Mehrfachzugriff auf die Luftschnittstelle 17 5 1 Frequency Division Multiple Access FDMA 17 5 2 Time Division Multiple Access TDMA 18 5 3 Code Division Multiple Access CDMA 19 5 4 UTRA FDD W-CDMA 20 5 5 UTRA TDD TD-CDMA 21 6 Code Spreizung 22 6 1 Rahmenaufbau und Codierung im Uplink Pfad FDD 28 6 2 Rahmenaufbau und Codierung im Downlink Pfad FDD 32 6 3 Ermittlung des Spreizfaktors 33 7 Scrambling Codes 34 7 1 Spreizcodes vs Scrambling Codes im Uplink Pfad 35 7 2 Spreizcodes vs Scrambling Codes im Downlink Pfad 36 8 Rake Empfänger 37 9 Leistungsregelung 40 9 1 Open loop power control 41 9 2 Closed loop power control 42 9 3 Outer loop power control 44 10 Handover 46 10 1 Hard Handover 47 10 2 Softer Handover 48 10 3 Soft Handover 49 10 4 Beispiel für einen Soft Handover 50 11 Zellstruktur und Datenrate 52 12 Adaptive Antennen 54 13 Zusammenfassung und Ausblick 58 Anhang 60 **WCDMA Design Handbook** Andrew Richardson, 2005-03-17 Publisher Description ,

WCDMA (UMTS) Deployment Handbook Christophe Chevallier, Christopher Brunner, Andrea Garavaglia, Kevin P. Murray, Kenneth R. Baker, 2006-07-11 A complete and practical guide to WCDMA UMTS cellular network deployment After introducing the network architecture of such a system the WCDMA UMTS Deployment Handbook defines the coverage and capacity concepts associated with the dimensioning and design phases Progressing to a discussion of the main system parameters associated with network optimization and detailing optimization techniques for the main services supported by UMTS and includes the specifics of indoor deployment and HSDPA networks evolution Covers all stages from planning to optimization with sufficient details as required on a day to day basis and thorough reference information for the reader who

wants to understand the concepts in more detail Relevant for daily tasks The approach taken in this book is similar to the work flow of network planner and optimization engineers allowing such personnel to easily find the relevant information Written by the company which made CDMA a household name QUALCOMM was the first company to use CDMA technology for cellular application and is a technical leader in this domain Based on industry feedback All the contributors to this book have been working in direct interaction with WCDMA operators throughout the world since the early days of WCDMA commercial deployment Looking to the future This book addresses the next level of challenge that WCDMA operators will face deployment of indoor systems and HSDPA Providing a complete introduction and reference guide to everything associated with the life cycle of a WCDMA UMTS cellular network from initial dimensioning through to the successful deployment of indoor solutions or migration to HSDPA this book is a must have for network planners and optimization engineers as well as Telecommunication Engineering students

WCDMA Tero Ojanperä, Ramjee Prasad, 2001 While covering the basics of wideband CDMA the key UMTS technology this major revision of the best selling Wideband CDMA for Third Generation Mobile Communications brings you up to date with all the latest developments in third generation mobile communications New sections cover fundamental IP concepts All IP core networks and WCDMA EDGE and cdma2000 technologies including their future developments WCDMA HSPA and 1XEV The book gives you a complete understanding of the complex standardization environment of 3G networks and the design and development of 3G systems It describes how third generation system applications impact radio access system design and compares and contrasts major wideband CDMA standards WCDMA WCDMA TDD and cdma2000 Includes 190 illustrations and 75 equations

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

W-CDMA and Cdma2000 for 3G Mobile Networks M. R. Karim, M. Sarraf, 2002 AS SERVICE PROVIDERS START TO BUILD THIRD GENERATION AND UMTS NETWORKS THEY NEED A WIZARD TO MAKE SENSE OF ELABORATE PROTOCOLS AND OUT OF CONTEXT TECHNOLOGY REPORTS Excellent coverage captures the gamut from propagation science to network planning Nikil Jayant John Pippin Chair in Wireless Systems Georgia Tech For those already installing 3G systems I recommend it be rushed into print Reed Fisher formerly of Bell Labs and father of the cell phone Engineers will find this is a much needed integrated approach to understanding 3G technologies Ken Smolik Technology Specialist Banner Witcoff Ltd This book gives network managers and 3G workers a select background in spread spectrum technology empowering them to make real world design purchasing and deployment decisions Assuming only that W CDMA is the preferred interface the authors make a point of grounding 3G technologies in the fundamentals of propagation characteristics physical layer functionalities and spectrum requirements so readers can confidently tackle soft handover power control sectorization and message flows Written by authors with deep experience in data communications design and development this jargon free look at W CDMA Spells out what providers must know to enable wireless data speeds 40 times the current level Shows how to integrate U S European and Pacific Rim flavors of 3G for worldwide roaming access Explains how spread spectrum functions best in data transmission Covers vital links between GSM and W CDMA systems Reviews and unpacks IMT 2000 interface proposals Worth its weight in paid consultants to wireless carriers service developers systems engineers and telecom managers this book opens a window on the implications of the air interface in the next generation network

RF System Design of Transceivers for Wireless Communications Qizheng Gu, 2006-05-03 This book is for RF Engineers and in particular those engineers focusing mostly on RF systems and RFIC design The author develops systematic methods for RF systems design complete with a comprehensive set of design formulas Its focus on mobile station transmitter and receiver system design also applies to transceiver design of other wireless systems such as WLAN This comprehensive reference work covers a wide range of topics from general principles of communication theory as

it applies to digital radio designs to specific examples on implementing multimode mobile systems *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

Proceedings of the 2nd International Conference on Computational and Bio Engineering S. Jyothi, D. M. Mamatha, Yu-Dong Zhang, K. Srujan Raju, 2021-09-27 This book presents the peer reviewed proceedings of the 2nd International Conference on Computational and Bioengineering CBE 2020 jointly organized in virtual mode by the Department of Computer Science and the Department of BioScience Sericulture Sri Padmavati Mahila Visvavidyalayam Women s University Tirupati Andhra Pradesh India during 4 5 December 2020 The book includes the latest research on advanced computational methodologies such as artificial intelligence data mining and data warehousing cloud computing computational intelligence soft computing image processing Internet of things cognitive computing wireless networks social networks big data analytics machine learning network security computer networks and communications bioinformatics biocomputing biometrics computational biology biomaterials bioengineering and medical and biomedical informatics

Any Time, Anywhere Computing Abdelsalam A. Helal, Bert Haskell, Jeffery L. Carter, Richard Brice, Darrell Woelk, Marek Rusinkiewicz, 2006-04-18 The proliferation of wireless networks and small portable computing devices has led to the emergence of the mobile computing paradigm Mobile and nomadic users carrying laptops or hand held computers are able to connect to the Internet through publicly available wireline or wireless networks In the near future this trend can only

grow as new services and infrastructures delivering wireless voice and multimedia data are deployed This text is intended for technical and non technical readers It includes substantial coverage of the technologies that are shaping mobile computing Current and future portables technology is covered and explained Similarly current and future wireless telecommunication networks technology is covered and reviewed By presenting commercial solutions and middleware this book will also help IT professionals who are looking for mobile solutions to their enterprise computing needs Finally this book surveys recent research in the area of mobile computing The research coverage is likely to benefit researchers and students from academia as well as industry

WCDMA for UMTS Harri Holma,Antti Toskala,2007-09-27 Written by the leading experts in the field the best selling book on UMTS is now updated to cover 3GPP High Speed Packet Access HSPA evolution HSPA in Release 7 and on going Long Term Evolution LTE activity for Release 8 These technologies enhance the capabilities of the existing WCDMA HSPA networks to offer higher data rates beyond 100 Mbps WCDMA for UMTS Fourth Edition also covers 3GPP WCDMA Release 99 High Speed Downlink Packet Access HSDPA in Release 5 and High Speed Uplink Packet Access HSUPA in Release 6 which are already deployed commercially Multimedia Broadcast Multicast System MBMS is also described in detail Key updates include Continues to provide both updated descriptions of the 3GPP standard as well as the latest end user and system performance estimates Updated HSDPA and HSUPA including link budgets and Iub dimensioning Detailed MBMS description 3GPP Release 7 HSPA evolution full description 3GPP Release 8 LTE overall description and 3GPP schedule Dedicated chapter on terminal design challenges for the new high speed radio technologies

The IMS Miikka Poikselkä,Georg Mayer,Hisham Khartabil,Aki Niemi,2004-11-19 We have telephony to talk to each other messaging to dispatch mail or instant messages browsing to read published content and search engines to locate content sites However current mobile networks do not provide the possibility for one application rich terminal to communicate with another in a peer to peer session beyond voice calls Mobile telephony with the current technology has been hugely successful and shows that there is immense value in communicating with peers while being mobile and with increasingly available smarter multimedia terminals the communication experience will be something more than just exchanging voice Those multimedia terminals need IP multimedia networks Hence the Third Generation Partnership Project 3GPP has developed a standard for SIP based IP multimedia service machinery known as The IMS IP Multimedia Subsystem and this informative book explains everything you need to know about it Presents the architecture and functionality of logical elements of IMS and their interfaces providing detailed description of how elements are connected what protocols are used and how they are used Explains how the optimisation and security of the mobile communication environment has been designed in the form of user authentication and authorisation based on mobile identities Illustrates how optimisation at the radio interface is achieved using specific rules at the user to network interface This includes signalling compression mechanisms as well as security and policy control mechanisms allowing radio loss and recovery detection Addresses important aspects from an operator s point

of view while developing architecture such as charging framework policy and service control Describes many services on top of IMS in detail including voice presence messaging and conferencing Written in a manner that allows readers to choose the level of knowledge and understanding they need to gain about the IMS this volume will have instant appeal to a wide audience ranging from marketing managers research and development engineers network engineers developers test engineers to university students Broadband Wireless Access and Local Networks Byeong Gi Lee, Sunghyun Choi, 2008

This authoritative resource offers you complete state of the art coverage of wireless broadband access networks The book provides you with a thorough introduction to wireless access and local networks covers broadband mobile wireless access systems and details mobile and broadband wireless local area networks This forward looking reference focuses on cutting edge mobile WiMax WiFi and WiBro technologies including in depth design and implementation guidance Collecting the most recent experience and knowledge of design and field engineers from leading organizations like Samsung Electronics Korea Telecom KT Corporation and Philips Electronics the book introduces the network technologies adopted by Mobile WiMAX for the implementation of IP based broadband mobile wireless access Moreover it covers the Wi Fi technologies that have steadily evolved over the past decade establishing a firm foundation for IP based wireless local network access *The 13th IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications*, 2002

Principles of Data Communication Systems and Computer Networks (Second Edition) K.V.K.K. Prasad, 2003-07-17 A Comprehensive coverage of Digital communication Data Communication Protocols and Mobile Computing Covers Multiplexing Multiple accesses Radio Communications Terrestrial Satellite Error Detection Correction ISO OSI Protocol Architecture Wired Internet DNS RADIUS Firewalls VPN Cellular Mobile Communication GPS CTI Wireless Internet Multimedia Communication over IP Networks *3D IC and RF SiPs: Advanced Stacking and Planar Solutions for 5G Mobility* Lih-Tyng

Hwang, Tzyy-Sheng Jason Horng, 2018-03-29 An interdisciplinary guide to enabling technologies for 3D ICs and 5G mobility covering packaging design to product life and reliability assessments Features an interdisciplinary approach to the enabling technologies and hardware for 3D ICs and 5G mobility Presents statistical treatments and examples with tools that are easily accessible such as Microsoft s Excel and Minitab Fundamental design topics such as electromagnetic design for logic and RF passives centric circuits are explained in detail Provides chapter wise review questions and powerpoint slides as teaching tools **Cellular Communications Explained** Ian Poole, 2006-03-31 Focusing on the 2G 2 5G and 3G technologies this

book provides material on developing areas such as HSDPA It helps students technicians and equipment manufacturers to gain a working knowledge of the applications and technologies involved in cellular communications equipment and networks

IP Design for Mobile Networks Mark Grayson, Kevin Shatzkamer, Scott Wainner, 2009-06-11 As the cellular world and the Internet converge mobile networks are transitioning from circuit to packet and the Internet Protocol IP is now recognized as the fundamental building block for all next generation communication networks The all IP vision provides the flexibility to

deliver cost effective services and applications that meet the evolving needs of mobile users RF engineers mobile network designers and system architects will be expected to have an understanding of IP fundamentals and how their role in delivering the end to end system is crucial for delivering the all IP vision that makes the Internet accessible anytime anywhere IP Design for Mobile Networks discusses proper IP design theory to effectively plan and implement your next generation mobile network so that IP integrates all aspects of the network The book outlines from both a standards and a design theory perspective both the current and target state of mobile networks and the technology enablers that will assist the migration This IP transition begins with function specific migrations of specific network domains and ends with an end to end IP network for radio transport and service delivery The book introduces many concepts to give you exposure to the key technology trends and decision points affecting today s mobile operators The book is divided into three parts Part I provides an overview of how IP is being integrated into mobile systems including radio systems and cellular networks Part II provides an overview of IP the technologies used for transport and connectivity of today s cellular networks and how the mobile core is evolving to encompass IP technologies Part III provides an overview of the end to end services network based on IP including context awareness and services Presents an overview of what mobile networks look like today including protocols used transport technologies and how IP is being used for specific functions in mobile networks Provides an all inclusive reference manual for IP design theory as related to the broader application of IP for mobile networks Imparts a view of upcoming trends in mobility standards to better prepare a network evolution plan for IP based mobile networks This book is part of the Networking Technology Series from Cisco Press which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers ciscopress.com *Wireless Network Evolution: 2G to 3G* Garg,2002-09

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