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Service Comparison; 2.4 Network Planning Tools; 2.4.1 Network Planning Tool Input; 2.4.2 Coverage Considerations during Network Planning  
2.5 Interference Considerations during Network Planning  
2.6 Topology Planning; 2.7 Parameter Settings and Optimization during Network Planning; 2.8 RF Optimization; 2.8.1 Quantitative Optimization; 2.8.2 Qualitative Optimization; 2.8.3 Idle Mode Optimization; References; 3 Capacity Planning and Optimization; 3.1 Basic UMTS Traffic Engineering; 3.1.1 Capacity Requirements; 3.1.2 Uplink Capacity Estimation; 3.1.3 Estimating Downlink Capacity; 3.2 Effect of Video-Telephony and PS Data on Traffic Engineering; 3.2.1 WCDMA Traffic Engineering and Video-Telephony  
3.2.2 WCDMA Traffic Engineering and PS Data  
3.3 Multiservice Traffic Engineering; 3.3.1 Multiservice Capacity; 3.3.2 Uplink and Downlink Capacity Comparison; 3.4 Capacity Planning; 3.4.1 Input for Capacity Planning; 3.4.2 Capacity Planning for the CS Domain; 3.4.3 Capacity Planning for the PS Domain; 3.4.4 Capacity Planning with a Network Planning Tool; 3.4.5 Microcell Issues; 3.5 Optimizing for Capacity; 3.5.1 Coverage and Capacity Trade-offs; 3.5.2 Capacity Estimation in a Deployed Network; 3.5.3 Capacity Monitoring for a Deployed Network; References; 4 Initial Parameter Settings  
4.1 Introduction  
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4.3.6 Intra-frequency Cell Reselection Parameter Recommendations for Idle Mode

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Sommario/riassunto

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 suffi

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