



WCDMA Design Handbook

By Andrew Richardson

Cambridge University Press, 2005. Softcover. Condition: New. Developed out of a successful professional engineering course, this practical handbook provides a comprehensive explanation of the Wideband CDMA (Code Division Multiple Access) air interface of 3rd generation UMTS cellular systems. The book addresses all aspects of the design of the WCDMA radio interface from the lower layers to the upper layers of the protocol architecture. The book considers each of the layers in turn, to build a complete understanding of the design and operation of the WCDMA radio interface including the physical layer, RF and baseband processing, MAC, RLC, PDCP/BMP, Non-Access stratum and RRC. An ideal course book and reference for professional engineers, undergraduate and graduate students. Contents 1. Introduction 2. WCDMA in a nutshell 3. Spreading codes and modulation 4. Physical layer 5. RF aspects 6. Symbol rate processing functions. 7. Chip rate processing functions. 8. Layer 2 - MAC 9. Layer 2 - RLC 10. PDCP and BMC protocols 11. Non access stratum 12. Idle mode functions 13. Layer 3 - RRC 14. Measurements Index. Printed Pages: 590.



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