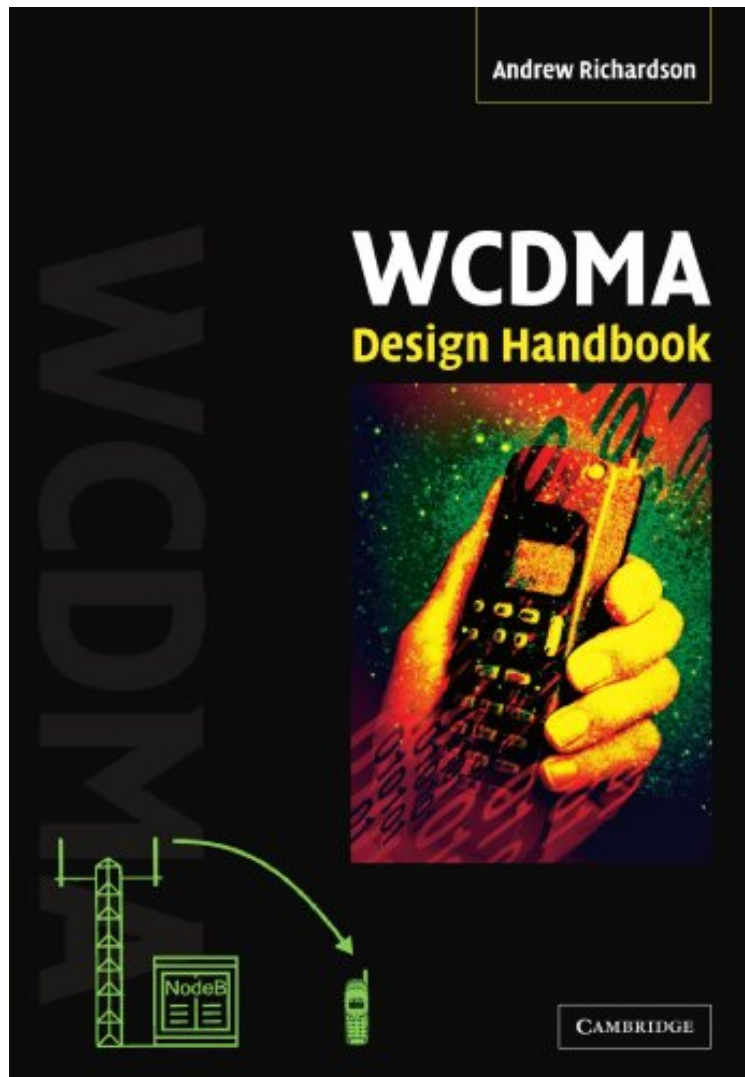


WCDMA Design Handbook

Andrew Richardson

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#2952667 in Books Andrew Richardson 2011-03-03 Original language: English PDF # 1 9.61 x 1.18 x 6.691, 2.05 #File Name: 0521187826592 pages WCDMA Design Handbook | File size: 30.Mb

Andrew Richardson : WCDMA Design Handbook before purchasing it in order to gage whether or not it would be worth my time, and all praised WCDMA Design Handbook:

0 of 0 people found the following review helpful. Five StarsBy CustomerPerhaps one of the best books on the WCDMA system, with an engineering approach!4 of 4 people found the following review helpful. Ease of a Novel, but Its serious business and value for moneyBy HRPrior to the review, i would like to mention that i have over 6 years of experience in Wireless core network Product validation in GSM/UMTS; also i had read another book "UMTS" by "Javier Sanchez" "Mamadou Thioune". Therefore i had a fair handle on the architecture and aspects of UMTS access, but my understanding was lacking a solid grounding.I picked up this book and started reading, and it was like all the

missing pieces were found, and my understanding stood on a more solid ground. To give a few examples, the coverage of the following things in the second chapter, were pivotal in plugging the gaps in my understanding.- how to differentiate a UE in uplink as well as downlink- principles of WCDMA physical layer - channelization scrambling codes, soft handover, use of compressed mode power management. These are known by any person who has a "more than casual" study of the UMTS access, but they were clearly marked as differentiators.- Radio and data connections- UMTS security architecture etc What clinches the deal for me is Chapter 3 with its clear explanations of single user spreading code use, multi-user spreading code use (to mention a few) with clear diagrammatic illustrations. The author has distilled years of experience in this book; any user who is sufficiently experienced in wireless networks can pick this book up and glide across from beginning to end. This book caters to R99 UMTS networks; the only thing I wish this book had was the coverage of newer technologies - HSDPA, HSUPA and LTE.

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 third generation UMTS cellular systems. The book addresses all aspects of the design of the WCDMA radio interface from the lower layers (RF and baseband processing) to the upper layers of the protocol architecture (non-access stratum and RRC layers). This is an ideal course book and reference for students and professional engineers.

As with many UMTS-related books, this text focuses on the operation of the air interface. However, the subject is addressed with the appropriate level of detail in order to be an excellent companion, particularly to those working in component and system design. It presents an organized and clear examination of the topic, certainly more approachable than the related specifications...through sharing his experience in this area, the author presents a valuable and comprehensive treatment of the subject. Jeffrey Bannister, IEE Communications Engineer "The WCDMA Design Handbook provides a detailed overview of the architecture and operation of the wideband code-division multiple access (WCDMA) interface...The book is directed to a professional readership. Providing deeply detailed information, it seems to be a good technical handbook...The WCDMA Design Handbook should be recommended especially to people interested in protocols and signaling." IEEE Communications Magazine "This is a good handbook with precise technical information, although some basics of WCDMA are also gathered in the first part." - Radio Communications Book, Michal Wagrowski About the Author Dr Andrew Richardson has many years of experience in digital communication systems, having worked for Philips, Nokia and Simoco on both 2nd and 3rd generation mobile phone systems. Since 1999 he has run his own consultancy, Imagicom Ltd, offering design and training services in telecommunication systems technology.