



# WCDMA: Requirements and Practical Design

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WCDMA (Wideband Code Division Multiple Access), an ITU standard derived from code division multiple access (CDMA) is officially known as IMT-2000 direct spread. WCDMA is a third generation mobile wireless technology offering much higher data speeds to mobile and portable wireless devices than commonly offered in today's market. WCDMA is a relatively new technology and there is little information in the public domain about specific design issues. The proposed book will discuss UMTS/WCDMA from the perspective of a potential development engineer, who may have experience of GSM but none of WCDMA technology. The book will outline the design specifications and potential problems and solutions faced by an engineer designing a mobile device such as a handset.

*WCDMA: Requirements and Practical Design:*

- Offers in-depth coverage of the critical issues in designing a UMTS handset modem.
- Discusses the practical design elements of a UMTS modem.
- Authored by leaders in their field, working at Ubinetics.

Highly relevant to professional software engineers, Design engineers, Electrical engineers (RF base-band, DSP software, protocol software), technical managers, postgraduate students and academics.

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## Editorial Review

From the Back Cover

*WCDMA-Requirements and Practical Design* discusses direct sequence CDMA, a well-established technology used in both second and third generation wireless standards. The authors provide practical information on the design, development and implementation of a WCDMA modem and protocol software.

Written in a methodical and highly accessible manner this book will appeal to professional communications engineers and software and hardware engineers, along with postgraduate students and academics.

The book:

- Addresses all aspects of the development of a WCDMA (UMTS) handset from the RF chain through the physical and protocol layers to the speech codec.
- Combines introductions to the 3GPP FDD WCDMA standard and practical engineering aspects of the development of user equipment allowing for a better understanding of the specifications.
- Discusses the physical layer, including the Rake receiver and turbo decoder, and the protocol layers giving the reader a comprehensive overview of the technology involved.
- Provides engineers with practical tips and advice from the engineers who develop WCDMA user equipment.

*WCDMA-Requirements and Practical Design* is an invaluable and practical reference, written by engineers developing third generation wireless technology. Its explanation of the specifications and potential problems with solutions will be extremely useful for those designing a 3G mobile wireless device.

About the Author

Men and women in mid- and high-level leadership positions across sectors, executive coaches, consultants, IWL partner organizations, students and professors of leadership.

## Users Review

From reader reviews:

**Kara Corbett:**

A lot of people always spent their very own free time to vacation or go to the outside with them friends and family or their friend. Were you aware? Many a lot of people spent that they free time just watching TV, or maybe playing video games all day long. If you need to try to find a new activity that's look different you can read a new book. It is really fun for you. If you enjoy the book you read you can spent all day long to reading a reserve. The book WCDMA: Requirements and Practical Design it is extremely good to read. There are a lot of those who recommended this book. These folks were enjoying reading this book. When you did not have enough space to bring this book you can buy typically the e-book. You can more simply to read this book out of your smart phone. The price is not to fund but this book has high quality.

**Catherine Walters:**

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