



Wideband TDD: WCDMA for the Unpaired Spectrum

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3rd generation radio systems will be increasingly developed, deployed and operated in the years to come. TDD is one of two main approaches to implementing these 3G systems, so that there will be an increasing need for the engineering community to learn quickly and comprehensively about the TDD technology. As 3G systems become popular, the topics will no doubt be introduced to academic curricula and will also provide a basis for future research.

This book provides comprehensive coverage of TDD. It is essentially a Radio Access Network technology and the book embraces the structure of the radio interface as well as the user equipment and network equipment. In addition, *Wideband TDD* also covers the connection of the TDD Radio Access Network to the 3G Core Network and public switched networks (PSTN) as well as public and private packet networks (Internet and Intranet). Services, applications and performance are also addressed. Finally, TDD is compared with other radio access technologies, namely FDD, TD-SCDMA and WLAN. TD-SCDMA is the Narrowband version of TDD in 3G, and WLAN standards address wireless computer communications.

Although there are a number of books published on 3G and UMTS, most of the focus of these books has been on FDD component of 3G.

Wideband TDD:

- Describes all aspects of TDD in a single comprehensive manner
- Addresses TDD technology, TDD systems and the TDD market place
- Discusses deployment scenarios and Radio Resource Management for TDD
- Provides a comparison of TDD with other radio access technologies, namely FDD, TD-SCDMA and wireless LANs

This will prove an essential addition to the bookshelf of professional communication and software engineers, development engineers, technical marketing professionals, researchers in industry, wireless equipment vendors such as Siemens, Nokia and InterDigital, operators and service providers.

It will also provide a comprehensive overview of TDD for postgraduates who are taking advanced courses in Mobile Wireless communications.

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