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Written by leading experts in the field of wireless communications, *OFDM for Wireless Multimedia Communications* is a practical guide to planning, designing, and using orthogonal frequency division multiplexing (OFDM). It offers you a thorough overview of OFDM signal processing techniques, and provides a solid base for assessing the performance of wireless OFDM systems.

Technical details of OFDM are provided, along with explanations of how OFDM signals are formed using the inverse fast Fourier transform, how windowing can limit out-of-band radiation, and how the cyclic extension mitigates the effects of modulation. You also learn how to assess the performance of OFDM-based systems in terms of SNR and delay-spread tolerance.

OFDM for Wireless Multimedia Communications contains a valuable investigation of the applications of OFDM, including digital audio and video broadcasting and wireless ATM. Plus, it helps you understand IEEE 802.11, MMAC, and HiperLAN standards for wireless LAN.

Richard van Nee, Ph.D., is a member of the technical staff at Lucent Technologies/Bell Labs in the Netherlands. He was among those who proposed the OFDM-based physical layer, which was selected for standardization in IEEE 802.11, MMAC, and ETSI HiperLAN. **Ramjee Prasad, Ph. D.**, is Wireless Information and Multimedia Chair and Co-Director of the Center for Person-Kommunikation at Aalborg University. He is the author of *CDMA for Wireless Personal Communications* and *Universal Wireless Personal Communications*, and coauthor of *Wideband CDMA for Third Generation Mobile Communications*, all published by Artech House.

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