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Autore	Hara Shinsuke
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Nota di contenuto	1. Introduction -- 2. Characteristics of Multipath Fading Channels -- 3. Principle and History of MCM/OFDM -- 4. OFDM Characteristics -- 5. Pilot-Assisted DFT Window Timing/Frequency Offset Synchronization and Subcarrier Recovery -- 6. Blind Maximum Likelihood-Based Joint DFT Window Timing/Frequency Offset/DFT Window Width Estimation -- 7. Coded OFDM Scheme to Gain Frequency Diversity Effect -- 8. Applications of OFDM -- 9. Combination of OFDM and CDMA -- 10. Future Research Directions.
Sommario/riassunto	Annotation "As research for future fourth generation (4G) mobile communication systems is underway worldwide in major companies and academic institutions, forward-thinking professionals are striving to gain a thorough understanding of the cutting-edge technologies and design techniques that will make these systems work. This book helps readers do just that by: providing a comprehensive introduction to multicarrier techniques for 4G mobile communications with a special focus on the analytical aspects; explaining radio channel characteristics and phenomena and discussing the advantages and disadvantages of the OFDM scheme; featuring new multicarrier-related techniques, MC-CDMA, research on several 4G systems, and a look at several problems to be overcome with these systems; examining the concept and detail of the OFDM scheme and how to carry out theoretical analysis on the

performance of transmission systems in radio channels; showing how OFDM has been successfully adopted as a modulation scheme in communications systems and broadcasting systems such as ADSL, wireless LANs, and DVB-T."--BOOK JACKET. Title Summary field provided by Blackwell North America, Inc. All Rights Reserved.

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