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Orthogonal Frequency Division Multiplexing (OFDM) systems are widely used in the standards for digital audio/video broadcasting, WiFi and WiMax. Being a frequency-domain approach to communications, OFDM has important advantages in dealing with the frequency-selective nature of high data rate wireless communication channels.

OFDM Systems for Wireless Communications | Synthesis

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OFDM for wireless communications systems / Ramjee Prasad. p. cm—(Artech House universal personal communications series) Includes bibliographical references and index. ISBN 1-58053-796-0 (alk. paper) 1. Wireless communication systems. 2. Multiplexing. 3. Orthogonalization methods. I. Title. II. Series. TK5103.2.P715 2004 621.382—dc22 2004053828

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Abstract: Orthogonal Frequency Division Multiplexing (OFDM) systems are widely used in the standards for digital audio/video broadcasting, WiFi and WiMax. Being a frequency-domain approach to communications, OFDM has important advantages in dealing with the frequency-selective nature of high data rate wireless communication channels.

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OFDM is used in: Digital Radio Mondiale DRM Digital Audio Broadcasting (DAB) Digital television DVB-T / T2 (terrestrial), DVB-H (handheld), DMB-T/H, DVB-C2 (cable) Wireless LAN IEEE 802.11a, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac, and IEEE 802.11ad WiMAX Li-Fi ADSL (G.dmt / ITU G.992.1) The LTE ...

Orthogonal frequency-division multiplexing - Wikipedia

The use of OFDM and multicarrier modulation in general has come to the fore in recent years as it provides an ideal platform for wireless data communications transmissions. However the concept of OFDM technology was first investigated in the 1960s

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and 1970s during research into methods for reducing interference between closely spaced channels.

What is OFDM: Orthogonal Frequency Division Multiplexing ...

The symbol sequence is converted to parallel format IFFT (OFDM modulation) is applied to convert the block of frequency data to a block of time data that modulates the carrier. The sequence is once again converted to the serial format.

Basics of OFDM In Wireless Communications ~ Wireless

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A Practical OFDM System: Fixed Broadband Wireless Access (FBWA).

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OFDM is a key technology for beyond 3G communications, promising robust, high capacity, high speed wireless broadband multimedia networks. In this practical resource, established and new technologies are explained clearly and comprehensively, from OFDM basics to a detailed account of a new technique, hybrid OFDM CDMA slow frequency hopping.

ARTECH HOUSE USA : OFDM for Wireless Communications Systems

Wireless Communications In OFDM, the spectra of subcarriers overlap but remain orthogonal to each other. This means that at the maximum of each subcarrier spectrum, all the spectra of other subcarriers are zero.

Orthogonality of OFDM In Wireless Communications ...

Abstract: In this survey paper, we focus on the offset quadrature amplitude modulation-based orthogonal frequency division

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multiplexing (OQAM-OFDM)-based wireless communications in future Internet of Things (IoT). First, we present the OQAM-OFDM-based wireless communication system model for IoT and show its superiority compared with OFDM.

OQAM-OFDM for Wireless Communications in Future Internet ...

The second edition to OFDM Baseband Receiver Design for Wireless Communications, this book expands on the earlier edition with enhanced coverage of MIMO techniques, additional baseband algorithms, and more IC design examples. The authors cover the full range of OFDM technology, from theories and algorithms to architectures and circuits.

Baseband Receiver Design for Wireless MIMO-OFDM ...

Multicarrier techniques, including OFDM-based wireless systems, will provide the solution for future-generation wireless

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communications. The following provides some of the justification: 1. Multicarrier techniques can combat hostile frequency-selective fading encountered in mobile communications.

OFDM for Wireless Communications Systems

Orthogonal frequency division multiplexing (OFDM) is a popular method for high data rate wireless transmission.

Broadband MIMO-OFDM Wireless Communications

Description : Orthogonal Frequency Division Multiplexing (OFDM) systems are widely used in the standards for digital audio/video broadcasting, WiFi and WiMax. Being a frequency-domain approach to communications, OFDM has important advantages in dealing with the frequency-selective nature of high data rate wireless communication channels.

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