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MIMO-OFDM The main motivation for using OFDM in a MIMO channel is the fact that OFDM modulation turns a frequency-selective MIMO channel into a set of parallel frequency-flat MIMO channels. This renders multi-channel

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equalization particularly simple, since for each OFDM-tone only a constant matrix has to be inverted [8,9]. In a MIMO-OFDM system with N subcarriers (or tones) the individual data streams are

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Principles of MIMO-OFDM Wireless Systems. The use of multiple antennas at both ends of a wireless link (MIMO technology) holds the potential to drastically improve the spectral efficiency and link reliability in future wireless communications systems. A particularly promising candidate for next-generation fixed and mobile wireless

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systems is the combination of MIMO technology with Orthogonal Frequency Division Multiplexing (OFDM).

[PDF] Principles of MIMO-OFDM Wireless Systems | Semantic ...

This has been made possible through breakthrough wireless technologies such as Code Division for Multiple Access

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(CDMA), Orthogonal Frequency Division Multiplexing (OFDM), Multiple Input Multiple Output (MIMO). These techniques form the basis of understanding the world of 3G/4G wireless communication systems.

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By Prof. Aditya K. Jagannatham | IIT Kanpur. Signal estimation theory provides a wide variety of tools and techniques which form the basis for several key applications in modern wireless communications and signal processing. Various signal processing procedures in communication systems such as channel estimation,

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equalization, synchronization etc, which are also employed in MIMO-OFDM based 3G/ 4G wireless systems, are based on fundamental concepts in estimation theory.

Principles of Signal Estimation for MIMO/ OFDM Wireless ...

authorities in the subject of OFDM. Its

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coverage consists of principles, important wireless topics (e.g. Synchronization, channel estimation, etc.) and techniques. Included is information for advancing wireless communication in a multipath environment with an emphasis on implementation of OFDM in base stations. Orthogonal Frequency Division

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Multiplexing for Wireless Communications provides a comprehensive introduction of the theory and practice of OFDM.

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The field of wireless communications has

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witnessed revolutionary technology developments in the last decade. While previously there existed only 2G GSM based...

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Orthogonal frequency division multiplexing (OFDM) is a popular method

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for high data rate wireless transmission.

Broadband MIMO-OFDM Wireless Communications

SVD in MIMO; Principles of OFDM
Wireless Communication. Capacity of
MIMO Wireless Systems; SVD based
MIMO Transmission; Orthogonal
Frequency Division Multiplexing (OFDM)

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Transmission in Multicarrier Systems;
FFT/IFFT Processing in OFDM; Cyclic
Prefix in OFDM Systems; Schematic
Representation of OFDM Transmitter and
Receiver; BER Performance of OFDM
Systems

**NPTEL :: Electronics &
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This course is an introduction to the design, analysis, and fundamental limits of wireless transmission systems. Topics to be covered include: wireless channel and system models; fading and diversity; resource management and power control; multiple-antenna and MIMO systems; space-time codes and

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decoding algorithms; multiple-access techniques and multiuser detection; broadcast codes and ...

Principles of Wireless Communications | Electrical ...

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technology spectral efficiency promising
candidate basic principle future wireless
communication system wireless link
mobile wireless system link reliability
orthogonal frequency division
multiplexing multiple antenna

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Multuser MIMO-OFDM for next-generation wireless systems ...

Principles of Modern CDMA/MIMO/OFDM
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revolutionary technology developments in the last decade.

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A generalized MIMO wireless communication system. The main idea behind MIMO is that, the sampled signals

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in spatial domain at both the transmitter and receiver end are combined so that they form effective multiple parallel

Multiple Input Multiple Output (MIMO) Operation Principles

in the header mobile buku mimo ofdm wireless communications with matlab mimo ofdm systems are the norm in

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current wireless systems eg 5g nr lte wlan due to their robustness to frequency selective channels and high data rates enabled with ever increasing demands on data rates supported these systems are getting more complex and

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