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significantly reduces receiver complexity in wireless broadband systems. The use of

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MIMO technology in combination with OFDM, i.e., MIMO-OFDM [8,9,13], therefore seems to be an attractive solution for future broadband wireless systems. The purpose of this chapter is to provide a survey of the basic principles of MIMO-OFDM. Most

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The use of multiple

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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 systems is the combination of MIMO technology with Orthogonal Frequency

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Division Multiplexing  
(OFDM).

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Semantic ...**

This has been made possible through breakthrough wireless technologies such as Code Division for Multiple Access (CDMA), Orthogonal Frequency Division Multiplexing (OFDM), Multiple Input Multiple

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Output (MIMO). These techniques form the basis of understanding the world of 3G/4G wireless communication systems.

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Principles of Signal Estimation for MIMO/OFDM Wireless Communication By Prof. Aditya K. Jagannatham | IIT



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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.

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A particularly promising candidate

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for next-generation fixed and mobile wireless systems is the combination of MIMO technology with Orthogonal Frequency Division Multiplexing (OFDM). This chapter provides an overview of the basic principles of MIMO-OFDM.

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Orthogonal Frequency

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Division Multiplexing  
for Wireless  
Communications-Ye  
Geoffrey Li 2006-05-31  
Orthogonal Frequency  
Division Multiplexing  
for Wireless

Communications is an  
edited volume with  
contributions by  
leading authorities in  
the subject of OFDM.  
Its coverage consists of  
principles, important  
wireless topics (e.g.

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*Page 11/28*

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## Mimo Ofdm Wireless Systems... Systems

MIMO-OFDM systems. Section II describes the basic MIMO-OFDM system model. All MIMO-OFDM receivers must perform time synchronization, frequency offset estimation, and correction and parameter estimation. This is generally carried out using a preamble consisting of one or more training

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sequences. Once the acquisition phase is over,

## **Broadband MIMO-OFDM Wireless Communications**

The field of wireless communications has witnessed revolutionary technology developments in the last decade. While previously there existed only 2G GSM based...

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## **Principles of Modern CDMA/ MIMO/ OFDM Wireless ...**

2 Background of  
Multiple Input Multiple  
Output 2.1 Introduction  
The multiple input  
multiple output  
channel technology is  
aimed to increase the  
capacity in the wireless  
communication  
network. With the  
invention of MIMO, the  
technology seems to  
gain popularity as it is

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being implemented in  
the current commercial  
wireless

## **Multiple Input Multiple Output (MIMO) Operation Principles**

MIMO-OFDM is a  
key technology for next-  
generation cellular  
communications (3GPP-  
LTE, Mobile WiMAX,  
IMT-Advanced) as well  
as wireless LAN (IEEE  
802.11a, IEEE  
802.11n), wireless PAN

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Mimo Ofdm  
Wireless Systems  
(MB-OFDM), and  
broadcasting (DAB,  
DVB, DMB).

## **MIMO-OFDM WIRELESS COMMUNICATIONS WITH MATLAB**

Beginning with a brief overview of the basic concepts of maximum likelihood (ML) and Least Squares Estimation (LS), this course will comprehensively cover several applications of



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estimation theory in wireless communications such as channel estimation, equalization, MIMO, OFDM. Further, we will also cover Bayesian Estimation, MMSE, LMMSE principles.

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Communications.

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Wireless

Communications.

Instructor: Prof. Aditya

K. Jagannatham,

Department of

Electrical Engineering,

IIT Kanpur. The field of

wireless

communications has

witnessed

revolutionary

technology

developments in the

last decade.

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Kanpur Signal  
estimation theory  
provides a wide variety  
of tools and techniques  
which form the basis  
for several key  
applications in modern

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signal

## **Principles Of Modern Wireless Communication Systems**

Abstract: A simple MIMO-OFDM wireless communication system is constructed based on the analysis of the technical principles and the system models of the MIMO technology and the OFDM

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technology. The system combines the MIMO system and the OFDM system together, space-time coding is done in the transmitter firstly, the signal is launched after OFDM modulated, and the process of the receiver is ...

## **Research and Simulation of MIMO- OFDM Wireless ...**

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49: Schematic  
Representation of OFDM  
Transmitter and ...

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## Mimo Ofdm Wireless Systems **NPTEL :: Electronics & Communication Engineering - NOC ...**

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



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precoding; cellular and  
ad-hoc network  
topologies; OFDM and  
ultrawideband  
systems; and  
architectural issues.

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The Ministry of Human  
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is responsible for the  
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resources. The ministry  
is divided into two

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departments: the Department of School Education and Literacy, which deals with primary and secondary education, adult education and literacy, and the Department of Higher Education, which deals with university education, technical education, scholarship etc.

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[NOC15 EC05]

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ASSIGNMENT -8 1.

Orthogonal Frequency  
Division Multiplexing  
(OFDM) is used in  
which of the following  
wireless technologies

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