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In telecommunications, orthogonal frequency-division multiplexing (OFDM) is a type of digital transmission and a method

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of encoding digital data on multiple carrier frequencies. OFDM has developed into a popular scheme for wideband digital communication, used in applications such as digital television and audio broadcasting, DSL internet access, wireless networks, power line networks, and 4G ...

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Orthogonal frequency-division multiplexing  
- Wikipedia

Orthogonal Frequency Division

Multiplexing (OFDM) is an emerging multi-carrier modulation scheme, which has been adopted for several wireless standards such as IEEE 802.11a and HiperLAN2. A well-known problem of OFDM is its sensitivity to

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Interference With Adjacent  
frequency offset between the transmitted and received carrier frequencies. This frequency offset introduces inter-carrier interference (ICI) in the OFDM symbol.

## INTER CARRIER INTERFERENCE CANCELLATION IN OFDM SYSTEMS

Basic concept of OFDM, Orthogonal

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Frequency Division Multiplexing One requirement of the OFDM transmitting and receiving systems is that they must be linear. Any non-linearity will cause interference between the carriers as a result of inter-modulation distortion.

What is OFDM: Orthogonal Frequency

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The OFDM scheme differs from traditional FDM in the following interrelated ways: 1. Multiple carriers (called subcarriers) carry the information stream, 2. The subcarriers are orthogonal to each other, and 3. A guard interval is added to each symbol to minimize the channel delay spread and ...



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Sheng Hong et al. (2019) proposed a signal modulation recognition algorithm based on DL and applied it to the signal recognition of orthogonal frequency-division multiplexing (OFDM) systems.

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(PDF) Deep Learning-Based Signal  
Modulation Identification ...

istic based on the pilot signals in each individual OFDM data block. Recently, an elegant channel estimation method for OFDM mobile communication systems has been proposed by Zhao and Huang [3]. In

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this method, the additive white Gaussian noise (AWGN) and the inter-carrier interference (ICI) in the pilot sub-

Channel Estimation For OFDM Systems  
Based On Comb-Type ...

Abstract—The channel estimation techniques for OFDM systems based on

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pilot arrangement are investigated. The channel estimation based on comb type pilot arrangement is studied through different algorithms for both estimating channel at pilot frequencies and interpolating the channel. The estimation of channel at pilot frequencies is based on

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Channel Estimation Techniques Based on  
Pilot Arrangement ...

16 IV. P E R F O R M A N C E D

EMONSTRATION Numerical simulations  
5 displaying the BER and throughput  
performance of OFDM-SPM were  
conducted. Table I shows the simulation  
parameters adopted in this study. The

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system was simulated in a multipath Rayleigh fading environment. The channel is slowly time-varying such that it is assumed to be constant for a block of OFDM symbols, but changes independently ...

OFDM based modulation schemes such as SIM OFDM 32 were ...

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**Abstract:** A spectrally-localized waveform is proposed based on filtered orthogonal frequency division multiplexing (f-OFDM). By allowing the filter length to exceed the cyclic prefix (CP) length of OFDM and designing the filter appropriately, the proposed f-OFDM waveform can achieve a desirable frequency localization for

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bandwidths as narrow as a few tens of subcarriers, while keeping the inter-symbol interference/inter-carrier interference (ISI/ICI) within an acceptable limit.

Filtered OFDM: A new waveform for future wireless systems ...  
for numerology selection of OFDM systems.



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Considering the inter-symbol interference (ISI), inter-carrier interference (ICI) and noise level, the SNR loss is established as the objective to be minimized. We extract the power delay profile, mobile velocity and noise power as the input features to the DNN. The

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Numerology Selection for OFDM Systems  
Based on Deep Neural ...

In the design of wireless OFDM systems, the channel is usually assumed to have a finite-length impulse response. A cyclic extension, longer than this impulse response, is put between consecutive...

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On Channel Estimation in OFDM Systems  
29 Mar. First-generation mobile telephony was based on analog technology, while 2G was the first digital communication system that was based in Time Division Multiple Access (TDMA). 3G introduced Code Division Multiple Access, while 4G used Orthogonal Frequency Division Multiple

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Access (OFDMA) for the Downlink and  
Digital Fourier Transformation – Spread  
– OFDMA (DFT-S-OFDMA) for the  
Uplink. 5G technology is also planning to  
use Orthogonal Frequency Division  
Multiple Access (OFDMA) for ...

5G OFDM Technology - 5G HUB

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Abstract: The channel estimation methods for OFDM systems based on a comb-type pilot sub-carrier arrangement are investigated. The channel estimation algorithm based on comb-type pilots is divided into pilot signal estimation and channel interpolation. The pilot signal estimation based on LS or MMSE criteria,

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interference With Subcarriers together with channel interpolation based on piecewise-linear interpolation or piecewise second-order polynomial interpolation is studied.

Channel estimation for OFDM systems based on comb-type ...

With OFDM, subcarriers are cleverly

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allocated close to each other. This results in overlapping the spectrum and it eliminates the spectral utilization drawback of standard FDM without introducing inter-channel interference. OFDM achieves this compacting property, without introducing interference, by making subcarriers orthogonal to each other.

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OFDM in LTE - Behind The Scenes

To reduce jointly the OoBE and peak to average power ratio of the OFDM based system, a method called alignment suppression, which generates a suppression signal, has been proposed . As this method utilizes the original redundant



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CP in the OFDM symbol, it does not reduce transmission efficiency.

Spectral encapsulation of OFDM systems based on ...

ISI and ICI are caused in OFDM based systems. ISI-Inter Symbol Interference. In OFDM based systems, the transmission

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takes place symbol by symbol. Before the symbol transmission, symbols are packed with complex modulated data symbols. For example, in WLAN 802.11a based system, one symbol is composed of 64 point FFT.

ISI vs ICI | difference between ISI and ICI  
In this letter, we propose a deep neutral

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network (DNN) approach for numerology selection of OFDM systems. Considering the inter-symbol interference (ISI), inter-carrier interference (ICI) and noise level, the SNR loss is established as the objective to be minimized.

[2011.04247] Numerology Selection for

*Page 35/70*

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## OFDM Systems Based... Interference With Asb

Orthogonal frequency division multiplexing (OFDM) is proved to be the best candidate to support the colossal increase in mobile users and their required high rate of transmission in frequency selective fading environments, where the inter-symbol interference is at highest.

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Application. The editors have built Issues in Electronics Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.<sup>TM</sup> You can expect the information about Electronics Research and Application in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed,

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Conference on Recent Advancement in  
Computer, Communication and  
Computational Sciences (RACCCS-2017),  
held at Aryabhata College of Engineering &  
Research Center, Ajmer, India on  
September 2 – 3, 2017, presenting the latest  
developments and technical solutions in  
computational sciences. Data science, data-

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and knowledge engineering require networking and communication as a backbone and have a wide scope of implementation in engineering sciences. Keeping this ideology in mind, the book offers insights that reflect the advances in these fields from upcoming researchers and leading academicians across the globe.

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Covering a variety of topics, such as intelligent hardware and software design, advanced communications, intelligent computing technologies, advanced software engineering, the web and informatics, and intelligent image processing, it helps those in the computer industry and academia use the advances of next-generation

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communication and computational  
technology to shape real-world applications.

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

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communications, OFDM has important advantages in dealing with the frequency-selective nature of high data rate wireless communication channels. As the needs for operating with higher data rates become more pressing, OFDM systems have emerged as an effective physical-layer solution. This short monograph is intended

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as a tutorial which highlights the deleterious aspects of the wireless channel and presents why OFDM is a good choice as a modulation that can transmit at high data rates. The system-level approach we shall pursue will also point out the disadvantages of OFDM systems especially in the context of peak to average ratio, and carrier

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frequency synchronization. Finally, simulation of OFDM systems will be given due prominence. Simple MATLAB programs are provided for bit error rate simulation using a discrete-time OFDM representation. Software is also provided to simulate the effects of inter-block-interference, inter-carrier-interference and

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signal clipping on the error rate  
performance. Different components of the  
OFDM system are described, and detailed  
implementation notes are provided for the  
programs. The program can be downloaded  
here. Table of Contents: Introduction /  
Modeling Wireless Channels / Baseband  
OFDM System / Carrier Frequency Offset /



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Peak to Average Power Ratio / Simulation of  
the Performance of OFDM Systems /  
Conclusions

The 2nd Edition of Optical Wireless  
Communications: System and Channel

*Page 49/70*

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Modelling with MATLAB® with additional new materials, is a self-contained volume that provides a concise and comprehensive coverage of the theory and technology of optical wireless communication systems (OWC). The delivery method makes the book appropriate for students studying at undergraduate and graduate levels as well as

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researchers and professional engineers working in the field of OWC. The book gives a detailed description of OWC, focusing mainly on the infrared and visible bands, for indoor and outdoor applications. A major attraction of the book is the inclusion of Matlab codes and simulations results as well as experimental test-beds for

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free space optics and visible light communication systems. This valuable resource will aid the readers in understanding the concept, carrying out extensive analysis, simulations, implementation and evaluation of OWC links. This 2nd edition is structured into nine compact chapters that cover the main

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aspects of OWC systems: History, current  
state of the art and challenges Fundamental  
principles Optical source and detector and  
noise sources Modulation, equalization,  
diversity techniques Channel models and  
system performance analysis Visible light  
communications Terrestrial free space optics  
communications Relay-based free space

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optics communications Matlab codes. A number of Matlab based simulation codes are included in this 2nd edition to assist the readers in mastering the subject and most importantly to encourage them to write their own simulation codes and enhance their knowledge.

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This 5-volume set (CCIS 214-CCIS 218) constitutes the refereed proceedings of the International Conference on Computer Science, Environment, Ecoinformatics, and Education, CSEE 2011, held in Wuhan, China, in July 2011. The 525 revised full papers presented in the five volumes were carefully reviewed and selected from

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numerous submissions. The papers are organized in topical sections on information security, intelligent information, neural networks, digital library, algorithms, automation, artificial intelligence, bioinformatics, computer networks, computational system, computer vision, computer modelling and simulation,



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control, databases, data mining, e-learning, e-commerce, e-business, image processing, information systems, knowledge management and knowledge discovering, multimedia and its application, management and information system, mobile computing, natural computing and computational intelligence, open and innovative education,

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pattern recognition, parallel and computing,  
robotics, wireless network, web application,  
other topics connecting with computer,  
environment and ecoinformatics, modeling  
and simulation, environment restoration,  
environment and energy, information and  
its influence on environment, computer and  
ecoinformatics, biotechnology and biofuel,

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as well as biosensors and bioreactor.

High-speed optical communication is very much useful in telecommunication systems, data processing and networking. It consists of a transmitter that encodes a message into an optical signal, a channel that carries this optical signal to its desired destination, and a

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receiver that reproduces the message from the received optical signal. It presents up to date results on communication systems, along with the explanations of their relevance, from leading researchers in this field. The chapters of this book cover general concepts of high-speed optical communication, optical devices used optical

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communication, and optical  
communication systems. In recent years,  
optical devices and other enhanced signal  
processing functions are also considered in  
depth for high-speed optical  
communications systems. Commonly used  
optical devices are light emitting diodes and  
photodetectors. This book is targeted at

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research, development and design engineers from the teams in manufacturing industry, academia and telecommunication industries.

This book constitutes the refereed proceedings of the 6th International Conference on Information Processing,

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ICIP 2012, held in Bangalore, India, in August 2012. The 75 revised full papers presented were carefully reviewed and selected from 380 submissions. The papers are organized in topical sections on wireless networks; image processing; pattern recognition and classification; computer architecture and distributed computing;

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software engineering, information  
technology and optimization techniques;  
data mining techniques; computer networks  
and network security.

With the increased functionality demand for  
mobile speed and access in our everyday  
lives, broadband wireless networks have



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emerged as the solution in providing high data rate communications systems to meet these growing needs. Broadband Wireless Access Networks for 4G: Theory, Application, and Experimentation presents the latest trends and research on mobile ad hoc networks, vehicular ad hoc networks, and routing algorithms which occur within

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Interference With Adjacent Various mobile networks. This publication smartly combines knowledge and experience from enthusiastic scholars and expert researchers in the area of wideband and broadband wireless networks. Students, professors, researchers, and other professionals in the field will benefit from this book ' s practical applications and

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This book features high-quality research papers presented at the 3rd International Conference on Computational Intelligence in Pattern Recognition (CIPR 2021), held at the Institute of Engineering and Management, Kolkata, West Bengal, India,

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on 24 – 25 April 2021. It includes practical development experiences in various areas of data analysis and pattern recognition, focusing on soft computing technologies, clustering and classification algorithms, rough set and fuzzy set theory, evolutionary computations, neural science and neural network systems, image processing,

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combinatorial pattern matching, social network analysis, audio and video data analysis, data mining in dynamic environments, bioinformatics, hybrid computing, big data analytics and deep learning. It also provides innovative solutions to the challenges in these areas and discusses recent developments.

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