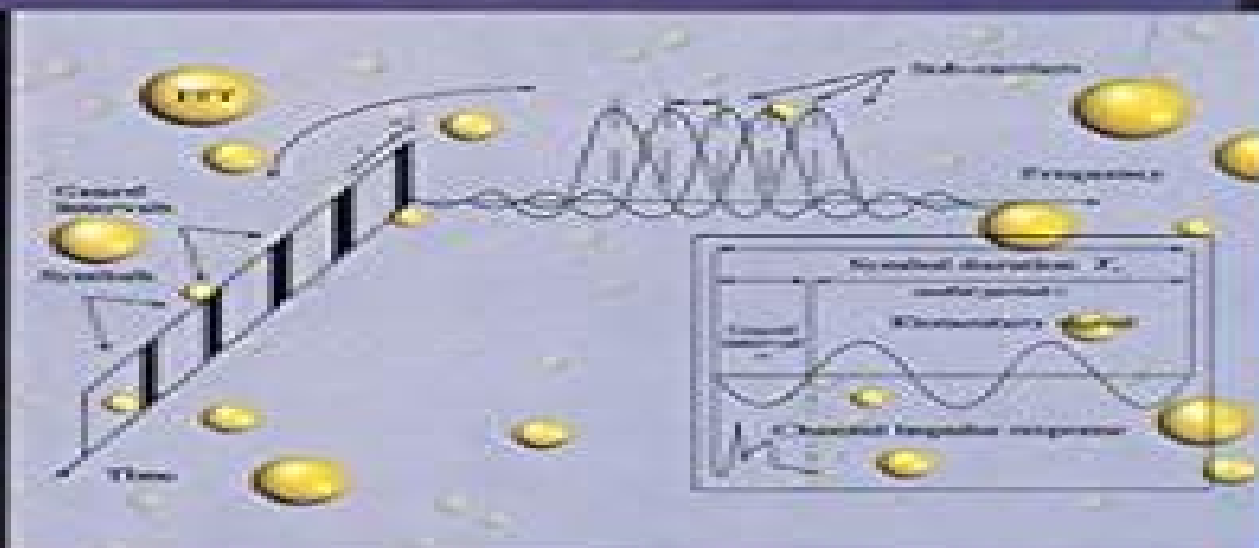


Multi-Carrier Digital Communications Theory and Applications of OFDM

Second Edition



Ahmad R. S. Bahai | Burton R. Saltzberg | Mustafa Ergen

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Theory and Design of Digital Communication Systems Tri T. Ha, 2010-10-28 Providing the underlying principles of digital communication and the design techniques of real world systems this textbook prepares senior undergraduate and graduate students for the engineering practices required in industry Covering the core concepts including modulation demodulation equalization and channel coding it provides step by step mathematical derivations to aid understanding of background material In addition to describing the basic theory the principles of system and subsystem design are introduced enabling students to visualize the intricate connections between subsystems and understand how each aspect of the design supports the overall goal of achieving reliable communications Throughout the book theories are linked to practical applications with over 250 real world examples whilst 370 varied homework problems in three levels of difficulty enhance and extend the text material With this textbook students can understand how digital communication systems operate in the real world learn how to design subsystems and evaluate end to end performance with ease and confidence

Digital Transmission Dayan Adionel Guimaraes, 2010-01-18 Digital Transmission A Simulation Aided Introduction with VisSim Comm is a book in which basic principles of digital communication mainly pertaining to the physical layer are emphasized Nevertheless these principles can serve as the fundamentals that will help the reader to understand more advanced topics and the associated technology In this book each topic is addressed in two different and complementary ways theoretically and by simulation The theoretical approach encompasses common subjects covering principles of digital transmission like notions of probability and stochastic processes signals and systems baseband and passband signaling signal space representation spread spectrum multi carrier and ultra wideband transmission carrier and symbol timing recovery information theory and error correcting codes The simulation approach revisits the same subjects focusing on the capabilities of the communication system simulation software VisSim Comm on helping the reader to fulfill the gap between the theory and its practical meaning The presentation of the theory is made easier with the help of 357 illustrations A total of 101 simulation files supplied in the accompanying CD support the simulation oriented approach A full evaluation version and a viewer only version of VisSim Comm are also supplied in the CD

Information Theory, Coding and Cryptography Arijit Saha, Nilotpal Manna, Surajit Mandal, 2013 Information Theory Coding Cryptography has been designed as a comprehensive book for the students of engineering discussing Source Encoding Error Control Codes Cryptography The book contains the recent developments of coded modulation trellises for codes turbo coding for reliable data and interleaving The text balances the mathematical rigor with exhaustive amount of solved unsolved questions along with a database of MCQs

Signal Processing in Digital Communications George J. Miao, 2007 Digital signal processing is a fundamental aspect of communications engineering that all practitioners need to understand Now this critical knowledge can be found in a single exhaustive resource Based on the author's extensive research and industry experience the book presents an up to date and comprehensive treatment of all

aspects of digital multi rate adaptive and statistical signal processing technologies Optimization Theory and Applications, Part II, 2005 **Non-Gaussian Statistical Communication Theory** David Middleton, 2012-05-11 The book is based on the observation that communication is the central operation of discovery in all the sciences In its active mode we use it to interrogate the physical world sending appropriate signals and receiving nature's reply In the passive mode we receive nature's signals directly Since we never know a priori what particular return signal will be forthcoming we must necessarily adopt a probabilistic model of communication This has developed over the approximately seventy years since its beginning into a Statistical Communication Theory or SCT Here it is the set or ensemble of possible results which is meaningful From this ensemble we attempt to construct the appropriate model format based on our understanding of the observed physical data and on the associated statistical mechanism analytically represented by suitable probability measures Since its inception in the late 30's of the last century and in particular subsequent to World War II SCT has grown into a major field of study As we have noted above SCT is applicable to all branches of science The latter itself is inherently and ultimately probabilistic at all levels Moreover in the natural world there is always a random background noise as well as an inherent a priori uncertainty in the presentation of deterministic observations i.e. those which are specifically obtained a posteriori The purpose of the book is to introduce Non Gaussian statistical communication theory and demonstrate how the theory improves probabilistic model The book was originally planned to include 24 chapters as seen in the table of preface Dr Middleton completed first 10 chapters prior to his passing in 2008 Bibliography which represents remaining chapters are put together by the author's close colleagues Drs Vincent Poor Leon Cohen and John Anderson email pressbooks@ieee.org to request Ch 10

An Introduction to Analog and Digital Communications Simon Haykin, Michael Moher, 2012-04-13 The second edition of this accessible book provides readers with an introductory treatment of communication theory as applied to the transmission of information bearing signals While it covers analog communications the emphasis is placed on digital technology It begins by presenting the functional blocks that constitute the transmitter and receiver of a communication system Readers will next learn about electrical noise and then progress to multiplexing and multiple access techniques Wiley Encyclopedia of Telecommunications, Volume 2 John G. Proakis, 2003 Contains 275 tutorial articles focused on modern telecommunications topics The contents include articles on communication networks source coding and decoding channel coding and decoding modulation and demodulation optical communications satellite communications underwater acoustic communications radio propagation antennas multiuser communications magnetic storage systems and a variety of standards V 1 p v

Communication Systems Harold P. E. Stern, Samy A. Mahmoud, 2004 The included CD ROM contains PowerPoint based animated presentations designed to reinforce certain examples within the book it also contains pdf files with full color versions of selected figures from the book **Multi-Carrier Digital Communications** Ahmad R.S. Bahai, Burton R. Saltzberg, Mustafa Ergen, 2005-12-30 Multi carrier modulation Orthogonal Frequency Division Multi Mplexing OFDM

particularly has been successfully applied to a wide variety of digital communications applications over the past several years. Although OFDM has been chosen as the physical layer standard for a diversity of important systems the theory, algorithms, and implementation techniques remain subjects of current interest. This is clear from the high volume of papers appearing in technical journals and conferences. Multi carrier modulation continues to evolve rapidly. It is hoped that this book will remain a valuable summary of the technology providing an understanding of new advances as well as the present core technology.

The Intended Audience This book is intended to be a concise summary of the present state of the art of the theory and practice of OFDM technology. The authors believe that the time is ripe for such a treatment. Particularly based on one of the author's long experience in development of wireless systems and the other's in wireline systems, we have attempted to present a unified presentation of OFDM performance and implementation over a wide variety of channels. It is hoped that this will prove valuable both to developers of such systems and to researchers and graduate students involved in analysis of digital communications.

Principles of Communications Rodger E. Ziemer, W. H. Tranter, 2002. Sections on important areas such as spread spectrum, cellular communications, and orthogonal frequency division multiplexing are provided. Computational examples are included illustrating how to use the computer as a simulation tool, thereby allowing waveforms, spectra, and performance curves to be generated. Overviews of the necessary background in signal system probability and random process theory required for the analog and digital communications topics covered in the book.

Digital Communication Techniques Marvin Kenneth Simon, Sami M. Hinedi, William C. Lindsey, 1995. Written by internationally recognized leaders in the field, this volume presents complete, comprehensive, and modern coverage of the theory and practice of signal design and detection in digital communications. Based on the authors' vast industrial experience, it explores the basics as well as the state-of-the-art developments in both modulation and detection.

Wiley Encyclopedia of Telecommunications, 2003.

Error Control Systems for Digital Communication and Storage Stephen B. Wicker, 1995. For introductory graduate courses in coding for telecommunications engineering. This introductory text on error control coding focuses on key implementation issues and performance analysis with applications valuable to both mathematicians and engineers.

Acoustic Waves Gordon S. Kino, 1987.

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Analog and Digital Communication William David Gregg, 1977.

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