

K. Deergha Rao

Channel Coding Techniques for Wireless Communications

Second Edition



Springer

Channel Coding Techniques For Wireless Communications

Tolga M. Duman, Ali Ghayeb



Channel Coding Techniques For Wireless Communications:

Channel Coding Techniques for Wireless Communications K. Deerga Rao, 2015 The book discusses modern channel coding techniques for wireless communications such as turbo codes low density parity check LDPC codes space time ST coding RS or Reed Solomon codes and convolutional codes Many illustrative examples are included in each chapter for easy understanding of the coding techniques The text is integrated with MATLAB based programs to enhance the understanding of the subject s underlying theories It includes current topics of increasing importance such as turbo codes LDPC codes Luby transform LT codes Raptor codes and ST coding in detail in addition to the traditional codes such as cyclic codes BCH or Bose Chaudhuri Hocquenghem and RS codes and convolutional codes Multiple input and multiple output MIMO communications is a multiple antenna technology which is an effective method for high speed or high reliability wireless communications PC based MATLAB m files for the illustrative examples are provided on the book page on Springer com for free download which will help students and researchers involved in advanced and current concepts in coding theory Channel coding the core of digital communication and data storage has undergone a major revolution as a result of the rapid growth of mobile and wireless communications The book is divided into 11 chapters Assuming no prior knowledge in the field of channel coding the opening chapters 1 2 begin with basic theory and discuss how to improve the performance of wireless communication channels by using channel coding Chapters 3 4 introduce Galois fields and present detailed coverage of BCH codes and RS codes Chapters 5 7 introduce the family of convolutional codes hard and soft decision Viterbi algorithms turbo codes BCJR or Bahl Cocke Jelinek Raviv algorithm for turbo decoding and studies trellis coded modulation TCM turbo TCM TTCM bit interleaved coded modulation BICM as well as iterative BICM BICM ID and compares them under various channel conditions Chapters 8 9 focus on LDPC codes LT codes and Raptor codes Chapters 10 11 discuss MIMO systems and ST coding

Wireless Communications Giorgio A. Vitetta, Desmond P. Taylor, Giulio Colavolpe, Fabrizio Pancaldi, Philippa A. Martin, 2013-03-29 This book introduces the theoretical elements at the basis of various classes of algorithms commonly employed in the physical layer and in part in MAC layer of wireless communications systems It focuses on single user systems so ignoring multiple access techniques Moreover emphasis is put on single input single output SISO systems although some relevant topics about multiple input multiple output MIMO systems are also illustrated Comprehensive wireless specific guide to algorithmic techniques Provides a detailed analysis of channel equalization and channel coding for wireless applications Unique conceptual approach focusing in single user systems Covers algebraic decoding modulation techniques channel coding and channel equalisation

Modulation and Coding Techniques in Wireless Communications Evgenii Krouk, Sergei Semenov, 2011-02-21 The high level of technical detail included in standards specifications can make it difficult to find the correlation between the standard specifications and the theoretical results This book aims to cover both of these elements to give accessible information and support to readers It explains the current and future trends on

communication theory and shows how these developments are implemented in contemporary wireless communication standards. Examining modulation coding and multiple access techniques, the book is divided into two major sections to cover these functions. The two-stage approach first treats the basics of modulation and coding theory before highlighting how these concepts are defined and implemented in modern wireless communication systems. Part 1 is devoted to the presentation of main L1 procedures and methods including modulation coding, channel equalization, and multiple access techniques. In Part 2, the uses of these procedures and methods in the wide range of wireless communication standards including WLAN, WiMax, WCDMA, HSPA, LTE, and cdma2000 are considered. An essential study of the implementation of modulation and coding techniques in modern standards of wireless communication bridges the gap between the modulation coding theory and the wireless communications standards material. Divided into two parts to systematically tackle the topic, the first part develops techniques which are then applied and tailored to real-world systems; in the second part, it covers special aspects of coding theory and how these can be effectively applied to improve the performance of wireless communications systems.

Channel Coding Techniques for Wireless Communications K. Deergha Rao, 2019-11-22. This book discusses the latest channel coding techniques, MIMO systems, and 5G channel coding evolution. It provides a comprehensive overview of channel coding, covering modern techniques such as turbo codes, low-density parity check (LDPC) codes, space-time coding, polar codes, LT codes, and Raptor codes, as well as the traditional codes such as cyclic codes, BCH codes, RS codes, and convolutional codes. It also explores MIMO communications, which is an effective method for high-speed or high-reliability wireless communications. It also examines the evolution of 5G channel coding techniques. Each of the 13 chapters features numerous illustrative examples for easy understanding of the coding techniques, and MATLAB-based programs are integrated in the text to enhance readers' grasp of the underlying theories. Further, PC-based MATLAB m-files for illustrative examples are included for students and researchers involved in advanced and current concepts of coding theory. [Channel Coding Techniques for Network Communication](#) Lele Wang, 2015. Next-generation wireless networks aim to enable order-of-magnitude increases in connectivity, capacity, and speed. Such a goal can be achieved in part by utilizing larger frequency bandwidth or by deploying denser base stations. As the number of wireless devices is exploding, however, it is inevitable that multiple devices communicate over the same time and same spectrum. Consequently, improving the spectral efficiency in wireless networks with multiple senders and receivers becomes the key challenge. This dissertation investigates low-complexity channel coding techniques that implement canonical random coding schemes in network information theory, such as universal channel coding, superposition coding, rate splitting, successive cancellation, simultaneous decoding, decode-forward relaying, compress-forward relaying, and Slepian-Wolf coding. In representative communication scenarios such as compound channels, interference channels, broadcast channels, and relay channels, the proposed channel coding techniques achieve the best known information-theoretic performance, some utilizing the recently invented polar codes and some making use of the

commercial off the shelf codes e.g turbo and LDPC codes These techniques have a potential to become important building blocks towards a general theory of channel coding techniques for the next generation high spectral efficiency low power broad coverage wireless communication

Digital Communications 1 Didier Le Ruyet, Mylène Pischella, 2015-10-02 The communication chain is constituted by a source and a recipient separated by a transmission channel which may represent a portion of cable an optical fiber a radio channel or a satellite link Whatever the channel the processing blocks implemented in the communication chain have the same foundation This book aims to itemize In this first volume after having presented the base of the information theory we will study the source coding techniques with and without loss Then we analyze the correcting codes for block errors convolutional and concatenated used in current systems

Coding for MIMO Communication Systems Tolga M. Duman, Ali Ghayeb, 2008-03-11 Coding for MIMO Communication Systems is a comprehensive introduction and overview to the various emerging coding techniques developed for MIMO communication systems The basics of wireless communications and fundamental issues of MIMO channel capacity are introduced and the space time block and trellis coding techniques are covered in detail Other signaling schemes for MIMO channels are also considered including spatial multiplexing concatenated coding and iterative decoding for MIMO systems and space time coding for non coherent MIMO channels Practical issues including channel correlation channel estimation and antenna selection are also explored with problems at the end of each chapter to clarify many important topics A comprehensive book on coding for MIMO techniques covering main strategies Theories and practical issues on MIMO communications are examined in detail Easy to follow and accessible for both beginners and experienced practitioners in the field References at the end of each chapter for further reading Can be used with ease as a research book or a textbook on a graduate or advanced undergraduate level course This book is aimed at advanced undergraduate and postgraduate students researchers and practitioners in industry as well as individuals working for government military science and technology institutions who would like to learn more about coding for MIMO communication systems

Modulation and Coding Techniques in Wireless Communications Evgenii Krouk, Sergei Semenov, 2011-01-19 The high level of technical detail included in standards specifications can make it difficult to find the correlation between the standard specifications and the theoretical results This book aims to cover both of these elements to give accessible information and support to readers It explains the current and future trends on communication theory and shows how these developments are implemented in contemporary wireless communication standards Examining modulation coding and multiple access techniques the book is divided into two major sections to cover these functions The two stage approach first treats the basics of modulation and coding theory before highlighting how these concepts are defined and implemented in modern wireless communication systems Part 1 is devoted to the presentation of main L1 procedures and methods including modulation coding channel equalization and multiple access techniques In Part 2 the uses of these procedures and methods in the wide range of wireless communication

standards including WLAN WiMax WCDMA HSPA LTE and cdma2000 are considered An essential study of the implementation of modulation and coding techniques in modern standards of wireless communication Bridges the gap between the modulation coding theory and the wireless communications standards material Divided into two parts to systematically tackle the topic the first part develops techniques which are then applied and tailored to real world systems in the second part Covers special aspects of coding theory and how these can be effectively applied to improve the performance of wireless communications systems

Space-Time Coding for Broadband Wireless Communications Georgios B. Giannakis, Zhiqiang Liu, Xiaoli Ma, Sheng Zhou, 2007-02-26 Eine vielversprechende Technologie zur Maximierung der Bandbreiteneffizienz in der breitbandigen drahtlosen Kommunikation ist die Raum Zeit Kodierung Theorie und Praxis verbindend ist dieses Buch die erste umfassende Diskussion von Grundlagen und designorientierten Aspekten von Raum Zeit Codes Single Carrier und Multi Carrier bertragungen f r Einzel und Mehrnutzerkommunikation werden behandelt

Channel Coding: Theory, Algorithms, and Applications ,2014-07-29 This book gives a review of the principles methods and techniques of important and emerging research topics and technologies in Channel Coding including theory algorithms and applications Edited by leading people in the field who through their reputation have been able to commission experts to write on a particular topic With this reference source you will Quickly grasp a new area of research Understand the underlying principles of a topic and its applications Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Quick tutorial reviews of important and emerging topics of research in Channel Coding Presents core principles in Channel Coding theory and shows their applications Reference content on core principles technologies algorithms and applications Comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge

Unveiling the Magic of Words: A Review of "**Channel Coding Techniques For Wireless Communications**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Channel Coding Techniques For Wireless Communications**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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