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Modulation and Coding Techniques in Wireless Communications **Principles of Digital Communication and Coding Cracking the Communication Code Theory of Code Division Multiple Access Communication Optical Code Division Multiple Access Communication Networks *Code-Switching in Computer-Mediated Communication Pulse Code Formats for Fiber Optical Data Communication* Error-Control Techniques for Digital Communication The Changing Code of Communication in Hausa Films Universal Codes of Media in International Political Communications: Emerging Research and Opportunities *Codebreaker* Speech Codes, Ciphers, Secrets and Cryptic Communication *Code Division Multiple Access Communications Codes: An Introduction to Information Communication and Cryptography Revel for Communication: Making Connections-- Access Card Theory of Code Division Multiple Access Communication* Error Detecting Codes Class, Codes and Control: Theoretical studies towards a sociology of language Introduction to Analog and Digital Communication Means of Acquisition and Communication of Ocean Data The Language of Love and Respect Arduino Kochbuch Speech Managerial Communication Communication Fundamental Concepts in Communication The Language of Love & Respect Communication *Mobile tagging im Marketing* The Electronic Communications Code and Property Law *Communication by 31 Bit Hamming Code Transceiver* Introduction to Digital Communication Systems The electronic communications code Turbo Coding for Satellite and Wireless Communications *Mathematische Grundlagen der Informationstheorie On Spectrally Bounded Codes for Multicarrier Communications* Data Communication Systems Codes of the Underworld Between The Languages: Code-Switching in Bilingual Communication**

Pulse Code Formats for Fiber Optical Data Communication **Apr 19 2022**

Codes of the Underworld Jul 18 2019 sociology.

Error-Control Techniques for Digital Communication Mar 18 2022 This practical handbook provides communication systems engineers with guidance in the application of error-control coding. It emphasizes the fundamental concepts of coding theory while minimizing the use of mathematical tools...demonstrates the role of coding in communication system design...shows the performance gains achievable with coding...illustrates how codes should be used and how to select the right code parameters...discusses the decoding techniques that should be considered and how they are implemented...and examines how detailed performance results are obtained.

Universal Codes of Media in International Political Communications: Emerging Research and Opportunities Jan 16 2022 Much like different lenses will give a camera a different view, different forms of media portray different aspects of political relations. Without conveyed messages through audiovisual media, individuals would lose those conveyed messages through sub-textual means. Universal Codes of Media in International Political Communications: Emerging Research and Opportunities provides emerging research exploring the theoretical and practical aspects of audiovisual media and applications within political science. Featuring coverage on a broad range of topics such as media representation, political studies, and international communications, this book is ideally designed for policymakers, administrators, and government officials.

Between The Languages: Code-Switching in Bilingual Communication Jun 16 2019 This book is about the use of two languages in everyday life. Bilingualism is a facet of nearly every country in the world and code-switching is a widespread characteristic of bilingual speech. An obvious and at the same time interesting aspect is that bilinguals will, of course, stay within one language when talking to monolinguals. However, when talking to other bilinguals, they will probably use both languages. Thus, in bilingual conversations, they often switch from one language to another and frequently even within an utterance. Such kinds of switches call for a special competence of the two languages involved. But how well the bilinguals have to know each of the languages is a justifiable question. These switches are not arbitrary since they may depend on the situation of the conversation, the topic of the conversation, the emotional aspects involved, the language preference of the speaker and the need to express the own identity. The goal of this book is to look in detail at code-switching in bilingual communication with the help of the present study on Russian-German bilinguals.

Codes: An Introduction to Information Communication and Cryptography **Aug 11 2021 Many people do not realise that mathematics provides the foundation for the devices we use to handle**

information in the modern world. Most of those who do know probably think that the parts of mathematics involvedare quite 'cl- sical', such as Fourier analysis and di?erential equations. In fact, a great deal of the mathematical background is part of what used to be called 'pure' ma- ematics, indicating that it was created in order to deal with problems that originated within mathematics itself. It has taken many years for mathema- cians to come to terms with this situation, and some of them are still not entirely happy about it.
Thisbookisanintegratedintroductionto Coding.Bythis Imeanreplacing symbolic information, such as a sequence of bits or a message written in a naturallanguage,byanother messageusing (possibly) di?erentsymbols.There are three main reasons for doing this: Economy (data compression), Reliability (correction of errors), and Security (cryptography). I have tried to cover each of these three areas in su?cient depth so that the reader can grasp the basic problems and go on to more advanced study. The mathematical theory is introduced in a way that enables the basic problems to bestatedcarefully,butwithoutunnecessaryabstraction.Theprerequisites(sets andfunctions,matrices,?niteprobability)shouldbefamiliartoanyonewhohas taken a standard course in mathematical methods or discrete mathematics. A course in elementary abstract algebra and/or number theory would be helpful, but the book contains the essential facts, and readers without this background should be able to understand what is going on. vi
Thereareafewplaceswherereferenceismadetocomputeralgebrasystems.

Principles of Digital Communication and Coding Sep 24 2022

Optical Code Division Multiple Access Communication Networks Jun 21 2022 Optical code division multiple access (OCDMA) communication network technology will play an important role in future optical networks, such as optical access and metropolitan area networks. OCDMA technology can also be applied to implement optical signal multiplexing and label switching on backbone networks. Optical Code Division Multiple Access Communication Networks - Theory and Applications introduces the code theory of OCDMA, the methods and technologies of OCDMA encoding and decoding, the theory and methods of analyzing OCDMA systems with various receiver models and realizing multiple-class services with different bit rates and QoS. In addition, OCDMA network architectures, protocols and applications are discussed in detail. The up-to-date theoretical and experimental results on OCDMA systems and networks are also reported. A large number of encoding/decoding examples and many analysis and simulation results of code and system performances are given. It is a valuable text and/or reference book for postgraduates majoring in telecommunication and photonics to obtain a well-knit theoretical foundation and for engineers in R&D and management of optical communications. Dr. Yin is an Associate Professor of the School of Electronics Engineering and Computer Science at Peking University, China, and was a Visiting Research Fellow of Optoelectronics Research Centre (ORC) at University of Southampton, UK. Dr. Richardson is a Professor for optical communications and Deputy Director of ORC at University of Southampton, UK, and is responsible for much of the ORC's fiber related activities.

The Language of Love & Respect Jun 28 2020 Finally an answer for the number one problem in marriages---communication! This analysis of the vital principles of cross-gender communication helps couples recognize they speak two different languages. Most advice on this subject fails to understand that husbands and wives are wired differently and when those wires get crossed, sparks can fly! Dr. Eggerich's bestselling book Love and Respect launched a revolution in how couples relate to each other. In The Language of Love and respect he shares how that message can be applied

Codes, Ciphers, Secrets and Cryptic Communication Oct 13 2021 Covert communications have won or lost wars, exposed political intrigue, disguised secret religions and societies, and secured financial transactions. This immensely readable world history of clandestine communication—finally in paperback—includes illustrations, diagrams, and puzzles that instruct readers how to become amateur cryptographers. It's the last word on secret languages!

***Mathematische Grundlagen der Informationstheorie* Oct 21 2019**

Speech Nov 02 2020 Alvin Liberman and his colleagues at the Haskins Laboratory in New Haven created the techniques, the methods, and the insights appropriate to the study of speech perception. This volume brings together a carefully edited collecton of twenty-three of their most important research articles, along with an introduction by Liberman that charts the progress of the research—the errors as well as the hits—over the past five decades. Liberman has been the main analytic and synthesizing scientist in the development of a field that must hold a fascination for those interested, most generally, in the place of speech in the biological scheme of things. The more specific implications cover a broad range: at the one extreme, the problems associated with the machine production and recognition of speech; at the other, our understanding of how children learn to read its alphabetic transcriptions, and why some can't. Major Sections: On the

Spectrogram as a Visible Display of Speech. Finding the Cues. Categorical Perception. An Early Attempt to Put It All Together. A Mid-Course Correction. The Revised Motor Theory. Some Properties of the Phonetic Module. More about the Function and Properties of the Phonetic Module. Auditory vs. Phonetic Modes. Reading/Writing Are Hard Just Because Speaking/Listening Are Easy. Learning, Development, and Conceptual Change series

The Electronic Communications Code and Property Law Mar 26 2020 Life now without access to electronic telecommunications would be regarded as highly unsatisfactory by most of the UK population. Such ready access would not have been achieved without methodical and ultimately enforceable means of access to the land on which to install the infrastructure necessary to support the development of an electronic communications network. Successive governments have made such access a priority, regarding it as a principle that no person should unreasonably be denied access to an electronic communications network or electronic communications services. The enactment of the Telecommunications Act 1984 and its revision by the Communications Act in 2003 have played their role in the provision of an extensive electronic infrastructure in the UK, while their reshaping by means of the Digital Economy Act 2017 will continue that process. Throughout that process, a little publicised series of struggles has taken place between telecommunications operators and landowners, as they seek to interpret the Electronic Communications Code by which their rights and obligations have been regulated. This book describes the problems that accompanied the Old Code (which will continue to regulate existing installations and agreements); and the intended solutions under the New Code. The eminent team of authors explain the background, provisions and operation of the old code and the new one, providing practical and jargon-free guidance throughout. It is sure to become the reference on this topic and is intended as a guide for telecommunications operators, land owners, and of course for their advisers in the legal and surveying professions. All members of Falcon Chambers, comprising nine Queen's Counsel and 30 junior barristers, specialise in property law and allied topics, including the various incarnations of the Electronic Communications Code. Members of Falcon Chambers, including all the authors of this new work, have for many years lectured and written widely on the code, and have appeared (acting for both operators and landowners) in many of the few reported cases on the subject of the interface between property law and the code, including for example: Geo Networks Ltd v The Bridgewater Canal Co. Ltd (2010); Geo Networks Ltd v The Bridgewater Canal Co. Ltd (2011); Crest Nicholson (Operations) Ltd v Arqiva Services Ltd (2015); Brophy v Vodafone Ltd (2017).

Introduction to Digital Communication Systems Jan 24 2020 Combining theoretical knowledge and practical applications, this advanced-level textbook covers the most important aspects of contemporary digital communication systems. Introduction to Digital Communication Systems focuses on the rules of functioning digital communication system blocks, starting with the performance limits set by the information theory. Drawing on information relating to turbo codes and LDPC codes, the text presents the basic methods of error correction and detection, followed by baseband transmission methods, and single- and multi-carrier digital modulations. The basic properties of several physical communication channels used in digital communication systems are explained, showing the transmission and reception methods on channels suffering from intersymbol interference. The text also describes the most recent developments in the transmission techniques specific to wireless communications used both in wireline and wireless systems. The case studies are a unique feature of this book, illustrating elements of the theory developed in each chapter. Introduction to Digital Communication Systems provides a concise approach to digital communications, with practical examples and problems to supplement the text. There is also a companion website featuring an instructors' solutions manual and presentation slides to aid understanding. Offers theoretical and practical knowledge in a self-contained textbook on digital communications Explains basic rules of recent achievements in digital communication systems such as MIMO, turbo codes, LDPC codes, OFDMA, SC-FDMA Provides problems at the end of each chapter with an instructors' solutions manual on the companion website Includes case studies and representative communication system examples such as DVB-S, GSM, UMTS, 3GPP-LTE

Speech Nov 14 2021

Cracking the Communication Code Aug 23 2022 Communications is so much more than words. Being clear on certain principles will help you know how to connect. Empathy and honesty will lead the way. This book presents ideas on how to communicate and connect with others from your heart. Through stories, definitions and cartoons it will inspire you to go deeper in your exploration of what really matters in human communication.

Introduction to Analog and Digital Communication Mar 06 2021 This book primarily focuses on the design of analog and digital communication systems; and has been structured to cater to the

second year engineering undergraduate students of Computer Science, Information Technology, Electrical Engineering and Electronics and Communication departments. For better understanding, the basics of analog communication systems are outlined before the digital communication systems section. The content of this book is also suitable for the students with little knowledge in communication systems. The book is divided into five modules for efficient presentation, and it provides numerous examples and illustrations for the detailed understanding of the subject, in a thorough manner. Technical topics discussed in the book include: Analog modulation techniques-AM, FM and PMDigital modulation techniques-ASK, PSK, FSK, QPSK, MSK and M-ary modulationPulse modulation techniques and Data communicationSource coding techniques-Shannon Fano and Huffman coding; channel coding techniques-Linear block codes and convolutional codesAdvanced communication techniques topics includes-Cellular communication, Satellite communication and multiple access schemes.

Communication May 28 2020 This alternative version of Communication: Principles for a Lifetime is a four volume set (sold together or separately) with fully integrated practice tests and contextually placed icons connected to our interactive online MyCommunicationLab resources. This Portable Edition offers unparalleled flexibility, choice, and support for the learning experience. Written by experienced and highly regarded authors and teachers, Communication: Principles for a Lifetime, Portable Edition provides readers with all the theory and skills necessary - in a manner that will help them to apply what they learn throughout their lives. Understanding that the challenge is learning the myriad of skills, principles, and theories without being overwhelmed, Beebe, Beebe, and Ivy anchor all discussion around five key principles of communication throughout their book: Be aware of your communication with yourself and others. Effectively use and interpret verbal messages. Effectively use and interpret nonverbal messages. Listen and respond thoughtfully to others. Appropriately adapt messages to others. Providing both comprehensive and cutting-edge content about communication organized around these five themes, Beebe, Beebe, and Ivy cover all of the topics expected in a manner that will help the reader organize the extensive range of material.

Communication Aug 31 2020 This book explores the amazing science behind communication. Topics include the Pony Express, the printing press, and the Internet.

Fundamental Concepts in Communication Jul 30 2020

Theory of Code Division Multiple Access Communication Jul 22 2022 A comprehensive introduction to CDMA theory and application Code division multiple access (CDMA) communication is rapidlyreplacing time- and frequency-division methods as the cornerstoneof wireless communication and mobile radio. Theory of Code DivisionMultiple Access Communication provides a lucid introduction andoverview of CDMA concepts and methods for both the professional andthe advanced student. Emphasizing the role CDMA has played in the development of wirelesscommunication and cellular mobile radio systems, the author leadsyou through the basic concepts of mobile radio systems andconsiders the different principles of multiple access-timedivision, frequency division, and code division. He then analyzesthree major CDMA systems-direct sequence (DS) CDMA systems,frequency hopped (FH) CDMA systems, and pulse position hopped (PPH)CDMA systems. Other topics covered include: * Spread spectrum (SS) technology * Forward error control coding * CDMA communication on fading channels * Pseudorandom signals * Information theory in relation to CDMA communication * CDMA cellular networks Complete with useful appendices providing analyses of the momentsof CDMA system decision statistics, Theory of Code DivisionMultiple Access Communication is a ready reference for everyengineer seeking an understanding of the history and concepts ofthis key communications technology.

***Code Division Multiple Access Communications* Sep 12 2021 Code Division Multiple Access (CDMA) has become one of the main candidates for the next generation of mobile land and satellite communication systems. CDMA is based on spread spectrum techniques, which have been used in military applications for over half a century. Only recently, however, has it been recognised that spread spectrum techniques, combined with some additional steps, can provide higher capacity and better flexibility for the mobile cellular radio communications. Code Division Multiple Access Communications comprises a set of contributions from the most distinguished world scientists in the field. These papers review the basic theory and some of the most important problems related to spread spectrum and CDMA. The topics covered centre on the information theory aspects of CDMA; interference suppression and performance analysis. The material presented in this book summarises the main problems in modern CDMA theory and practice and gives a solid starting point for studying this complex and still challenging field. As such Code Division Multiple Access Communications is essential reading for all researchers and designers working in mobile communication systems and provides an excellent text for a course on the subject.**

Theory of Code Division Multiple Access Communication **Jun 09 2021 A comprehensive introduction to CDMA theory and application Code division multiple access (CDMA) communication is rapidly replacing time- and frequency-division methods as the cornerstone of wireless communication and mobile radio. Theory of Code Division Multiple Access Communication provides a lucid introduction and overview of CDMA concepts and methods for both the professional and the advanced student. Emphasizing the role CDMA has played in the development of wireless communication and cellular mobile radio systems, the author leads you through the basic concepts of mobile radio systems and considers the different principles of multiple access-time division, frequency division, and code division. He then analyzes three major CDMA systems-direct sequence (DS) CDMA systems, frequency hopped (FH) CDMA systems, and pulse position hopped (PPH) CDMA systems. Other topics covered include: * Spread spectrum (SS) technology * Forward error control coding * CDMA communication on fading channels * Pseudorandom signals * Information theory in relation to CDMA communication * CDMA cellular networks Complete with useful appendices providing analyses of the moments of CDMA system decision statistics, Theory of Code Division Multiple Access Communication is a ready reference for every engineer seeking an understanding of the history and concepts of this key communications technology.**

Revel for Communication: Making Connections-- Access Card **Jul 10 2021**

Code-Switching in Computer-Mediated Communication **May 20 2022 Inhaltsangabe:Introduction: It has now been about a decade and a half since the Internet and the World Wide Web have come to represent a major realm of research in various fields of linguistics. This is of course largely due to the fact that they offer easy access to a massive and unlimited amount of language data, which do not have to be transcribed in arduous ways as is the case with speech recordings. However, alongside this major cause of attraction, and despite the overall dominance of English, it is also the multilingual nature of the Internet which has naturally sparked the interest of bilingualism research as well as language contact research. It is the choice of and the switching between the available codes of the users' repertoires which mark a major topic of interest, and which shall be explored in the thesis at hand. The final focus of investigation will be the communicative functions and meanings of the phenomenon called code-switching (CS) as it naturally occurs in a Canadian-Croatian discussion forum. In order to prepare the theoretical ground for the analysis of my own corpus of computer-mediated communication (CMC) data, the first part of this research thesis will define the subject-matter and the origins of research into it, and a general overview of the classic linguistic treatment of the phenomenon will be given. Following, this paper will illustrate the major concepts and approaches relevant to the final purpose of the thesis, and point out potential critique of their assumptions. In order to establish a link between code-switching phenomena in general and their communicative setting in the conducted study, the subsequent chapter will address several issues in computer-mediated communication research. Thereafter a review of renowned studies of code-switching phenomena in computer-mediated communication will be provided. Finally, the Croworld corpus, including its compilation and structure, and the backgrounds of the users involved, will be presented. My subsequent analysis of selected forum posts will aim to relate the tenets of the classic approaches, as well as the insights of the CMC studies regarding the significance of code-switching practices Inhaltsverzeichnis:Table of Contents: 1.INTRODUCTION1 2.CODE-SWITCHING AS A FIELD OF RESEARCH2 2.1The Object of Research2 2.2The Origins of Code-switching Research5 2.3The Research History6 3.MAJOR EXPLANATORY FRAMEWORKS9 3.1Gumperz: Situation - Metaphor - We and [...]**

Arduino Kochbuch Dec 03 2020 Mit dem Arduino-Kochbuch, das auf der Version Arduino 1.0 basiert, erhalten Sie ein Füllhorn an Ideen und praktischen Beispielen, was alles mit dem Mikrocontroller gezaubert werden kann. Sie lernen alles über die Arduino-Softwareumgebung, digitale und analoge In- und Outputs, Peripheriegeräte, Motorensteuerung und fortgeschrittenes Arduino-Coding. Egal ob es ein Spielzeug, ein Detektor, ein Roboter oder ein interaktives Kleidungsstück werden soll: Elektronikbegeisterte finden über 200 Rezepte, Projekte und Techniken, um mit dem Arduino zu starten oder bestehende Arduino-Projekt mit neuen Features aufzupimpen.

Turbo Coding for Satellite and Wireless Communications Nov 21 2019 Numerous implementation issues and examples of commercially available turbo codes and products are explored in detail.".

Means of Acquisition and Communication of Ocean Data Feb 05 2021

Modulation and Coding Techniques in Wireless Communications **Oct 25 2022 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

The Changing Code of Communication in Hausa Films Feb 17 2022

Error Detecting Codes May 08 2021 Error detecting codes are very popular for error control in practical systems for two reasons. First, such codes can be used to provide any desired reliability of communication over any noisy channel. Second, implementation is usually much simpler than for a system using error correcting codes. To consider a particular code for use in such a system, it is very important to be able to calculate or estimate the probability of undetected error. For the binary symmetric channel, the probability of undetected error can be expressed in terms of the weight distribution of the code. The first part of the book gives a detailed description of all known methods to calculate or estimate the probability of undetected error, for the binary symmetric channel in particular, but a number of other channel models are also considered. The second part of the book describes a number of protocols for feedback communication systems (ARQ systems), with methods for optimal choice of error detecting codes for the protocols. Results have been collected from many sources and given a unified presentation. The results are presented in a form which make them accessible to the telecommunication system designer as well as the coding theory researcher and student. The system designer may find the presentation of CRC codes as well as the system performance analysis techniques particularly useful. The coding theorist will find a detailed account of a part of coding theory which is usually just mentioned in most text books and which contains a number of interesting and useful results as well as many challenging open problems. Audience: Essential for students, practitioners and researchers working in communications and coding theory. An excellent text for an advanced course on the subject.

Managerial Communication Oct 01 2020 A Practical, Strategic Approach to Managerial Communication Managerial Communication: Strategies and Applications focuses on communication skills and strategies that managers need in today’s workplace. This book continues to be the market leader due to its strategic approach, solid research base, comprehensive coverage, balanced examination of oral and written communication, and focus on managerial, not entry-level, competencies. In the Sixth Edition, author Geraldine E. Hynes preserves the book’s key strengths while reflecting the realities of the contemporary workplace.

***Mobile tagging im Marketing* Apr 26 2020**

Class, Codes and Control: Theoretical studies towards a sociology of language Apr 07 2021 The papers in this volume show the origin and development of Bernstein's theoretical studies into the relationships between social class, patterns of language use and the primary socialization of the child. 'Bernstein's hypothesis will require [teachers] to look afresh not only at their pupils' language but at how they teach and how their pupils learn.' Douglas Barnes, Times Educational Supplement 'His honesty is such that it illuminates several aspects of what it is to be a genius.' Josephine Klein, British Journal of Educational Studies

Data Communication Systems Aug 19 2019

***Communication by 31 Bit Hamming Code Transceiver* Feb 23 2020**

***Codebreaker* Dec 15 2021 Codebreakerreveals the complexity and near unparalleled ingenuity of the codemakers' craft. From the simplest beginnings to the remarkable, recent advances in quantum cryptography, codes and ciphers have challenged and intrigued people for millennia. In this book, you will find the principles behind many different code systems, find out why they have affected history, and have the opportunity to solve several codes for yourself. Includes: Detailed description of simple substitution codes, transpositions and frequency analysis Polyalphabetic substitution and secret scripts Homophonics, the Enigma Code, and the Purple Cipher Keypad ciphers and pager codes Quantum cryptography and the world's greatest unbreakable codes.**

The Language of Love and Respect Jan 04 2021

The electronic communications code Dec 23 2019 The Electronic Communications Code (schedule 2 to the Telecommunications Act 1984) sets out the regime that governs the rights of electronic

communications operators to install and maintain infrastructure on public and private land. The Code strikes a balance between the rights and interests of landowners and network operators. This consultation paper discusses the current law and set out a number of provisional proposals and options for reform. The paper considers all the main provisions of the current Code and areas highlighted for potential reform include: the rights of operators and landowners under the Code, and the position of third parties; operators' obligations under the Code and related regulations; the test applied to determine whether code rights are granted to an operator where a landowner objects; the measure of the financial award to be paid to the landowner where an operator is granted code rights; the appropriate forum for the resolution of disputes, and other procedural issues; the interaction between the Code and other statutory regimes. The Code applies throughout the UK. The Commission's focus is on the law in England and Wales, but the project is being conducted in consultation with the Scottish and Northern Irish Law Commissions.

***On Spectrally Bounded Codes for Multicarrier Communications* Sep 19 2019**