

# Linear Block Codes

Designs of Coding and Decoding for Short Linear Block Codes  
List Decoding of Linear Block Codes  
Channel Codes  
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Trellises and Trellis-Based Decoding Algorithms for Linear Block Codes  
Efficient Reliability Based Decoding of Linear Block Codes  
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Sequential Decoding of Linear Block Codes  
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Coding Techniques for Linear Block Codes with Applications to Fault Identification  
Wireless Communications  
Fundamentals of Classical and Modern Error-Correcting Codes  
Optimal Encoding, Trellis Structure, and Normalized Weight of Linear Block Codes  
OFDM Wireless LANs  
On the Best Source Word to Codeword Assignment for Linear Block Codes  
A Statistical Decoding Algorithm for Linear Block Codes  
A New Decoding Algorithm for Complete Decoding of Linear Block Codes  
Near Maximum Likelihood Decoding of Linear Block Codes  
Some Optimum Decoding Algorithms for Linear Block Codes □□□ Rasmus Refslund Nielsen William Ryan □□ Shu Lin Wenyi Jin Marc P. C. Fossorier Dirk J. Tempel R. Dodunekova Yingquan Wu Andrea Goldsmith Shu Lin Hou-Shou Chen John Terry Omar A. Mian Ankit Goyal Yung-hsiang Han Hari Thirumoorthy William J. Stieritz

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channel coding lies at the heart of digital communication and data storage and this detailed introduction describes the core theory as well as decoding algorithms implementation details and performance analyses in this book professors ryan and lin provide clear information on modern channel codes including turbo and low density parity check ldpc codes they also present detailed coverage of bch codes reed solomon codes convolutional codes finite geometry codes and product codes providing a one stop resource for both classical and modern coding techniques assuming no prior knowledge in the field of channel coding the opening chapters begin with basic theory to introduce newcomers to the subject later chapters then extend to advanced topics such as code ensemble performance analyses and algebraic code design 250 varied and stimulating end of chapter problems are also included to test and enhance learning making this an essential resource for students and practitioners alike

as the demand for data reliability increases coding for error control becomes increasingly important in data transmission systems and has become an integral part of almost all data communication system designs in recent years various trellis based soft decoding algorithms for linear block codes have been devised new ideas developed in the study of trellis structure of block codes can be used for improving decoding and analyzing the trellis complexity of convolutional codes these recent developments provide practicing communication engineers with more choices when designing error control systems trellises and trellis based decoding algorithms for linear block codes combines trellises and trellis based decoding algorithms for linear codes together in a simple and unified form the approach is to explain the material in an easily understood manner with minimal mathematical rigor trellises and trellis based decoding algorithms for linear block codes is intended for practicing communication engineers who want to have a fast grasp and understanding of the subject only material considered essential and useful for practical applications is included this book can also be used as a text for advanced courses on the subject

a comprehensive introduction to the basic principles design techniques and analytical tools of wireless communications

an accessible textbook that uses step by step explanations relatively easy mathematics and numerous examples to aid student understanding

annotation deploy and optimize your wireless lan using the new standard for broadband wireless communication ofdm a comprehensive reference written by two experts who helped create the ofdm specifications a detailed practical guide to ofdm wlans does not exist requiring readers to seek out multiple sources of information such as white papers and research notes detailed explanations of the concepts and algorithms behind ofdm context that is missing from the two ofdm books currently available this book

explains ofdm wlan basics including components of ofdm and multicarrier wlan standards it provides a practical approach to ofdm by including software and hardware examples and detailed implementation explanations ofdm multicarrier wireless networks a practical approach defines and explains the mathematical concepts behind ofdm necessary for successful ofdm wlan implementations juha heiskala is a research engineer at nokia research center in irving tx heiskala is active in the ieee 802.11 standards bodies and has been tasked with developing the 802.11a system simulation on several software platforms he is the inventor co inventor of three pending patents in the area of ofdm lans and co designed with dr john terry the modulation and coding scheme for achieving 100 mbps speeds within currently allocated band specifications for ofdm wlans john terry ph.d is a senior research engineer at nokia research center he is currently managing the ofdm modulation and coding project in the hsa group dr terry has published several white papers given numerous presentations on wireless communications and generated four patents related to ofdm wlans he has 10 years of experience working in wireless communications including tenures at nasa glen research center and texas instruments

linear block codes are used in modern communication and digital storage systems to combat random errors that are introduced by communication channels e.g. telephone lines atmosphere and compact discs the idea is that the redundant bits contained in each codeword of a code can be used by the receiver to recover the actual transmitted codeword or message the process of recovering the original codeword from a corrupted version of it is called decoding it is implemented by an algorithm located at the receiver's end informally speaking a good code is one that has a high rate that is it does not use much redundancy to allow error correction but it also has an efficient decoding algorithm therefore finding good codes is a relevant problem in the design of communication systems decoding a general linear code is an np hard problem the best known general decoding algorithm for linear codes a.k.a syndrome decoding increases exponentially in complexity with the length of the code the objective of the present work is to implement analyze a statistical decoding algorithm in a robust manner that is efficient with regards to both the amount of storage space needed and computation complexity at least for codes of lengths less than 100 it has proven to work much faster than syndrome decoding and even some well established decoding algorithms the application of the algorithm is mainly illustrated with quadratic residue codes the choice was due to the fact that qr codes have a high rate but finding efficient decoding algorithms for them is still a challenging problem

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