

Error
Correcting
Codes

Block codes

Linear

Cyclic

Not cyclic

Not linear

Convolutional
codes

Recursive

Not Recursive

Error Correcting Codes

D J. Baylis



Error Correcting Codes:

Error-correcting Codes William Wesley Peterson, E. J. Weldon, 1972 The coding problem Introduction to algebra Linear codes Error correction capabilities of linear codes Important linear block codes Polynomial rings and Galois fields Linear switching circuits Cyclic codes Bose-Chaudhuri-Hocquenghem codes Arithmetic codes The Theory of Error-correcting Codes Florence Jessie MacWilliams, Neil James Alexander Sloane, 1977 Cyclic Error-correcting Codes in Two Symbols E. Prange, 1957 *An Introduction to Error Correcting Codes with Applications* Scott A. Vanstone, Paul C. van Oorschot, 2013-04-18 5 2 Rings and Ideals 148 5 3 Ideals and Cyclic Subspaces 152 5 4 Generator Matrices and Parity Check Matrices 159 5 5 Encoding Cyclic Codes 163 5 6 Syndromes and Simple Decoding Procedures 168 5 7 Burst Error Correcting 175 5 8 Finite Fields and Factoring $x^n - 1$ over $GF(q)$ 181 5 9 Another Method for Factoring $x^n - 1$ over $GF(q)$ 187 5 10 Exercises 193 Chapter 6 BCH Codes and Bounds for Cyclic Codes 6 1 Introduction 201 6 2 BCH Codes and the BCH Bound 205 6 3 Bounds for Cyclic Codes 210 6 4 Decoding BCH Codes 215 6 5 Linearized Polynomials and Finding Roots of Polynomials 224 6 6 Exercises 231 Chapter 7 Error Correction Techniques and Digital Audio Recording 7 1 Introduction 237 7 2 Reed-Solomon Codes 237 7 3 Channel Erasures 240 7 4 BCH Decoding with Erasures 244 7 5 Interleaving 250 7 6 Error Correction and Digital Audio Recording 256 7 **Fundamentals of Classical and Modern Error-Correcting Codes** Shu Lin, Juane Li, 2021-12-09 Using easy to follow mathematics this textbook provides comprehensive coverage of block codes and techniques for reliable communications and data storage It covers major code designs and constructions from geometric algebraic and graph theoretic points of view decoding algorithms error control additive white Gaussian noise AWGN and erasure and dataless recovery It simplifies a highly mathematical subject to a level that can be understood and applied with a minimum background in mathematics provides step by step explanation of all covered topics both fundamental and advanced and includes plenty of practical illustrative examples to assist understanding Numerous homework problems are included to strengthen student comprehension of new and abstract concepts and a solutions manual is available online for instructors Modern developments including polar codes are also covered An essential textbook for senior undergraduates and graduates taking introductory coding courses students taking advanced full year graduate coding courses and professionals working on coding for communications and data storage An Introduction to Error-correcting Codes Shu Lin, 1970 Error Correcting Coding and Security for Data Networks Grigori Kabatiansky, Evgenii Krouk, Sergei Semenov, 2005-10-31 Error correcting coding is often analyzed in terms of its application to the separate levels within the data network in isolation from each other In this fresh approach the authors consider the data network as a superchannel a multi-layered entity which allows error correcting coding to be evaluated as it is applied to a number of network layers as a whole By exposing the problems of applying error correcting coding in data networks and by discussing coding theory and its applications this original technique shows how to correct errors in the network through joint coding at different network layers Discusses the

problem of reconciling coding applied to different layers using a superchannel approach Includes thorough coverage of all the key codes linear block codes Hamming BCH and Reed Solomon codes LDPC codes decoding as well as convolutional turbo and iterative coding Considers new areas of application of error correcting codes such as transport coding code based cryptosystems and coding for image compression Demonstrates how to use error correcting coding to control such important data characteristics as mean message delay Provides theoretical explanations backed up by numerous real world examples and practical recommendations Features a companion website containing additional research results including new constructions of LDPC codes joint error control coding and synchronization Reed Muller codes and their list decoding By progressing from theory through to practical problem solving this resource contains invaluable advice for researchers postgraduate students engineers and computer scientists interested in data communications and applications of coding theory

Error Correcting Codes D J. Baylis, 2018-05-11 Assuming little previous mathematical knowledge *Error Correcting Codes* provides a sound introduction to key areas of the subject Topics have been chosen for their importance and practical significance which Baylis demonstrates in a rigorous but gentle mathematical style Coverage includes optimal codes linear and non linear codes general techniques of decoding errors and erasures error detection syndrome decoding and much more *Error Correcting Codes* contains not only straight maths but also exercises on more investigational problem solving Chapters on number theory and polynomial algebra are included to support linear codes and cyclic codes and an extensive reminder of relevant topics in linear algebra is given Exercises are placed within the main body of the text to encourage active participation by the reader with comprehensive solutions provided *Error Correcting Codes* will appeal to undergraduate students in pure and applied mathematical fields software engineering communications engineering computer science and information technology and to organizations with substantial research and development in those areas

List Decoding of Error-Correcting Codes Venkatesan Guruswami, 2004-11-29 How can one exchange information effectively when the medium of communication introduces errors This question has been investigated extensively starting with the seminal works of Shannon 1948 and Hamming 1950 and has led to the rich theory of error correcting codes This theory has traditionally gone hand in hand with the algorithmic theory of decoding that tackles the problem of recovering from the errors efficiently This thesis presents some spectacular new results in the area of decoding algorithms for error correcting codes Specifically it shows how the notion of list decoding can be applied to recover from far more errors for a wide variety of error correcting codes than achievable before A brief bit of background error correcting codes are combinatorial structures that show how to represent or encode information so that it is resilient to a moderate number of errors Specifically an error correcting code takes a short binary string called the message and shows how to transform it into a longer binary string called the codeword so that if a small number of bits of the codeword are flipped the resulting string does not look like any other codeword The maximum number of errors that the code is guaranteed to detect denoted d is a central parameter in its design A basic

property of such a code is that if the number of errors that occur is known to be smaller than $d/2$ the message is determined uniquely. This poses a computational problem called the decoding problem: compute the message from a corrupted codeword when the number of errors is less than $d/2$.

Error-Correction Coding and Decoding Martin Tomlinson, Cen Jung Tjhai, Marcel A. Ambroze, Mohammed Ahmed, Mubarak Jibril, 2017-02-21. This book discusses both the theory and practical applications of self-correcting data commonly known as error-correcting codes. The applications included demonstrate the importance of these codes in a wide range of everyday technologies from smartphones to secure communications and transactions. Written in a readily understandable style, the book presents the authors' twenty-five years of research organized into five parts. Part I is concerned with the theoretical performance attainable by using error-correcting codes to achieve communications efficiency in digital communications systems. Part II explores the construction of error-correcting codes and explains the different families of codes and how they are designed. Techniques are described for producing the very best codes. Part III addresses the analysis of low-density parity-check (LDPC) codes primarily to calculate their stopping sets and low-weight codeword spectrum which determines the performance of these codes. Part IV deals with decoders designed to realize optimum performance. Part V describes applications which include combined error correction and detection, public-key cryptography using Goppa codes, correcting errors in passwords and watermarking. This book is a valuable resource for anyone interested in error-correcting codes and their applications ranging from non-experts to professionals at the forefront of research in their field. This book is open access under a CC BY 4.0 license.

A Course in Error-correcting Codes Jørn Justesen, Tom Høholdt, 2004. This book is written as a text for a course aimed at advanced undergraduates. Chapters cover the codes and decoding methods that are currently of most interest in research, development and application. They give a relatively brief presentation of the essential results, emphasizing the interrelations between different methods and proofs of all important results. A sequence of problems at the end of each chapter serves to review the results and give the student an appreciation of the concepts.

Error-correcting codes William Wesley Peterson, Edward J. Weldon, 1981. *The theory of error-correcting codes* Florence Jessie MacWilliams, Neil James Alexander Sloane, 1977. [A Commonsense Approach to the Theory of Error Correcting Codes](#) Benjamin Arazi, 1988. Teaching the theory of error-correcting codes on an introductory level is a difficult task. The theory which has immediate hardware applications also concerns highly abstract mathematical concepts. This text explains the basic circuits in a refreshingly practical way that will appeal to undergraduate electrical engineering students as well as to engineers and technicians working in industry. Arazi's truly commonsense approach provides a solid grounding in the subject, explaining principles intuitively from a hardware perspective. He fully covers error correction techniques from basic parity check and single error correction, cyclic codes to burst error-correcting codes and convolutional codes. All this he presents before introducing Galois field theory, the basic algebraic treatment and theoretical basis of the subject which usually appears in the opening chapters of standard textbooks. One entire chapter is devoted to

specific practical issues such as Reed Solomon codes used in compact disc equipment and maximum length sequences used in various fields of communications. The basic circuits explained throughout the book are redrawn and analyzed from a theoretical point of view for readers who are interested in tackling the mathematics at a more advanced level. Benjamin Arazi is an Associate Professor in the Department of Electrical and Computer Engineering at the Ben Gurion University of the Negev. His book is included in the Computer Systems Series edited by Herb Schwetman.

Error-correcting Codes John Baylis, 2003

Foundations of Coding Jiri Adamek, 2011-02-14

Although devoted to constructions of good codes for error control, secrecy or data compression, the emphasis is on the first direction. Introduces a number of important classes of error detecting and error correcting codes as well as their decoding methods. Background material on modern algebra is presented where required. The role of error correcting codes in modern cryptography is treated as are data compression and other topics related to information theory. The definition theorem proof style used in mathematics texts is employed throughout the book but formalism is avoided wherever possible.

Error-correcting Codes William Wesley Peterson, 1965

Fundamentals of Error-Correcting Codes W. Cary Huffman, Vera Pless, 2010-02-18

Fundamentals of Error Correcting Codes is an in depth introduction to coding theory from both an engineering and mathematical viewpoint. As well as covering classical topics, there is much coverage of techniques which could only be found in specialist journals and book publications. Numerous exercises and examples and an accessible writing style make this a lucid and effective introduction to coding theory for advanced undergraduate and graduate students, researchers and engineers, whether approaching the subject from a mathematical, engineering or computer science background.

Error-correcting Codes Jos H. Weber, TU Delft, Faculty of Electrical Engineering, Mathematics and Computer Science, 2007

A Short Course on Error Correcting Codes N.J.A. Sloane, 2014-05-04

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Table of Contents Error Correcting Codes

1. Understanding the eBook Error Correcting Codes
 - The Rise of Digital Reading Error Correcting Codes
 - Advantages of eBooks Over Traditional Books
2. Identifying Error Correcting Codes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Error Correcting Codes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Error Correcting Codes
 - Personalized Recommendations
 - Error Correcting Codes User Reviews and Ratings
 - Error Correcting Codes and Bestseller Lists
5. Accessing Error Correcting Codes Free and Paid eBooks

- Error Correcting Codes Public Domain eBooks
- Error Correcting Codes eBook Subscription Services
- Error Correcting Codes Budget-Friendly Options
- 6. Navigating Error Correcting Codes eBook Formats
 - ePub, PDF, MOBI, and More
 - Error Correcting Codes Compatibility with Devices
 - Error Correcting Codes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Error Correcting Codes
 - Highlighting and Note-Taking Error Correcting Codes
 - Interactive Elements Error Correcting Codes
- 8. Staying Engaged with Error Correcting Codes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Error Correcting Codes
- 9. Balancing eBooks and Physical Books Error Correcting Codes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Error Correcting Codes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Error Correcting Codes
 - Setting Reading Goals Error Correcting Codes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Error Correcting Codes
 - Fact-Checking eBook Content of Error Correcting Codes
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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