

Graduate Texts in Mathematics

J.H. van Lint

Introduction to Coding Theory

Third Edition



Springer

Coding And Information Theory Graduate Texts In Mathematics

Simeon Ball



Coding And Information Theory Graduate Texts In Mathematics:

Coding and Information Theory Steven Roman, 1992-06-04 This book is an introduction to information and coding theory at the graduate or advanced undergraduate level. It assumes a basic knowledge of probability and modern algebra but is otherwise self-contained. The intent is to describe as clearly as possible the fundamental issues involved in these subjects rather than covering all aspects in an encyclopedic fashion. The first quarter of the book is devoted to information theory including a proof of Shannon's famous Noisy Coding Theorem. The remainder of the book is devoted to coding theory and is independent of the information theory portion of the book. After a brief discussion of general families of codes, the author discusses linear codes including the Hamming code, the Reed-Muller codes, finite fields, and cyclic codes including the BCH, Reed-Solomon, Justesen, Goppa, and Quadratic Residue codes. An appendix reviews relevant topics from modern algebra.

Introduction to Coding Theory J.H. van Lint, 2012-10-14 It is gratifying that this textbook is still sufficiently popular to warrant a third edition. I have used the opportunity to improve and enlarge the book. When the second edition was prepared, only two pages on algebraic geometry codes were added. These have now been removed and replaced by a relatively long chapter on this subject. Although it is still only an introduction, the chapter requires more mathematical background of the reader than the remainder of this book. One of the very interesting recent developments concerns binary codes defined by using codes over the alphabet $\mathbb{F}_4$. There is so much interest in this area that a chapter on the essentials was added. Knowledge of this chapter will allow the reader to study recent literature on $\mathbb{F}_4$ codes. Furthermore, some material has been added that appeared in my Springer Lecture Notes 201 but was not included in earlier editions of this book, e.g. Generalized Reed-Solomon Codes and Generalized Reed-Muller Codes. In Chapter 2, a section on Coding Gain, the engineer's justification for using error-correcting codes, was added. For the author preparing this third edition was a most welcome return to mathematics after seven years of administration. For valuable discussions on the new material, I thank C.P. I.M. Baggen, I.M. Duursma, H.D.L. Hollmann, H.C.A. van Tilborg, and R.M. Wilson. A special word of thanks to R.A. Pellikaan for his assistance with Chapter 10.

Selected Topics in Information and Coding Theory Isaac Woungang, 2010 Pt 1 Applications of coding theory to computational complexity ch 1 Linear complexity and related complexity measures Arne Winterhof ch 2 Lattice and construction of high coding gain lattices from codes Mohammad Reza Sadeghi ch 3 Distributed space-time codes with low ML decoding complexity G. Susinder Rajan and B. Sundar Rajan pt 2 Methods of algebraic combinatorics in coding theory codes construction and existence ch 4 Coding theory and algebraic combinatorics Michael Huber ch 5 Block codes from matrix and group rings Paul Hurley and Ted Hurley ch 6 LDPC and convolutional codes from matrix and group rings Paul Hurley and Ted Hurley ch 7 Search for good linear codes in the class of quasi-cyclic and related codes Nuh Aydin and Tsvetan Asamov pt 3 Source coding channel capacity network coding ch 8 Applications of universal source coding to statistical analysis of time series Boris Ryabko ch 9 Introduction to network coding for acyclic and cyclic networks ngela I Barbero and yvind Ytrehus ch

10 Distributed joint source channel coding on a multiple access channel Vinod Sharma and R Rajesh pt 4 Other selected topics in information and coding theory ch 11 Low density parity check codes and the related performance analysis methods Xudong Ma ch 12 Variable length codes and finite automata Marie Pierre Bal and weitere ch 13 Decoding and finding the minimum distance with Gröbner Bases history and new insights Stanislav Bulygin and Ruud Pellikaan ch 14 Cooperative diversity systems for wireless communication Murat Uysal and Muhammad Mehboub Fareed ch 15 Public key cryptography and coding theory Pascal Vron

Introduction to Coding and Information Theory Steven Roman, 1996-11-26 This book is intended to introduce coding theory and information theory to undergraduate students of mathematics and computer science It begins with a review of probability theory as applied to finite sample spaces and a general introduction to the nature and types of codes The two subsequent chapters discuss information theory efficiency of codes the entropy of information sources and Shannon's Noiseless Coding Theorem The remaining three chapters deal with coding theory communication channels decoding in the presence of errors the general theory of linear codes and such specific codes as Hamming codes the simplex codes and many others

Introduction to Coding Theory Jacobus Hendricus van Lint, 1992 The first edition of this book was very well received and is considered to be one of the classical introductions to the subject of discrete mathematics a field that is still growing in importance as the need for mathematicians and computer scientists in industry continues to grow The opening chapter is a memory refresher reviewing the prerequisite mathematical knowledge The body of the book contains two parts five chapters each a rigorous mathematically oriented first course in coding theory followed by introductions to special topics these can be used as a second semester as supplementary reading or as preparation for studying the literature Among the special features are chapters on arithmetic codes and convolutional codes and exercises with complete solutions

Algebraic Geometry Modeling in Information Theory Edgar Martínez-Moro, Edgar Martínez-Moro, 2013 Algebraic geometry methods have constituted a basic background and tool for people working on classic block coding theory and cryptography Nowadays new paradigms on coding theory and cryptography have arisen such as Network coding S-Boxes APN Functions Steganography and decoding by linear programming Again understanding the underlying procedure and symmetry of these topics needs a whole bunch of non-trivial knowledge of algebra and geometry that will be used to both evaluate those methods and search for new codes and cryptographic applications This book shows those methods in a self-contained form

Introduction to Coding Theory J. H. van Lint, 2013-03-09 Coding theory is still a young subject One can safely say that it was born in 1948 It is not surprising that it has not yet become a fixed topic in the curriculum of most universities On the other hand it is obvious that discrete mathematics is rapidly growing in importance The growing need for mathematicians and computer scientists in industry will lead to an increase in courses offered in the area of discrete mathematics One of the most suitable and fascinating is indeed coding theory So it is not surprising that one more book on this subject now appears However a little more justification of the book are necessary A few years ago it was

and a little more history remarked at a meeting on coding theory that there was no book available an introductory course on coding theory mainly which could be used for for mathematicians but also for students in engineering or computer science The best known textbooks were either too old too big too technical too much for specialists etc The final remark was that my Springer Lecture Notes 201 were slightly obsolete and out of print Without realizing what I was getting into I announced that the statement was not true and proved this by showing several participants the book Inleiding in de Coderingstheorie a little book based on the syllabus of a course given at the Mathematical Centre in Amsterdam in 1975 M C Syllabus 31 **A**

Course in Algebraic Error-Correcting Codes Simeon Ball, 2020-05-08 This textbook provides a rigorous mathematical perspective on error correcting codes starting with the basics and progressing through to the state of the art Algebraic combinatorial and geometric approaches to coding theory are adopted with the aim of highlighting how coding can have an important real world impact Because it carefully balances both theory and applications this book will be an indispensable resource for readers seeking a timely treatment of error correcting codes Early chapters cover fundamental concepts introducing Shannon's theorem asymptotically good codes and linear codes The book then goes on to cover other types of codes including chapters on cyclic codes maximum distance separable codes LDPC codes p-adic codes amongst others Those undertaking independent study will appreciate the helpful exercises with selected solutions A Course in Algebraic Error Correcting Codes suits an interdisciplinary audience at the Masters level including students of mathematics engineering physics and computer science Advanced undergraduates will find this a useful resource as well An understanding of linear algebra is assumed *Handbook of Linear Algebra* Leslie Hogben, 2006-11-02 The Handbook of Linear Algebra provides comprehensive coverage of linear algebra concepts applications and computational software packages in an easy to use handbook format The esteemed international contributors guide you from the very elementary aspects of the subject to the frontiers of current research The book features an accessible *Cryptography and Coding* Liqun Chen, 2011-11-23 This book constitutes the refereed proceedings of the 13th IMA International Conference on Cryptography and Coding IMACC 2011 held in Oxford UK in December 2011 The 27 revised full papers presented together with one invited contribution were carefully reviewed and selected from 57 submissions The papers cover a wide range of topics in the field of mathematics and computer science including coding theory homomorphic encryption symmetric and public key cryptosystems cryptographic functions and protocols efficient pairing and scalar multiplication implementation knowledge proof and security analysis

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