

Graduate Texts in Mathematics

Steven Roman

**Coding and
Information Theory**



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Coding And Information Theory Graduate Texts In Mathematics

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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, Golay, 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to Coding Theory J.H. van Lint, 2012-12-06 The first edition of this book was conceived in 1981 as an alternative to outdated oversized or overly specialized textbooks in this area of discrete mathematics, a field that is still growing in importance as the need for mathematicians and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 body of the book consists of two parts: a rigorous mathematically oriented first course in coding theory followed by introductions to special topics. The second edition has been largely expanded and revised. The main editions in the second edition are: 1. a long section on the binary Golay code; 2. a section on Kerdock codes; 3. a treatment of the Van Lint-Wilson bound for the minimum distance of cyclic codes; 4. a section on binary cyclic codes of even length; 5. an introduction to algebraic geometry codes. Eindhoven J H VAN LINT November 1991 Preface to the First Edition 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.

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.

Cryptography and Coding Liqun Chen, 2011-12-08 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

Communication Theory Charles M. Goldie, Richard G. E. Pinch, 1991-11-07 An introduction to the theories of information and codes The authors exploit the connection to give a self contained treatment relating the probabilistic and algebraic viewpoints A background in discrete probability theory is required the necessary Galois theory is developed as needed 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 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 An Introduction to Central Simple Algebras and Their Applications to Wireless Communication Grégory Berhuy, Frédérique Oggier, 2013-07-05 Central simple algebras arise naturally in many areas of mathematics They are closely connected with ring theory but are also important in representation theory algebraic geometry and number theory Recently surprising applications of the theory of central simple algebras have arisen in the context of coding for wireless communication The exposition in the book takes advantage of this serendipity presenting an introduction to the theory of central simple algebras intertwined with its applications to coding theory Many results or constructions from the standard theory are presented in classical form but with a focus on explicit techniques and examples often from coding theory Topics covered include quaternion algebras splitting fields the Skolem Noether Theorem the Brauer group crossed products cyclic algebras and algebras with a unitary involution Code constructions give the opportunity for many examples and explicit computations This book provides an introduction to the theory of central algebras accessible to graduate students while also presenting topics in coding theory for wireless communication for a mathematical audience It is also suitable for coding theorists interested in learning how division algebras may be useful for coding in wireless communication **Coding Theory and Applications**

Gérard Cohen,Jacques Wolfmann,1989-09-20 A rich source of information about human voluntary movement in health and disease can be found in this book The most esteemed researchers in their respective fields bring you up to date articles Their collected work combines fundamental research in the life sciences with clinical neuroscience in a unique overview The interdisciplinary aspects of motor physiology uncover a wealth of information for researchers from neighboring disciplines For example oculomotor research vestibular research equilibrium sensory research and cognition evolution synaptic and elementary processes and the neurological sciences can be discovered *Algebraic Function* Henning Stichtenoth,1993 This book has two objectives The first is to fill a void in the existing mathematical literature by providing a modern self contained and in depth exposition of the theory of algebraic function fields Topics include the Riemann Roch theorem algebraic extensions of function fields ramifications theory and differentials Particular emphasis is placed on function fields over a finite constant field leading into zeta functions and the Hasse Weil theorem Numerous examples illustrate the general theory Error correcting codes are in widespread use for the reliable transmission of information Perhaps the most fascinating of all the ties that link the theory of these codes to mathematics is the construction by V D Goppa of powerful codes using techniques borrowed from algebraic geometry Algebraic function fields provide the most elementary approach to Goppa s ideas and the second objective of this book is to provide an introduction to Goppa s algebraic geometric codes along these lines The codes their parameters and links with traditional codes such as classical Goppa Reed Solomon and BCH codes are treated at an early stage of the book Subsequent chapters include a decoding algorithm for these codes as well as a discussion of their subfield subcodes and trace codes Stichtenoth s book will be very useful to students and researchers in algebraic geometry and coding theory and to computer scientists and engineers interested in information transmission

Information Theory Sergio Verdú,Steven W. McLaughlin,2000 See **Secure Multiparty Computation and Secret Sharing** Ronald Cramer,Ivan Bjerre Damgård,Jesper Buus Nielsen,2015-07-15 In a data driven society individuals and companies encounter numerous situations where private information is an important resource How can parties handle confidential data if they do not trust everyone involved This text is the first to present a comprehensive treatment of unconditionally secure techniques for multiparty computation MPC and secret sharing In a secure MPC each party possesses some private data while secret sharing provides a way for one party to spread information on a secret such that all parties together hold full information yet no single party has all the information The authors present basic feasibility results from the last 30 years generalizations to arbitrary access structures using linear secret sharing some recent techniques for efficiency improvements and a general treatment of the theory of secret sharing focusing on asymptotic results with interesting applications related to MPC **McGraw-Hill Concise Encyclopedia of Science & Technology** ,2005 The most widely used science reference of its kind More than 7 000 concise articles covering more than 90 disciplines of science and technology all in one volume **Notices of the American Mathematical Society** American Mathematical Society,1992

Information Theory and Network Coding Raymond W. Yeung, 2008-09-10 This book is an evolution from my book *A First Course in Information Theory* published in 2002 when network coding was still at its infancy. The last few years have witnessed the rapid development of network coding into a research field of its own in information science. With its root in information theory, network coding has not only brought about a paradigm shift in network communications at large but also had significant influence on such specific research fields as coding theory, networking, switching, wireless communications, distributed data storage, cryptography, and optimization theory. While new applications of network coding keep emerging, the fundamental results that lay the foundation of the subject are more or less mature. One of the main goals of this book, therefore, is to present these results in a unifying and coherent manner. While the previous book focused only on information theory for discrete random variables, the current book contains two new chapters on information theory for continuous random variables, namely the chapter on differential entropy and the chapter on continuous valued channels. With these topics included, the book becomes more comprehensive and is more suitable to be used as a textbook for a course in an electrical engineering department.

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.

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Elements

of Information Theory Thomas M. Cover,Joy A. Thomas,2006-07-18 The latest edition of this classic is updated with new problem sets and material The Second Edition of this fundamental textbook maintains the book s tradition of clear thought provoking instruction Readers are provided once again with an instructive mix of mathematics physics statistics and information theory All the essential topics in information theory are covered in detail including entropy data compression channel capacity rate distortion network information theory and hypothesis testing The authors provide readers with a solid understanding of the underlying theory and applications Problem sets and a telegraphic summary at the end of each chapter further assist readers The historical notes that follow each chapter recap the main points The Second Edition features Chapters reorganized to improve teaching 200 new problems New material on source coding portfolio theory and feedback capacity Updated references Now current and enhanced the Second Edition of Elements of Information Theory remains the ideal textbook for upper level undergraduate and graduate courses in electrical engineering statistics and telecommunications

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