

San Ling and Chaoping Xing

Coding Theory

A First Course



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First Course In Coding Theory

Lingjun Ying



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Introduction to Coding Theory Jurgen Bierbrauer, 2016-10-14 This book is designed to be usable as a textbook for an undergraduate course or for an advanced graduate course in coding theory as well as a reference for researchers in discrete mathematics, engineering and theoretical computer science. This second edition has three parts: an elementary introduction to coding theory and applications of codes and algebraic curves; the latter part presents a brief introduction to the theory of algebraic curves and its most important applications to coding theory.

A First Course in Information Theory Raymond W. Yeung, 2012-12-06 A First Course in Information Theory is an up to date introduction to information theory. In addition to the classical topics discussed, it provides the first comprehensive treatment of the theory of I Measure network coding theory.

Shannon and non Shannon type information inequalities and a relation between entropy and group theory ITIP a software package for proving information inequalities is also included With a large number of examples illustrations and original problems this book is excellent as a textbook or reference book for a senior or graduate level course on the subject as well as a reference for researchers in related fields

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

Mathematical Principles of the Internet, Volume 1 Niridosh Bhatnagar, 2018-11-20 This two volume set on Mathematical Principles of the Internet provides a comprehensive overview of the mathematical principles of Internet engineering The books do not aim to provide all of the mathematical foundations upon which the Internet is based Instead they cover a partial panorama and the key principles Volume 1 explores Internet engineering while the supporting mathematics is covered in Volume 2 The chapters on mathematics complement those on the engineering episodes and an effort has been made to make this work succinct yet self contained Elements of information theory algebraic coding theory cryptography Internet traffic dynamics and control of Internet congestion and queueing theory are discussed In addition stochastic networks graph theoretic algorithms application of game theory to the Internet Internet economics data mining and knowledge discovery and quantum computation communication and cryptography are also discussed In order to study the structure and function of the Internet only a basic knowledge of number theory abstract algebra matrices and determinants graph theory geometry analysis optimization theory probability theory and stochastic processes is required These mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to Internet engineering

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

A First Course in Combinatorial Mathematics Ian Anderson (Ph. D.), 1989 Now in a new second edition this volume presents a clear and concise treatment of an increasingly important branch of mathematics A unique introductory survey complete with easy to understand examples and sample problems this text includes information on such basic combinatorial tools as recurrence relations generating functions incidence matrices and the non exclusion principle It also provides a study of block designs Steiner triple systems and expanded coverage of the marriage theorem as well as a unified account of three important constructions which are significant in coding theory

Handbook of Algebra, 1995-12-18 Handbook of Algebra defines algebra as consisting of many different ideas concepts and results Even the nonspecialist is likely to encounter most of these either somewhere in the literature disguised as a definition or a theorem or to hear about them and feel the need for more information Each chapter of the book combines some of the features of both a graduate level textbook and a research level survey This book is divided into eight sections Section 1A focuses on linear algebra and discusses such concepts as matrix functions and equations and random matrices Section 1B cover linear dependence and discusses matroids Section 1D focuses on fields Galois Theory and algebraic number theory Section 1F tackles generalizations of fields and related objects Section 2A focuses on category theory including the topos theory and categorical structures Section 2B discusses homological algebra cohomology and cohomological methods in algebra Section 3A focuses on commutative rings and algebras Finally Section 3B focuses on associative rings and algebras This book will be of interest to mathematicians logicians and computer scientists

Elements of Algebraic Coding Theory L.R. Vermani, 2022-01-26 Coding theory came into existence in the late 1940s and is concerned with devising efficient encoding and decoding procedures The book is intended as a principal text for first courses in coding and algebraic coding theory and is aimed at advanced undergraduates and recent graduates as both a course and self study text BCH and cyclic Group codes Hamming codes polynomial as well as many other codes are introduced in this textbook Incorporating numerous worked examples and complete logical proofs it is an ideal introduction to the fundamental of algebraic coding

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algebraic coding *A First Course in Probability* Sheldon M. Ross,2010 This title features clear and intuitive explanations of the mathematics of probability theory outstanding problem sets and a variety of diverse examples and applications

Handbook of Coding Theory Vera Pless,William Cary Huffman,Richard A. Brualdi,1998-11-16 *Gazette - Australian Mathematical Society* Australian Mathematical Society,2005 Paperbound Books in Print ,1992 *Introduction to Mathematical Control Theory* Stephen Barnett,R. G. Cameron,1985 In this new edition of a successful text Professor Barnett now joined in the authorship by Dr Cameron has concentrated on adding material where topics have developed since the first edition and they have also taken advantage of the extensive classroom testing that has been possible in the intervening years The book remains the concise readable account of some basic mathematical aspects of control concentrating on state space methods and emphasizing points of mathematical interest As far as the additional material is concerned the new chapter on multivariable theory reflects some of the significant developments in that field during the past decade and there is also now an appendix on Kalman filtering All references have been updated and a large number of new problems for student use have been incorporated Introduction to the Theory of Error-correcting Codes Vera Pless,1989 An introduction to the theory of error correction codes and in particular to linear block codes is provided in this book It considers such codes as Hamming codes and Golay codes correction of double errors use of finite fields cyclic codes BCH codes and weight distributions as well as design of codes In this second edition the author includes more material on non binary code and cyclic codes In addition some proofs have been simplified and there are many more examples and problems The text has been aimed at mathematicians electrical engineers and computer scientists

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