Graduate Texts in Mathematics

Steven Roman

Coding and Information Theory

Springer

Coding And Information Theory Graduate Texts In Mathematics

Charles M. Goldie,Richard G. E. Pinch

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 Golary 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 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 7l 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 7l codes 4 Furthermore some material has been added that appeared in my Springer Lec ture 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 l 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,Sudip Misra,Subhas Chandra Misra,2010-02-26 The last few years have witnessed rapid advancements in information and coding theory research and applications This book provides a comprehensive guide to selected topics both ongoing and emerging in information and coding theory Consisting of contributions from well known and high profile researchers in their respective specialties topics that are covered include source coding channel capacity linear complexity code construction existence and analysis bounds on codes and designs space time coding LDPC codes and codes and cryptography All of the chapters are integrated in a manner that renders the book as a supplementary reference volume or textbook for use in both undergraduate and graduate courses on information and coding theory As such it will be a valuable text for students at both undergraduate and graduate levels as well as instructors researchers engineers and practitioners in these fields Supporting Powerpoint Slides are

available upon request for all instructors who adopt this book as a course text *Coding Theory and Quantum Computing* David Evans,2005 A conference Coding Theory and Quantum Computing was held in Charlottesville VA to provide an opportunity for computer scientists mathematicians and physicists to interact about subjects of common interest This proceedings volume grew out of that meeting It is divided into two parts Coding Theory and Quantum Computing In the first part Harold Ward gives an introduction to coding theory Other papers survey recent important work such as coding theory applications of Grobner bases methods of computing parameters of codes corresponding to algebraic curves and problems in the theory of designs The second part of the book covers a wide variety of directions in quantum information with an emphasis on understanding entanglement The material presented is suitable for graduate students and researchers interested in coding theory and in quantum computing *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 mathe maticians 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 *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 mathematiciansand 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 followedby 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

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 accessibl **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 *Algebraic Geometry Modeling in Information Theory* Edgar Martinez-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 **Handbook of Combinatorics Volume 1** Ronald L. Graham,Martin Grötschel,László Lovász,1995-12-11 Handbook of Combinatorics Volume 1 focuses on basic methods paradigms results issues and trends across the broad spectrum of combinatorics The selection first elaborates on the basic graph theory connectivity and network flows and matchings and extensions Discussions focus on stable sets and claw free graphs nonbipartite matching multicommodity flows and disjoint paths minimum cost circulations and flows special proof techniques for paths and circuits and Hamilton paths and circuits in digraphs The manuscript then examines coloring stable sets and perfect graphs and embeddings and minors The book takes a look at random graphs hypergraphs partially ordered sets and matroids Topics include geometric lattices structural properties linear extensions and correlation dimension and posets of bounded degree hypergraphs and set systems stability transversals and matchings and phase transition The manuscript also reviews the combinatorial number theory point lattices convex polytopes and related complexes and extremal problems in combinatorial geometry The selection is a valuable reference for researchers interested in combinatorics Proceedings of the Sixth International Conference on Mathematics and Computing Debasis Giri,Rajkumar Buyya,S. Ponnusamy,Debashis De,Andrew Adamatzky,Jemal H. Abawajy,2020-12-10 This book features selected papers from the 6th International Conference on Mathematics and Computing ICMC 2020 organized by Sikkim University Gangtok Sikkim India during September 2020 It covers recent advances in the field of mathematics statistics and scientific computing The book presents innovative work by leading academics researchers and experts from industry Algebra for Secure and Reliable Communication Modeling Mustapha Lahyane, Edgar Martínez-Moro,2015-06-23 This volume contains the proceedings of the CIMPA Research School and Conference on Algebra for Secure and Reliable Communication Modeling held from October 1 13 2012 in Morelia State of Michoac n Mexico The

papers cover several aspects of the theory of coding theory and are gathered into three categories general theory of linear codes algebraic geometry and coding theory and constacyclic codes over rings The aim of this volume is to fill the gap between the theoretical part of algebraic geometry and the applications to problem solving and computational modeling in engineering signal processing and information theory This book is published in cooperation with Real Sociedad Matem tica Espa ola RSME **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

Cryptography and Coding Michael Walker,2003-07-31 *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 **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 Handbook of Combinatorics Ronald L. Graham,Martin Grotschel,Martin Grötschel,László Lovász,2003-03 Covers combinatorics in graph theory theoretical computer science optimization and convexity theory plus applications in operations research electrical engineering statistical mechanics chemistry molecular biology pure mathematics and computer science Algebraic Coding Gerard Cohen,1992-02-12 This volume presents the proceedings of the first French Soviet workshop on algebraic coding held in Paris in July 1991 The idea for the workshop born in Leningrad now St Petersburg in 1990 was to bring together some of the best Soviet coding theorists Scientists from France Finland Germany Israel Italy Spain and the United States also attended The papers in the volume fall rather naturally into four categories Applications of exponential sums Covering radius Constructions Decoding Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques Maria Serna,Ronen Shaltiel,Klaus Jansen,José Rolim,2010-08-19 This book constitutes the joint refereed proceedings of the 13th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems APPROX 2010 and the 14th International Workshop on Randomization and Computation RANDOM 2010 held in Barcelona Spain in September 2010 The 28 revised full papers of the APPROX 2010 workshop and the 29 revised full papers of the RANDOM 2010 workshop included in this volume were carefully reviewed and selected from 66 and 61 submissions respectively APPROX focuses on algorithmic and complexity issues surrounding the development of efficient approximate solutions to computationally difficult problems RANDOM is concerned with applications of randomness to computational and combinatorial problems

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web mesoscopic physics is a subdiscipline of condensed matter physics that deals with materials of an intermediate size these materials range in size between the nanoscale for a quantity of atoms such as a molecule and of materials measuring micrometres 1 the lower limit can also be defined as being the size of individual atoms

rev mod phys 94 045005 2022 mesoscopic physics of - Apr 12 2023

web dec 8 2022   abstract nanomechanics has brought mesoscopic physics into the world of vibrations because nanomechanical systems are small fluctuations are significant the vibrations already become nonlinear for comparatively small amplitudes and new mechanisms of dissipation come into play

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