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# Gröbner Bases, Coding, and Cryptography

# Gr Bner Coding Theory Natalia Schmidt

**Dijen Ray-Chaudhuri**



## **Gröbner Coding Theory Natalia Schmidt:**

Gröbner Bases in Coding Theory Natalia Schmidt, 2015      **Introduction to Coding Theory** J.H. van Lint, 1998-12-15 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  $\mathbb{F}_2$  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 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

Coding Theory J. H. van Lint, 1973-01-01 These lecture notes are the contents of a two term course given by me during the 1970-1971 academic year as Morgan Ward visiting professor at the California Institute of Technology The students who took the course were mathematics seniors and graduate students Therefore a thorough knowledge of algebra and linear algebra theory of finite fields characters of abelian groups and also probability theory were assumed After introducing coding theory and linear codes these notes concern topics mostly from algebraic coding theory The practical side of the subject e.g. circuitry is not included Some topics which one would like to include in a course for students of mathematics such as bounds on the information rate of codes and many connections between combinatorial mathematics and coding theory could not be treated due to lack of time For an extension of the course into a third term these two topics would have been chosen Although the material for this course came from many sources there are three which contributed heavily and which were used as suggested reading material for the students These are W.W. Peterson's Error Correcting Codes 15 E.R. Berlekamp's Algebraic Coding Theory 5 and several of the AFCRL reports by E.F. Assmus H.F. Mattson and R. Turyn 2 3 4 also For several fruitful discussions I would like to thank R.J. McEliece

**Coding Theory and Number Theory** T. Hiramatsu, Günter Köhler, 2003-04-30 This book grew out of our lectures given in the Oberseminar on Coding Theory and Number Theory at the Mathematics Institute of the Würzburg University in the Summer Semester 2001 The coding theory combines mathematical elegance and some engineering problems to an unusual degree The major advantage of studying coding theory is the beauty of this particular combination of mathematics and engineering In this book we wish to introduce some practical problems to the mathematician and to address these as an

essential part of the development of modern number theory The book consists of five chapters and an appendix Chapter 1 may mostly be dropped from an introductory course of linear codes In Chapter 2 we discuss some relations between the number of solutions of a diagonal equation over finite fields and the weight distribution of cyclic codes Chapter 3 begins by reviewing some basic facts from elliptic curves over finite fields and modular forms and shows that the weight distribution of the Melas codes is represented by means of the trace of the Hecke operators acting on the space of cusp forms Chapter 4 is a systematic study of the algebraic geometric codes For a long time the study of algebraic curves over finite fields was the province of pure mathematicians In the period 1977-1982 V D Goppa discovered an amazing connection between the theory of algebraic curves over finite fields and the theory of  $q$ -ary codes

*Coding Theory and Design Theory* Dijen Ray-Chaudhuri, 2012-12-06 This IMA Volume in Mathematics and its Applications Coding Theory and Design Theory Part I Coding Theory is based on the proceedings of a workshop which was an integral part of the 1987-88 IMA program on APPLIED COMBINATORICS We are grateful to the Scientific Committee Victor Klee Chairman Daniel Kleitman Dijen Ray Chaudhuri and Dennis Stanton for planning and implementing an exciting and stimulating year long program We especially thank the Workshop Organizer Dijen Ray Chaudhuri for organizing a workshop which brought together many of the major figures in a variety of research fields in which coding theory and design theory are used A vner Friedman Willard Miller Jr

PREFACE Coding Theory and Design Theory are areas of Combinatorics which found rich applications of algebraic structures Combinatorial designs are generalizations of finite geometries Probably the history of Design Theory begins with the 1847 paper of Reverend T P Kirkman On a problem of Combinatorics Cambridge and Dublin Math Journal The great Statistician R A Fisher reinvented the concept of combinatorial 2 design in the twentieth century Extensive application of algebraic structures for construction of 2 designs balanced incomplete block designs can be found in R C Bose's 1939 Annals of Eugenics paper On the construction of balanced incomplete block designs Coding Theory and Design Theory are closely interconnected Hamming codes can be found in disguise in R C Bose's 1947 Sankhya paper Mathematical theory of the symmetrical factorial designs

*A Survey of Algebraic Coding Theory* Elwyn R. Berlekamp, 1970

**Introduction to Coding Theory** Jacobus Hendricus van Lint, 1982

*Coding Theory and Design Theory* Dijen Ray-Chaudhuri, 1990-04-02 This IMA Volume in Mathematics and its Applications Coding Theory and Design Theory Part I Coding Theory is based on the proceedings of a workshop which was an integral part of the 1987-88 IMA program on APPLIED COMBINATORICS We are grateful to the Scientific Committee Victor Klee Chairman Daniel Kleitman Dijen Ray Chaudhuri and Dennis Stanton for planning and implementing an exciting and stimulating year long program We especially thank the Workshop Organizer Dijen Ray Chaudhuri for organizing a workshop which brought together many of the major figures in a variety of research fields in which coding theory and design theory are used A vner Friedman Willard Miller Jr

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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 Coding Theory D. G. Hoffman, 1991 A textbook for a two quarter college course in coding theory for students of engineering computer science and mathematics assuming only a good grounding in linear algebra Unlike texts designed for mathematics majors omits the general mathematical theories and introduces the necessary mathematics *Introduction to Coding Theory and Algebraic Geometry* J. van Lint, G. van der Geer, 2012-12-06 These notes are based on lectures given in the seminar on Coding Theory and Algebraic Geometry held at Schloss Mickeln Diisseldorf November 16 21 1987 In 1982 Tsfasman Vladut and Zink using algebraic geometry and ideas of Goppa constructed a sequence of codes that exceed the Gilbert Varshamov bound The result was considered sensational Furthermore it was surprising to see these unrelated areas of mathematics collaborating The aim of this course is to give an introduction to coding theory and to sketch the ideas of algebraic geometry that led to the new result Finally a number of applications of these methods of algebraic geometry to coding theory are given Since this is a new area there are presently no references where one can find a more extensive treatment of all the material However both for algebraic geometry and for coding theory excellent textbooks are available The combination of the two subjects can only be found in a number of survey papers A book by C Moreno with a complete treatment of this area is in preparation We hope that these notes will stimulate further research and collaboration of algebraic geometers and coding theorists G van der Geer J H van Lint Introduction to Coding Theory and Algebraic Geometry Part I Coding Theory Jacobus H van Lint 11 1 Finite fields In this chapter we collect without proof the facts from the theory of finite fields that we shall need in this course **Coding Theory and Projective Spaces** Natalia Silberstein, Tekhniyon, Makhon tekhnologi le-Yisra'el. Fakultah le-mad'e ha-mahshev, 2011 Handbook of Coding Theory Vera Pless, William Cary Huffman, Richard A. Brualdi, 1998-11-16 **A Student's Guide to Coding and Information Theory** Stefan M. Moser, Po-Ning Chen, 2012-01-26 This easy to read guide provides a concise introduction to the engineering background of modern communication systems from mobile phones to data compression and storage

Background mathematics and specific engineering techniques are kept to a minimum so that only a basic knowledge of high school mathematics is needed to understand the material covered The authors begin with many practical applications in coding including the repetition code the Hamming code and the Huffman code They then explain the corresponding information theory from entropy and mutual information to channel capacity and the information transmission theorem Finally they provide insights into the connections between coding theory and other fields Many worked examples are given throughout the book using practical applications to illustrate theoretical definitions Exercises are also included enabling readers to double check what they have learned and gain glimpses into more advanced topics making this perfect for anyone who needs a quick introduction to the subject

**Coding Theory** Jacobus Hendricus van Lint,1973      **Coding Theory and Algebraic Geometry** Henning Stichtenoth,Michael A. Tsfasman,2014-01-15      *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

**Coding Theory and Design Theory** Dijen Ray-Chaudhuri,1990      **Coding Theory and Design Theory** Springer,1989      **Lattices and Codes** ,2012-09-20

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