

Algebraic Codes on Lines, Planes and Curves

An Engineering Approach

Richard E. Blahut

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Jessica J Manson



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Algebraic Codes on Lines, Planes, and Curves Richard E. Blahut, 2008-04-03 The past few years have witnessed significant developments in algebraic coding theory This book provides an advanced treatment of the subject from an engineering perspective covering the basic principles and their application in communications and signal processing Emphasis is on codes defined on the line on the plane and on curves with the core ideas presented using commutative algebra and computational algebraic geometry made accessible using the Fourier transform Starting with codes defined on a line a background framework is established upon which the later chapters concerning codes on planes and on curves are developed The decoding algorithms are developed using the standard engineering approach applied to those of Reed Solomon codes enabling them to be evaluated against practical applications Integrating recent developments in the field into the classical treatment of algebraic coding this is an invaluable resource for graduate students and researchers in telecommunications and applied mathematics

Algebraic Codes for Data Transmission Richard E. Blahut, 2003-02-06 The need to transmit and store massive amounts of data reliably and without error is a vital part of modern communications systems Error correcting codes play a fundamental role in minimising data corruption caused by defects such as noise interference crosstalk and packet loss This book provides an accessible introduction to the basic elements of algebraic codes and discusses their use in a variety of applications The author describes a range of important coding techniques including Reed Solomon codes BCH codes trellis codes and turbocodes Throughout the book mathematical theory is illustrated by reference to many practical examples The book was first published in 2003 and is aimed at graduate students of electrical and computer engineering and at practising engineers whose work involves communications or signal processing

Codes, Cryptology and Curves with Computer Algebra Ruud Pellikaan, Xin-Wen Wu, Stanislav Bulygin, Relinde Jurrius, 2017-11-02 This well balanced text touches on theoretical and applied aspects of protecting digital data The reader is provided with the basic theory and is then shown deeper fascinating detail including the current state of the art Readers will soon become familiar with methods of protecting digital data while it is transmitted as well as while the data is being stored Both basic and advanced error correcting codes are introduced together with numerous results on their parameters and properties The authors explain how to apply these codes to symmetric and public key cryptosystems and secret sharing Interesting approaches based on polynomial systems solving are applied to cryptography and decoding codes Computer algebra systems are also used to provide an understanding of how objects introduced in the book are constructed and how their properties can be examined This book is designed for Masters level students studying mathematics computer science electrical engineering or physics

Advances in Algebraic Geometry Codes Edgar Martinez-Moro, 2008 Advances in Algebraic Geometry Codes presents the most successful applications of algebraic geometry to the field of error correcting codes which are used in the industry when one sends information through a noisy channel The noise in a channel is the corruption of a

part of the information due to either interferences in the telecommunications or degradation of the information storing support for instance compact disc An error correcting code thus adds extra information to the message to be transmitted with the aim of recovering the sent information With contributions from renowned researchers this pioneering book will be of value to mathematicians computer scientists and engineers in information theory **Choice** ,2009 **Books in Print Supplement** ,2002 **Codes and Curves** Judy L. Walker,2000 Algebraic geometry is introduced with particular attention given to projective curves rational functions and divisors The construction of algebraic geometric codes is given and the Tsfasman Vladut Zink result mentioned above it discussed **BOOK JACKET Mathematical Reviews** ,2001 [Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards](#) ,2007 **Algebraic-Geometric Codes** M. Tsfasman,S.G. Vladut,2013-12-01 Et moi si j'avais su comment en revenir One service mathematics has rendered the je n'y serais point alle human race It has put common sense back Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded non sense The series is divergent therefore we may be able to do something with it Eric T Bell O Heavieside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound Similarly all kinds of parts of mathematics serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics One service logic has rendered computer science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the raison d'etre of this series [Applications of Algebraic Geometry to Coding Theory, Physics and Computation](#) Ciro Ciliberto,2001-08-31 Proceedings of the NATO Advanced Research Workshop held in Eilat Israel from 25th February to 1st March 2001 [Subject Guide to Books in Print](#) ,1971 **Dissertation Abstracts International** ,1995 **Algebraic Geometry for Coding Theory and Cryptography** Everett W. Howe,Kristin E. Lauter,Judy L. Walker,2017-11-15 Covering topics in algebraic geometry coding theory and cryptography this volume presents interdisciplinary group research completed for the February 2016 conference at the Institute for Pure and Applied Mathematics IPAM in cooperation with the Association for Women in Mathematics AWM The conference gathered research communities across disciplines to share ideas and problems in their fields and formed small research groups made up of graduate students postdoctoral researchers junior faculty and group leaders who designed and led the projects Peer reviewed and revised each of this volume's five papers achieves the conference's goal of using algebraic geometry to address a problem in either coding theory or cryptography Proposed variants of the McEliece cryptosystem based on different constructions of codes constructions of locally recoverable codes from algebraic curves and surfaces and algebraic approaches to the multicast network coding problem are only some of the topics covered in this volume Researchers and graduate level students interested in the interactions between algebraic geometry and both coding theory and cryptography will find this volume valuable [Index to](#)

IEEE Publications Institute of Electrical and Electronics Engineers, 1975 Issues for 1973 cover the entire IEEE technical literature

Codes and Algebraic Curves Oliver Pretzel, 1998-01-08 The geometry of curves has fascinated mathematicians for 2500 years and the theory has become highly abstract Recently links have been made with the subject of error correction leading to the creation of geometric Goppa codes a new and important area of coding theory This book is an updated and extended version of the last part of the successful book Error Correcting Codes and Finite Fields It provides an elementary introduction to Goppa codes and includes many examples calculations and applications The book is in two parts with an emphasis on motivation and applications of the theory take precedence over proofs of theorems The formal theory is however provided in the second part of the book and several of the concepts and proofs have been simplified without sacrificing rigour

Advances in Algebraic Geometry Codes Edgar Martinez-Moro, 2008 Advances in Algebraic Geometry Codes presents the most successful applications of algebraic geometry to the field of error correcting codes which are used in the industry when one sends information through a noisy channel The noise in a channel is the corruption of a part of the information due to either interferences in the telecommunications or degradation of the information storing support for instance compact disc An error correcting code thus adds extra information to the message to be transmitted with the aim of recovering the sent information With contributions from renowned researchers this pioneering book will be of value to mathematicians computer scientists and engineers in information theory

Codes on Algebraic Curves Serguei A. Stepanov, 2012-12-06 This is a self contained introduction to algebraic curves over finite fields and geometric Goppa codes There are four main divisions in the book The first is a brief exposition of basic concepts and facts of the theory of error correcting codes Part I The second is a complete presentation of the theory of algebraic curves especially the curves defined over finite fields Part II The third is a detailed description of the theory of classical modular curves and their reduction modulo a prime number Part III The fourth and basic is the construction of geometric Goppa codes and the production of asymptotically good linear codes coming from algebraic curves over finite fields Part IV The theory of geometric Goppa codes is a fascinating topic where two extremes meet the highly abstract and deep theory of algebraic specifically modular curves over finite fields and the very concrete problems in the engineering of information transmission At the present time there are two essentially different ways to produce asymptotically good codes coming from algebraic curves over a finite field with an extremely large number of rational points The first way developed by M A Tsfasman S G Vladut and Th Zink 210 is rather difficult and assumes a serious acquaintance with the theory of modular curves and their reduction modulo a prime number The second way proposed recently by A

Forthcoming Books Rose Arny, 2002 **Rational Algebraic Curves** J. Rafael Sendra, Franz Winkler, Sonia Pérez-Díaz, 2007-10-19 The central problem considered in this introduction for graduate students is the determination of rational parametrizability of an algebraic curve and in the positive case the computation of a good rational parametrization This amounts to determining the genus of a curve its complete singularity structure computing regular

points of the curve in small coordinate fields and constructing linear systems of curves with prescribed intersection multiplicities The book discusses various optimality criteria for rational parametrizations of algebraic curves

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