

# Geometry and Codes

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# Geometry And Codes

**Henning Stichtenoth, Michael A.  
Tsfasman**



## Geometry And Codes:

**Geometry and Codes** Goppa, 2013-06-29 Approach your problems from the right end It isn't that they can't see the solution It is and begin with the answers Then one day that they can't see the problem perhaps you will find the final question G K Chesterton The Scandal of Father The Hermit Clad in Crane Feathers in R Brown The point of a Pin van Gulik's The Chinese Maze Murders Growing specialization and diversification have brought a host of monographs and textbooks on increasingly specialized topics However the tree of knowledge of mathematics and related fields does not grow only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially in regional and theoretical economics algebraic geometry interacts with physics the Minkowsky lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electrical engineering can use Stein spaces And in addition to this there are such new emerging subdisciplines as experimental mathematics CFD completely integrable systems chaos synergetics and large scale order which are almost impossible to fit into the existing classification schemes They draw upon widely different sections of mathematics

*Advances In Algebraic Geometry Codes* Edgar Martinez-moro, Carlos Munuera, Diego Ruano, 2008-10-08 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

*Algebraic-Geometric Codes* M. Tsfasman, S.G. Vladut, 2013-12-01 Et moi si j'avait 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'être* of this series

Algebraic Geometry Codes: Advanced Chapters Michael Tsfasman, Serge Vlăduț, Dmitry

Nogin, 2019-07-02 Algebraic Geometry Codes Advanced Chapters is devoted to the theory of algebraic geometry codes a subject related to local library Book Catalog several domains of mathematics On one hand it involves such classical areas as algebraic geometry and number theory on the other it is connected to information transmission theory combinatorics finite geometries dense packings and so on The book gives a unique perspective on the subject Whereas most books on coding theory start with elementary concepts and then develop them in the framework of coding theory itself within this book systematically presents meaningful and important connections of coding theory with algebraic geometry and number theory Among many topics treated in the book the following should be mentioned curves with many points over finite fields class field theory asymptotic theory of global fields decoding sphere packing codes from multi dimensional varieties and applications of algebraic geometry codes The book is the natural continuation of Algebraic Geometric Codes Basic Notions by the same authors The concise exposition of the first volume is included as an appendix

### **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

### **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

### **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.

*Algebraic Function Fields and Codes* Henning Stichtenoth, 2009-08-29. This book links two subjects: algebraic geometry and coding theory. It uses a novel approach based on the theory of algebraic function fields. Coverage includes the Riemann-Rock theorem, zeta functions, and Hasse-Weil's theorem, as well as Goppa's algebraic geometric codes and other traditional codes. It will be useful to researchers in algebraic geometry and coding theory and computer scientists and engineers in information transmission.

*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.

*Algebraic Geometry in Coding Theory and Cryptography* Harald Niederreiter, Chaoping Xing, 2009-09-21. This textbook equips graduate students and advanced undergraduates with the necessary theoretical tools for applying algebraic geometry to information theory, and it covers primary applications in coding theory and cryptography. Harald Niederreiter and Chaoping Xing provide the first detailed discussion of the interplay between nonsingular projective curves

and algebraic function fields over finite fields This interplay is fundamental to research in the field today yet until now no other textbook has featured complete proofs of it Niederreiter and Xing cover classical applications like algebraic geometry codes and elliptic curve cryptosystems as well as material not treated by other books including function field codes digital nets code based public key cryptosystems and frameproof codes Combining a systematic development of theory with a broad selection of real world applications this is the most comprehensive yet accessible introduction to the field available

Introduces graduate students and advanced undergraduates to the foundations of algebraic geometry for applications to information theory Provides the first detailed discussion of the interplay between projective curves and algebraic function fields over finite fields Includes applications to coding theory and cryptography Covers the latest advances in algebraic geometry codes Features applications to cryptography not treated in other books

**Algebraic Geometry Codes** Michael A. Tsfasman, 2014-05-21 This book is devoted to the theory of algebraic geometric codes a subject formed on the border of several domains of mathematics On one side there are such classical areas as algebraic geometry and number theory on the other information transmission theory combinatorics finite geometries and dense packings

*Coding Theory and Algebraic Geometry* Henning Stichtenoth, Michael A. Tsfasman, 1992 About ten years ago V D Goppa found a surprising connection between the theory of algebraic curves over a finite field and error correcting codes The aim of the meeting Algebraic Geometry and Coding Theory was to give a survey on the present state of research in this field and related topics The proceedings contain research papers on several aspects of the theory among them Codes constructed from special curves and from higher dimensional varieties Decoding of algebraic geometric codes Trace codes Exponential sums Fast multiplication in finite fields Asymptotic number of points on algebraic curves Sphere packings

**Codes, Designs and Geometry** Vladimir Tonchev, 2012-12-06 Codes Designs and Geometry brings together in one place important contributions and up to date research results in this important area Codes Designs and Geometry serves as an excellent reference providing insight into some of the most important research issues in the field

**Codes and Curves** Judy L. Walker, When information is transmitted errors are likely to occur This problem has become increasingly important as tremendous amounts of information are transferred electronically every day Coding theory examines efficient ways of packaging data so that these errors can be detected or even corrected The traditional tools of coding theory have come from combinatorics and group theory Since the work of Goppa in the late 1970s however coding theorists have added techniques from algebraic geometry to their toolboxes In particular by re interpreting the Reed Solomon codes as coming from evaluating functions associated to divisors on the projective line one can see how to define new codes based on other divisors or on other algebraic curves For instance using modular curves over finite fields Tsfasman Vladut and Zink showed that one can define a sequence of codes with asymptotically better parameters than any previously known codes This monograph is based on a series of lectures the author gave as part of the IAS PCMI program on arithmetic algebraic geometry Here the reader is introduced to the exciting

field of algebraic geometric coding theory Presenting the material in the same conversational tone of the lectures the author covers linear codes including cyclic codes and both bounds and asymptotic bounds on the parameters of codes 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 is discussed No previous experience in coding theory or algebraic geometry is required Some familiarity with abstract algebra in particular finite fields is assumed However this material is reviewed in two appendices There is also an appendix containing projects that explore other codes not covered in the main text

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  $\mathbb{F}_2^4$  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  $\mathbb{F}_2$  codes 4 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 and Algebraic Geometry* Henning Stichtenoth, Michael A. Tsfasman, 2014-01-15

**Topics in Geometry, Coding Theory and Cryptography** Arnaldo Garcia, Henning Stichtenoth, 2006-11-15 The theory of algebraic function fields over finite fields has its origins in number theory However after Goppa's discovery of algebraic geometry codes around 1980 many applications of function fields were found in different areas of mathematics and information theory such as coding theory sphere packings and lattices sequence design and cryptography The use of function fields often led to better results than those of classical approaches This book presents survey articles on some of these new developments Most of the material is directly related to the interaction between function fields and their various applications in particular the structure and the number of rational places of function fields are of great significance The topics focus on material which has not yet been presented in other books or survey articles Wherever applications are pointed out a special effort has been made to present some background concerning their use

Introduction to Coding Theory and Algebraic Geometry Jacobus Hendricus van Lint, Gerard van der Geer, 1988

*Error-correcting Codes* William Wesley Peterson, E. J. Weldon, 1972 The coding problem Introduction to algebra Linear

codes Error correction capabilities of linear codes Important linear block codes Polynomial rings and galois fields Linear switching circuits Cyclic codes Bose chaudhuri hocquenghem codes Arithmetic codes     *Algebraic Geometry Modeling In Information Theory* Edgar Martinez-moro,2012-12-18 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



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