

Algebraic Codes on Lines, Planes and Curves

An Engineering Approach

Richard E. Blahut

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Algebraic Codes On Lines Planes And Curves An Engineering Approach

Ying-Ying Zheng



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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

Codes, Cryptology and Curves with Computer Algebra Ruud Pellikaan, Xin-Wen Wu, Stanislav Bulygin, Relinde Jurrius, 2017-11-02 Graduate level introduction to error correcting codes which are used to protect digital data and applied in public key cryptosystems

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

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

Choice, 2009

Books in Print Supplement, 2002

Which Degree in Britain, 1999 A comprehensive guide to full time degree courses institutions and towns in Britain

Mathematical Reviews, 2002

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Citation Index ,1992 Vols for 1964 have guides and journal lists Applications of Algebraic Geometry to Coding Theory.
Physics and Computation Ciro Ciliberto,Friedrich Hirzebruch,Rick Miranda,Mina Teicher,2001-08-31 Proceedings of the
 NATO Advanced Research Workshop held in Eilat Israel from 25th February to 1st March 2001 **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 **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
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Table of Contents Algebraic Codes On Lines Planes And Curves An Engineering Approach

1. Understanding the eBook Algebraic Codes On Lines Planes And Curves An Engineering Approach
 - The Rise of Digital Reading Algebraic Codes On Lines Planes And Curves An Engineering Approach
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebraic Codes On Lines Planes And Curves An Engineering Approach
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Algebraic Codes On Lines Planes And Curves An Engineering Approach
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebraic Codes On Lines Planes And Curves An Engineering Approach
 - Personalized Recommendations
 - Algebraic Codes On Lines Planes And Curves An Engineering Approach User Reviews and Ratings

- Algebraic Codes On Lines Planes And Curves An Engineering Approach and Bestseller Lists
- 5. Accessing Algebraic Codes On Lines Planes And Curves An Engineering Approach Free and Paid eBooks
 - Algebraic Codes On Lines Planes And Curves An Engineering Approach Public Domain eBooks
 - Algebraic Codes On Lines Planes And Curves An Engineering Approach eBook Subscription Services
 - Algebraic Codes On Lines Planes And Curves An Engineering Approach Budget-Friendly Options
- 6. Navigating Algebraic Codes On Lines Planes And Curves An Engineering Approach eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebraic Codes On Lines Planes And Curves An Engineering Approach Compatibility with Devices
 - Algebraic Codes On Lines Planes And Curves An Engineering Approach Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebraic Codes On Lines Planes And Curves An Engineering Approach
 - Highlighting and Note-Taking Algebraic Codes On Lines Planes And Curves An Engineering Approach
 - Interactive Elements Algebraic Codes On Lines Planes And Curves An Engineering Approach
- 8. Staying Engaged with Algebraic Codes On Lines Planes And Curves An Engineering Approach
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebraic Codes On Lines Planes And Curves An Engineering Approach
- 9. Balancing eBooks and Physical Books Algebraic Codes On Lines Planes And Curves An Engineering Approach
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebraic Codes On Lines Planes And Curves An Engineering Approach
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Algebraic Codes On Lines Planes And Curves An Engineering Approach
 - Setting Reading Goals Algebraic Codes On Lines Planes And Curves An Engineering Approach
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebraic Codes On Lines Planes And Curves An Engineering Approach
 - Fact-Checking eBook Content of Algebraic Codes On Lines Planes And Curves An Engineering Approach
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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