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One way to verify this is to compute the product cHT for an arbitrary codeword  $c = [x_1 y_2]$ :  $[2\ 4\ 1\ 0\ 0\ 1\ 1\ 1\ 3\ 5] = [x+z\ y+z]$  So  $c = [x\ y]$  is a valid codeword if  $cHT = 0$ , ie. if  $[y+z\ x+z] = [0\ 0]$ . Algebraic manipulations over binary show that  $x=y=z$ . Thus the only valid codewords are indeed 000,1111g.

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The term algebraic coding theory denotes the sub-field of coding theory where the properties of codes are expressed in algebraic terms and then further researched. [citation needed]Algebraic coding theory is basically divided into two major types of codes: [citation needed] Linear block codes; Convolutional codes; It analyzes the following three properties of a code – mainly: [citation needed]

Coding theory - Wikipedia  
graduate/beginning graduate course on Algebraic Coding Theory at Michigan ... so the possible data transmission rate dropped to only a fraction of what was planned. The scientists at JPL reprogrammed the onboard computer to do more code processing of the data before transmission, and so were able to

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September 1997 In recent weeks people all over the world have been fascinated by the pictures and scientific data being relayed from Mars by NASA's Pathfinder mission. For decades space probes have been sending back similar data from the furthest planets. Yet the power of the radio transmitters on these craft is only a few watts, comparable to the strength of a dim electric

Coding theory: the first 50 years | plus.maths.org  
Algebraic Error-Control Codes Handout #11 HomeWork#1 Solutions 1. Convolutionalcode.A simple convolutional code with rate 1/2 has encoding equations  $c_1 i = m_i$ ,  $c_2 i = m_i - m_{i-1}$ , where  $m_i$  is an information bit and  $c_1 i$ ,  $c_2 i$  are the corresponding codeword bits. For example,  $m_1 m_2 m_3 = 101$  is encoded to  $c_1 1 c_2 1 c_1 2 c_1 1 c_2 2 c_1 3 c_2 3 = 110111$  (assuming that  $m_0 = 0$ ). This code

EE 387 October 7, 2015 Algebraic Error-Control Codes ...  
Algebraic Codes for Data Transmission 作者 : Blahut, Richard E. 出版社: Cambridge Univ Pr 出版年: 2003-2 页数: 482 定价: 916.00元 装帧: HRD ISBN: 9780521553742

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.

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.

This book intends to provide material for a graduate course on computational commutative algebra and algebraic geometry, highlighting potential applications in cryptography. Also, the topics in this book could form the basis of a graduate course that acts as a segue between an introductory algebra course and the more technical topics of commutative algebra and algebraic geometry. This book contains a total of 124 exercises with detailed solutions as well as an important number of examples that illustrate definitions, theorems, and methods. This is very important for students or researchers who are not familiar with the topics discussed. Experience has shown that beginners who want to take their first steps in algebraic geometry are usually discouraged by the difficulty of the proposed exercises and the absence of detailed answers. Therefore, exercises (and their solutions) as well as examples occupy a prominent place in this course. This book is not designed as a comprehensive reference work, but rather as a selective textbook. The many exercises with detailed answers make it suitable for use in both a math or computer science course.

Issue 08 April-May-June 2016 Optimization Of Technological Processes For Machine Parts And Equipment Operating In Extreme Conditions A. M. Gafarov, P. G. Suleymanov, V. A. Gafarov The paper reviews the aspects of optimization of the technological processes for high-precision machine parts and equipment operating in extreme conditions. The obtained results are analyzed. Ratio Of Power Indicators In The System "Drilling String – Drive" B.A. Perminov, V.B. Perminov, Z.H. Yagubov, E.Z. Yagubov In the mode of drilling a well, transmission of rotation the drill string, occur from the wellhead to the bottom hole. Thus, at the expense to the impact dissipative forces on the drill string in the bore-hole may be stop of some part column, twisting of stretched portion and stall bottom of column with accelerate of rotation after accumulating a sufficient level of potential energy. The stock of potential energy in the elastic column at the rotation of upper part the greater, the more moment of resistance of stationary portion column. Take place redistribution of power indicators along the length of the drill string, that engender relaxation oscillations in the column, to the disruption of the dynamic balance, as condition of the column, so and system "drill string – drive", violates the dynamic stability of column and leads to a forced harmonic changes power of the drive of engine rig. In this regard, the definition of conditions for the occurrence of relaxation oscillations in the system " drill string – drive " is a very urgent task. Work is devoted to research of the power indicators of the drill string in the drilling operation and the definition of the necessary conditions for maintaining the dynamic equilibrium of the system. It was shown that the accumulation of potential energy in the bottom of the column is more than the kinetic energy of the upper part always provokes relaxation oscillations in the system. Makes recommendation, that to enhance the dynamic stability of the work regime is necessary increase the moment of inertia of the drive of column and reduce the weight of the bottom hole of column. Integrated Mechanisms For Data Security And Reliability In Information Systems Based On Theoretical Coding Schemes Kh.N. Rzaev The paper examines the cryptographic data protection to ensure the security of the data transfer through the means of information systems. The author carried out the comparative studies on the integrated security mechanisms to provide the reliability of transferred data by using the McEliece and Niederreiter (asymmetric) crypto-systems based on the m-tuple error-correcting codes. Application of Water-Flooding Method to Improve The Potential Oil Recovery D.A. Volchenko, G.F. Miralalov, V.R. Roznyi The paper examines the water-flooding method to improve the potential oil recovery by adjusting the properties of reagents in the water solution. Effect Of Abnormal Oil On Performance Of Well Bottom Zone T.Sh. Salavatov, I.I. Kiridoba, M.A. Dadashzadeh The article studies in detail the effect of various factors of the abnormal oil on the performance of well bottom zone.

Collected here are papers that were presented at or inspired by the DIMACS workshop, Algebraic Coding Theory and Information Theory (Rutgers University, Piscataway, NJ). Among the topics discussed are universal data compression, graph theoretical ideas in the construction of codes and lattices, decoding algorithms, and computation of capacity in various communications schemes. The book is suitable for graduate students and researchers interested in coding and information theory.

This book constitutes the thoroughly refereed proceedings of the 11th International Conference on Security for Information Technology and Communications, SecITC 2018, held in Bucharest, Romania, in November 2018. The 35 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 70 submissions. The papers present advances in the theory, design, implementation, analysis, verification, or evaluation of secure systems and algorithms.

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