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Algebraic Codes for Data Transmission

Error-correcting codes play a fundamental role in modern communications and data-storage systems. This 2003 book

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provides an accessible introduction to the basic elements of algebraic codes, and describes a range of important coding techniques, including Reed-Solomon codes, BCH codes, trellis codes, and turbocodes. Written for graduate students and practising engineers.

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One way to verify this is to compute the product cHT for an arbitrary codeword $c = [x;y;z]: [xyz] \begin{bmatrix} 2 & 4 & 1 & 0 & 0 & 1 & 1 & 1 & 3 & 5 \end{bmatrix} = [x+z;y+z]$ So, $c = [xyz]$ 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 $f000;111g$.

Introduction to Algebraic Coding Theory

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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

Instructor: John Gill Email: gill@ee.stanford.edu Telephone: 650-723-4715 Office: Packard 266 Office hours: Wed 2:30-4:00pm, Thu 10:30-12:00n, and by appointment
Administrator : Helen Niu Email: helen.niu@ee.stanford.edu Telephone: 650-723-8121 Office: Packard 310 Lectures: MWF 9:30-10:20am, Building 540 Room 108 Prerequisites: Linear algebra: matrices, Gaussian elimination Elementary ...

EE 387 Course Information - Stanford University

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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

Notes on Coding Theory

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