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Error-correcting codes play a fundamental role in modern communications and data-storage systems. This 2003 book 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 cH^T for an arbitrary codeword $c = [x; y; z]$: $[xyz] \begin{bmatrix} 2 & 4 & 1 \\ 0 & 0 & 1 \\ 1 & 1 & 3 \end{bmatrix} = [x+z; y+z]$ So,$c = [xyz]$ is a valid codeword if $cH^T = 0$, ie. ifi $[y+z; x+z] = [0;0]$. 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 2:30-4:005pm, 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 ...

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