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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 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

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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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