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

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That is, a sequence of data symbols is represented by some longer sequence of symbols with enough redundancy to protect the data. A binary code of size  $M$  and blocklength  $n$  is a set of  $M$  binary words of length  $n$  called codewords. Usually,  $M = 2^k$  for an integer  $k$ , and the code is referred to as an  $(n, k)$  binary code.

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## **Algebraic Codes for Data Transmission**

Linear algebra: matrices, Gaussian elimination Elementary probability: binomial probability distribution Textbook Richard E. Blahut, Algebraic Codes for Data Transmission

## **EE 387 Course Information**

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**

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Other communication systems courses (cont.) Modulation Modulator generates waveforms suitable for transmission over a physical channel. AM:  $x(t) \rightarrow (1 + ax(t)) \sin 2\pi f_c t$ ; EE 279 CD-ROMs, disk drives: 8-to-14 and RLL(1,7) codes satisfy run-length constraints ("symbolic dynamics"); EE 392P (not offered)

## **Instructor: John Gill, Packard 266**

Algebraic Codes for Data Transmission Richard E. Blahut No preview available - 2003. Algebraic Codes for Data Transmission Richard E. Blahut No preview available - 2011. References to this book. Spread Spectrum and CDMA: Principles and Applications Valeri P. Ipatov Limited preview - 2005.

## **Algebraic Codes for Data Transmission - Richard E. Blahut ...**

It also describes modern codes, such as the Luby transform and Raptor codes, that are enabling new directions in high-speed transmission of very large data to multiple users. This robust, self-contained text fully explains coding problems, illustrating them with more than 200 examples.

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Details about Algebraic Codes for Data Transmission : 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.

## **Algebraic Codes for Data Transmission 2nd edition | Rent ...**

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

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