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Usually, $M = q^k$ for some integer k , and we shall be interested only in this case, calling the code an (n, k) code. Each sequence of k q -ary data symbols can be associated with a sequence of n q -ary symbols comprising a codeword. There are two basic classes of codes: block codes and trellis codes.

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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.

Algebraic Codes for Data Transmission

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

Chapters 1-8, 12 of Blahut's Algebraic Codes for Data Transmission: Introduction to error detection and error correction Introduction to algebra: groups, rings, finite fields, vector spaces Linear block codes: definitions, minimum distance, bounds Cyclic codes and linear feedback shift register circuits BCH and Reed-Solomon codes Burst error correcting codes and error trapping Logic circuits for finite field arithmetic operations Product codes; coding gain

EE 387 Course Information - Stanford University

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