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familiar with the theory of finite fields and with elementary number theory. Clearly the latter is not the case at many universities. It is for this reason that a large appendix has been added (Appendix A), containing all the necessary prerequisites with regard to finite field theory and elementary number theory.

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and decoding with a linear code, Hamming codes, perfect codes, codes based on latin squares, cyclic codes, MDS codes, weight enumerators. Homework and Projects: On a regular basis there will be homework assignments.

Coding Theory - University of Notre Dame

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Coding Theory: A First Course - San Ling, Chaoping Xing

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two broad areas. Information theory is the study of achievable bounds for communication and is largely probabilistic and analytic in nature. Coding theory then attempts to realize the promise of these bounds by models which are constructed through mainly algebraic means. Shannon was primarily interested in the information theory.

Notes on Coding Theory - Michigan State University

History of coding theory. In 1948, Claude Shannon published "A Mathematical Theory of Communication", an article in two parts in the July and October issues of the Bell System Technical Journal. This work focuses on the problem of how best to encode the information a sender wants to transmit.

Coding theory - Wikipedia

Ranjan Bose Information Theory Coding and Cryptography Solution Manual Information Theory and Coding G. Hardy - An Introduction to the Theory of Numbers 6th ed.pdf

A First Course in Coding Theory - Scribd

Introduction to Algebraic Coding Theory With Gap Fall 2006 Sarah Spence Adams, January 11, 2008
The first versions of this book were written in Fall 2001 and June 2002 at Cornell University, respectively supported by an NSF VIGRE Grant and a Department of Mathematics Grant.

Introduction to Algebraic Coding Theory - NIU

The first two of these properties are obvious, but the triangle inequality requires a little argument (this is a homework problem). Since we will only deal with the Hamming distance (there are other metrics used in Coding Theory), we will generally omit the

Intro to Coding Theory - UC Denver

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A First Course in Coding Theory by Raymond Hill - Goodreads

Coding theory is the branch of mathematics concerned with transmitting data across noisy channels and recovering the message. Coding theory is about making messages easy to read: don't confuse it with cryptography which is the art of making messages hard to read!

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