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** Publisher:* Prentice Hall *** Number Of Pages:* 603 *** Publication Date:* 1983 *** ISBN-10 / ASIN:* 013283796X *** ISBN-13 / ...ebooks free: Error Control Coding: Fundamentals and ...About this book An unparalleled learning tool and guide to error correction coding Error correction coding techniques allow the detection and correction of errors occurring during the transmission of data in digital communication systems. These techniques are nearly universally employed in modern communication systems, and are thus an ...Error Correction Coding | Wiley Online BooksThis is a well written book on the introduction to error control coding. Although now a little bit outdated (lack of all the new development of the 1990's and 2000's, e.g. Turbo code, LDPC code, etc.), it is a good introductory book such that students can build up their foundation for further venture to the error control techniques.

This thesis deals with the design of error-control coding schemes for three different problems of noisy information transmission, storage and processing. These problems have in common that they are of interest from a practical, industrial point of view and that they cannot be solved elegantly by traditional error-control coding schemes.

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A Crash Course on Coding Theory: Course notes of a fast-paced version of this course as taught at the IBM Thomas J. Watson Research Center and the IBM Almaden Research Center. For scribes, here is a sample file and the preamble.tex file that it uses.

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The 4B/5B block coding discussed in Chapter 4 is a good example of this type of coding. In this coding scheme, $k=4$ and $n=5$. As we saw, we have $2^k = 16$ data words and $2^n = 32$ codewords. We saw that 16 out of 32 codewords are used for message transfer and the rest are either used for other purposes or unused. 10.15

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About this book An unparalleled learning tool and guide to error correction coding Error correction coding techniques allow the detection and correction of errors occurring during the transmission of data in digital communication systems. These techniques are nearly universally employed in modern communication systems, and are thus an ...

Chapter 10 Error Detection and Correction

An (n, k) linear code C is called a cyclic code if every cyclic shift of a code vector in C is also a code vector. Codewords can be represented as polynomials of degree n . For a cyclic code all codewords are multiples of some polynomial $g(X)$ modulo X^n+1 such that $g(X)$ divides X^n+1 . $g(X)$ is called the generator polynomial. Examples:

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This is a well written book on the introduction to error control coding. Although now a little bit outdated (lack of all the new development of the 1990's and 2000's, e.g. Turbo code, LDPC code, etc.), it is a good introductory book such that students can build up their foundation for further venture to the error control techniques.

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Coverage of all developments in coding since the first edition was published—Contains the most recent developments of coded modulation, trellises for codes, soft-decision decoding algorithms, turbo coding for reliable data transmission and other areas. There are two new chapters on Reed-Solomon codes & concatenated coding schemes.

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This book owes its beginnings to the pioneering work of Claude Shannon in 1948 on reliable communication over noisy transmission channels. Shannon's central theme was that if the signaling rate of the system is less than the channel capacity, reliable communication can be achieved if one chooses proper encoding and decoding techniques.