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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 multiple of some polynomial $g(X)$ modulo $X^n + 1$ such

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that $g(X)$ divides $X^{n+1} - 1$. $g(X)$ is called the generator polynomial.

Examples:

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This book owes its
beginnings to the
pioneering work of

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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

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Daniel ...

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

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32codddewords.

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

Chapter 10 Error Detection and Correction

This thesis deals with the design of error-

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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-

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Design of error-
control coding
schemes for three
problems ...

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Coding (Jan-May
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Error Correction

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This is a well written book on the introduction to error control coding.

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