

Error Correction Codes Todd K Moon

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TODD K. MOON is a Professor in the Electrical and Computer Engineering Department at Utah State University and a senior member of the IEEE. His research interests include application of mathematical principles to problems involving the transmission, extraction, modeling, compression or analysis of signals.

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codes. Pedagogically, Hamming codes are used to set the stage for the book by using them to demonstrate block codes, cyclic codes, trellises and Tanner graphs. Homework exercises are drawn from a variety of sources and are at a variety of levels. Some are numerical, testing basic understanding of concepts. Others provide

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The minimum value of 'k' for which the following relation is correct (valid) is nothing but the required number of parity bits. $n+k \geq n+k+1$ Where, 'n' is the number of bits in the binary code (information) 'k' is the number of parity bits. Therefore, the number of bits in the Hamming code is equal to n + k. Let the Hamming code is ...

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A (4,1) repetition (each bit is repeated four times) has a distance of 4, so flipping three bits can be detected, but not corrected. When three bits flip in the same group there can be situations where attempting to correct will produce the wrong code word. In general, a code with distance k can detect but not correct $k - 1$ errors.

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A cyclic code is a linear (n, k) block code with the property that every cyclic shift of a codeword results in another code word. Here k indicates the length of the message at transmitter (the number of information bits). n is the total length of the message after adding check bits.

Error Correction and Detection Codes | CRC, Hamming, Parity

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