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importance of error-control coding methods in modern digital applications. Index Terms— Block codes, channel coding, convolutional codes, error-control coding. I. INTRODUCTION WITH his 1948 paper, "A Mathematical Theory of Communication," Shannon [1] stimulated a body of research that has evolved into the two modern ?elds of

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As a text the book can be used as the basis for a two-semester sequence in coding theory, with Chapters 1-10 on the fundamentals of block codes covered in one semester and the remaining chapters on convolutional codes and advanced block code topics in a second semester.

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A parity bit is a bit that is added to a group of source bits to ensure that the number of set bits (i.e., bits with value 1) in the outcome is even or odd. It is a very simple scheme that can be used to detect single or any other odd number (i.e., three, five, etc.) of errors in the output. An even number of flipped bits will make the parity bit appear correct even though the data is erroneous.

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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. In this fundamental work he used tools in probability theory, developed by Norbert Wiener, which were ...

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This code can be called as t-error-correcting BCH code. Cyclic Codes. The cyclic property of code words is that any cyclic-shift of a code word is also a code word. Cyclic codes follow this cyclic property. For a linear code C , if every code word i.e., $C = (C_1, C_2, \dots$

Lin & Costello, Error Control Coding, 2nd Edition | Pearson

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Relevant decoding techniques and their implementation are discussed in detail. Providing communication systems engineers and students with guidance in the application of error-control coding, this book emphasizes the fundamental concepts of coding theory while minimising the use of mathematical tools.

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