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\u0026amp; Error

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Practice provides a

concise introduction

to basic coding

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techniques and their application. The fundamental concepts of coding theory are explained using simple examples with minimum use of complex mathematical tools. The selection of appropriate codes and the design of decoders are discussed.

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Error-controlled coding techniques are used to detect and/or correct errors that occur in the message transmission in a digital communications system. Wireless

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Coding channels used by mobile communications systems and storage systems for digital multimedia data all require the implementation of error control coding methods.

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and coding theory
with applications in
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Control are techniques that enable reliable delivery of digital data over unreliable communication channels. Many communication channels are subject to channel noise, and thus errors may be introduced during transmission from the source to a receiver.

Error detection

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techniques allow
detecting such errors,
while error correction
enables

reconstruction of th

Error detection and correction -

Wikipedia

For a first course on
coding theory at the
senior or beginning
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Lin & Costello, Error Control Coding, 2nd Edition | Pearson

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Forward Error

Correction (FEC): No feedback channel is available. In coding theory, a linear code is an error-correcting code for which any linear combination of code words is also a code word. Linear codes are traditionally partitioned into block codes and convolutional codes,

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although turbo codes can be seen as a hybrid of these two types. Linear codes allow for more efficient encoding and decoding algorithms than other codes (cf. syndrome decoding). In coding theory, block codes comprise ...

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Specifying Cyclic

Codes ...

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coding theory is often described as consisting of two parts, namely code construction and the development of decoding methods.

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Fundamentals ...

Error coding is a
method of providing
reliable digital data
transmission and

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storage when the communication medium used has an unacceptable bit error rate (BER) and a low signal-to-noise ratio (SNR).

Topic: Coding for Error Detection and Correction

error control coding
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Error correction

coding techniques allow the detection and correction of

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techniques are nearly universally employed

in modern

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LDPC codes. This text offers both "classical" coding theory-such as Hamming, BCH, Reed-Solomon, Reed-Muller, and convolutional codes-as well as modern codes and decoding methods, including turbo codes, LDPC codes, repeat-accumulate codes,

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space time codes, factor graphs, soft-decision decoding, Guruswami-Sudan decoding, EXIT charts, and iterative decoding. Theoretical complements on performance and bounds are presented. Coding is also put into its communications and information theoretic

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Techniques presents error-control coding techniques with an emphasis on the most recent applications. It is written for engineers who use or build error-control coding equipment.

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Many examples of practical applications are provided, enabling the reader to obtain valuable expertise for the development of a wide range of error-control coding systems. Necessary background knowledge of coding theory (the theory of error-correcting codes) is also

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included so that the reader is able to assimilate the concepts and the techniques. The book is divided into two parts. The first provides the reader with the fundamental knowledge of the coding theory that is necessary to understand the material in the latter

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Coding Topics covered include the principles of error detection and correction, block codes, and convolutional codes. The second part is devoted to the practical applications of error-control coding in various fields. It explains how to design cost-effective error-control coding

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systems. Many examples of actual error-control coding systems are described and evaluated. This book is particularly suited for the engineer striving to master the practical applications of error-control coding. It is also suitable for use as a graduate text for an

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advanced course in
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The purpose of Error-
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and comprehensive
overview of the
fundamental
techniques and
practical applications
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coding needed by

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students and engineers. An additional purpose of the book is to acquaint the reader with the analytical techniques used to design an error-control coding system for many new applications in data networks.

Error-control coding is a field in which

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Coding theory was motivated by practical problems so that it often leads to important useful advances. Claude Shannon in 1948 proved the existence of error-control codes that, under suitable conditions and at rates less than channel capacity, would transmit error-

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free information for all practical applications. The first practical binary codes were introduced by Richard Hamming and Marcel Golay from which the drama and excitement have infused researchers and engineers in digital communication and error-control coding for more than fifty

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Coding. Nowadays, error-control codes are being used in almost all modern digital electronic systems and data networks. Not only is coding equipment being implemented to increase the energy and bandwidth efficiency of communication systems, but coding

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many related data-
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