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Error Control Coding: From Theory to Practice provides a concise introduction to basic coding 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

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Wireless personal 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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In information theory and coding theory with applications in computer science and telecommunication, error detection and correction or error 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 techniques allow detecting such errors, while error correction enables reconstruction of th

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Error detection and correction - Wikipedia

For a first course on coding theory at the senior or beginning graduate level. A reorganized and comprehensive major revision of a classic textbook. This text provides a bridge between introductory courses in digital communications and more advanced courses in information theory.

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

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Traditionally partitioned into block codes and convolutional codes, 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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BCH Codes 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.10 6.11 6.12 6.13 6.14 6.15 Introduction Specifying Cyclic Codes ...

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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. aeo Reader-friendly approach ti coding in communication systems providing examples of encoding and decoding, information theory and criteria for code selection aeo ...

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Error Control Coding: From Theory to Practice:
Sweeney ...

coding theory is often described as consisting of two

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parts, namely code construction and the development of decoding methods. Today the theory of error control codes is well developed. A number of very efficient codes have been constructed. Error control codes are used extensively in modern telecommu-

Chapter 7 Error Control Coding - Linköping University
This popular textbook on error control coding has been thoroughly revised and updated to include all the important new developments in the field over the past 20 years. Three major new topics in the theory and application of coding are highlighted in this second edition: trellis and block coded modulation to achieve bandwidth efficiency;

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Error Control Coding: International Edition:
Fundamentals ...

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