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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

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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 personal channels used

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systems and storage

systems for digital

multimedia data all

require the

implementation of

error control coding

methods.

## **Error Control Coding: From Theory to Practice by Peter Sweeney**

Al-Zaytoonah

University of Jordan

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Noise or Error is the main problem in the signal, which disturbs the reliability of the communication system. Error control coding is the coding procedure done to control the occurrences of errors. These techniques help in

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Error Detection and Error Correction. There are many different error correcting codes depending upon the mathematical principles applied to them.

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Forward Error  
Correction (FEC): No  
feedback channel is  
available. In coding

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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, 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

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codes (cf. syndrome decoding). In coding theory, block codes comprise ...

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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

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delivery of digital data  
over unreliable  
communication  
channels.

## **Error detection and correction - Wikipedia**

The purpose of Error-  
Control Coding for Data  
Networks is to provide  
an accessible and  
comprehensive  
overview of the  
fundamental  
techniques and  
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of the error-control  
coding needed

## **Error-Control Coding for Data Networks | SpringerLink**

Coding theory is the study of the properties of codes and their respective fitness for specific applications. Codes are used for data compression, cryptography, error detection and correction, data transmission and data



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storage.

## **Coding theory - Wikipedia**

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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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Gaussian elimination  
Elementary ...

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