

# Introduction to Coding Theory

- [3] Correcting and detecting error patterns

Any received word should be corrected to a codeword that requires as few changes as possible.

$C_1 = \{00, 01, 10, 11\}$  Cannot detect any errors !!!

$C_2 = \{000000, 010101, 101010, 111111\}$

source → Channel → 110101 → correct → 010101

$C_3 = \{000, 011, 101, 110\}$

source → Channel → 010 → correct → 000 ?  
110 ?  
011 ?

parity-check digit

# Error Correction Coding Theory

**L Darling-Hammond**



## **Error Correction Coding Theory:**

Immerse yourself in the artistry of words with Experience Art with its expressive creation, Discover the Artistry of **Error Correction Coding Theory** . This ebook, presented in a PDF format ( PDF Size: \*), is a masterpiece that goes beyond conventional storytelling. Indulge your senses in prose, poetry, and knowledge. Download now to let the beauty of literature and artistry envelop your mind in a unique and expressive way.

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