

# Coding and Information Theory

- The aim of coding is to add redundant information to a message in order to correct errors introduced by the channel.
- The code rate is a measure of how much redundancy is added to the message. Specifically a block code has rate

$$R = \frac{K}{N}$$

with  $K$  data bits and  $N$  bits in total.

- The fundamental theorem of information theory states that the probability of codeword error will tend to zero (exponentially with blocklength) provided the code rate is less than the capacity of the channel.



# Information Theory And Coding

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## **Information Theory And Coding:**

## Reviewing **Information Theory And Coding**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Information Theory And Coding**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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