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Hamming, \"Coding Theory - The  
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~~Coding And Information Theory~~

Presents the theory and practical applications of coding and information theory integrated with detailed examples which

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Illustrate key concepts and enlarge the theory. Every major section of the text includes at least one example of a design-oriented problem where the theory is applied. balances the discussion between theory and practical applications without

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sacrificing one for the other.

~~Wells, Applied Coding and Information Theory for Engineers~~

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Coding theory is one of the most important and direct applications of information theory. It can be

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subdivided into source coding theory and channel coding theory. Using a statistical description for data, information theory quantifies the number of bits needed to describe the data, which is the information entropy of the source.



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~~Information theory — Wikipedia~~

This book provides a practical introduction to the theory and practice of coding and information theory for application in the field of electronic communications. It is written at

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~~Theory For Engineers~~  
an introductory level and  
assumes no prior background in  
coding or information theory.  
While the mathematical level is  
detailed, it is still introductory.

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Most of Information Theory

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Involves probability distributions of random variables, and joint or conditional probabilities defined over ensembles of random variables. Indeed, the information content of a symbol or event is defined by its (im)probability.

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□ This course introduces information and coding theory and associated applications at the graduate level. The topics include probability review, basic

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concepts, such as entropy and information, data compression, channel capacity, linear block, cyclic and convolutional codes.

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Theory and Coding~~

Coding theory is the study of the



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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 storage. Codes are studied by various scientific

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disciplines—such as information theory, electrical engineering, mathematics, linguistics, and computer science—for the purpose of designing efficient and reliable data transmission methods. This typically involves the ...

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~~Coding theory - Wikipedia~~

Shannon's analysis of communication codes led him to apply the mathematical tools of information theory to cryptography in "Communication Theory of Secrecy Systems"

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(1949). In particular, he began his analysis by noting that simple transposition ciphers—such as those obtained by permuting the letters in the alphabet—do not affect the entropy because they merely relabel the characters in his formula without changing their

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associated probabilities.

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The noisy channel coding  
theorem is what gave rise to the  
entire field of error-correcting  
codes and channel coding theory:

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the concept of introducing redundancy into the digital representation to protect against corruption. Today if you take a CD, scratch it with a knife, and play it back it will play back perfectly.

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Newcastle University~~

This book provides a practical



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Theory For Engineers  
Introduction to the theory and practice of coding and information theory for application in the field of electronic communications. It is written at an introductory level and assumes no prior background in coding or information theory.

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While the mathematical level is detailed, it is still introductory.

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Techniques for protecting information from unauthorized access) and information theory (the study of information coding and transfer). More specifically, the course studies cryptography from the information-theoretical perspectives and discuss the

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concepts such as entropy and the  
attacker knowledge capabilities,  
e.g., Kerckhoff's Principle.

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Information theory is the basis of  
modern telecommunication

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systems. Main topics of information theory are source coding, channel coding, multi-user communication systems, and cryptology. These topics are based on Shannons work on information theory, which allows to describe information with

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measures like entropy and  
redundancy.

~~Applied Information Theory  
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Information theory, coding and  
cryptography are the three  
load-bearing pillars of any digital

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communication system. In this introductory course, we will start with the basics of information theory and source coding.

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AND ELECTRICAL ENGINEERING ...~~

The authors begin with many

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practical applications in coding, including the repetition code, the Hamming code and the Huffman code. They then explain the corresponding information theory, from entropy and mutual information to channel capacity and the information transmission



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~~A Student's Guide to Coding and  
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Synopsis This book is intended to  
introduce coding theory and  
information theory to  
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mathematics and computer science. It begins with a review of probability theory as applied to finite sample spaces and a general introduction to the nature and types of codes. The two ...

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