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Hamming, \"Coding Theory -
The Representation of
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18, 1995) Lect 29 |
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~~Applied Coding And
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Presents the theory and
practical applications of
coding and information
theory integrated with
detailed examples which
illustrate key concepts and

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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 sacrificing one for the other.

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

Coding theory is one of the most important and direct applications of information theory. It can be subdivided into source coding theory and channel coding theory. Using a statistical description for data,

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Information theory
quantifies the number of bits needed to describe the data, which is the information entropy of the source.

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

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~~Applied Coding & Information
Theory for Engineers by ...~~

Most of Information Theory involves probability distributions of random variables, and conjoint or conditional probabilities defined over ensembles of random variables. Indeed, the information content of a symbol or event is defined by its (im)probability.

~~Information Theory and
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Cambridge~~

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Most of Information Theory involves probability distributions of random variables, and conjoint or conditional probabilities dened over ensembles of random variables. Indeed, the information content of a symbol or event is dened by its (im)probability.

~~Information Theory and Coding — University of Cambridge~~

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□ This course introduces information and coding theory and associated applications at the graduate level. The topics include probability review, basic concepts, such as entropy and information, data compression, channel capacity, linear block, cyclic and convolutional codes.

~~ENGINEERING 9871:~~ ~~Information Theory and~~ ~~Coding~~

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

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error detection and correction, data transmission and data storage. Codes are studied by various scientific 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 ...

~~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

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Secrecy Systems" (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 associated probabilities.

~~Information theory—
Applications of information
theory ...~~

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

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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.

~~Information Theory~~ MIT
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EECE - Spring 2012 Lossless
compression techniques
Compression algorithms
allowing the exact original
data to be reconstructed
from the compressed data.
Used in software compression
tools such as the popular
ZIP file format. Used when
the original and the

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~~Information Theory — Part 1
— Newcastle University~~

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 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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Information Theory for
Engineers: Wells ...~~

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Welcome to Cryptography and Information Theory! This course combines cryptography (the 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 concepts such as entropy and the attacker knowledge capabilities, e.g., Kerckhoff's Principle.

~~Cryptography and Information Theory | Coursera~~

Information theory is the basis of modern

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telecommunication 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 measures like entropy and redundancy.

~~Applied Information Theory—
Universität Ulm~~

Information theory, coding and cryptography are the three load-bearing pillars of any digital communication system. In this introductory course, we will start with the basics of information theory and source coding.

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The authors begin with many 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 theorem.

~~A Student's Guide to Coding
and Information Theory~~
Synopsis This book is intended to introduce coding theory and information

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Information Theory For
Engineers
theory to undergraduate
students of 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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