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Prerequisite courses:

Probability; Mathematical
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Mathematics Aims The aims of this course are to introduce the principles and applications of information theory. The course will study how information is measured in terms of probability and entropy, and

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An Information Source, Joint and Conditional Information Measure. L5-Properties of Joint and Conditional Information Measures and A Markov Source. L6-Asymptotic Properties of Entropy and Problem Solving in Entropy.

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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

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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 -
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In information theory and computer science, a code is usually considered as an algorithm that uniquely represents symbols from some

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source alphabet, by encoded strings, which may be in some other target alphabet. An extension of the code for representing sequences of symbols over the source alphabet is obtained by concatenating the encoded

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strings. ...

Code - Wikipedia

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overseeing the transmission
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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,

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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
The first quarter of the book is devoted to information theory, including a proof of Shannon's famous Noisy Coding Theorem. The remainder of the book is

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devoted to coding theory and is independent of the information theory portion of the book.

Coding and Information
Theory | Steven Roman |

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Springer

CC is a kind of linearly group code rel. to systematic code. It is convenient to set the cyclic binary code vector in the form of a polynomial (and not a combination of 0.1). F

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$(x) = a_{n-1}x^{n-1} (+) a_{n-2}x^{n-2}$
 $(+) \dots (+) a_1x (+) a_0 (*)$

This book is intended to
introduce coding theory and
information theory to

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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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subsequent chapters discuss information theory: efficiency of codes, the entropy of information sources, and Shannon's Noiseless Coding Theorem. The remaining three chapters deal with coding theory:

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communication channels,
decoding in the presence of
errors, the general theory
of linear codes, and such
specific codes as Hamming
codes, the simplex codes,
and many others.

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Information Theory: Coding Theorems for Discrete Memoryless Systems presents mathematical models that involve independent random variables with finite range. This three-chapter text specifically describes the

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characteristic phenomena of information theory. Chapter 1 deals with information measures in simple coding problems, with emphasis on some formal properties of Shannon's information and the non-block source coding.

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Chapter 2 describes the properties and practical aspects of the two-terminal systems. This chapter also examines the noisy channel coding problem, the computation of channel capacity, and the

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arbitrarily varying channels. Chapter 3 looks into the theory and practicality of multi-terminal systems. This book is intended primarily for graduate students and research workers in

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mathematics, electrical
engineering, and computer
science.

This book is an evolution
from my book A First Course

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in Information Theory
published in 2002 when
network coding was still at
its infancy. The last few
years have witnessed the
rapid development of network
coding into a research field
of its own in information

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science. With its root in information theory, network coding has not only brought about a paradigm shift in network communications at large, but also had significant influence on such specific research fields as

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coding theory, networking, switching, wireless communications, distributed data storage, cryptography, and optimization theory. While new applications of network coding keep emerging, the fundamental results that lay

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the foundation of the subject are more or less mature. One of the main goals of this book therefore is to present these results in a unifying and coherent manner. While the previous book focused only on

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information theory for discrete random variables, the current book contains two new chapters on information theory for continuous random variables, namely the chapter on differential entropy and the

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chapter on continuous-valued channels. With these topics included, the book becomes more comprehensive and is more suitable to be used as a textbook for a course in an electrical engineering department.

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This text is an elementary introduction to information and coding theory. The first part focuses on information theory, covering uniquely decodable and instantaneous codes, Huffman coding,

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entropy, information channels, and Shannon's Fundamental Theorem. In the second part, linear algebra is used to construct examples of such codes, such as the Hamming, Hadamard, Golay and Reed-Muller codes.

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Contains proofs, worked examples, and exercises.

This highly readable text provides a clear exposition of the implications and interpretations of the fundamentals of discrete

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information theory and coding. Focusing on the results of practical applications, the authors cover information measures, Shannon's channel capacity/coding theorems, and source and channel

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coding concepts. The clear, accessible text will serve as an introduction to the field for professionals and students in communication systems, computer science, and electrical systems science.

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This book is an introduction to information and coding theory at the graduate or advanced undergraduate level. It assumes a basic knowledge of probability and modern algebra, but is

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otherwise self-contained. The intent is to describe as clearly as possible the fundamental issues involved in these subjects, rather than covering all aspects in an encyclopedic fashion. The first quarter of the book is

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devoted to information theory, including a proof of Shannon's famous Noisy Coding Theorem. The remainder of the book is devoted to coding theory and is independent of the information theory portion

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of the book. After a brief discussion of general families of codes, the author discusses linear codes (including the Hamming, Golary, the Reed-Muller codes), finite fields, and cyclic codes

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(including the BCH, Reed-Solomon, Justesen, Goppa, and Quadratic Residue codes). An appendix reviews relevant topics from modern algebra.

Books on information theory

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and coding have proliferated over the last few years, but few succeed in covering the fundamentals without losing students in mathematical abstraction. Even fewer build the essential theoretical framework when

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presenting algorithms and implementation details of modern coding systems. Without abandoning the theoret

This fundamental monograph introduces both the

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probabilistic and algebraic aspects of information theory and coding. It has evolved from the authors' years of experience teaching at the undergraduate level, including several Cambridge Maths Tripos courses. The

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book provides relevant background material, a wide range of worked examples and clear solutions to problems from real exam papers. It is a valuable teaching aid for undergraduate and graduate students, or for researchers

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and engineers who want to grasp the basic principles.

A concise, easy-to-read guide, introducing beginners to the engineering background of modern communication systems, from

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