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theory: redundancy \u0026

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Information Theory part 3: What is coding theory? Book Outline of Information Theory, Coding and Cryptography

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Introduction to Information Theory

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History of coding theory. In 1948, Claude Shannon published "A Mathematical Theory of

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For Engineers", an article in two parts in the July and October issues of the Bell System Technical Journal. This work focuses on the problem of how best to encode the information a sender wants to transmit. In this fundamental work he used tools in

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For Engineers, developed by Norbert Wiener, which were ...

~~Coding theory — Wikipedia~~

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

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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.

~~Information theory - Wikipedia~~

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compression techniques
Compression algorithms allowing
the exact original data to be
reconstructed from the
compressed data. Used in software

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compression tools such as the popular ZIP file format. Used when the original and the decompressed data

~~Information Theory - Part 1~~

Most of Information Theory involves probability distributions

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of ran-dom variables, and conjoint or conditional probabilities de fi ned over ensembles of random variables. Indeed, the information content of a symbol or event is de fi ned by its (im)probability.

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Information theory is the basis of

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Modern 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

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describe information with measures like entropy and redundancy.

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The study of error-control codes is called coding theory. This area

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For Engineers of discrete applied mathematics includes the study and discovery of various coding schemes that are used to increase the number of errors that can be corrected during data transmission. Coding theory emerged following the publi-

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development of Shannon ' s
mathematical theory of
communication, but much of the
space is devoted to the tools and
methods

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For Engineers that illustrate methods and theory throughout the book. For the professional, it provides an essential hands-on head start for real-world projects and situations. An essential reference for professional engineers in the field of electronic communications.

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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 otherwise self-contained. The intent is to

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For Engineers 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 devoted to information theory, including a proof of Shannon's famous Noisy

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Coding Theorem. The remainder of the book is devoted to coding theory and is independent of the information theory portion of the book. After a brief discussion of general families of codes, the author discusses linear codes (including the Hamming, Golary,

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

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Algebraic coding theory is a new and rapidly developing subject, popular for its many practical applications and for its fascinatingly rich mathematical structure. This book provides an elementary yet rigorous introduction to the theory of error-

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For Engineers. Based on correcting codes. Based on courses given by the author over several years to advanced undergraduates and first-year graduated students, this guide includes a large number of exercises, all with solutions, making the book highly suitable for

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From the reviews: "This book nicely complements the existing literature on information and coding theory by concentrating on arbitrary nonstationary and/or nonergodic sources and channels

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with arbitrarily large alphabets.

Even with such generality the authors have managed to successfully reach a highly unconventional but very fertile exposition rendering new insights into many problems." --

MATHEMATICAL REVIEWS

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This book is intended to introduce coding theory and information 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

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Introduction to the nature and types of codes. The two 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

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theory: 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.

Since the main principles of

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Applied information theory were formulated in the 1940s, the science has been greatly developed and today its areas of application range from traditional communication engineering problems to humanities and the arts. Interdisciplinary in scope,

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This book is a single-source reference for all applications areas, including engineering, radar, computing technology, television, the life sciences (including biology, physiology and psychology) and arts criticism. A review of the current state of

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For Engineers information theory is provided; the author also presents several generalized and original results, and gives a treatment of various problems. This is a reference for both specialists and non-professionals in information theory and general cybernetics.

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information theory, and hypothesis testing. The authors provide readers with a solid understanding of the underlying theory and applications. Problem sets and a telegraphic summary at the end of each chapter further assist readers. The historical notes that

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Books on information theory 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 presenting algorithms and

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This book presents a succinct and mathematically rigorous treatment of the main pillars of Shannon ' s information theory, discussing the

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fundamental concepts and indispensable results of Shannon's mathematical theory of communications. It includes five meticulously written core chapters (with accompanying problems), emphasizing the key topics of information measures; lossless and

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lossy data compression; channel coding; and joint source-channel coding for single-user (point-to-point) communications systems. It also features two appendices covering necessary background material in real analysis and in probability theory and stochastic

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For Engineers. The book is ideal for a one-semester foundational course on information theory for senior undergraduate and entry-level graduate students in mathematics, statistics, engineering, and computing and information sciences. A comprehensive

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For Engineers's solutions manual is available.

This book is an evolution from my book A First Course in Information Theory published in 2002 when network coding was still at its infancy. The last few years have

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witnessed the rapid development of network coding into a research field of its own in information 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

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influence on such specific research fields as 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 the

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For Engineers 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 information theory for discrete random variables, the current book

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contains two new chapters on information theory for continuous random variables, namely the chapter on differential entropy and the chapter on continuous-valued channels. With these topics included, the book becomes more comprehensive and is more

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