

# **THE MATHEMATICAL THEORY OF INFORMATION**

# Mathematical Theory Of Information

**Claude E Shannon, Warren Weaver**



## **Mathematical Theory Of Information:**

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**The Mathematical Theory of Coding** Ian F. Blake, Ronald C. Mullin, 2014-05-10 The Mathematical Theory of Coding focuses on the application of algebraic and combinatoric methods to the coding theory, including linear transformations, vector spaces, and combinatorics. The publication first offers information on finite fields and coding theory and combinatorial constructions and coding. Discussions focus on self-dual and quasisyclic codes, quadratic residues, and codes balanced incomplete block designs and codes. Bounds on code dictionaries, code invariance under permutation groups, and linear transformations of vector spaces over finite fields. The text then takes a look at coding and combinatorics and the structure of semisimple rings. Topics include structure of cyclic codes and semisimple rings, group algebra and group characters, rings, ideals, and the minimum condition, chains and chain groups, dual chain groups, and matroids, graphs, and coding. The book ponders on group representations and group codes for the Gaussian channel, including distance properties of group codes, initial vector problem, modules, group algebras, and representations, orthogonality relationships, and properties of group characters and representation of groups. The manuscript is a valuable source of data for mathematicians and researchers.

interested in the mathematical theory of coding     Mathematical Foundations of Information Theory Aleksandr I. A. Khinchin, 1957 The entropy concept in probability theory On the fundamental theorems of information theory Elementary inequalities Ergodic sources Channels and the sources driving them Feinstein's fundamental lemma Shannon's theorems     Mathematical Theory of Entropy Nathaniel F. G. Martin, James W. England, 2011-06-02 This excellent 1981 treatment of the mathematical theory of entropy gives an accessible exposition its application to other fields

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**An Introduction to Single-User Information Theory** Fady Alajaji, Po-Ning Chen, 2018-04-24 This book presents a succinct and mathematically rigorous treatment of the main pillars of Shannon's information theory discussing the 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 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 processes 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 instructor's solutions manual is available

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**Shannon's Mathematical Theory of Information: a**

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