

PROBABILITY AND MATHEMATICAL STATISTICS

A Series of Monographs and Textbooks

**INFORMATION THEORY: CODING THEOREMS
FOR DISCRETE MEMORYLESS SYSTEMS**

IMRE CSISZÁR / JÁNOS KÖRNER

Book And Information Theory Theorems Discrete Memoryless

**Elloá B. Guedes, Francisco Marcos de
Assis, Rex A. C. Medeiros**



Book And Information Theory Theorems Discrete Memoryless:

Information Theory Imre Csiszár, János Körner, 2011-06-30 Csiszár and Körner's book is widely regarded as a classic in the field of information theory providing deep insights and expert treatment of the key theoretical issues. It includes in depth coverage of the mathematics of reliable information transmission both in two terminal and multi terminal network scenarios. Updated and considerably expanded this new edition presents unique discussions of information theoretic secrecy and of zero error information theory including the deep connections of the latter with extremal combinatorics. The presentations of all core subjects are self contained even the advanced topics which helps readers to understand the important connections between seemingly different problems. Finally 320 end of chapter problems together with helpful hints for solving them allow readers to develop a full command of the mathematical techniques. It is an ideal resource for graduate students and researchers in electrical and electronic engineering computer science and applied mathematics.

Information Theory Imre Csiszár, János Körner, 2014-07-10 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 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. 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 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 mathematics electrical engineering and computer science.

Coding Theorems of Information Theory Jacob Wolfowitz, 2013-04-17 This monograph originated with a course of lectures on information theory which I gave at Cornell University during the academic year 1958-1959. It has no pretensions to exhaustiveness and indeed no pretensions at all. Its purpose is to provide for mathematicians of some maturity an easy introduction to the ideas and principal known theorems of a certain body of coding theory. This purpose will be amply achieved if the reader is enabled through his reading to read the sometimes obscurely written literature and to obtain results of his own. The theory is obviously in a rapid stage of development even while this monograph was in manuscript several of its readers obtained important new results. The first chapter is introductory and the subject matter of the monograph is described at the end of the chapter. There does not seem to be a uniquely determined logical order in which the material should be arranged. In determining the final arrangement I tried to obtain an order which makes reading easy and yet is not illogical. I can only hope that the resultant compromises do not earn me the criticism that I failed on both counts. There are a very few instances in the monograph where a stated theorem is proved by a method which is based on a result proved only later.

Coding Theorems of Information Theory J. Wolfowitz, 2012-12-06 The objective of the present edition of this monograph is the same as that of earlier editions namely

to provide readers with some mathematical maturity a rigorous and modern introduction to the ideas and principal theorems of probabilistic information theory It is not necessary that readers have any prior knowledge whatever of information theory The rapid development of the subject has had the consequence that any one book can now cover only a fraction of the literature The latter is often written by engineers for engineers and the mathematical reader may have some difficulty with it The mathematician who understands the content and methods of this monograph should be able to read the literature and start on research of his own in a subject of mathematical beauty and interest The present edition differs from the second in the following Chapter 6 has been completely replaced by one on arbitrarily varying channels Chapter 7 has been greatly enlarged Chapter 8 on semi continuous channels has been drastically shortened and Chapter 11 on sequential decoding completely removed The new Chapters 11 15 consist entirely of material which has been developed only in the last few years The topics discussed are rate distortion source coding multiple access channels and degraded broadcast channels Even the specialist will find a new approach in the treatment of these subjects Many of the proofs are new more perspicuous and considerably shorter than the original ones

Quantum Zero-Error Information Theory Elloá B. Guedes, Francisco Marcos de Assis, Rex A. C. Medeiros, 2016-09-02 This book aims at presenting the field of Quantum Information Theory in an intuitive didactic and self contained way taking into account several multidisciplinary aspects Therefore this books is particularly suited to students and researchers willing to grasp fundamental concepts in Quantum Computation and Quantum Information areas The field of Quantum Information Theory has increased significantly over the last three decades Many results from classical information theory were translated and extended to a scenario where quantum effects become important Most of the results in this area allows for an asymptotically small probability of error to represent and transmit information efficiently Claude E Shannon was the first scientist to realize that error free classical information transmission can be accomplished under certain conditions More recently the concept of error free classical communication was translated to the quantum context The so called Quantum Zero Error Information Theory completes and extends the Shannon Zero Error Information Theory

Introduction to Information Theory and Data Compression Peter D. Johnson Jr., Greg A. Harris, D.C. Hankerson, 2003-02-26 An effective blend of carefully explained theory and practical applications this text imparts the fundamentals of both information theory and data compression Although the two topics are related this unique text allows either topic to be presented independently and it was specifically designed so that the data compression section requires no pr

PROBABILITY AND STATISTICS - Volume II Reinhard Viertl, 2009-06-11 Probability and Statistics theme is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme with contributions from distinguished experts in the field discusses Probability and Statistics Probability is a standard mathematical concept to describe stochastic uncertainty Probability and Statistics can be considered as the two sides of a coin They consist of methods for modeling uncertainty and

measuring real phenomena Today many important political health and economic decisions are based on statistics This theme is structured in five main topics Probability and Statistics Probability Theory Stochastic Processes and Random Fields Probabilistic Models and Methods Foundations of Statistics which are then expanded into multiple subtopics each as a chapter These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Information-Spectrum Methods in Information Theory Te Sun Han, 2013-04-18 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 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 *Information Theory for Electrical Engineers* Orhan Gazi, 2018-03-09 This book explains the fundamental concepts of information theory so as to help students better understand modern communication technologies It was especially written for electrical and communication engineers working on communication subjects The book especially focuses on the understandability of the topics and accordingly uses simple and detailed mathematics together with a wealth of solved examples The book consists of four chapters the first of which explains the entropy and mutual information concept for discrete random variables Chapter 2 introduces the concepts of entropy and mutual information for continuous random variables along with the channel capacity In turn Chapter 3 is devoted to the typical sequences and data compression One of Shannon s most important discoveries is the channel coding theorem and it is critical for electrical and communication engineers to fully comprehend the theorem As such Chapter 4 solely focuses on it To gain the most from the book readers should have a fundamental grasp of probability and random variables otherwise they will find it nearly impossible to understand the topics discussed

Introduction to Matrix Analysis and Applications Fumio Hiai, Dénes Petz, 2014-02-06 Matrices can be studied in different ways They are a linear algebraic structure and have a topological analytical aspect for example the normed space of matrices and they also carry an order structure that is induced by positive semidefinite matrices The interplay of these closely related structures is an essential feature of matrix analysis This book explains these aspects of matrix analysis from a functional analysis point of view After an introduction to matrices and functional analysis it covers more advanced topics such as matrix monotone functions matrix means majorization and entropies Several applications to quantum information are also included Introduction to Matrix Analysis and Applications is appropriate for an advanced graduate course on matrix analysis particularly aimed at studying quantum information It can also be used as a reference for researchers in quantum information statistics engineering and economics

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