Key Papers in
The Development of Information Theory

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Fady Alajaji,Po-Ning Chen

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Key Papers in the Developmant of Information Theory David Slepian,1973　　**Key Papers in Information Science** Arthur W. Elias,1972　　**Information, Randomness & Incompleteness** Gregory J. Chaitin,1990-01-01 This book contains in easily accessible form all the main ideas of the creator and principal architect of algorithmic information theory This expanded second edition has added thirteen abstracts a 1988 Scientific American Article a transcript of a EUROPALIA 89 lecture an essay on biology and an extensive bibliography Its new larger format makes it easier to read Chaitin s ideas are a fundamental extension of those of G del and Turning and have exploded some basic assumptions of mathematics and thrown new light on the scientific method epistemology probability theory and of course computer science and information theory　　**Information theory: papers read at...** Symposium on Information Theory, 3rd, London, 1955,Colin Cherry,　　**Elements of Information Theory** Thomas M. Cover,Joy A. Thomas,2006-07-18 The latest edition of this classic is updated with new problem sets and material The Second Edition of this fundamental textbook maintains the book s tradition of clear thought provoking instruction Readers are provided once again with an instructive mix of mathematics physics statistics and information theory All the essential topics in information theory are covered in detail including entropy data compression channel capacity rate distortion network 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 follow each chapter recap the main points The Second Edition features Chapters reorganized to improve teaching 200 new problems New material on source coding portfolio theory and feedback capacity Updated references Now current and enhanced the Second Edition of Elements of Information Theory remains the ideal textbook for upper level undergraduate and graduate courses in electrical engineering statistics and telecommunications   **Information Theory** Sir Willis Jackson,Colin Cherry,1953   *A First Course in Information Theory* Raymond W. Yeung,2002-04-30 An introduction to information theory for discrete random variables Classical topics and fundamental tools are presented along with three selected advanced topics Yeung Chinese U of Hong Kong presents chapters on information measures zero error data compression weak and strong typicality the I measure Markov structures channel capacity rate distortion theory Blahut Arimoto algorithms information inequalities and Shannon type inequalities The advanced topics included are single source network coding multi source network coding and entropy and groups Annotation copyrighted by Book News Inc Portland OR   Information Theory Colin Cherry,1956   Information Theory James V. Stone,2016-05 Originally developed by Claude Shannon in the 1940s information theory laid the foundations for the digital revolution and is now an essential tool in telecommunications genetics linguistics brain sciences and deep space communication In this richly illustrated book accessible examples are used to introduce information theory in terms of everyday games like 20 questions before more advanced topics are explored These advanced topics include a summary of the relationship between information theory and thermodynamic entropy and a review of applications in telecommunications and biology Online MatLab and Python computer programs provide hands on experience of information theory in action and PowerPoint slides give support for teaching Written in an informal style with a comprehensive glossary and tutorial appendices this text is an ideal primer for novices who wish to learn the essential principles and applications of information theory Publisher description   **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   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

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