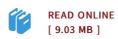# An Introduction to Information Theory

By Fazlollah M. Reza

Dover Publications Inc., United States, 2010. Paperback. Book Condition: New. New edition. 218 x 140 mm. Language: English . Brand New Book. Written for an engineering audience, this book has a threefold purpose: (1) to present elements of modern probability theory -- discrete, continuous, and stochastic; (2) to present elements of information theory with emphasis on its basic roots in probability theory; and (3) to present elements of coding theory. The emphasis throughout the book is on such basic concepts as sets, the probability measure associated with sets, sample space, random variables, information measure, and capacity. These concepts proceed from set theory to probability theory and then to information and coding theories. No formal prerequisites are required other than the usual undergraduate mathematics included in an engineering or science program. However, since these programs may not include a course in probability, the author presents an introductory treatment of probability for those who wish to pursue the general study of statistical theory of communications. The book is divided into four parts: memoryless discrete themes, memoryless continuum, schemes with memory, and an outline of some recent developments. An appendix contains notes to help familiarize the reader with the literature in the field,...

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