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Information Theory Ranjan Bose
He is the author of the book Information Theory, Coding and Cryptography (3rd Ed.). This book has an international edition and has been translated into Chinese and Korean. He is the national coordinator for the MHRD Mission Project on Virtual Labs, which enables students all over the country to perform laboratory experiments remotely.

Ranjan Bose | IIIT-Delhi
The information content of the i th symbol is I (s i) = log pi 1 bits ? PiN occurrences of s i contributes an information content of PiN . I (s i) = P iN . log pi 1 bits ? Total information content of the message is = Sum of the contribution due to each of Source of information Source encoder Channel encoder Modulator Channel User of

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Information Theory Coding and Cryptography, 3rd Edition. Book Description The textbook is designed for the students of electrical/electronics engineering and computer science. The primary aim of this book is to arouse the curiosity of the students. This edition is prepared, keeping in mind, the current needs of students and instructors.

The fields of Information Theory, Coding and Cryptography are ever expanding, and the last six years have seen a spurt of new ideas germinate, mature and get absorbed in industrial standards and applications. Many of these new concepts* have been included.

Various measures of information are discussed in first chapter. Information rate, entropy and mark off models are presented. Second and third chapter deals with source coding. Shannon's encoding algorithm, discrete communication channels, mutual information, Shannon's first theorem are also presented. Huffman coding and Shannon-Fano coding is also discussed. Continuous channels are discussed in fourth chapter. Channel coding theorem and channel capacity theorems are also presented. Block codes are discussed in chapter fifth, sixth and seventh. Linear block codes, Hamming codes, syndrome decoding is presented in detail. Structure and properties of cyclic codes, encoding and syndrome decoding for cyclic codes is also discussed. Additional cyclic codes such as RS codes, Golay codes, burst error correction is also discussed. Last chapter presents convolutional codes. Time domain, transform domain approach, code tree, code trellis, state diagram, Viterbi decoding is discussed in detail.

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.

Aimed at graduate students and researchers, this book covers the key aspects of the modern quantum theory of solids, including up-to-date ideas such as quantum fluctuations and strong electron correlations. It presents in the main concepts of the modern quantum theory of solids, as well as a general description of the essential theoretical methods required when working with these systems. Diverse topics such as general theory of phase transitions, harmonic and anharmonic lattices, Bose

condensation and superfluidity, modern aspects of magnetism including resonating valence bonds, electrons in metals, and strong electron correlations are treated using unifying concepts of order and elementary excitations. The main theoretical tools used to treat these problems are introduced and explained in a simple way, and their applications are demonstrated through concrete examples.

The past decade has witnessed dramatic developments in the field of theoretical physics. This book is a comprehensive introduction to these recent developments. It contains a review of the Standard Model, covering non-perturbative topics, and a discussion of grand unified theories and magnetic monopoles. It introduces the basics of supersymmetry and its phenomenology, and includes dynamics, dynamical supersymmetry breaking, and electric-magnetic duality. The book then covers general relativity and the big bang theory, and the basic issues in inflationary cosmologies before discussing the spectra of known string theories and the features of their interactions. The book also includes brief introductions to technicolor, large extra dimensions, and the Randall-Sundrum theory of warped spaces. This will be of great interest to graduates and researchers in the fields of particle theory, string theory, astrophysics and cosmology. The book contains several problems, and password protected solutions will be available to lecturers at www.cambridge.org/9780521858410.

A Comprehensible Guide to Controller Area Network by Wilfred Voss represents the most thoroughly researched and most complete work on CAN available in the marketplace. It includes:A Brief History of CAN, Main Characteristics, Message Frame Architecture, Message Broadcasting, Bus Arbitration, Error Detection & Fault Confinement, CAN Physical Layer, and more?