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PDF, 7.52 MB. Information Theory, Coding and Cryptography Third Edition About the Author Ranjan Bose is currently Professor in the Department of Electrical Engineering at the Indian Institute of Technology (IIT) Delhi. He obtained his B.Tech degree in Electrical Engineering from IIT Kanpur, Uttar Pradesh.

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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 | IIT-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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ITC and Cryptography, Ranjan Bose, TMH, II edition, 2007 Digital Communications - Glover and Grant; Pearson Ed. 2nd Ed 2008 Page 1 . INDEX SHEET ... Unit - 1: Information Theory Syllabus: Introduction, Measure of information, Average information content of symbols in long

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Information theory, coding and cryptography are the three load-bearing pillars of any digital communication system. In this introductory course, we will start with the basics of information theory ... Ranjan Bose received his B.Tech. degree in electrical engineering from the Indian Institute of Technology (IIT), Kanpur, India in 1992 and the ...

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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.

This new volume provides the necessary background material and brings into focus the fundamental concepts essential for advanced research in theoretical condensed matter physics and its interface with molecular biophysics. It is the outcome of the author's long teaching and research career in theoretical condensed matter physics and related interdisciplinary fields. The author aims to motivate students to take up research in condensed matter physics and march toward new frontiers. He writes: "My long understanding of students' attitude and orientation brings me to the conclusion that many of them are quite excited about the developments in the frontier research areas at the beginning of their career; however, a sizeable fraction of them start losing interest gradually as they are often unable to connect these developments with the basic physics they have studied. I have tried to fill this gap in this book." To this end, special care has been taken to balance the physical concepts and mathematical expressions as well as proper mixing of theoretical and experimental aspects. He starts with the very well-known elementary ideas or basic concepts and goes forward so as to remove the apparent conceptual and technical gap between the known laws and various interesting, challenging, and novel experimental results and effects, some of which are amongst the latest discoveries. Key features: • Introduces a new way of looking at various important and fundamental phenomena in condensed matter from the perspective of microscopic theory • Explores a new interface of quantum condensed matter physics and molecular biophysics, highlighting research potentialities • Addresses the crucial questions surrounding these phenomena when they are mutually coexisting or competing in real condensed matter systems or materials, from both theoretical and experimental angles • Deals with biological molecules and some of their properties and processes and discusses the modeling of these with the help of condensed matter physics and statistical physics • Emphasizes fundamental concepts, particularly in condensed matter physics and making proper use of them

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.