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Bose is currently Professor in the Department of Electrical Engineering at the Indian Institute of Technology (IIT) Delhi. He obtained his BTech degree in Electrical Engineering from IIT Kanpur, UttarPradesh.

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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  $I(s_i) = \log_{P_i} \frac{1}{P_i}$  bits.  $P_i$  occurrences of  $s_i$  contributes an information content of  $P_i \cdot I(s_i) = P_i \cdot \log_{P_i} \frac{1}{P_i}$  bits. Total information content of the message is = Sum



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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.

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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.

Information Theory, Coding & Cryptography has been designed as a comprehensive book for the students of engineering discussing Source Encoding, Error Control Codes & Cryptography. The book contains the recent developments of coded modulation, trellises for codes,

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turbo coding for reliable data and interleaving. The text balances the mathematical rigor with exhaustive amount of solved, unsolved questions along with a database of MCQs.

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

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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



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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

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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](http://www.cambridge.org/9780521858410).

This volume contains refereed papers devoted to coding and cryptography. These papers are the full versions of a selection of the best extended abstracts accepted for presentation at the International Workshop on Coding and Cryptography (WCC 2005) held in Bergen, Norway, March 14 – 18, 2005. Each of the 118 - tended abstracts originally submitted to the workshop were reviewed by at least two members of the Program

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Committee. As a result of this screening process, 58 papers were selected for presentation, of which 52 were eventually presented at the workshop together with four invited talks. The authors of the presented papers were in turn invited to submit full versions of their papers to the full proceedings. Each of the full-version submissions were once again thoroughly examined and commented upon by at least two reviewers. This volume is the end result of this long process. I am grateful to the reviewers who contributed to guaranteeing the high standards of this volume, and who are named on the next pages. It was a pleasure for me to work with my program co-chair Pascale Charpin, whose experienced advice I have further benefited

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greatly from during the preparation of this volume. Discussions with Tor Helleseth and Angela Barbero were also useful in putting the volume together. Finally, I would like to thank all the authors and all the other participants of the WCC 2005 for making it in every sense a highly enjoyable event.

Understanding the physics of heavy quarks gives physicists the unique opportunity to test the predictions of Quantum Chromodynamics and the Standard Model. First published in 2000, this introductory text on this exciting area of high-energy physics begins with a

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review of the standard model, followed by the basics of heavy quark spin-flavor symmetry and how it can be applied to the classification of states, decays and fragmentation. Heavy quark effective theory is then developed and applied to the study of hadron masses, form factors, and inclusive decay rates. The authors also discuss the application of chiral perturbation theory to heavy hadrons. Written by two world leading experts, the presentation is clear and original, with problems provided at the end of each chapter. This lucid volume provides graduate students with an ideal introduction to the physics of heavy quarks, and more experienced researchers with an authoritative reference to the subject.

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About The Book: The book provides a detailed, unified treatment of theoretical and practical aspects of digital and analog communication systems, with emphasis on digital communication systems. It integrates theory-keeping theoretical details to a minimum-with over 60 practical, worked examples illustrating real-life methods. The text emphasizes deriving design equations that relate performance of functional blocks to design parameters. It illustrates how to trade off between power, band-width and equipment complexity while maintaining an acceptable quality of performance. Material is modularized so that appropriate portions can be selected to teach several different courses. The

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book also includes over 300 problems and an annotated bibliography in each chapter.

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