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From Pythagoras to the 57th Dimension, 250 Milestones in the History of Mathematics Cambridge University Press
This book is a compilation of research work in the interdisciplinary areas of electronics, communication, and computing. This book is specifically targeted at students, research scholars and academicians. The book covers the different approaches and techniques for specific applications, such as particle-swarm optimization, Otsu ' s function and harmony search optimization algorithm, triple gate silicon on insulator (SOI)MOSFET, micro-Raman and Fourier Transform Infrared Spectroscopy (FTIR) analysis, high-k dielectric gate oxide, spectrum sensing in cognitive radio, microstrip antenna, Ground-penetrating radar (GPR) with conducting surfaces, and digital image forgery detection. The contents of the book will be useful to academic and professional researchers alike.

Coding and Information Theory Springer
While battery capacity is often insufficient to keep up with the power-demanding features of the latest mobile devices, powering the functional advancement of wireless devices requires a revolution in the concept of battery life and recharge capability. Future handheld devices and wireless networks should be able to recharge themselves automaticall

Critical Discourse in Bangla Sterling Publishing Company, Inc.
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 in the second edition, which will enable students graduating from engineering colleges and currently practicing engineers to learn these

topics quickly and efficiently

Reinforcement Learning, second edition PHI Learning Pvt. Ltd. Student edition of the classic text in information and coding theory

Wireless Communications Cambridge University Press The South Asian subcontinent is home to nearly a billion people and has been the site of fierce historical contestation. It is a panoply of languages and religions with a rich and complex history and culture. Drawing on the newest and most sophisticated historical research and scholarship in the field, Modern South Asia is written in an accessible style for all those with an intellectual curiosity about the region. After sketching the pre-modern history of the subcontinent, the book concentrates on the last three centuries from c.1700 to the present. Jointly written by two leading Indian and Pakistani historians, it offers a rare depth of historical understanding of the politics, cultures and economies that shape the lives of more than a fifth of humanity. In this comprehensive study, the authors debate and challenge the striking developments in contemporary South Asian history and historical writing. The book provides new insights into the structure and ideology of the British raj, the meaning of subaltern resistance, the refashioning of social relations along lines of caste, class, community and gender, the different strands of anti-colonial nationalism and the dynamics of decolonization. This book is a work of synthesis and interpretation covering the entire spectrum of modern South Asian history - social, economic and political. The authors offer an understanding of this startegically and economically vital part of the world.

Mathematical Methods and Algorithms Lulu.com 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

Proceedings of ICICC 2021, Volume 1 John Wiley & Sons

This book covers 250 milestones in mathematical history, beginning millions of years ago with ancient "ant odometers" and moving through time to our modern-day quest for new dimensions.

Introduction to Cryptography With Coding Theory CRC Press

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.

Detection, Estimation, and Modulation Theory, Part III New Delhi : National Book Trust, India

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.

Radar-Sonar Signal Processing and Gaussian Signals in Noise John Wiley & Sons

Network Management: Principles And Practice is a reference book that comprehensively covers various theoretical and practical concepts of network

management. It is divided into four units. The first unit gives an overview of network management. The *Probability and Random Processes* John Wiley & Sons
The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

Thinking Literature across Continents Oxford University Press
This volume forms a part of the Critical Discourses in South Asia series which deals with schools, movements, and discursive practices in major South Asian languages. It offers crucial insights into the making of Bengali or Bangla literature and its critical tradition across a century. The book brings together English translation of major writings of influential figures dealing with literary criticism and theory, aesthetic and performative traditions, and reinterpretations of primary concepts and categories in Bangla. It presents 32 key texts in literary and cultural studies from Bengal from the middle of the 19th to that of the 20th century, with most of them translated for the first time into English. These seminal essays are linked with socio-historical events and phenomena in the colonial and post-independence period in Bengal, including the background to the Language Movement in Bangladesh. They discuss themes such as integrative aesthetic visions, poetic and literary forms, modernism, imagination, power structures and social struggles, ideological values, cultural renovations, and humanism. Comprehensive and authoritative, this volume offers an overview of the history of critical thought in Bangla literature in South Asia. It will be essential for scholars and researchers of Bengali/Bangla language and literature, literary criticism, literary theory, comparative literature, Indian literature, cultural studies, art and aesthetics, performance studies, history, sociology, regional studies, and South Asian studies. It will also interest the Bengali-speaking diaspora and those working on the intellectual history of Bengal and conservation of languages and culture

Principles of Digital Communication Tata McGraw-Hill Education

This book includes high-quality research papers presented at the Fourth International Conference on Innovative Computing and Communication (ICICC 2021), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on February 20–21, 2021. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

Energy Optimization and Scavenging Techniques John Wiley & Sons

An unparalleled learning tool and guide to error correction coding Error correction coding techniques allow the detection and correction of errors occurring during the transmission of data in digital communication systems. These techniques are nearly universally employed in modern communication systems, and are thus an important component of the modern information economy. Error Correction Coding: Mathematical Methods and Algorithms provides a comprehensive introduction to both the theoretical and practical aspects of error correction coding, with a presentation suitable for a wide variety of audiences, including graduate students in electrical engineering, mathematics, or computer science. The pedagogy is arranged so that the mathematical concepts are presented incrementally, followed immediately by applications to coding. A large number of exercises expand and deepen students' understanding. A unique feature of the book is a set of programming laboratories, supplemented with over 250 programs and functions on an associated Web site, which provides hands-on experience and a better understanding of the material. These laboratories lead students through the implementation and evaluation of Hamming codes, CRC codes, BCH and R-S codes, convolutional codes, turbo codes, and LDPC codes. This text offers both "classical" coding theory-such as Hamming, BCH, Reed-Solomon, Reed-Muller, and convolutional codes-as well as modern codes and decoding methods, including turbo codes, LDPC codes, repeat-accumulate codes, space time codes, factor graphs, soft-decision decoding, Guruswami-Sudan decoding, EXIT charts, and iterative decoding. Theoretical complements on performance and bounds are presented. Coding is also put into its communications and information theoretic context and connections are drawn to public key cryptosystems. Ideal as a classroom resource and a professional reference, this thorough guide will benefit electrical and computer engineers, mathematicians, students, researchers, and scientists.

Satyendra Nath Bose Technical Publications

This book is an introduction to information and coding theory at the graduate or advanced undergraduate level. It assumes a basic knowledge of probability and modern algebra, but is otherwise self- contained. The intent is to describe as clearly as possible the fundamental issues involved in these subjects, rather than covering all aspects in an encyclopedic fashion. The first quarter of the book is devoted to information theory, including a proof of Shannon's famous Noisy Coding Theorem. The remainder of the book is devoted to coding theory and is independent of the information theory portion of the book. After a brief discussion of general families of codes, the author discusses linear codes (including the Hamming,

Golary, the Reed-Muller codes), finite fields, and cyclic codes (including the BCH, Reed-Solomon, Justesen, Goppa, and Quadratic Residue codes). An appendix reviews relevant topics from modern algebra.

International Conference on Innovative Computing and Communications Taylor & Francis

Thinking Literature across Continents finds Ranjan Ghosh and J. Hillis Miller—two thinkers from different continents, cultures, training, and critical perspectives—debating and reflecting upon what literature is and why it matters. Ghosh and Miller do not attempt to formulate a joint theory of literature; rather, they allow their different backgrounds and lively disagreements to stimulate generative dialogue on poetry, world literature, pedagogy, and the ethics of literature. Addressing a varied literary context ranging from Victorian literature, Chinese literary criticism and philosophy, and continental philosophy to Sanskrit poetics and modern European literature, Ghosh offers a transnational theory of literature while Miller emphasizes the need to account for what a text says and how it says it. Thinking Literature across Continents highlights two minds continually discovering new paths of communication and two literary and cultural traditions intersecting in productive and compelling ways.

Error Correction Coding Springer Nature

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

cryptography & algorithm CRC Press

Biography of the Indian physicist Satyendranath Bose, 1894-1974.

INFORMATION THEOY CODNG & CRYP 2E CRC Press

A gentle introduction to genetic algorithms. Genetic algorithms revisited: mathematical foundations. Computer implementation of a genetic algorithm. Some applications of genetic algorithms. Advanced operators and techniques in genetic search. Introduction to genetics-based machine learning. Applications of genetics-based machine learning. A look back, a glance ahead. A review of combinatorics and elementary probability. Pascal with random number generation for fortran, basic, and cobol programmers. A simple genetic algorithm (SGA) in pascal. A simple classifier system(SCS) in pascal. Partition coefficient transforms for problem-coding analysis.

The Theory of Information and Coding Cengage Learning

Featuring a variety of applications that motivate students, this book serves as a companion or supplement to any of the comprehensive textbooks in communication systems. The book provides a variety of exercises that may be solved on the computer using MATLAB. By design, the treatment of the various topics is brief.

The authors provide the motivation and a short introduction to each topic, establish the necessary notation, and then illustrate the basic concepts by means of an example. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.