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Selected Topics in Information and Coding Theory CRC Press
This book introduces and motivates locally decodable codes, and discusses the central results of the subject. It will benefit computer scientists, electrical engineers, and mathematicians with an interest in coding theory.

Advances in Cryptology – ASIACRYPT 2018 **CRC Press**
Algebraic coding theory is a new and rapidly developing subject, popular for its many practical applications and for its fascinatingly rich mathematical structure. This book provides an elementary yet rigorous introduction to the theory of error-correcting codes. Based on courses given by the author over several years to advanced undergraduates and first-year graduated students, this guide includes a large number of exercises, all with solutions, making the book highly suitable for individual study.

The Theory of Hash Functions and Random Oracles John Wiley & Sons
An introduction to the theory of error-correction codes, and in particular to linear block codes is provided in this book. It considers such codes as Hamming codes and Golay codes, correction of double errors, use of finite fields, cyclic codes, BCH codes and weight distributions, as well as design of codes. In this second edition, the author includes more material on non-binary code and cyclic codes. In addition some proofs have been simplified and there are many more examples and problems. The text has been aimed at mathematicians, electrical engineers and computer scientists.

Concise Encyclopedia of Coding Theory Springer Nature
This volume contains the refereed proceedings of the Workshop on Cryptography and

Computational Number Theory, CCNT'99, which has been held in Singapore during the week of November 22-26, 1999. The workshop was organized by the Centre for Systems Security of the Na tional University of Singapore. We gratefully acknowledge the financial support from the Singapore National Science and Technology Board under the grant num ber RP960668/M. The idea for this workshop grew out of the recognition of the recent, rapid development in various areas of cryptography and computational number the ory. The event followed the concept of the research programs at such well-known research institutions as the Newton Institute (UK), Oberwolfach and Dagstuhl (Germany), and Luminy (France). Accordingly, there were only invited lectures at the workshop with plenty of time for informal discussions. It was hoped and successfully achieved that the meeting would encourage and stimulate further research in information and computer security as well as in the design and implementation of number theoretic cryptosystems and other related areas. Another goal of the meeting was to stimulate collaboration and more active interaction between mathematicians, computer scientists, practical cryptographers and engineers in academia, industry and government.

Codes Over Rings Springer Science & Business Media

Incorporating an innovative modeling approach, this book for a one-semester differential equations course emphasizes conceptual understanding to help users relate information taught in the classroom to real-world experiences. Certain models reappear throughout the book as running themes to synthesize different concepts from multiple angles, and a dynamical systems focus emphasizes predicting the long-term behavior of these recurring models. Users will discover how to identify and harness the mathematics they will use in their careers, and apply it effectively outside the classroom. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Differential Equations Cengage Learning

The three-volume set of LNCS 11272, 11273, and 11274 constitutes the refereed proceedings of the 24th International Conference on the Theory and Applications of Cryptology and Information Security, ASIACRYPT 2018, held in Brisbane, Australia, in December 2018. The 65 revised full papers were carefully selected from 234 submissions. They are organized in topical sections on Post-Quantum Cryptanalysis; Encrypted Storage; Symmetric-Key Constructions; Lattice Cryptography; Quantum Symmetric Cryptanalysis; Zero-Knowledge; Public Key and Identity-Based Encryption; Side-Channels; Signatures; Leakage-Resilient Cryptography; Functional/Inner Product/Predicate Encryption; Multi-party Computation; ORQM; Real World Protocols; Secret Sharing; Isogeny Cryptography; and Foundations.

Introduction to Coding Theory Springer Science & Business Media

This book is intended to introduce coding theory and information theory to undergraduate students of mathematics and computer science. It begins with a review of probablity theory as applied to finite sample spaces and a general introduction to the nature and types of codes. The two subsequent chapters discuss information theory: efficiency of codes, the entropy of information sources, and Shannon's Noiseless Coding Theorem. The remaining three chapters deal with coding theory: communication channels, decoding in the presence of errors, the general theory of linear codes, and such specific codes as Hamming codes, the simplex codes, and many others.

Codes and Cryptography CRC Press

The LNCS series reports state-of-the-art results in computer science research, development, and education, at a high level and in both printed and electronic form. Enjoying tight cooperation with the R & D community, with numerous individuals, as well as with prestigious organizations and societies, LNCS has grown into the most comprehensive computer science research forum available. The scope of LNCS, including its subseries LNAI and LNBI, spans the whole range of computer science and information technology including interdisciplinary topics in a variety of application fields. The type of material published traditionally includes proceedings (published in time for the respective conference) post-proceedings (consisting of throughly revised final full papers) research monographs (which may be based on outstanding PhD work, research projects, technical reports, etc.) More recently, several color-cover sublines have been added featuring, beyond a collection of papers, various added-value components; these sublines include tutorials (textbook-like monographs or collections of lectures given at advanced courses) state-of-the-art surveys (offering complete and mediated coverage of a topic) hot topics (introducing emergent topics to the broader community) In parallel to the printed book, each new volume is published electronically in LNCS Online. Book jacket.

Birkhäuser

For courses in DC/AC circuits: conventional flow

Introductory Circuit Analysis, the number one acclaimed text in the field for over three decades, is a clear and interesting information source on a complex topic. The 13th Edition contains updated insights on the highly technical subject, providing students with the most current information in circuit analysis. With updated software components and challenging review questions at the end of each chapter, this text engages students in a profound understanding of Circuit Analysis. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via

the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Post-Quantum Cryptography John Wiley & Sons Incorporated

Using a simple yet rigorous approach, Algebraic and Stochastic Coding Theory makes the subject of coding theory easy to understand for readers with a thorough knowledge of digital arithmetic, Boolean and modern algebra, and probability theory. It explains the underlying principles of coding theory and offers a clear, detailed description of each code. More advanced readers will appreciate its coverage of recent developments in coding theory and stochastic processes. After a brief review of coding history and Boolean algebra, the book introduces linear codes, including Hamming and Golay codes. It then examines codes based on the Galois field theory as well as their application in BCH and especially the Reed–Solomon codes that have been used for error correction of data transmissions in space missions. The major outlook in coding theory seems to be geared toward stochastic processes, and this book takes a bold step in this direction. As research focuses on error correction and recovery of erasures, the book discusses belief propagation and distributions. It examines the low-density parity-check and erasure codes that have opened up new approaches to improve wide-area network data transmission. It also describes modern codes, such as the Luby transform and Raptor codes, that are enabling new directions in high-speed transmission of very large data to multiple users. This robust, self-contained text fully explains coding problems, illustrating them with more than 200 examples. Combining theory and computational techniques, it will appeal not only to students but also to industry professionals, researchers, and academics in areas such as coding theory and signal and image processing.

Locally Decodable Codes Springer

The chapters in this open access book arise out of the EU Cost Action project Cryptacus, the objective of which was to improve and adapt existent cryptanalysis methodologies and tools to the ubiquitous computing framework. The cryptanalysis implemented lies along four axes: cryptographic models, cryptanalysis of building blocks, hardware and software security engineering, and security assessment of real-world systems. The authors are top-class researchers in security and cryptography, and the contributions are of value to researchers and practitioners in these domains. This book is open access under a CC BY license.

Information Theory and Coding by Example Oxford University Press

Modern introduction to theory of coding and decoding with many exercises and examples.

Mathematical Reviews Cambridge University Press

This book is a study of the relation between theatre art and ideology in the Chinese experimentations with new selfhood as a result of Ibsen's impact. It also explores Ibsenian notions of self, women and gender in China and provides an illuminating study of Chinese theatre as a public sphere in the dissemination of radical ideas. Ibsen is the major source of modern Chinese selfhood which carries notions of personal and social liberation and has exerted great impacts on Chinese revolutions since the beginning of the twentieth century. Ibsen's idea of the self as an individual has led to various experimentations in theatre, film and fiction to project new notions of selfhood, in particular women's selfhood, throughout the history of modern China. Even today, China is experimenting with Ibsen's notions of gender, power, individualism and self. Kwok-kan Tam is Chair Professor of English and Dean of Humanities and Social Science at the Hang Seng University of Hong Kong. He was Head (2012-18) and is currently a member of the International Ibsen Committee, University of Oslo. He is a Foundation Fellow of the Hong Kong Academy of the Humanities. He has held teaching, research and administrative positions in various institutions, including the East-West Center, the Chinese University of Hong Kong and the Open University of Hong Kong. He has published numerous books and articles on Ibsen, Gao Xingjian, modern drama, Chinese film, postcolonial literature, and world Englishes. His recent books include Ibsen, Power and the Self: Postsocialist Experimentations in Stage Performance and Film (2019), The Englishized Subject: Postcolonial Writings in Hong Kong, Singapore and Malaysia (2019), and a co-edited volume Fate and Prognostication in the Chinese Literary Imagination (2019).

Design of Reinforced Concrete Cambridge University Press

This fundamental monograph introduces both the probabilistic and algebraic aspects of information theory and coding. It has evolved from the authors' years of experience teaching at the undergraduate level, including several Cambridge Maths Tripos courses. The book provides relevant background material, a wide range of worked examples and clear solutions to problems from real exam papers. It is a valuable teaching aid for undergraduate and graduate students, or for researchers and engineers who want to grasp the basic principles.

Coding and Cryptology Coding Theory

This book constitutes the refereed proceedings of the 9th International Workshop on Post-Quantum Cryptography, PQCrypto 2018, held in Fort Lauderdale, FL, USA, in April 2018. The 24 revised full papers presented were carefully reviewed and selected from 97 submissions. The papers are organized in topical sections on Lattice-based Cryptography, Learning with Errors, Cryptanalysis, Key Establishment, Isogeny-based Cryptography, Hash-based cryptography, Code-based Cryptography.

Security of Ubiquitous Computing Systems Springer Science & Business Media

Hash functions are the cryptographer's Swiss Army knife. Even though they play an integral part in today's cryptography, existing textbooks discuss hash functions only in passing and instead often put an emphasis on other primitives like encryption schemes. In this

book the authors take a different approach and place hash functions at the center. The result is not only an introduction to the theory of hash functions and the random oracle model but a comprehensive introduction to modern cryptography. After motivating their unique approach, in the first chapter the authors introduce the concepts from computability theory, probability theory, information theory, complexity theory, and information-theoretic security that are required to understand the book content. In Part I they introduce the foundations of hash functions and modern cryptography. They cover a number of schemes, concepts, and proof techniques, including computational security, one-way functions, pseudorandomness and pseudorandom functions, game-based proofs, message authentication codes, encryption schemes, signature schemes, and collision-resistant (hash) functions. In Part II the authors explain the random oracle model, proof techniques used with random oracles, random oracle constructions, and examples of real-world random oracle schemes. They also address the limitations of random oracles and the random oracle controversy, the fact that uninstantiable schemes exist which are provably secure in the random oracle model but which become insecure with any real-world hash function. Finally in Part III the authors focus on constructions of hash functions. This includes a treatment of iterative hash functions and generic attacks against hash functions, constructions of hash functions based on block ciphers and number-theoretic assumptions, a discussion of privately keyed hash functions including a full security proof for HMAC, and a presentation of real-world hash functions. The text is supported with exercises, notes, references, and pointers to further reading, and it is a suitable textbook for undergraduate and graduate students, and researchers of cryptology and information security.

Advances in Coding Theory and Cryptography CRC Press

The theory of elliptic curves is distinguished by its long history and by the diversity of the methods that have been used in its study. This book treats the arithmetic approach in its modern formulation, through the use of basic algebraic number theory and algebraic geometry. Following a brief discussion of the necessary algebro-geometric results, the book proceeds with an exposition of the geometry and the formal group of elliptic curves, elliptic curves over finite fields, the complex numbers, local fields, and global fields. Final chapters deal with integral and rational points, including Siegels theorem and explicit computations for the curve Y = X + DX, while three appendices conclude the whole: Elliptic Curves in Characteristics 2 and 3, Group Cohomology, and an overview of more advanced topics.

Handbook of Coding Theory Now Pub

Publisher Description

The Theory of Information and Coding Springer Science & Business Media

The three-volume set LNCS 10624, 10625, 10626 constitutes the refereed proceedings of the 23rd International Conference on the Theory and Applications of Cryptology and Information Security, ASIACRYPT 2017, held in Hong Kong, China, in December 2017.The 65 revised full papers were carefully selected from 243 submissions. They are organized in topical sections on Post-Quantum Cryptography; Symmetric Key Cryptanalysis; Lattices; Homomorphic Encryptions; Access Control; Oblivious Protocols; Side Channel Analysis; Pairing-based Protocols; Quantum Algorithms; Elliptic Curves; Block Chains; Multi-Party Protocols; Operating Modes Security Proofs; Cryptographic Protocols; Foundations; Zero-Knowledge Proofs; and Symmetric Key Designs.

A Decade of Lattice Cryptography Springer

Publisher description