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Algebraic and Stochastic Coding Theory
Coding and Cryptology
Introduction to the Theory of Error-correcting Codes
Locally Decodable Codes
The Rayleigh-Ritz Method for Structural Analysis
Introduction to Coding Theory
Codes and Cryptography
Differential Equations
Design of Reinforced Concrete
Coding and Cryptology
Advances in Coding Theory and Cryptography
Post-Quantum Cryptography
The Arithmetic of Elliptic Curves
Advances in Cryptology – ASIACRYPT 2017
Gazette - Australian Mathematical Society
Projective Geometries Over Finite Fields
Advances in Cryptology – ASIACRYPT 2018
The Theory of Hash Functions and Random Oracles
Coding Theory
Algebraic Curves in Cryptography
Cryptography

Mathematical Reviews
The Theory of Information and Coding
Coding and Cryptology
Handbook of Coding Theory
Concise Encyclopedia of Coding Theory
Analytic Theory of Polynomials
Cryptology and Network Security
Group Theoretic Cryptography
Cryptography and Computational Number Theory
Reliability and Availability Engineering
Coding Theory
A Decade of Lattice Cryptography
Selected Topics in Information and Coding Theory
Codes Over Rings

BUCKLEY TAPIA

Information Theory and Coding by Example Springer
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.
Introductory Circuit Analysis, Global Edition John Wiley & Sons
Student edition of the classic text in information and coding theory
A First Course in Coding Theory CRC Press
The reach of algebraic curves in cryptography goes far beyond elliptic curve or public key cryptography yet these other application areas have not been systematically covered in the literature. Addressing this gap, Algebraic Curves in Cryptography explores the rich uses of algebraic curves in a range of cryptographic applications, such as secret sh
Introduction to Coding and Information Theory Oxford University Press
Learn about the techniques used for evaluating the reliability and availability of engineered systems with this comprehensive guide.
Security of Ubiquitous Computing Systems Springer Science & Business Media
Publisher description

Algebraic and Stochastic Coding Theory North Holland
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.
Coding and Cryptology CRC Press
Modern introduction to theory of coding and decoding with many exercises and examples.
Introduction to the Theory of Error-correcting Codes Oxford University Press on Demand
Through three editions, Cryptography: Theory and Practice, has been embraced by instructors and students alike. It offers a comprehensive primer for the subject's fundamentals while presenting the most current advances in cryptography. The authors offer comprehensive, in-depth treatment of the methods and protocols that are vital to safeguarding the seemingly infinite and increasing amount of information circulating around the world. Key Features of the Fourth Edition: New chapter on the exciting, emerging new area of post-quantum cryptography (Chapter 9). New high-level, nontechnical overview of the goals and tools of cryptography (Chapter 1). New mathematical appendix that summarizes definitions and main results on number theory and algebra (Appendix A). An expanded treatment of stream ciphers, including common design techniques along with coverage of Trivium. Interesting attacks on cryptosystems, including: padding oracle attack correlation attacks and algebraic attacks on stream ciphers attack on the DUAL-EC random bit generator that makes use of a trapdoor. A treatment of the sponge construction for hash functions and its use in the new SHA-3 hash standard. Methods of key distribution in sensor networks. The basics of visual cryptography, allowing a secure method to split a secret visual message into pieces (shares) that can later be combined to reconstruct the secret. The fundamental techniques cryptocurrencies, as used in Bitcoin and blockchain. The basics of the new methods employed in messaging protocols such as Signal, including deniability and Diffie-Hellman key ratcheting.
Locally Decodable Codes CRC Press
Surveys most of the major developments in lattice cryptography over the past ten years. The main focus is on the foundational short integer solution (SIS) and learning with errors (LWE) problems, their provable hardness assuming the worst-case intractability of standard lattice problems, and their many cryptographic applications.
The Rayleigh-Ritz Method for Structural Analysis CRC Press
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.

Introduction to Coding Theory Springer Science & Business Media

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.

Codes and Cryptography John Wiley & Sons Incorporated

Most coding theory experts date the origin of the subject with the 1948 publication of A Mathematical Theory of Communication by Claude Shannon. Since then, coding theory has grown into a discipline with many practical applications (antennas, networks, memories), requiring various mathematical techniques, from commutative algebra, to semi-definite programming, to algebraic geometry. Most topics covered in the Concise Encyclopedia of Coding Theory are presented in short sections at an introductory level and progress from basic to advanced level, with definitions, examples, and many references. The book is divided into three parts: Part I fundamentals: cyclic codes, skew cyclic codes, quasi-cyclic codes, self-dual codes, codes and designs, codes over rings, convolutional codes, performance bounds Part II families: AG codes, group algebra codes, few-weight codes, Boolean function codes, codes over graphs Part III applications: alternative metrics, algorithmic techniques, interpolation decoding, pseudo-random sequences, lattices, quantum coding, space-time codes, network coding, distributed storage, secret-sharing, and code-based-cryptography. Features Suitable for students and researchers in a wide range of mathematical disciplines Contains many examples and references Most topics take the reader to the frontiers of research

Differential Equations Cambridge University Press

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.

Design of Reinforced Concrete Cambridge University Press

This textbook forms an introduction to codes, cryptography and information theory as it has developed since Shannon's original papers.

Coding and Cryptology Springer Science & Business Media

A presentation of the theory behind the

Rayleigh-Ritz (R-R)method, as well as a discussion of the choice of admissiblefunctions and the use of penalty methods, including recentdevelopments such as using negative inertia and bi-penaltyterms. While presenting the mathematical basis of the R-Rmethod, the authors also give simple explanations and analogies tomake it easier to understand. Examples include calculation ofnatural frequencies and critical loads of structures and structuralcomponents, such as beams, plates, shells and solids. MATLAB codesfor some common problems are also supplied.

Advances in Coding Theory and Cryptography Now Pub

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.

Post-Quantum Cryptography Cambridge University Press

Publisher Description

The Arithmetic of Elliptic Curves Springer

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.

Advances in Cryptology – ASIACRYPT 2017 Cambridge University Press

This book constitutes the refereed proceedings of the 6th International

Conference on Cryptology and Network Security, CANS 2007, held in Singapore, in December 2007. The 17 revised full papers presented were carefully reviewed and selected. The papers are organized in topical sections on signatures, network security, secure keyword search and private information retrieval, public key encryption, intrusion detection, email security, denial of service attacks, and authentication.

Gazette - Australian Mathematical Society Springer

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.