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Advances in Quantum Coding Theory



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Coding Theory Quantum Computing An Int

D. M. Dubois



Coding Theory Quantum Computing An Int:

Coding Theory and Quantum Computing David Evans, 2005 A conference Coding Theory and Quantum Computing was held in Charlottesville VA to provide an opportunity for computer scientists mathematicians and physicists to interact about subjects of common interest This proceedings volume grew out of that meeting It is divided into two parts Coding Theory and Quantum Computing In the first part Harold Ward gives an introduction to coding theory Other papers survey recent important work such as coding theory applications of Grobner bases methods of computing parameters of codes corresponding to algebraic curves and problems in the theory of designs The second part of the book covers a wide variety of directions in quantum information with an emphasis on understanding entanglement The material presented is suitable for graduate students and researchers interested in coding theory and in quantum computing

Lectures on Quantum Computation, Quantum Error Correcting Codes and Information Theory K. R. Parthasarathy, 2006 These notes are based on a course of about twenty lectures on quantum computation quantum error correcting codes and information theory The topics include a comparative description of the basic features of classical probability theory on finite sample spaces and quantum probability theory on finite dimensional complex Hilbert spaces quantum gates and circuits simple examples of circuits arising from quantum teleportation communication through EPR pairs and arithmetical computations on a quantum computer more sophisticated examples of such circuits in the context of Fourier transform and phase estimation a detailed account of the order finding algorithm as well as the celebrated Shor's algorithm for factorising a positive integer into its prime factors There is a leisurely discussion of quantum error correcting codes with the Knill-Laflamme criterion for error correction and a number of examples of such codes whose construction is based on the Weyl commutation relations for finite abelian groups The reader may find here a brief introduction to the basic ideas of classical information theory as developed by Shannon properties of von Neumann's quantum entropy and relative entropy as well as a proof of Schumacher's noiseless quantum coding theorem The Holevo bound for transmission of classical information through encoding by quantum states followed by measurements is derived The only background assumed of the reader is linear algebra on finite dimensional complex vector spaces and elementary classical probability theory on finite sample spaces These notes are aimed at mathematicians and computer scientists who are curious to know the mystery behind a quantum computer and the possibility of communicating information using the principles of elementary quantum theory

Coding Theory - Advances and Applications in Informatics, Data Analysis, and Cryptography Jonathan Blackledge, A.F.M. Shahen Shah, 2025-12-03 Cryptography and coding theory share a common mathematical foundation in algebra number theory and information theory While coding theory focuses on ensuring reliable transmission and storage of data in the presence of noise and errors cryptography is concerned with safeguarding data from adversarial threats ensuring confidentiality integrity and authenticity In the modern landscape of data driven technologies these two perspectives have become increasingly intertwined Secure

communications distributed systems and intelligent networks require both error resilience and cryptographic protection to operate effectively This book presents a comprehensive exploration of recent advances in coding theory highlighting its profound applications across informatics data analysis and cryptography Bringing together contributions from leading experts the volume provides both theoretical insights and practical perspectives making it a valuable resource for researchers professionals and advanced students alike Topics covered include error correcting codes modern coding strategies for large scale data systems emerging applications in network coding machine learning and secure communications Specific emphasis is placed on the role of coding theory in ensuring data integrity and robustness in an age of unprecedented information exchange From enhancing the reliability of cloud storage to strengthening cryptographic protocols against evolving cyber threats and utilizing novel methods of data encryption such as those employing Machine Learning and post quantum security the chapters demonstrate how coding techniques continue to adapt to contemporary challenges in digital technology Written with clarity and depth the book also serves as a bridge between the mathematical basis for coding and cryptography and their real world applications Each chapter combines rigorous discussion with illustrative examples offering readers both a conceptual understanding and the tools for practical implementation The book is not only a reference for specialists but also an invitation to explore how abstract mathematical ideas translate into innovations that safeguard and empower today s digital society

Exploring Numbers Beyond Primes N.B. Singh, *Exploring Numbers Beyond Primes* is a comprehensive and accessible introduction to the fascinating world of number theory designed specifically for absolute beginners This book takes readers on a captivating journey through the mysteries of prime numbers and Diophantine equations offering clear explanations and engaging examples along the way From the historical origins of number theory to modern approaches and future directions each chapter provides a step by step exploration of key concepts supported by vivid descriptions and relatable analogies Whether you re a curious novice or an aspiring mathematician *Exploring Numbers Beyond Primes* invites you to discover the beauty and wonder of numbers inspiring a lifelong passion for mathematical inquiry

Proceedings of Tenth International Congress on Information and Communication Technology Xin-She Yang,R. Simon Sherratt,Nilanjan Dey,Amit Joshi,2025-09-26 This book gathers selected high quality research papers presented at the Tenth International Congress on Information and Communication Technology ICICT 2025 held in London on February 18 21 2025 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of Things IoT and e mining Written by respected experts and researchers working on ICT the book offers an asset for young researchers involved in advanced studies The work is presented in ten volumes

Proceedings of the Seventh International Conference on Mathematics and Computing Debasis Giri,Kim-Kwang Raymond Choo,Saminathan Ponnusamy,Weizhi Meng,Sedat Akleyek,Santi Prasad Maity,2022-03-05 This book features selected papers from the 7th International Conference on

Mathematics and Computing ICMC 2021 organized by Indian Institute of Engineering Science and Technology IIST Shibpur India during March 2021 It covers recent advances in the field of mathematics statistics and scientific computing The book presents innovative work by leading academics researchers and experts from industry

Concise Encyclopedia of Coding Theory W. Cary Huffman, Jon-Lark Kim, Patrick Solé, 2021-03-25 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

International Conference on Applications and Techniques in Cyber Intelligence ATCI 2019 Jemal H. Abawajy, Kim-Kwang Raymond Choo, Rafiqul Islam, Zheng Xu, Mohammed Atiquzzaman, 2019-07-31 This book presents innovative ideas cutting edge findings and novel techniques methods and applications in a broad range of cybersecurity and cyberthreat intelligence areas As our society becomes smarter there is a corresponding need to be able to secure our cyberfuture The approaches and findings described in this book are of interest to businesses and governments seeking to secure our data and underpin infrastructures as well as to individual users

Information Science & Technology in China: A Roadmap to 2050 Guojie Li, 2011-10-15 As one of the eighteen field specific reports comprising the comprehensive scope of the strategic general report of the Chinese Academy of Sciences this sub report addresses long range planning for developing science and technology in the field of information science technology They each craft a roadmap for their sphere of development to 2050 In their entirety the general and sub group reports analyze the evolution and laws governing the development of science and technology describe the decisive impact of science and technology on the modernization process predict that the world is on the eve of an impending S T revolution and call for China to be fully prepared for this new round of S T advancement Based on the detailed study of the demands on S T innovation in China s modernization the reports draw a framework for eight basic and strategic systems of socio economic development with the support of science and technology work out China s S T roadmaps for the relevant eight basic and strategic systems in line with China s reality further detail S T initiatives of strategic importance to

China's modernization and provide S T decision makers with comprehensive consultations for the development of S T innovation consistent with China's reality Supported by illustrations and tables of data the reports provide researchers government officials and entrepreneurs with guidance concerning research directions the planning process and investment Founded in 1949 the Chinese Academy of Sciences is the nation's highest academic institution in natural sciences Its major responsibilities are to conduct research in basic and technological sciences to undertake nationwide integrated surveys on natural resources and ecological environment to provide the country with scientific data and consultations for government's decision making to undertake government assigned projects with regard to key S T problems in the process of socio economic development to initiate personnel training and to promote China's high tech enterprises through its active engagement in these areas *IEEE International Symposium on Information Theory*, 2000 Quantum Codes for Topological Quantum Computation Clarice Dias de Albuquerque, Eduardo Brandani da Silva, Waldir Silva Soares Jr., 2022-08-04 This book offers a structured algebraic and geometric approach to the classification and construction of quantum codes for topological quantum computation It combines key concepts in linear algebra algebraic topology hyperbolic geometry group theory quantum mechanics and classical and quantum coding theory to help readers understand and develop quantum codes for topological quantum computation One possible approach to building a quantum computer is based on surface codes operated as stabilizer codes The surface codes evolved from Kitaev's toric codes as a means to developing models for topological order by using qubits distributed on the surface of a toroid A significant advantage of surface codes is their relative tolerance to local errors A second approach is based on color codes which are topological stabilizer codes defined on a tessellation with geometrically local stabilizer generators This book provides basic geometric concepts like surface geometry hyperbolic geometry and tessellation as well as basic algebraic concepts like stabilizer formalism for the construction of the most promising classes of quantum error correcting codes such as surfaces codes and color codes The book is intended for senior undergraduate and graduate students in Electrical Engineering and Mathematics with an understanding of the basic concepts of linear algebra and quantum mechanics **2002 IEEE International Symposium on Information Theory**, 2002 **Algorithms and Computation**, 1998 *Proceedings, ... IEEE*

International Symposium on Information Theory, 2000 *1998 IEEE International Symposium on Information Theory*, 1998 The special theme of ISIT 98 is the 50th anniversary of the founding of the field of information theory in Claude Shannon's 1948 paper A Mathematical Theory of Communication Topics in these papers on the conference include nomadic computing and CDMA in war and peace Quantum Information And Quantum Computing - Proceedings Of Symposium Mikio Nakahara, Yoshitaka Sasaki, 2012-09-17 The open research center project Interdisciplinary fundamental research toward realization of a quantum computer has been supported by the Ministry of Education Japan for five years This is a collection of the research outcomes by the members engaged in the project To make the presentation self contained it starts with an

overview by Mikio Nakahara which serves as a concise introduction to quantum information and quantum computing Subsequent contributions include subjects from physics chemistry mathematics and information science reflecting upon the wide variety of scientists working under this project These contributions introduce NMR quantum computing and related techniques number theory and coding theory quantum error correction photosynthesis non classical correlations and entanglement neutral atom quantum computer among others Each of contributions will serve as a short introduction to these cutting edge research fields

Quantum Computational Number Theory Song Y. Yan,2015-12-26 This book provides a comprehensive introduction to advanced topics in the computational and algorithmic aspects of number theory focusing on applications in cryptography Readers will learn to develop fast algorithms including quantum algorithms to solve various classic and modern number theoretic problems Key problems include prime number generation primality testing integer factorization discrete logarithms elliptic curve arithmetic conjecture and numerical verification The author discusses quantum algorithms for solving the Integer Factorization Problem IFP the Discrete Logarithm Problem DLP and the Elliptic Curve Discrete Logarithm Problem ECDLP and for attacking IFP DLP and ECDLP based cryptographic systems Chapters also cover various other quantum algorithms for Pell s equation principal ideal unit group class group Gauss sums prime counting function Riemann s hypothesis and the BSD conjecture *Quantum Computational Number Theory* is self contained and intended to be used either as a graduate text in computing communications and mathematics or as a basic reference in the related fields Number theorists cryptographers and professionals working in quantum computing cryptography and network security will find this book a valuable asset

2002 IEEE Seventh International Symposium on Spread Spectrum Techniques and Applications ,2002 *International Tracts in Computer Science and Technology and Their Application* ,1960

Computing Anticipatory Systems D. M. Dubois,2004-08-23 The scope of these proceedings is the study research and development in the new frontier of science dealing with the paradigm of computing anticipatory systems A computing anticipatory system is a system which computes its current states in taking into account its anticipatory states Strong anticipation refers to an anticipation of events built by or embedded in a system Weak anticipation refers to an anticipation of events predicted or forecast from a model of a system These proceedings include all the papers by invited speakers who received awards at CASYS 03 as well as a selection of invited papers Topics include relativity quantum mechanics and biophysical systems anticipatory systems adaptation and hyperincursion mathematical models chaos and soft computing logic algorithms and computing systems living systems evolution and cognitive models decision support enterprise and management models and control systems simulation and chaos

Coding Theory Quantum Computing An Int Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Coding Theory Quantum Computing An Int**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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