

San Ling and Chaoping Xing

Coding Theory

A First Course



CAMBRIDGE

Solution Coding Theory San Ling

San Ling, Chaoping Xing



Solution Coding Theory San Ling:

Coding Theory San Ling, Chaoping Xing, 2004-02-12 Coding theory is concerned with successfully transmitting data through a noisy channel and correcting errors in corrupted messages. It is of central importance for many applications in computer science or engineering. This book gives a comprehensive introduction to coding theory whilst only assuming basic linear algebra. It contains a detailed and rigorous introduction to the theory of block codes and moves on to more advanced topics like BCH codes, Goppa codes and Sudan's algorithm for list decoding. The issues of bounds and decoding essential to the design of good codes features prominently. The authors of this book have for several years successfully taught a course on coding theory to students at the National University of Singapore. This book is based on their experiences and provides a thoroughly modern introduction to the subject. There are numerous examples and exercises, some of which introduce students to novel or more advanced material.

Algebraic and Stochastic Coding Theory Dave K. Kythe, Prem K. Kythe, 2017-07-28 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.

Cryptography and Computational Number Theory Kwok Y. Lam, Igor Shparlinski, Huaxiong Wang, Chaoping Xing, 2013-03-07 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 National University of Singapore. We gratefully acknowledge the financial support from the Singapore National Science and Technology Board under the grant number 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 theory. 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

Gazette - Australian Mathematical Society Australian Mathematical Society,2005 *Mathematical Reviews* ,2004 **Applied Mechanics Reviews** ,1953 *Coding Theory* San Ling,Chaoping Xing,2004 **Government Reports Announcements** ,1973-08-10 Choice ,2005 **British Books** ,1920 **The Chicago Legal News** ,1885 **Engineering Journal** ,1924 The Journal of the Engineering Institute of Canada Engineering Institute of Canada,1924 *Government Reports Announcements & Index* ,1988 **New International Dictionary** ,1920 *The Publishers' Circular and Booksellers' Record* ,1920 **The Pacific Reporter** ,1907 Western Banker ,1928 Musical West, Music and the Dance ,1926 **Engineering Electromagnetic Compatibility** V. Prasad Kodali,2001-01-19 Electrical Engineering Engineering Electromagnetic Compatibility Principles Measurements Technologies and Computer Models Second Edition This practical enhanced second edition will teach you to avoid costly post design electromagnetic compatibility EMC fixes Once again V Prasad Kodali provides a comprehensive introduction to EMC and presents current technical information on sources of electromagnetic interference EMI EMC EMI measurements technologies to control EMI computer simulation and design and international EMC standards Features added to this second edition include Two new chapters covering EMC computer modeling and simulation and signal integrity Expanded assignments at the close of each chapter Illustrative examples that enhance comprehension Updated information in Selected Bibliography and EMC Standards chapters A new appendix that lists websites relevant to EMC EMI Engineering Electromagnetic Compatibility Second Edition is presented in a concise user friendly format that combines a rigorous solutions based mathematical treatment of the underlying theories of EMC with the most recent practical applications It is ideally suited as a desk reference for practicing engineers and as a textbook for students who need to understand the form and function of EMC and its relevance to a variety of systems

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