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APPLIED ALGEBRA CODES, CIPHERS, AND DISCRETE ALGORITHMS SECOND EDITION

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Applied Algebra Codes Ciphers And Discrete Algorithms

Darel W. Hardy, Fred Richman, Carol L. Walker

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Sciences at Florida Atlantic University His research interests include Abelian group theory and constructive mathematics Carol L Walker is Associate Dean Emeritus in the Department of Mathematical Sciences at New Mexico State University Her research interests include Abelian group theory applications of homological algebra and category theory and the mathematics of fuzzy sets and fuzzy logic Applied Algebra Darel W. Hardy, Fred Richman, Carol L. Walker, 2011-08-10 Using mathematical tools from number theory and finite fields Applied Algebra Codes Ciphers and Discrete Algorithms Second Edition presents practical methods for solving problems in data security and data integrity It is designed for an applied algebra course for students who have had prior classes in abstract or linear algebra While the content has been reworked and improved this edition continues to cover many algorithms that arise in cryptography and error control codes New to the Second Edition A CD ROM containing an interactive version of the book that is powered by Scientific Notebook a mathematical word processor and easy to use computer algebra system New appendix that reviews prerequisite topics in algebra and number theory Double the number of exercises Instead of a general study on finite groups the book considers finite groups of permutations and develops just enough of the theory of finite fields to facilitate construction of the fields used for error control codes and the Advanced Encryption Standard It also deals with integers and polynomials Explaining the mathematics as needed this text thoroughly explores how mathematical techniques can be used to solve practical problems About the Authors Darel W Hardy is Professor Emeritus in the Department of Mathematics at Colorado State University His research interests include applied algebra and semigroups Fred Richman is a professor in the Department of Mathematical Sciences at Florida Atlantic University His research interests include Abelian group theory and constructive mathematics Carol L Walker is Associate Dean Emeritus in the Department of Mathematical Sciences at New Mexico State University Her research interests include Abelian group theory applications of homological algebra and category theory and the mathematics of fuzzy sets and fuzzy logic Handbook of Linear Algebra, Second Edition Leslie Hogben, 2013-11-26 With a substantial amount of new material the Handbook of Linear Algebra Second Edition provides comprehensive coverage of linear algebra concepts applications and computational software packages in an easy to use format It guides you from the very elementary aspects of the subject to the frontiers of current research Along with revisions and updates throughout the second edition of this bestseller includes 20 new chapters New to the Second Edition Separate chapters on Schur complements additional types of canonical forms tensors matrix polynomials matrix equations special types of matrices generalized inverses matrices over finite fields invariant subspaces representations of quivers and spectral sets New chapters on combinatorial matrix theory topics such as tournaments the minimum rank problem and spectral graph theory as well as numerical linear algebra topics including algorithms for structured matrix computations stability of structured matrix computations and nonlinear eigenvalue problems More chapters on applications of linear algebra including epidemiology and quantum error correction New chapter on using the free and open source software system Sage for linear algebra Additional

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chemistry and related disciplines **Introduction to Combinatorics** Walter D. Wallis, John C. George, 2016-12-12 What Is Combinatorics Anyway Broadly speaking combinatorics is the branch of mathematics dealing with different ways of selecting objects from a set or arranging objects It tries to answer two major kinds of questions namely counting questions how many ways can a selection or arrangement be chosen with a particular set of properties and structural questions does there exist a selection or arrangement of objects with a particular set of properties The authors have presented a text for students at all levels of preparation For some this will be the first course where the students see several real proofs Others will have a good background in linear algebra will have completed the calculus stream and will have started abstract algebra. The text starts by briefly discussing several examples of typical combinatorial problems to give the reader a better idea of what the subject covers The next chapters explore enumerative ideas and also probability It then moves on to enumerative functions and the relations between them and generating functions and recurrences Important families of functions or numbers and then theorems are presented Brief introductions to computer algebra and group theory come next Structures of particular interest in combinatorics posets graphs codes Latin squares and experimental designs follow The authors conclude with further discussion of the interaction between linear algebra and combinatorics Features Two new chapters on probability and posets Numerous new illustrations exercises and problems More examples on current technology use A thorough focus on accuracy Three appendices sets induction and proof techniques vectors and matrices and biographies with historical notes Flexible use of MapleTM and MathematicaTM A Multidisciplinary Introduction to Information Security Stig F. Mjolsnes, 2011-11-09 With most services and products now being offered through digital communications new challenges have emerged for information security specialists A Multidisciplinary Introduction to Information Security presents a range of topics on the security privacy and safety of information and communication technology It brings together methods in pure m

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