

Discrete Mathematics Using Latin Squares

Charles F. Laywine
Gary L. Mullen

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Discrete Mathematics Using Latin Squares Charles F. Laywine, Gary L. Mullen, 1998-09-17 Over the past two decades research in the theory of Latin Squares has been growing at a fast pace and new significant developments have taken place This book offers a unique approach to various areas of discrete mathematics through the use of Latin Squares

Latin Squares József Dénes, A. Donald Keedwell, 1991-01-24 In 1974 the editors of the present volume published a well received book entitled Latin Squares and their Applications It included a list of 73 unsolved problems of which about 20 have been completely solved in the intervening period and about 10 more have been partially solved The present work comprises six contributed chapters and also six further chapters written by the editors themselves As well as discussing the advances which have been made in the subject matter of most of the chapters of the earlier book this new book contains one chapter which deals with a subject r orthogonal latin squares which did not exist when the earlier book was written The success of the former book is shown by the two or three hundred published papers which deal with questions raised by it

Latin Squares and Their Applications A. Donald Keedwell, József Dénes, 2015-07-28 Latin Squares and Their Applications Second edition offers a long awaited update and reissue of this seminal account of the subject The revision retains foundational original material from the frequently cited 1974 volume but is completely updated throughout As with the earlier version the author hopes to take the reader from the beginnings of the subject to the frontiers of research By omitting a few topics which are no longer of current interest the book expands upon active and emerging areas Also the present state of knowledge regarding the 73 then unsolved problems given at the end of the first edition is discussed and commented upon In addition a number of new unsolved problems are proposed Using an engaging narrative style this book provides thorough coverage of most parts of the subject one of the oldest of all discrete mathematical structures and still one of the most relevant However in consequence of the huge expansion of the subject in the past 40 years some topics have had to be omitted in order to keep the book of a reasonable length Latin squares or sets of mutually orthogonal latin squares MOLS encode the incidence structure of finite geometries they prescribe the order in which to apply the different treatments in designing an experiment in order to permit effective statistical analysis of the results they produce optimal density error correcting codes they encapsulate the structure of finite groups and of more general algebraic objects known as quasigroups As regards more recreational aspects of the subject latin squares provide the most effective and efficient designs for many kinds of games tournaments and they are the templates for Sudoku puzzles Also they provide a number of ways of constructing magic squares both simple magic squares and also ones with additional properties Retains the organization and updated foundational material from the original edition Explores current and emerging research topics Includes the original 73 Unsolved Problems with the current state of knowledge regarding them as well as new Unsolved Problems for further study

Orthogonal Latin Squares Based on Groups Anthony B. Evans, 2018-08-17 This monograph presents a unified

exposition of latin squares and mutually orthogonal sets of latin squares based on groups Its focus is on orthomorphisms and complete mappings of finite groups while also offering a complete proof of the Hall Paige conjecture The use of latin squares in constructions of nets affine planes projective planes and transversal designs also motivates this inquiry The text begins by introducing fundamental concepts like the tests for determining whether a latin square is based on a group as well as orthomorphisms and complete mappings From there it describes the existence problem for complete mappings of groups building up to the proof of the Hall Paige conjecture The third part presents a comprehensive study of orthomorphism graphs of groups while the last part provides a discussion of Cartesian projective planes related combinatorial structures and a list of open problems Expanding the author s 1992 monograph Orthomorphism Graphs of Groups this book is an essential reference tool for mathematics researchers or graduate students tackling latin square problems in combinatorics Its presentation draws on a basic understanding of finite group theory finite field theory linear algebra and elementary number theory more advanced theories are introduced in the text as needed

Algorithmic Algebraic Combinatorics and Gröbner Bases Mikhail Klin,Gareth A. Jones,Aleksandar Jurisic,Mikhail Muzychuk,Ilia Ponomarenko,2009-12-24 This collection of tutorial and research papers introduces readers to diverse areas of modern pure and applied algebraic combinatorics and finite geometries There is special emphasis on algorithmic aspects and the use of the theory of Gröbner bases

The Zen of Magic Squares, Circles, and Stars Clifford A. Pickover,2011-11-28 Humanity s love affair with mathematics and mysticism reached a critical juncture legend has it on the back of a turtle in ancient China As Clifford Pickover briefly recounts in this enthralling book the most comprehensive in decades on magic squares Emperor Yu was supposedly strolling along the Yellow River one day around 2200 B C when he spotted the creature its shell had a series of dots within squares To Yu s amazement each row of squares contained fifteen dots as did the columns and diagonals When he added any two cells opposite along a line through the center square like 2 and 8 he always arrived at 10 The turtle unwitting inspirer of the Yu square went on to a life of courtly comfort and fame Pickover explains why Chinese emperors Babylonian astrologer priests prehistoric cave people in France and ancient Mayans of the Yucatan were convinced that magic squares arrays filled with numbers or letters in certain arrangements held the secret of the universe Since the dawn of civilization he writes humans have invoked such patterns to ward off evil and bring good fortune Yet who would have guessed that in the twenty first century mathematicians would be studying magic squares so immense and in so many dimensions that the objects defy ordinary human contemplation and visualization Readers are treated to a colorful history of magic squares and similar structures their construction and classification along with a remarkable variety of newly discovered objects ranging from ornate inlaid magic cubes to hypercubes Illustrated examples occur throughout with some patterns from the author s own experiments The tesseracts circles spheres and stars that he presents perfectly convey the age old devotion of the math minded to this Zenlike quest Number lovers puzzle aficionados and math enthusiasts will treasure this rich and lively encyclopedia of one of the few areas

of mathematics where the contributions of even nonspecialists count **Connected at infinity II: a selection of mathematics by Indians** Rajendra Bhatia,C.S. Rajan,Ajit Iqbal Singh,2013-01-01 *Principles and Practice of Constraint Programming - CP 2002* Pascal Van Hentenryck,2002-08-26 This book constitutes the refereed proceedings of the 8th International Conference on Principles and Practice of Constraint Programming CP 2002 held in Ithaca NY USA in September 2002 The 38 revised full papers and 6 innovative application papers as well as the 14 short papers presented together with 25 abstracts from contributions to the doctoral program were carefully reviewed and selected from 146 submissions All current issues in constraint processing are addressed ranging from theoretical and foundational issues to application in various fields The Zen Of Magic Squares,Circles And Stars M K Joseph, *Linear Algebra Research Advances* Gerald D. Ling,2007 Linear algebra is the branch of mathematics concerned with the study of vectors vector spaces also called linear spaces linear maps also called linear transformations and systems of linear equations Vector spaces are a central theme in modern mathematics thus linear algebra is widely used in both abstract algebra and functional analysis Linear algebra also has a concrete representation in analytic geometry and it is generalised in operator theory It has extensive applications in the natural sciences and the social sciences since non linear models can often be approximated by linear ones *Principles and Practice of Constraint Programming* ,2004 **The Journal of Combinatorial Mathematics and Combinatorial Computing** ,2002 **JCMCC** ,2006 Mathematical Reviews ,2006 Ars Combinatoria ,2008

A First Course in Discrete Mathematics Ian Anderson,2012-12-06 Discrete mathematics has now established its place in most undergraduate mathematics courses This textbook provides a concise readable and accessible introduction to a number of topics in this area such as enumeration graph theory Latin squares and designs It is aimed at second year undergraduate mathematics students and provides them with many of the basic techniques ideas and results It contains many worked examples and each chapter ends with a large number of exercises with hints or solutions provided for most of them As well as including standard topics such as binomial coefficients recurrence the inclusion exclusion principle trees Hamiltonian and Eulerian graphs Latin squares and finite projective planes the text also includes material on the m nage problem magic squares Catalan and Stirling numbers and tournament schedules **Bulletin of the Institute of Combinatorics and Its Applications** ,2008 **New Mathematical Diversions** Martin Gardner,1995 More puzzles problems games and other mathematical diversions Congressus Numerantium ,1997 **Logic-Based Methods for Optimization** John Hooker,2000-05-30 Logic Based Methods for Optimization develops for the first time a comprehensive conceptual framework for integrating optimization and constraint satisfaction then goes a step further and shows how extending logical inference to optimization allows for more powerful as well as flexible modeling and solution techniques Designed to be easily accessible to industry professionals and academics in both operations research and artificial intelligence the book provides a wealth of examples as well as elegant techniques and modeling frameworks ready for

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