

# Discrete Mathematics Using Latin Squares

Charles F. Laywine  
Gary L. Mullen

Wiley-Interscience Series in Discrete Mathematics and Optimization

# Discrete Mathematics Using Latin Squares

**M Woodhall**



## **Discrete Mathematics Using Latin Squares:**

**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

Connected at infinity II: a selection of mathematics by Indians Rajendra Bhatia,C.S. Rajan,Ajit Iqbal Singh,2013-01-01

*The Zen Of Magic Squares,Circles And Stars* M K Joseph,

Discrete Mathematics with Proof Eric Gossett,2009-06-22 A Trusted Guide to Discrete Mathematics with Proof Now in a Newly Revised Edition Discrete mathematics has become increasingly popular in recent years due to its growing applications in the field of computer science Discrete Mathematics with Proof Second Edition continues to facilitate an up to date understanding of this important topic exposing readers to a wide range of modern and technological applications The book begins with an introductory chapter that provides an accessible explanation of discrete mathematics Subsequent chapters explore additional related topics including counting finite probability theory recursion formal models in computer science graph theory trees the concepts of functions and relations Additional features of the Second Edition include An intense focus on the formal settings of proofs and their techniques such as constructive proofs proof by contradiction and combinatorial proofs New sections on applications of elementary number theory multidimensional induction counting tulips and the binomial distribution Important examples from the field of computer science presented as applications including the Halting problem Shannon s mathematical model of information regular expressions XML and Normal Forms in relational databases Numerous examples that are not often found in books on discrete mathematics including the deferred acceptance algorithm the Boyer Moore algorithm for pattern matching Sierpinski curves adaptive quadrature the Josephus problem and the five color theorem Extensive appendices that outline supplemental material on analyzing claims and writing mathematics along with solutions to selected chapter exercises Combinatorics

receives a full chapter treatment that extends beyond the combinations and permutations material by delving into non standard topics such as Latin squares finite projective planes balanced incomplete block designs coding theory partitions occupancy problems Stirling numbers Ramsey numbers and systems of distinct representatives A related Web site features animations and visualizations of combinatorial proofs that assist readers with comprehension In addition approximately 500 examples and over 2 800 exercises are presented throughout the book to motivate ideas and illustrate the proofs and conclusions of theorems Assuming only a basic background in calculus Discrete Mathematics with Proof Second Edition is an excellent book for mathematics and computer science courses at the undergraduate level It is also a valuable resource for professionals in various technical fields who would like an introduction to discrete mathematics **Planning,**

**Construction, and Statistical Analysis of Comparative Experiments** Francis G. Giesbrecht, Marcia L.

Gumpertz, 2011-09-26 A valuable guide to conducting experiments and analyzing data across a wide range of applications Experimental design is an important component of the scientific method This book provides guidance on planning efficient investigations It compiles designs for a wide range of experimental situations not previously found in accessible form Focusing on applications in the physical engineering biological and social sciences Planning Construction and Statistical Analysis of Comparative Experiments is a valuable guide to designing experiments and correctly analyzing and interpreting the results The authors draw on their years of experience in the classroom and as statistical consultants to research programs on campus in government and in industry The object is always to strike the right balance between mathematical necessities and practical constraints Serving both as a textbook for students of intermediate statistics and a hands on reference for active researchers the text includes A wide range of applications including agricultural sciences animal and biomedical sciences and industrial engineering studies General formulas for estimation and hypothesis testing presented in a unified and simplified manner Guidelines for evaluating the power and efficiency of designs that are not perfectly balanced New developments in the design of fractional factorials with non prime numbers of levels in mixed level fractional factorials Detailed coverage on the construction of plans and the relationship among categories of designs Thorough coverage of balanced lattice cyclic and alpha designs Strategies for sequences of fractional factorials Data sets and SAS code on a companion web site An ideal handbook for the investigator planning a research program the text comes complete with detailed plans of experiments and alternative approaches for added flexibility 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

**Search Methodologies** Edmund K. Burke, Graham

Kendall, 2006-03-20 This book is a tutorial survey of the methodologies that are at the confluence of several fields Computer Science Mathematics and Operations Research It provides a carefully structured and integrated treatment of the major technologies in optimization and search methodology The chapter authors are drawn from across Computer Science and Operations Research and include some of the world s leading authorities in their field It can be used as a textbook or a reference book to learn and apply these methodologies to a wide range of today s problems

**Elements of Quasigroup Theory and Applications** Victor Shcherbacov, 2017-05-12 This book provides an introduction to quasigroup theory along

with new structural results on some of the quasigroup classes Many results are presented with some of them from mathematicians of the former USSR These included results have not been published before in the western mathematical literature In addition many of the achievements obtained with regard to applications of quasigroups in coding theory and cryptology are described

**Cryptocoding Based on Quasigroups** Daniela Mechkaroska, Aleksandra

Popovska-Mitrovikj, Verica Bakeva, 2024-01-12 This book presents the concept of cryptocoding which arises from the need to obtain secure and accurate transmission Therefore it is necessary to improve constantly existing and develop new algorithms that will ensure accurate and secure data transfer This leads to the intensive development of coding theory and cryptography as scientific fields which solve these problems To ensure efficient and secure data transmission at the same time the concept of cryptocoding is developed such that the coding and encryption processes are merged into one process Cryptocodes provide correction of a certain number of errors in the transmitted message and data confidentiality using only one algorithm The main research in this field is to define new algorithms for coding that detects and corrects errors random codes stream ciphers block ciphers pseudo random generators hash functions etc This monograph examines an application of quasigroups

for designing error correcting cryptcodes called Random Codes Based on Quasigroups RCBQ These codes are a combination of cryptographic algorithms and error correcting codes and depend on several parameters Some modifications new coding decoding algorithms of RCBQ for improving their performances for transmission ordinary messages images and audio files through a binary symmetric channel Gaussian channel and burst channels are considered Also authors propose and analyze filter for visually enhance of the decoded images and improving the quality of decoded audio files

**Combinatorics and Finite Geometry** Steven T. Dougherty, 2020-10-30 This undergraduate textbook is suitable for introductory classes in combinatorics and related topics The book covers a wide range of both pure and applied combinatorics beginning with the very basics of enumeration and then going on to Latin squares graphs and designs The latter topic is closely related to finite geometry which is developed in parallel Applications to probability theory algebra coding theory cryptology and combinatorial game theory comprise the later chapters Throughout the book examples and exercises illustrate the material and the interrelations between the various topics is emphasized Readers looking to take first steps toward the study of combinatorics finite geometry design theory coding theory or cryptology will find this book valuable Essentially self contained there are very few prerequisites aside from some mathematical maturity and the little algebra required is covered in the text The book is also a valuable resource for anyone interested in discrete mathematics as it ties together a wide variety of topics

**Finite Geometries and Combinatorial Designs** Earl Sidney Kramer, 1990 The proceedings of an AMS special session on finite geometries and combinatorial designs Topics range over finite geometry combinatorial designs their automorphism groups and related structures

Maxima and Minima with Applications Wilfred Kaplan, 2011-10-14 This new work by Wilfred Kaplan the distinguished author of influential mathematics and engineering texts is destined to become a classic Timely concise and content driven it provides an intermediate level treatment of maxima minima and optimization Assuming only a background in calculus and some linear algebra Professor Kaplan presents topics in order of difficulty In four short chapters he describes basic concepts and geometric aspects of maxima and minima progresses to problems with side conditions introduces optimization and programming and concludes with an in depth discussion of research topics involving the duality theorems of Fenchel and Rockafellar Throughout the text the subject of convexity is gradually developed from its theoretical underpinnings to problems and finally to its role in applications Other features include A strong emphasis on practical applications of maxima and minima An impressive array of supporting topics such as numerical analysis An ample number of examples and problems More than 60 illustrations highlighting the text Algorithms to reinforce concepts An appendix reviewing the prerequisite linear algebra Maxima and Minima with Applications is an ideal text for upper undergraduate and graduate students taking courses in operations research management general engineering and applied mathematics It can also be used to supplement courses on linear and nonlinear optimization This volume's broad scope makes it an excellent reference for professionals wishing to learn more about cutting edge topics in optimization and

mathematical programming      **Combinatorics Advances** Charles J. Colbourn, Ebdollah Sayed Mahmoodian, 2013-12-01 On March 28-31 1994 Farvardin 8 11 1373 by Iranian calendar the Twenty fifth Annual Iranian Mathematics Conference AIMC25 was held at Sharif University of Technology in Tehran Islamic Republic of Iran Its sponsors included the Iranian Mathematical Society and the Department of Mathematical Sciences at Sharif University of Technology Among the keynote speakers were Professor Dr Andreas Dress and Professor Richard K Guy Their plenary lectures on combinatorial themes were complemented by invited and contributed lectures in a Combinatorics Session This book is a collection of refereed papers submitted primarily by the participants after the conference The topics covered are diverse spanning a wide range of combinatorics and allied areas in discrete mathematics Perhaps the strength and variety of the papers here serve as the best indications that combinatorics is advancing quickly and that the Iranian mathematics community contains very active contributors We hope that you find the papers mathematically stimulating and look forward to a long and productive growth of combinatorial mathematics in Iran      Canadian Journal of Mathematics ,1991      **CRC Handbook of Combinatorial Designs** Charles J. Colbourn, 2010-12-12 From experimental design to cryptography this comprehensive easy to access reference contains literally all the facts you need on combinatorial designs It includes constructions of designs existence results and properties of designs Organized into six main parts the CRC Handbook of Combinatorial Designs covers

**Contemporary Design Theory** Jeffrey H. Dinitz, Douglas R. Stinson, 1992-08-04 Foremost experts in their field have contributed articles resulting in a compilation of useful and timely surveys in this ever expanding field Each of these 12 original papers covers important aspects of design theory including several in areas that have not previously been surveyed Also contains surveys updating earlier ones where research is particularly active



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