Low Rank
Representations
and Graphs for
Sporadic Groups

CHERYL E. PRAEGER & LEONARD H. SOICHER

Low Rank Representations And Graphs For Sporadic Groups

William M. Kantor,Ákos Seress

Low Rank Representations And Graphs For Sporadic Groups:

Low Rank Representations and Graphs for Sporadic Groups Cheryl E. Praeger,Leonard H. Soicher,1996-12-05 This book presents a complete classification of the transitive permutation representations of rank at most five of the sporadic simple groups and their automorphism groups together with a comprehensive study of the vertex transitive graphs associated with these representations Included is a list of all vertex transitive distance regular graphs on which a sporadic almost simple group acts with rank at most five In this list are some new interesting distance regular graphs of diameter two which are not distance transitive For most of the representations a presentation of the sporadic group is given with words in the given generators which generate a point stabiliser this gives readers sufficient information to reconstruct and study the representations and graphs Practical computational techniques appropriate for analysing finite vertex transitive graphs are described carefully making the book an excellent starting point for learning about groups and the graphs on which they act

Geometry of Sporadic Groups: Volume 1, Petersen and Tilde Geometries A. A. Ivanov,Aleksandr Anatolievich Ivanov,1999-06-17 Important monograph on finite group theory   **Topics in Algebraic Graph Theory** Lowell W. Beineke,Robin J. Wilson,2004-10-04 There is no other book with such a wide scope of both areas of algebraic graph theory

Ever-Evolving Groups Alexander A. Ivanov,2025-07-02 This book presents an original approach to the theory of finite groups placing finite sporadic groups on an equal footing It provides a nearly comprehensive overview of developments in the study of sporadic groups since the classification of finite simple groups was completed Authored by one of the key contributors to these developments a major theme of the book is the growing role that geometry has played in this story in the form of diagram geometries amalgams graph theory and pushing up The chapters interweave various ideas and techniques applicable to all sporadic groups Many of the results presented several due to the author and collaborators appear in book form for the first time While much of the book describes developments from recent decades it also includes significant new material notably on the enigmatic Thompson group and the Monster The final chapter explores connections to Majorana algebras and discusses some remarkable conjectures A valuable addition to the literature on finite simple groups this book will appeal to a wide audience from advanced graduate students to researchers in group theory combinatorics finite geometry coding theory graph theory and other mathematical fields that use group theory to study symmetries and structures   **Groups and Computation III** William M. Kantor,Ákos Seress,2014-01-02 This volume contains contributions by the participants of the conference Groups and Computation which took place at The Ohio State University in Columbus Ohio in June 1999 This conference was the successor of two workshops on Groups and Computation held at DIMACS in 1991 and 1995 There are papers on permutation group algorithms finitely presented groups polycyclic groups and parallel computation providing a representative sample of the breadth of Computational Group Theory On the other hand more than one third of the papers deal with computations in matrix groups giving an in depth treatment of the currently most active

area of the field The points of view of the papers range from explicit computations to group theoretic algorithms to group theoretic theorems needed for algorithm development   **Representations of Lie Algebras** Anthony Henderson,2012-08-16 This bold and refreshing approach to Lie algebras assumes only modest prerequisites linear algebra up to the Jordan canonical form and a basic familiarity with groups and rings yet it reaches a major result in representation theory the highest weight classification of irreducible modules of the general linear Lie algebra The author s exposition is focused on this goal rather than aiming at the widest generality and emphasis is placed on explicit calculations with bases and matrices The book begins with a motivating chapter explaining the context and relevance of Lie algebras and their representations and concludes with a guide to further reading Numerous examples and exercises with full solutions are included Based on the author s own introductory course on Lie algebras this book has been thoroughly road tested by advanced undergraduate and beginning graduate students and it is also suited to individual readers wanting an introduction to this important area of mathematics   *Classical Groups, Derangements and Primes* Timothy C. Burness,Michael Giudici,2016-01-15 A graduate level introduction to finite classical groups featuring a comprehensive account of the conjugacy and geometry of elements of prime order   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   Moonshine, the Monster, and Related Topics Chongying Dong,Geoffrey Mason,1996 This is the proceedings of a Joint Summer Research Conference held at Mount Holyoke College in Jun 1994 As perhaps the first conference proceedings devoted exclusively to the subject known as Moonshine this work contains something for many mathematicians and physicists Many of the results featured are not available elsewhere   **Profiles** R. S. Bhathal,1999 Here are sixteen tales of scientific discovery In their own words Australian women scientists tell the stories of their lives their work and the secrets of their success Until now their world famous achievements have not been widely known in their own

country In this remarkable book all talk candidly about their careers describing not just the obstacles that many encountered personal social and institutionalised discrimination but also their inspirations and influences *Orthogonal Polynomials and Painlevé Equations* Walter Van Assche,2018 There are a number of intriguing connections between Painlev equations and orthogonal polynomials and this book is one of the first to provide an introduction to these Researchers in integrable systems and non linear equations will find the many explicit examples where Painlev equations appear in mathematical analysis very useful Those interested in the asymptotic behavior of orthogonal polynomials will also find the description of Painlev transcendants and their use for local analysis near certain critical points helpful to their work Rational solutions and special function solutions of Painlev equations are worked out in detail with a survey of recent results and an outline of their close relationship with orthogonal polynomials Exercises throughout the book help the reader to get to grips with the material The author is a leading authority on orthogonal polynomials giving this work a unique perspective on Painlev equations **Notes on Counting: An Introduction to Enumerative Combinatorics** Peter J. Cameron,2017-06-21 Enumerative combinatorics in its algebraic and analytic forms is vital to many areas of mathematics from model theory to statistical mechanics This book which stems from many years experience of teaching invites students into the subject and prepares them for more advanced texts It is suitable as a class text or for individual study The author provides proofs for many of the theorems to show the range of techniques available and uses examples to link enumerative combinatorics to other areas of study The main section of the book introduces the key tools of the subject generating functions and recurrence relations which are then used to study the most important combinatorial objects namely subsets partitions and permutations of a set Later chapters deal with more specialised topics including permanents SDRs group actions and the Redfield P lya theory of cycle indices M bius inversion the Tutte polynomial and species Some Tapas of Computer Algebra Arjeh M. Cohen,Hans Cuypers,Hans Sterk,2013-03-09 In the years 1994 1995 two EIDMA mini courses on Computer Algebra were given at the Eindhoven University of Technology by apart from ourselves various invited lecturers EIDMA is the Research School Euler Institute for Discrete Mathematics and its Applications The idea of the courses was to acquaint young mathematicians with algorithms and software for mathemat ical research and to enable them to incorporate algorithms in their research A collection of lecture notes was used at these courses When discussing these courses in comparison with other kinds of courses one might give in a week s time Joachim Neub ser referred to our courses as tapas This denomination underlined that the courses consisted of appe tizers for various parts of algorithmic algebra indeed we covered such spicy topics as the link between Gr bner bases and integer programming and the detection of algebraic solutions to differential equations As a collection the not es turned out to have some appeal of their own which is the main reason why the idea came up of transforming them into book form We feIt however that the book should be distinguishable from a standard text book on computer algebra in that it retains its appetizing flavour by presenting a variety of topics at an accessible level with a view to recent developments

<u>Neverending Fractions</u> Jonathan Borwein,Alf van der Poorten,Jeffrey Shallit,Wadim Zudilin,2014-07-03 This introductory text covers a variety of applications to interest every reader from researchers to amateur mathematicians **Wavelets** Peter Nickolas,2017-01-11 This text offers an excellent introduction to the mathematical theory of wavelets for senior undergraduate students Despite the fact that this theory is intrinsically advanced the author s elementary approach makes it accessible at the undergraduate level Beginning with thorough accounts of inner product spaces and Hilbert spaces the book then shifts its focus to wavelets specifically starting with the Haar wavelet broadening to wavelets in general and culminating in the construction of the Daubechies wavelets All of this is done using only elementary methods bypassing the use of the Fourier integral transform Arguments using the Fourier transform are introduced in the final chapter and this less elementary approach is used to outline a second and quite different construction of the Daubechies wavelets The main text of the book is supplemented by more than 200 exercises ranging in difficulty and complexity **Unitary Reflection Groups** Gustav I. Lehrer,Donald E. Taylor,2009-08-13 A complex reflection is a linear transformation which fixes each point in a hyperplane Intuitively it resembles the transformation an image undergoes when it is viewed through a kaleidoscope or arrangement of mirrors This book gives a complete classification of all groups of transformations of n dimensional complex space which are generated by complex reflections using the method of line systems In particular irreducible groups are studied in detail and are identified with finite linear groups reflection subgroups of reflection groups are completely classified the theory of eigenspaces of elements of reflection groups is discussed fully an appendix outlines links to representation theory topology and mathematical physics Containing over 100 exercises ranging in difficulty from elementary to research level this book is ideal for honours and graduate students or for researchers in algebra topology and mathematical physics **Algebraic Groups and Lie Groups** Gus Lehrer,Alan L. Carey,1997-01-23 This volume contains original research articles by many of the world s leading researchers in algebraic and Lie groups Its inclination is algebraic and geometic although analytical aspects are included The central theme reflects the interests of R W Richardson viz connections between representation theory and the structure and geometry of algebraic groups All workers on algebraic and Lie groups will find that this book contains a wealth of interesting material **Quantum Groups** Ross Street,2007-01-18 Algebra has moved well beyond the topics discussed in standard undergraduate texts on modern algebra Those books typically dealt with algebraic structures such as groups rings and fields still very important concepts However Quantum Groups A Path to Current Algebra is written for the reader at ease with at least one such structure and keen to learn algebraic concepts and techniques A key to understanding these new developments is categorical duality A quantum group is a vector space with structure Part of the structure is standard a multiplication making it an algebra Another part is not in those standard books at all a comultiplication which is dual to multiplication in the precise sense of category theory making it a coalgebra While coalgebras bialgebras and Hopf algebras have been around for half a century the term quantum group

along with revolutionary new examples was launched by Drinfel d in 1986   *Computer Algebra Handbook* Johannes Grabmeier,Erich Kaltofen,Volker Weispfenning,2012-12-06 Two ideas lie gleaming on the jeweler s velvet The first is the calculus the sec ond the algorithm The calculus and the rich body of mathematical analysis to which it gave rise made modern science possible but it has been the algorithm that has made possible the modern world David Berlinski The Advent of the Algorithm First there was the concept of integers then there were symbols for integers I II III 1111 fttt what might be called a sticks and stones representation I II III IV V Roman numerals 1 2 3 4 5 Arabic numerals etc Then there were other concepts with symbols for them and algorithms sometimes for ma nipulating the new symbols Then came collections of mathematical knowledge tables of mathematical computations theorems of general results Soon after algorithms came devices that provided assistancefor carryingout computations Then mathematical knowledge was organized and structured into several related concepts and symbols logic algebra analysis topology algebraic geometry number theory combinatorics etc This organization and abstraction lead to new algorithms and new fields like universal algebra But always our symbol systems reflected and influenced our thinking our concepts and our algorithms   **Computational Group Theory and the Theory of Groups** Luise-Charlotte Kappe,Arturo Magidin,Robert Fitzgerald Morse,2008 The power of general purpose computational algebra systems running on personal computers has increased rapidly in recent years For mathematicians doing research in group theory this means a growing set of sophisticated computational tools are now available for their use in developing new theoretical results This volume consists of contributions by researchers invited to the AMS Special Session on Computational Group Theory held in March 2007 The main focus of the session was on the application of Computational Group Theory CGT to a wide range of theoretical aspects of group theory The articles in this volume provide a variety of examples of how these computer systems helped to solve interesting theoretical problems within the discipline such as constructions of finite simple groups classification of p groups via coclass representation theory and constructions involving free nilpotent groups The volume also includes an article by R F Morse highlighting applications of CGT in group theory and two survey articles Graduate students and researchers interested in various aspects of group theory will find many examples of Computational Group Theory helping research and will recognize it as yet another tool at their disposal BOOK JACKET

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