

ALGEBRAIC GRAPH THEORY

Second Edition

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London School of Economics



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Algebraic Graph Theory Norman Biggs

Henrik Jeldtoft Jensen



Algebraic Graph Theory Norman Biggs:

Algebraic Graph Theory Norman Biggs, 1993 This is a substantial revision of a much quoted monograph first published in 1974 The structure is unchanged but the text has been clarified and the notation brought into line with current practice A large number of Additional Results are included at the end of each chapter thereby covering most of the major advances in the last twenty years Professor Biggs basic aim remains to express properties of graphs in algebraic terms then to deduce theorems about them In the first part he tackles the applications of linear algebra and matrix theory to the study of graphs algebraic constructions such as adjacency matrix and the incidence matrix and their applications are discussed in depth There follows an extensive account of the theory of chromatic polynomials a subject which has strong links with the interaction models studied in theoretical physics and the theory of knots The last part deals with symmetry and regularity properties Here there are important connections with other branches of algebraic combinatorics and group theory This new and enlarged edition this will be essential reading for a wide range of mathematicians computer scientists and theoretical physicists

Algebraic Graph Theory Norman Linstead Biggs, 1993 Algebraic Graph Theory Chris Godsil, Gordon F. Royle, 2013-12-01 This book presents and illustrates the main tools and ideas of algebraic graph theory with a primary emphasis on current rather than classical topics It is designed to offer self contained treatment of the topic with strong emphasis on concrete examples

An Invitation to Combinatorics Shahriar Shahriari, 2021-07-22 A conversational introduction to combinatorics for upper undergraduates emphasizing problem solving and active student participation

Applied Discrete Structures K. D. Joshi, 1997 Although This Book Is Intended As A Sequel To Foundations Of Discrete Mathematics By The Same Author It Can Be Read Independently Of The Latter As The Relevant Background Needed Has Been Reviewed In Chapter 1 The Subsequent Chapters Deal With Graph Theory With Applications Analysis Of Algorithms With A Detailed Study Of A Few Sorting Algorithms And A Discussion Of Tractability Linear Programming With Applications Variations Karmarkars Polynomial Time Algorithm Integer And Quadratic Programming Applications Of Algebra To Polya's Theory Of Counting Galois Theory Coding Theory Of Designs A Chapter On Matroids Familiarises The Reader With This Relatively New Branch Of Discrete Mathematics Even Though Some Of The Topics Are Relatively Advanced An Attempt Has Been Made To Keep The Style Elementary So That A Sincere Student Can Read The Book On His Own A Large Number Of Comments Exercises And References Is Included To Broaden The Readers Scope Of Vision A Detailed Index Is Provided For Easy Reference

The Classification of Minimal Graphs with Given Abelian Automorphism Group William C. Arlinghaus, 1985 Any finite abstract group can be realized as the automorphism group of a graph The purpose of this memoir is to find the realization for each finite abelian group with the least number of vertices possible The results are extended to all finite abelian groups Thus a complete classification is provided for minimal graphs with given finite abelian automorphism group

Graph-Theoretic Concepts in Computer Science Rolf H. Möhring, 1997-10-29 This book constitutes the

Carefully refereed post proceedings of the 22nd International Workshop on Graph Theoretic Concepts in Computer Science WG 96 held in Cadenabbia Italy in June 1996 The 30 revised full papers presented in the volume were selected from a total of 65 submissions This collection documents the state of the art in the area Among the topics addressed are graph algorithms graph rewriting hypergraphs graph drawing networking approximation and optimization trees graph computation and others

Finite-Dimensional Linear Algebra Mark S. Gockenbach, 2010-05-06 This text provides a solid foundation for the study of advanced mathematics and covers many interesting applications of linear algebra which show how linear algebra is essential in such diverse areas as combinatorics differential equations optimization and approximation The book discusses important concepts and methods from numerical linear algebra and contains a range of exercises in each section including some that can be solved using a computer package such as MATLAB It also incorporates mini projects that encourage students to develop topics not covered in the text A forthcoming solutions manual is available for qualifying instructors

Graphs and Discrete Dirichlet Spaces Matthias Keller, Daniel Lenz, Radosław K. Wojciechowski, 2021-10-22 The spectral geometry of infinite graphs deals with three major themes and their interplay the spectral theory of the Laplacian the geometry of the underlying graph and the heat flow with its probabilistic aspects In this book all three themes are brought together coherently under the perspective of Dirichlet forms providing a powerful and unified approach The book gives a complete account of key topics of infinite graphs such as essential self adjointness Markov uniqueness spectral estimates recurrence and stochastic completeness A major feature of the book is the use of intrinsic metrics to capture the geometry of graphs As for manifolds Dirichlet forms in the graph setting offer a structural understanding of the interaction between spectral theory geometry and probability For graphs however the presentation is much more accessible and inviting thanks to the discreteness of the underlying space laying bare the main concepts while preserving the deep insights of the manifold case Graphs and Discrete Dirichlet Spaces offers a comprehensive treatment of the spectral geometry of graphs from the very basics to deep and thorough explorations of advanced topics With modest prerequisites the book can serve as a basis for a number of topics courses starting at the undergraduate level

Isomorphisms, Symmetry and Computations in Algebraic Graph Theory Gareth A. Jones, Ilia Ponomarenko, Jozef Širáň, 2020-01-10 This book consists of a selection of peer reviewed contributions to the Workshop on Algebraic Graph Theory that took place in Pilsen Czech Republic in October 2016 Primarily intended for early career researchers it presents eight self contained articles on a selection of topics within algebraic combinatorics ranging from association schemes to symmetries of graphs and isomorphism testing Algebraic combinatorics is a compelling mathematical discipline based on the powerful interplay of algebraic and combinatorial methods Algebraic interpretation of combinatorial structures such as symmetry or regularity has often led to enlightening discoveries and powerful results while discrete and combinatorial structures have given rise to new algebraic structures that have found valuable applications In addition to these original research contributions the reader will find a survey linking

numerous threads in algebraic combinatorics and an extensive tutorial showcasing the universality of algebraic methods in the study of combinatorial structures

Parallel Processing and Applied Mathematics Roman Wyrzykowski, 2004-04-26
This book constitutes the thoroughly refereed post proceedings of the 5th International Conference on Parallel Processing and Applied Mathematics PPAM 2003 held in Czesochowa Poland in September 2003 The 149 papers presented were carefully selected and improved during two rounds of reviewing and revision The papers are organized in topical sections on parallel and distributed architectures scheduling and load balancing performance analysis and prediction parallel and distributed non numerical algorithms parallel and distributed programming tools and environments applications evolutionary computing soft computing data and knowledge management numerical methods and their applications multi dimensional systems grid computing heterogeneous platforms high performance numerical computation large scale scientific computation and bioinformatics applications

2023 MATRIX Annals David R. Wood, Alison M. Etheridge, Jan de Gier, Nalini Joshi, 2025-07-02
MATRIX is Australia's residential mathematical research institute It facilitates new collaborations and mathematical advances through intensive residential research programs each 1-2 weeks in duration This book is a scientific record of the 14 research programs held at MATRIX in 2023 including combined events with the Mathematisches Forschungsinstitut Oberwolfach MFO and with the Research Institute for Mathematical Sciences Kyoto University RIMS

Complexity Science Henrik Jeldtoft Jensen, 2022-11-17
Ecosystems the human brain ant colonies and economic networks are all complex systems displaying collective behaviour or emergence beyond the sum of their parts Complexity science is the systematic investigation of these emergent phenomena and stretches across disciplines from physics and mathematics to biological and social sciences This introductory textbook provides detailed coverage of this rapidly growing field accommodating readers from a variety of backgrounds and with varying levels of mathematical skill Part I presents the underlying principles of complexity science to ensure students have a solid understanding of the conceptual framework The second part introduces the key mathematical tools central to complexity science gradually developing the mathematical formalism with more advanced material provided in boxes A broad range of end of chapter problems and extended projects offer opportunities for homework assignments and student research projects with solutions available to instructors online Key terms are highlighted in bold and listed in a glossary for easy reference while annotated reading lists offer the option for extended reading and research

Permutation Groups and Cartesian Decompositions Cheryl E. Praeger, Csaba Schneider, 2018-05-03
Concise introduction to permutation groups focusing on invariant cartesian decompositions and applications in algebra and combinatorics

Mathematical Combinatorics, Vol. 1/2013 Linfan Mao, Papers on Global Stability of Non Solvable Ordinary Differential Equations with Applications Quarter Symmetric Metric Connection on Pseudosymmetric Lorentzian Sasakian Manifolds Equivalence of Kropina and Projective Change of Finsler Metric Geometric Mean Labeling of Graphs Obtained from Some Graph Operations and other topics Contributors Linfan Mao V K Chaubey T N

Pandey C Adiga S N Fathima Haidar Ariamanesh H S Shukla O P Pandey B N Prasad Tayo Charles Adefokun Deborah Olayide Ajayi and others Horizons of Fractal Geometry and Complex Dimensions Robert G. Niemeyer, Erin P. J. Pearce, John A. Rock, Tony Samuel, 2019-06-26 This volume contains the proceedings of the 2016 Summer School on Fractal Geometry and Complex Dimensions in celebration of Michel L Lapidus's 60th birthday held from June 21-29 2016 at California Polytechnic State University San Luis Obispo California The theme of the contributions is fractals and dynamics and content is split into four parts centered around the following themes Dimension gaps and the mass transfer principle fractal strings and complex dimensions Laplacians on fractal domains and SDEs with fractal noise and aperiodic order Delone sets and tilings

Keeping It R.E.A.L. Carla D. Martin, Anthony Tongen, 2011-12-31 Keeping it R E A L Research Experiences for All Learners is a collection of computational classroom projects carefully designed to inspire critical thinking and mathematical inquiry This book also contains background subject information for each project grading rubrics and directions for further research Instructors can use these materials inside or outside the classroom to inspire creativity and encourage undergraduate research R E A L projects are suitable for a wide range of college students from those with minimal computational exposure and precalculus background to upper level students in a numerical analysis course Each project is class tested and most were presented as posters at regional conferences *Quantum Logic* Karl Svozil, 1998-09-01 Quantum Logic deals with the foundations of quantum mechanics and related to it the behaviour of finite discrete deterministic systems The quantum logical approach is particularly suitable for the investigation and exclusion of certain hidden parameter models of quantum mechanics Conversely it can be used to embed quantum universes into classical ones It is also highly relevant for the characterization of finite automation This book has been written with a broad readership in mind Great care has been given to the motivation of the concepts and to the explicit and detailed discussions of examples **Permutation Groups and Combinatorial Structures** Norman Biggs, A. T. White, 1979-08-16 The subject of this book is the action of permutation groups on sets associated with combinatorial structures Each chapter deals with a particular structure groups geometries designs graphs and maps respectively A unifying theme for the first four chapters is the construction of finite simple groups In the fifth chapter a theory of maps on orientable surfaces is developed within a combinatorial framework This simplifies and extends the existing literature in the field The book is designed both as a course text and as a reference book for advanced undergraduate and graduate students A feature is the set of carefully constructed projects intended to give the reader a deeper understanding of the subject **Surveys in Combinatorics 2005** Bridget S. Webb, 2005 This volume provides an up to date overview of current research across combinatorics

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