Recent Results in the Theory of Graph Spectra

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Recent Results In The Theory Of Graph Spectra Annals Of Discrete Mathematics 36

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Recent Results In The Theory Of Graph Spectra Annals Of Discrete Mathematics 36:

Recent Results in the Theory of Graph Spectra D.M. Cvetkovic,M. Doob,I. Gutman,A. Torgašev,1988-01-01 The purpose of this volume is to review the results in spectral graph theory which have appeared since 1978 The problem of characterizing graphs with least eigenvalue 2 was one of the original problems of spectral graph theory The techniques used in the investigation of this problem have continued to be useful in other contexts including forbidden subgraph techniques as well as geometric methods involving root systems In the meantime the particular problem giving rise to these methods has been solved almost completely This is indicated in Chapter 1 The study of various combinatorial objects including distance regular and distance transitive graphs association schemes and block designs have made use of eigenvalue techniques usually as a method to show the nonexistence of objects with certain parameters The basic method is to construct a graph which contains the structure of the combinatorial object and then to use the properties of the eigenvalues of the graph Methods of this type are given in Chapter 2 Several topics have been included in Chapter 3 including the relationships between the spectrum and automorphism group of a graph the graph isomorphism and the graph reconstruction problem spectra of random graphs and the Shannon capacity problem Some graph polynomials related to the characteristic polynomial are described in Chapter 4 These include the matching distance and permanental polynomials Applications of the theory of graph spectra to Chemistry and other branches of science are described from a mathematical viewpoint in Chapter 5 The last chapter is devoted to the extension of the theory of graph spectra to infinite graphs *Combinatorial Matrix Theory* Richard A. Brualdi,Herbert J. Ryser,1991-07-26 This book first published in 1991 is devoted to the exposition of combinatorial matrix theory This subject concerns itself with the use of matrix theory and linear algebra in proving results in combinatorics and vice versa and with the intrinsic properties of matrices viewed as arrays of numbers rather than algebraic objects in themselves **Direct and Inverse Finite-Dimensional Spectral Problems on Graphs** Manfred Möller,Vyacheslav Pivovarchik,2020-10-30 Considering that the motion of strings with finitely many masses on them is described by difference equations this book presents the spectral theory of such problems on finite graphs of strings The direct problem of finding the eigenvalues as well as the inverse problem of finding strings with a prescribed spectrum are considered This monograph gives a comprehensive and self contained account on the subject thereby also generalizing known results The interplay between the representation of rational functions and their zeros and poles is at the center of the methods used The book also unravels connections between finite dimensional and infinite dimensional spectral problems on graphs and between self adjoint and non self adjoint finite dimensional problems This book is addressed to researchers in spectral theory of differential and difference equations as well as physicists and engineers who may apply the presented results and methods to their research *Mathematical Methods in Contemporary Chemistry* Kuchanov,1996-03-20 Parallel Numerical Algorithms David E. Keyes,Ahmed Sameh,V. Venkatakrishnan,2012-12-06 In this volume designed for

computational scientists and engineers working on applications requiring the memories and processing rates of large scale parallelism leading algorithmicists survey their own field defining contributions together with enough historical and bibliographical perspective to permit working one s way to the frontiers This book is distinguished from earlier surveys in parallel numerical algorithms by its extension of coverage beyond core linear algebraic methods into tools more directly associated with partial differential and integral equations though still with an appealing generality and by its focus on practical medium granularity parallelism approachable through traditional programming languages Several of the authors used their invitation to participate as a chance to stand back and create a unified overview which nonspecialists will appreciate   *Matrix Inequalities for Iterative Systems* Hanjo Taubig,2017-02-03 The book reviews inequalities for weighted entry sums of matrix powers Applications range from mathematics and CS to pure sciences It unifies and generalizes several results for products and powers of sesquilinear forms derived from powers of Hermitian positive semidefinite as well as nonnegative matrices It shows that some inequalities are valid only in specific cases How to translate the Hermitian matrix results into results for alternating powers of general rectangular matrices Inequalities that compare the powers of the row and column sums to the row and column sums of the matrix powers are refined for nonnegative matrices Lastly eigenvalue bounds and derive results for iterated kernels are improved   Enumerative Combinatorics: Volume 2 Richard P. Stanley,2001-06-04 An introduction suitable for beginning graduate students showing connections to other areas of mathematics   Enumerative Combinatorics: Volume 2 Richard Stanley,2023-08-17 Richard Stanley s two volume basic introduction to enumerative combinatorics has become the standard guide to the topic for students and experts alike This thoroughly revised second edition of volume two covers the composition of generating functions in particular the exponential formula and the Lagrange inversion formula labelled and unlabelled trees algebraic D finite and noncommutative generating functions and symmetric functions The chapter on symmetric functions provides the only available treatment of this subject suitable for an introductory graduate course and focusing on combinatorics especially the Robinson Schensted Knuth algorithm An appendix by Sergey Fomin covers some deeper aspects of symmetric functions including jeu de taquin and the Littlewood Richardson rule The exercises in the book play a vital role in developing the material and this second edition features over 400 exercises including 159 new exercises on symmetric functions all with solutions or references to solutions
   Combinatorial and Graph-Theoretical Problems in Linear Algebra Richard A. Brualdi,Shmuel Friedland,Victor Klee,2012-12-06 This IMA Volume in Mathematics and its Applications COMBINATORIAL AND GRAPH THEORETICAL PROBLEMS IN LINEAR ALGEBRA is based on the proceedings of a workshop that was an integral part of the 1991 92 IMA program on Applied Linear Algebra We are grateful to Richard Brualdi George Cybenko Alan George Gene Golub Mitchell Luskin and Paul Van Dooren for planning and implementing the year long program We especially thank Richard Brualdi Shmuel Friedland and Victor Klee for organizing this workshop and editing the proceedings The financial support of the

National Science Foundation made the workshop possible A vner Friedman Willard Miller Jr PREFACE The 1991 1992 program of the Institute for Mathematics and its Applications IMA was Applied Linear Algebra As part of this program a workshop on Com binatorial and Graph theoretical Problems in Linear Algebra was held on November 11 15 1991 The purpose of the workshop was to bring together in an informal setting the diverse group of people who work on problems in linear algebra and matrix theory in which combinatorial or graph theoretic analysis is a major com ponent Many of the participants of the workshop enjoyed the hospitality of the IMA for the entire fall quarter in which the emphasis was discrete matrix analysis   **Surveys in Combinatorics, 1995** Peter Rowlinson,1995 The fifteenth British Combinatorial Conference took place in July 1995 at the University of Stirling This volume consists of the papers presented by the invited lecturers at the meeting and provides an up to date survey of current research activity in several areas of combinatorics and its applications These include distance regular graphs combinatorial designs coding theory spectra of graphs and randomness and computation The articles give an overview of combinatorics that will be extremely useful to both mathematicians and computer scientists   The Petersen Graph D. A. Holton,J. Sheehan,1993-04-22 The authors examine various areas of graph theory using the prominent role of the Petersen graph as a unifying feature   **Distance-Regular Graphs** Andries E. Brouwer,Arjeh M. Cohen,Arnold Neumaier,2012-12-06 Ever since the discovery of the five platonic solids in ancient times the study of symmetry and regularity has been one of the most fascinating aspects of mathematics Quite often the arithmetical regularity properties of an object imply its uniqueness and the existence of many symmetries This interplay between regularity and symmetry properties of graphs is the theme of this book Starting from very elementary regularity properties the concept of a distance regular graph arises naturally as a common setting for regular graphs which are extremal in one sense or another Several other important regular combinatorial structures are then shown to be equivalent to special families of distance regular graphs Other subjects of more general interest such as regularity and extremal properties in graphs association schemes representations of graphs in euclidean space groups and geometries of Lie type groups acting on graphs and codes are covered independently Many new results and proofs and more than 750 references increase the encyclopaedic value of this book   Theory and Applications of Satisfiability Testing Holger H. Hoos,2005-07-08 This book constitutes the refereed proceedings of the 7th International Conference on Theory and Applications of Satisfiability Testing SAT 2004 held in Vancouver BC Canada in May 2004 The 24 revised full papers presented together with 2 invited papers were carefully selected from 72 submissions In addition there are 2 reports on the 2004 SAT Solver Competition and the 2004 QBF Solver Evaluation The whole spectrum of research in propositional and quantified Boolean formula satisfiability testing is covered bringing together the fields of theoretical and experimental computer science as well as the many relevant application areas   **Combinatorics** Russell Merris,2003-08-15 A mathematical gem freshly cleaned and polished This book is intended to be used as the text for a first course in combinatorics the text has been shaped by two goals namely to make complex

mathematics accessible to students with a wide range of abilities interests and motivations and to create a pedagogical tool useful to the broad spectrum of instructors who bring a variety of perspectives and expectations to such a course Features retained from the first edition Lively and engaging writing style Timely and appropriate examples Numerous well chosen exercises Flexible modular format Optional sections and appendices Highlights of Second Edition enhancements Smoothed and polished exposition with a sharpened focus on key ideas Expanded discussion of linear codes New optional section on algorithms Greatly expanded hints and answers section Many new exercises and examples *Introduction to Quantum Graphs* Gregory Berkolaiko,Peter Kuchment,2013 A quantum graph is a graph considered as a one dimensional complex and equipped with a differential operator Hamiltonian Quantum graphs arise naturally as simplified models in mathematics physics chemistry and engineering when one considers propagation of waves of various nature through a quasi one dimensional e g meso or nano scale system that looks like a thin neighborhood of a graph Works that currently would be classified as discussing quantum graphs have been appearing since at least the 1930s and since then quantum graphs techniques have been applied successfully in various areas of mathematical physics mathematics in general and its applications One can mention for instance dynamical systems theory control theory quantum chaos Anderson localization microelectronics photonic crystals physical chemistry nano sciences superconductivity theory etc Quantum graphs present many non trivial mathematical challenges which makes them dear to a mathematician s heart Work on quantum graphs has brought together tools and intuition coming from graph theory combinatorics mathematical physics PDEs and spectral theory This book provides a comprehensive introduction to the topic collecting the main notions and techniques It also contains a survey of the current state of the quantum graph research and applications **Contemporary Methods in Graph Theory** Rainer Bodendiek,1990 Journal of Mathematics, Tokushima University ,2007 **Matrix Theory and Applications** Charles R. Johnson,1990 This volume contains the lecture notes prepared for the AMS Short Course on Matrix Theory and Applications held in Phoenix in January 1989 Matrix theory continues to enjoy a renaissance that has accelerated in the past decade in part because of stimulation from a variety of applications and considerable interplay with other parts of mathematics In addition the great increase in the number and vitality of specialists in the field has dispelled the popular misconception that the subject has been fully researched **A Textbook of Graph Theory** R. Balakrishnan,K. Ranganathan,2012-09-20 In its second edition expanded with new chapters on domination in graphs and on the spectral properties of graphs this book offers a solid background in the basics of graph theory Introduces such topics as Dirac s theorem on k connected graphs and more **Algebraic Combinatorics** Chris Godsil,2017-10-19 This graduate level text is distinguished both by the range of topics and the novelty of the material it treats more than half of the material in it has previously only appeared in research papers The first half of this book introduces the characteristic and matchings polynomials of a graph It is instructive to consider these polynomials together because they have a number of properties in

common The matchings polynomial has links with a number of problems in combinatorial enumeration particularly some of the current work on the combinatorics of orthogonal polynomials This connection is discussed at some length and is also in part the stimulus for the inclusion of chapters on orthogonal polynomials and formal power series Many of the properties of orthogonal polynomials are derived from properties of characteristic polynomials The second half of the book introduces the theory of polynomial spaces which provide easy access to a number of important results in design theory coding theory and the theory of association schemes This book should be of interest to second year graduate text reference in mathematics

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