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# Recent Results in the Theory of Graph Spectra

D. CVETKOVIĆ M. DOOB I. GUTMAN A. TORĜASEV



NORTH-HOLLAND

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

**Hanjo Taubig** 

#### 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. Torqašev, 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 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 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 Enumerative Combinatorics: Volume 2 Richard P. Stanley, 2001-06-04 An introduction suitable for their research beginning graduate students showing connections to other areas of mathematics 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 Mathematical Methods in **Contemporary Chemistry** Kuchanov, 1996-03-20 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 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 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

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