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# Spectral Generalizations of Line Graphs

On graphs with least eigenvalue  $-2$

Dragoš Cvetković,  
Peter Rowlinson and  
Slobodan Simić



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# Spectral Generalizations Of Line Graphs On Graphs With Least Eigenvalue

**Jessica J Manson**



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**Spectral Generalizations of Line Graphs** Dragoš M. Cvetković, Peter Rowlinson, Slobodan Simić, 2014-05-14 Line graphs have the property that their least eigenvalue is greater than or equal to 2 a property shared by generalized line graphs and a finite number of so called exceptional graphs This book deals with all these families of graphs in the context of their spectral properties Technical descriptions of these graphs are included in the appendices while the bibliography provides over 250 references It will be an important resource for all researchers with an interest in algebraic graph theory

**Spectral Generalizations of Line Graphs** Dragoš M. Cvetković, 2004 An important resource for all researchers with an interest in algebraic graph theory

**Regular Graphs** Zoran Stanić, 2017-04-24 Written for mathematicians working with the theory of graph spectra this primarily theoretical book presents relevant results considering the spectral properties of regular graphs The book begins with a short introduction including necessary terminology and notation The author then proceeds with basic properties specific subclasses of regular graphs like distance regular graphs strongly regular graphs various designs or expanders and determining particular regular graphs Each chapter contains detailed proofs discussions comparisons examples exercises and also indicates possible applications Finally the author also includes some conjectures and open problems to promote further research Contents Spectral properties Particular types of regular graph Determinations of regular graphs Expanders Distance matrix of regular graphs

Advances in Guidance, Navigation and Control Liang Yan, Haibin Duan, Yimin Deng, 2025-03-10 This book features the latest theoretical results and techniques in the field of guidance navigation and control GNC of vehicles and aircrafts It covers a wide range of topics including but not limited to intelligent computing communication and control new methods of navigation estimation and tracking control of multiple moving objects manned and autonomous unmanned systems guidance navigation and control of miniature aircraft and sensor systems for guidance navigation and control etc Presenting recent advances in the form of illustrations tables and text it also provides detailed information of a number of the studies to offer readers insights for their own research In addition the book addresses fundamental concepts and studies in the development of GNC making it a valuable resource for both beginners and researchers wanting to further their understanding of guidance navigation and control

*Handbook of Linear Algebra* Leslie Hogben, 2013-11-26 With a substantial amount of new material the Handbook of Linear Algebra Second Edition provides comprehensive coverage of linear algebra concepts applications and computational software packages in an easy to use format It guides you from the very elementary aspects of the subject to the frontiers of current research Along with revisions and

**Notes on Coxeter Transformations and the McKay Correspondence** Rafael

Stekolshchik, 2008-01-18 One of the beautiful results in the representation theory of the finite groups is McKay's theorem on

a correspondence between representations of the binary polyhedral group of  $SU(2)$  and vertices of an extended simply laced Dynkin diagram The Coxeter transformation is the main tool in the proof of the McKay correspondence and is closely interrelated with the Cartan matrix and Poincaré series The Coxeter functors constructed by Bernstein Gelfand and Ponomarev plays a distinguished role in the representation theory of quivers On these pages the ideas and formulas due to J N Bernstein I M Gelfand and V A Ponomarev H S M Coxeter V Dlab and C M Ringel V Kac J McKay T A Springer B Kostant P Slodowy R Steinberg W Ebeling and several other authors as well as the author and his colleagues from Subbotin's seminar are presented in detail Several proofs seem to be new

*Strongly Regular Graphs* Andries E. Brouwer, H. Van Maldeghem, 2022-01-13 Strongly regular graphs lie at the intersection of statistical design group theory finite geometry information and coding theory and extremal combinatorics This monograph collects all the major known results together for the first time in book form creating an invaluable text that researchers in algebraic combinatorics and related areas will refer to for years to come The book covers the theory of strongly regular graphs polar graphs rank 3 graphs associated to buildings and Fischer groups cyclotomic graphs two weight codes and graphs related to combinatorial configurations such as Latin squares quasi symmetric designs and spherical designs It gives the complete classification of rank 3 graphs including some new constructions More than 100 graphs are treated individually Some unified and streamlined proofs are featured along with original material including a new approach to the affine half spin graphs of rank 5 hyperbolic polar spaces

*Spectra of Graphs* Andries E. Brouwer, Willem H. Haemers, 2011-12-17 This book gives an elementary treatment of the basic material about graph spectra both for ordinary and Laplace and Seidel spectra The text progresses systematically by covering standard topics before presenting some new material on trees strongly regular graphs two graphs association schemes  $p$ -ranks of configurations and similar topics Exercises at the end of each chapter provide practice and vary from easy yet interesting applications of the treated theory to little excursions into related topics Tables references at the end of the book an author and subject index enrich the text *Spectra of Graphs* is written for researchers teachers and graduate students interested in graph spectra The reader is assumed to be familiar with basic linear algebra and eigenvalues although some more advanced topics in linear algebra like the Perron Frobenius theorem and eigenvalue interlacing are included

*Handbook of Graph Theory* Jonathan L. Gross, Jay Yellen, Ping Zhang, 2013-12-17 In the ten years since the publication of the best selling first edition more than 1 000 graph theory papers have been published each year Reflecting these advances *Handbook of Graph Theory Second Edition* provides comprehensive coverage of the main topics in pure and applied graph theory This second edition over 400 pages longer than its prede

*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 *Bulletin - Académie serbe des sciences et des arts, Classe des sciences mathématiques et naturelles* Srpska akademija nauka i umetnosti. Odeljenje prirodno-matematičkih nauka, 2001 *Bulletin de L'Académie Serbe Des Sciences, Classe Des Sciences Mathématiques Et Naturelles*, 2007 **Publications de L'Institut Mathématique** Matematički institut (Belgrade, Serbia), 2004 *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 *Bulletin* Srpska akademija nauka i umetnosti, 2007 **Mathematical Reviews**, 2007 *Inequalities for Graph Eigenvalues* Zoran Stanić, 2015-07-23 This book explores the inequalities for eigenvalues of the six matrices associated with graphs Includes the main results and selected applications **Book Review Index**, 2006 Every 3rd issue is a quarterly cumulation **Ars Combinatoria**, 1987

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