

# **Graduate Texts in Mathematics**

**Chris Godsil  
Gordon Royle**

## **Algebraic Graph Theory**



**Springer**

# Algebraic Graph Theory Godsil

**Ulrich Knauer**

## **Algebraic Graph Theory Godsil:**

**Algebraic Graph Theory** Chris Godsil,Gordon F. Royle,2001-04-20 This book is primarily aimed at graduate students and researchers in graph theory combinatorics or discrete mathematics in general However all the necessary graph theory is developed from scratch so the only pre requisite for reading it is a first course in linear algebra and a small amount of elementary group theory It should be accessible to motivated upper level undergraduates

### **Algebraic Graph Theory**

Chris Godsil,Gordon F. Royle,2001-04-20 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

*Algebraic Graph Theory* Christopher David Godsil,Godsil,Gordon

Royle,2001

**Algebraic Graph Theory** Chris Godsil,Gordon F. Royle,2014-09-01

Erdos-Ko-Rado Theorems: Algebraic

Approaches Christopher Godsil,Karen Meagher,2016 Graduate text focusing on algebraic methods that can be applied to prove the Erd s Ko Rado Theorem and its generalizations

*Discrete Quantum Walks on Graphs and Digraphs* Chris

Godsil,Hanmeng Zhan,2023-01-12 Discrete quantum walks are quantum analogues of classical random walks They are an important tool in quantum computing and a number of algorithms can be viewed as discrete quantum walks in particular Grover s search algorithm These walks are constructed on an underlying graph and so there is a relation between properties of walks and properties of the graph This book studies the mathematical problems that arise from this connection and the different classes of walks that arise Written at a level suitable for graduate students in mathematics the only prerequisites are linear algebra and basic graph theory no prior knowledge of physics is required The text serves as an introduction to this important and rapidly developing area for mathematicians and as a detailed reference for computer scientists and physicists working on quantum information theory

*Algebraic Graph Theory* Godlis,2005-01-01

### **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

*Topics in*

*Algebraic Graph Theory* Lowell W. Beineke,Robin J. Wilson,Peter J. Cameron,2004-10-04 The rapidly expanding area of

algebraic graph theory uses two different branches of algebra to explore various aspects of graph theory linear algebra for spectral theory and group theory for studying graph symmetry These areas have links with other areas of mathematics such as logic and harmonic analysis and are increasingly being used in such areas as computer networks where symmetry is an important feature Other books cover portions of this material but this book is unusual in covering both of these aspects and there are no other books with such a wide scope Peter J Cameron internationally recognized for his substantial contributions to the area served as academic consultant for this volume and the result is ten expository chapters written by acknowledged international experts in the field Their well written contributions have been carefully edited to enhance readability and to standardize the chapter structure terminology and notation throughout the book To help the reader there is an extensive introductory chapter that covers the basic background material in graph theory linear algebra and group theory Each chapter concludes with an extensive list of references *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

**Graph Polynomials** Yongtang Shi,Matthias Dehmer,Xueliang Li,Ivan Gutman,2016-11-25 This book covers both theoretical and practical results for graph polynomials Graph polynomials have been developed for measuring combinatorial graph invariants and for characterizing graphs Various problems in pure and applied graph theory or discrete mathematics can be treated and solved efficiently by using graph polynomials Graph polynomials have been proven useful areas such as discrete mathematics engineering information sciences mathematical chemistry and related disciplines **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 **Symmetry in Graphs** Ted Dobson,Aleksander Malnič,Dragan Marušič,2022-05-12 This is the first full length book on the major theme of symmetry in graphs Forming part of algebraic graph theory this fast growing field is concerned with the study of highly symmetric graphs particularly vertex transitive graphs and other combinatorial structures primarily by group theoretic techniques In practice the street goes both ways and these investigations shed new light on permutation groups and related algebraic structures The book assumes a first course in graph theory and group theory but no specialized knowledge of the theory of permutation groups or vertex transitive graphs It begins with the basic material before introducing the field s major problems and most active research themes in order to motivate the detailed discussion of individual topics that follows Featuring many examples and over 450 exercises it is an essential introduction to the field for graduate students and a valuable addition to any algebraic graph theorist s bookshelf [Progress in Graph Theory](#) John Adrian Bondy,U. S. R. Murty,University of Waterloo. Department of Combinatorics and Optimization,1984

**The Rocky Mountain Journal of Mathematics** ,2009 **Algebraic Graph Theory** Ulrich Knauer,2011-09-29 Graph models are extremely useful for almost all applications and applicators as they play an important role as structuring tools They allow to model net structures like roads computers telephones instances of abstract data structures like lists stacks trees and functional or object oriented programming In turn graphs are models for mathematical objects like categories and functors This highly self contained book about algebraic graph theory is written with a view to keep the lively and unconventional atmosphere of a spoken text to communicate the enthusiasm the author feels about this subject The focus is on homomorphisms and endomorphisms matrices and eigenvalues It ends with a challenging chapter on the topological question of embeddability of Cayley graphs on surfaces **On Graph Isomorphism and the PageRank Algorithm** Christopher J. Augeri,2008 Graphs express relationships among objects such as the radio connectivity among nodes in unmanned vehicle swarms Some applications may rank a swarm s nodes by their relative importance for example using the PageRank algorithm applied in certain search engines to order query responses The PageRank values of the nodes correspond to a unique eigenvector that can be computed using the power method an iterative technique based on matrix multiplication The first result is a practical lower bound on the PageRank algorithm s execution time that is derived by applying assumptions to the PageRank perturbation s scaling value and the PageRank vector s required numerical precision The second result establishes nodes contained in the same block of the graph s coarsest equitable partition must have equal PageRank values The third result the AverageRank algorithm ensures such nodes are assigned equal PageRank values The fourth result the ProductRank algorithm reduces the time needed to find the PageRank vector by eliminating certain dot products in the power method if the graph s coarsest equitable partition contains blocks composed of multiple vertices The fifth result the QuotientRank algorithm uses a quotient matrix induced by the coarsest equitable partition to further reduce the time needed

to compute a swarm's PageRank vector     *Algebraic Graph Theory* Ulrich Knauer, Kolja Knauer, 2019-10-08 Graph models are extremely useful for a large number of applications as they play an important role as structuring tools. They allow to model net structures like roads, computers, telephones, social networks, instances of abstract data structures like lists, stacks, trees, and functional or object-oriented programming. The focus of this highly self-contained book is on homomorphisms and endomorphisms, matrices and eigenvalues     **Measuring Technology and Mechatronics Automation IV** Zhi Xiang Hou, 2011-10-24 Selected peer-reviewed papers from the Fourth International Conference on Measuring Technology and Mechatronics Automation ICMTMA 2012 January 6-7 2012 Sanya, China     **Algebra Colloquium**, 2007

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