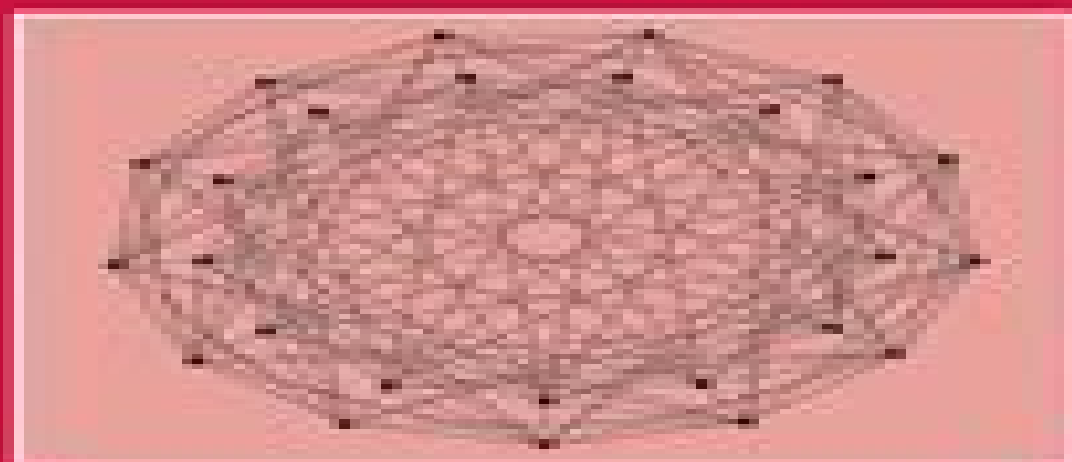


TOPICS IN ALGEBRAIC GRAPH THEORY

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Topics In Algebraic Graph Theory Topics In Algebraic Graph Theory

Lowell W. Beineke, Senior Lecturer
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Lowell W. Beineke, Robin J. Wilson, 2004-10-04 There is no other book with such a wide scope of both areas of algebraic graph theory Topics in Algebraic Graph Theory Lowell W. Beineke, Senior Lecturer Faculty of Mathematics Robin J

Wilson, 2014-05-14 There is no other book with such a wide scope of both areas of algebraic graph theory **Selected Topics from Algebraic Graph Theory** Mikhail Klin, Štefan Gyürki, 2015 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** 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** 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 **Algebra, Graph Theory and their**

Applications T.T Chelvam,2009-12-03 Algebra and Graph Theory are two fascinating branches of Mathematics The tools of each have been used in the other to explore and investigate problems in depth Especially the Cayley graphs constructed out of the group structures have been greatly and extensively used in Parallel computers to provide network to the routing problem ALGEBRA GRAPH THEORY AND THEIR APPLICATIONS takes an inclusive view of the two areas and presents a wide range of topics It includes sixteen referred research articles on algebra and graph theory of which three are expository in nature alongwith articles exhibiting the use of algebraic techniques in the study of graphs A substantial proportion of the book covers topics that have not yet appeared in book form providing a useful resource to the younger generation of researchers in Discrete Mathematics Graphs and Matrices Ravindra B. Bapat,2010-07-23 Graphs and Matrices provides a

welcome addition to the rapidly expanding selection of literature in this field As the title suggests the book s primary focus is graph theory with an emphasis on topics relating to linear algebra and matrix theory Information is presented at a relatively elementary level with the view of leading the student into further research In the first part of the book matrix preliminaries are discussed and the basic properties of graph associated matrices highlighted Further topics include those of graph theory such as regular graphs and algebraic connectivity Laplacian eigenvalues of threshold graphs positive definite completion problem and graph based matrix games Whilst this book will be invaluable to researchers in graph theory it may also be of benefit to a wider cross disciplinary readership **Topics in Topological Graph Theory** Lowell W. Beineke,Robin J.

Wilson,2009-07-09 The use of topological ideas to explore various aspects of graph theory and vice versa is a fruitful area of research There are links with other areas of mathematics such as design theory and geometry and increasingly with such areas as computer networks where symmetry is an important feature Other books cover portions of the material here but there are no other books with such a wide scope This book contains fifteen 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 and the topology of surfaces Each chapter concludes with an extensive list of references

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