Ding-Zhu Du and D. Frank Hsu (Eds.)

# COMBINATORIAL NETWORK THEORY

# **Combinatorial Network Theory**

Sabra S. Anderson

#### **Combinatorial Network Theory:**

Combinatorial Network Theory Ding-Zhu Du, F. Hsu, 2013-04-09 A basic problem for the interconnection of communications media is to design interconnection networks for specific needs For example to minimize delay and to maximize reliability networks are required that have minimum diameter and maximum connectivity under certain conditions The book provides a recent solution to this problem The subject of all five chapters is the interconnection problem The first two chapters deal with Cayley digraphs which are candidates for networks of maximum connectivity with given degree and number of nodes Chapter 3 addresses Bruijn digraphs Kautz digraphs and their generalizations which are candidates for networks of minimum diameter and maximum connectivity with given degree and number of nodes Chapter 4 studies double loop networks and Chapter 5 considers broadcasting and the Gossiping problem All the chapters emphasize the combinatorial aspects of network theory Audience A vital reference for graduate students and researchers in applied mathematics and theoretical computer science Topics in Combinatorics and Graph Theory Rainer Bodendiek, Rudolf Henn, 2012-12-06 Graph Theory is a part of discrete mathematics characterized by the fact of an extremely rapid development during the last 10 years. The number of graph theoretical paper as well as the number of graph theorists. increase very strongly The main purpose of this book is to show the reader the variety of graph theoretical methods and the relation to combinatorics and to give him a survey on a lot of new results special methods and interesting informations This book which grew out of contributions given by about 130 authors in honour to the 70th birthday of Gerhard Ringel one of the pioneers in graph theory is meant to serve as a source of open problems reference and guide to the extensive literature and as stimulant to further research on graph theory and combinatorics The Seventh European Conference on Combinatorics, Graph Theory and Applications Jaroslav Nešetřil, Marco Pellegrini, 2014-01-18 In the tradition of EuroComb 01 Barcelona Eurocomb 03 Prague EuroComb 05 Berlin Eurocomb 07 Seville Eurocomb 09 Bordeaux and Eurocomb 11 Budapest this volume covers recent advances in combinatorics and graph theory including applications in other areas of mathematics computer science and engineering Topics include but are not limited to Algebraic combinatorics combinatorial geometry combinatorial number theory combinatorial optimization designs and configurations enumerative combinatorics extremal combinatorics ordered sets random methods topological combinatorics **Graph Theory and Finite Combinatorics** Sabra S. Anderson, 1970 Graph Theory and Combinatorial Biology László Lovász, 1999 Graph Theory and Combinatorics Robin J. Wilson, 1979 This book presents the proceedings of a one day conference in Combinatorics and Graph Theory held at The Open University England on 12 May 1978 The first nine papers presented here were given at the conference and cover a wide variety of topics ranging from topological graph theory and block designs to latin rectangles and polymer chemistry. The submissions were chosen for their facility in combining interesting expository. material in the areas concerned with accounts of recent research and new results in those areas Graph Theory,

**Combinatorics, and Applications** Y. Alavi, 1991 Introduction to Combinatorial Theory R. C. Bose, B. Manvel, 1984-03-19 A hands on constructive and computational approach to combinatorial topics with real life modern applications Provides a simple treatment of the subject Introduces topics such as counting designs and graphs The notation is standard and kept to a minimum Chapters end with historical remarks and suggestions for further reading Graph Theory, Combinatorics, and Algorithms Y. Alavi, Allen Schwenk, 1995 Graph Theory, Combinatorics, Algorithms, and Applications Y. Alavi, 1991 The Conference participants included research mathematicians and computer scientists from colleges universities and industry representing various countries China which hosted the First International Conference in 1986 is particularly well represented The 58 contributions to this proceedings v A Survey of Combinatorial Theory Jagdish N. Srivastava, 2014-05-12 A Survey of Combinatorial Theory covers the papers presented at the International Symposium on Combinatorial Mathematics and its Applications held at Colorado State University CSU Fort Collins Colorado on September 9 11 1971 The book focuses on the principles operations and approaches involved in combinatorial theory including the Bose Nelson sorting problem Golay code and Galois geometries The selection first ponders on classical and modern topics in finite geometrical structures balanced hypergraphs and applications to graph theory and strongly regular graph derived from the perfect ternary Golay code Discussions focus on perfect ternary Golay code finite projective and affine planes Galois geometries and other geometric structures. The book then examines the characterization problems of combinatorial graph theory line minimal graphs with cyclic group circle geometry in higher dimensions and Cayley diagrams and regular complex polygons The text discusses combinatorial problems in finite Abelian groups dissection graphs of planar point sets combinatorial problems and results in fractional replication Bose Nelson sorting problem and some combinatorial aspects of coding theory. The text also reviews the enumerative theory of planar maps balanced arrays and orthogonal arrays existence of resolvable block designs and combinatorial problems in communication networks. The selection is a valuable source of information for mathematicians and researchers interested in the combinatorial theory Graph Theory and **Combinatorics** Béla Bollobás.1984 Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing ,1992 **Proof Techniques in Graph Theory** Frank Harary, 1969 Proceedings of the Fifteenth Southeastern Conference on Combinatorics, Graph Theory and Computing Held at Louisiana State University, Matrices in Combinatorics and Graph Theory Bolian Liu, Hong-Jian Lai, 2000-10-31 March 5-8, 1984. ,1984 Combinatorics and Matrix Theory have a symbiotic or mutually beneficial relationship This relationship is discussed in my paper The symbiotic relationship of combinatorics and matrix theoryl where I attempted to justify this description One could say that a more detailed justification was given in my book with H J Ryser entitled Combinatorial Matrix Theon where an attempt was made to give a broad picture of the use of combinatorial ideas in matrix theory and the use of matrix theory in proving theorems which at least on the surface are combinatorial in nature In the book by Liu and Lai this picture is enlarged

and expanded to include recent developments and contributions of Chinese mathematicians many of which have not been readily available to those of us who are unfamiliar with Chinese journals Necessarily there is some overlap with the book Combinatorial Matrix Theory Some of the additional topics include spectra of graphs eulerian graph problems Shannon capacity generalized inverses of Boolean matrices matrix rearrangements and matrix completions A topic to which many Chinese mathematicians have made substantial contributions is the combinatorial analysis of powers of nonnegative matrices and a large chapter is devoted to this topic This book should be a valuable resource for mathematicians working in the area of combinatorial matrix theory Richard A Brualdi University of Wisconsin Madison 1 Linear Alg Applies vols 162 4 1992 65 105 2Camhridge University Press 1991 Proceedings of the ... Southeastern Conference on Combinatorics, Graph Theory, and Computing, 1972

Combinatorial Optimization William Cook, 1997-11-26 Combinatorial optimization is a topic in discrete mathematics

and theoretical computer science This book covers the theory algorithms and applications in a manner which should be accessible to researchers and post graduate students in mathematics and computer science

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