



Alison M. Marr
W.D. Wallis

Magic Graphs

Second Edition

 Birkhäuser

Magic Graphs

Linfan Mao



Magic Graphs:

Magic Graphs W.D. Wallis, 2012-12-06 Magic labelings Magic squares are among the more popular mathematical recreations Their origins are lost in antiquity over the years a number of generalizations have been proposed In the early 1960s Sedlacek asked whether magic ideas could be applied to graphs Shortly afterward Kotzig and Rosa formulated the study of graph labelings or valuations as they were first called A labeling is a mapping whose domain is some set of graph elements the set of vertices for example or the set of all vertices and edges whose range was a set of positive integers Various restrictions can be placed on the mapping The case that we shall find most interesting is where the domain is the set of all vertices and edges of the graph and the range consists of positive integers from 1 up to the number of vertices and edges No repetitions are allowed In particular one can ask whether the set of labels associated with any edge the label on the edge itself and those on its endpoints always add up to the same sum Kotzig and Rosa called such a labeling and the graph possessing it magic To avoid confusion with the ideas of Sedlacek and the many possible variations we would call it an edge magic total labeling

Magic and Antimagic Graphs Martin Bača, Mirka Miller, Joe Ryan, Andrea Semaničová-Feňovčíková, 2019-09-14 Magic and antimagic labelings are among the oldest labeling schemes in graph theory This book takes readers on a journey through these labelings from early beginnings with magic squares up to the latest results and beyond Starting from the very basics the book offers a detailed account of all magic and antimagic type labelings of undirected graphs Long standing problems are surveyed and presented along with recent results in classical labelings In addition the book covers an assortment of variations on the labeling theme all in one self contained monograph Assuming only basic familiarity with graphs this book complete with carefully written proofs of most results is an ideal introduction to graph labeling for students learning the subject More than 150 open problems and conjectures make it an invaluable guide for postgraduate and early career researchers as well as an excellent reference for established graph theorists

Magic Graphs Springer, 2012-11-07 *Graphs, Combinatorics, Algorithms and Applications* S. Arumugam, B. D. Acharya, S. B. Rao, 2005 Graphs Combinatorics Algorithms and Applications The research papers contributed by leading experts in their respective field discusses current areas of research in graph theory such as Graphoidal covers Hyper graphs Domination in graph Signed graphs Graph labelings and Theoretical computer science This volume will serve as an excellent reference for experts and research scholars working in Graph Theory and related topics

Super Edge-Antimagic Graphs Martin Bača, Mirka Miller, 2008 Graph theory and graph labeling in particular are fast growing research areas in mathematics New results are constantly being discovered and published at a rapidly increasing rate due to the enormous number of open problems and conjectures in the field This book deals mainly with the super edge antimagic branch of graph labeling It is written for specialists but could be read also by postgraduate or undergraduate students with high school knowledge of mathematics and a vibrant interest in problem solving

A Beginner's Guide to Graph Theory W.D. Wallis, 2010-05-05

Graph theory continues to be one of the fastest growing areas of modern mathematics because of its wide applicability in such diverse disciplines as computer science engineering chemistry management science social science and resource planning Graphs arise as mathematical models in these fields and the theory of graphs provides a spectrum of methods of proof This concisely written textbook is intended for an introductory course in graph theory for undergraduate mathematics majors or advanced undergraduate and graduate students from the many fields that benefit from graph theoretic applications This second edition includes new chapters on labeling and communications networks and small worlds as well as expanded beginner s material in the early chapters including more examples exercises hints and solutions to key problems Many additional changes improvements and corrections resulting from classroom use and feedback have been added throughout With a distinctly applied flavor this gentle introduction to graph theory consists of carefully chosen topics to develop graph theoretic reasoning for a mixed audience Familiarity with the basic concepts of set theory along with some background in matrices and algebra and a little mathematical maturity are the only prerequisites **Canadian Journal of Mathematics**

,1966 **Graph Theory** Ralucca Gera,Stephen Hedetniemi,Craig Larson,2016-10-19 This is the first in a series of volumes which provide an extensive overview of conjectures and open problems in graph theory The readership of each volume is geared toward graduate students who may be searching for research ideas However the well established mathematician will find the overall exposition engaging and enlightening Each chapter presented in a story telling style includes more than a simple collection of results on a particular topic Each contribution conveys the history evolution and techniques used to solve the authors favorite conjectures and open problems enhancing the reader s overall comprehension and enthusiasm The editors were inspired to create these volumes by the popular and well attended special sessions entitled My Favorite Graph Theory Conjectures which were held at the winter AMS MAA Joint Meeting in Boston January 2012 the SIAM Conference on Discrete Mathematics in Halifax June 2012 and the winter AMS MAA Joint meeting in Baltimore January 2014 In an effort to aid in the creation and dissemination of open problems which is crucial to the growth and development of a field the editors requested the speakers as well as notable experts in graph theory to contribute to these volumes MATHEMATICAL

COMBINATORICS, Vol.1 / 2019 Linfan Mao, The Mathematical Combinatorics International Book Series is a fully refereed international book series with ISBN number on each issue sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly comprising 110 160 pages approx per volume which publishes original research papers and survey articles in all aspects of Smarandache multi spaces Smarandache geometries mathematical combinatorics non euclidean geometry and topology and their applications to other sciences *Graceful, Harmonious and Magic Type*

Labelings Susana C. López,Francesc A. Muntaner-Batlé,2017-02-26 Aimed toward upper undergraduate and graduate students in mathematics this book examines the foremost forms of graph labelings including magic harmonious and graceful labelings An overview of basic graph theory concepts and notation is provided along with the origins of graph labeling

Common methods and techniques are presented introducing readers to links between graph labels A variety of useful techniques are presented to analyze and understand properties of graph labelings The classical results integrated with new techniques complete proofs numerous exercises and a variety of open problems will provide readers with a solid understanding of graph labelings **CRC Concise Encyclopedia of Mathematics** Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d **International Journal of Mathematical Combinatorics, Volume 1, 2019** Linfan Mao, International J Mathematical Combinatorics is a fully refereed international journal Topics in detail to be covered are Smarandache multi spaces with applications to other sciences such as those of algebraic multi systems multi metric spaces Smarandache geometries Differential Geometry Geometry on manifolds Topological graphs Algebraic graphs Random graphs Combinatorial maps Graph and map enumeration Combinatorial designs Combinatorial enumeration Low Dimensional Topology Differential Topology Topology of Manifolds Geometrical aspects of Mathematical Physics and Relations with Manifold Topology Applications of Smarandache multi spaces to theoretical physics Applications of Combinatorics to mathematics and theoretical physics Mathematical theory on gravitational fields Mathematical theory on parallel universes Other applications of Smarandache multi space and combinatorics **Computational Geometry and Graph Theory** Hiro Ito, Mikio Kano, Naoki Katoh, 2008-11-13 This book constitutes the thoroughly refereed post conference proceedings of the Kyoto Conference on Computational Geometry and Graph Theory KyotoCGGT 2007 held in Kyoto Japan in June 2007 in honor of Jin Akiyama and Va ek Chv tal on the occasion of their 60th birthdays The 19 revised full papers presented together with 5 invited papers were carefully selected during two rounds of reviewing and improvement from more than 60 talks at the conference All aspects of Computational Geometry and Graph Theory are covered including tilings polygons impossible objects coloring of graphs Hamilton cycles and factors of graphs **Computational Mathematics** K. Thangavel, P. Balasubramaniam, 2005 A review of computational design models and the most effective control mechanisms concerning physical phenomena this book depicts a real life system and emphasises the solution of a general class of inverse design problems presenting methodologies for dynamic coupling between experiments and computation **Combinatorial Geometry and Graph Theory** Jin Akiyama, 2005-01-31 This book constitutes the thoroughly refereed post proceedings of the Indonesia Japan Joint Conference on Combinatorial Geometry and Graph Theory IJCCGGT 2003 held in Bandung Indonesia in September 2003 The 23 revised papers presented were carefully selected during two rounds of reviewing and improvement Among the topics covered are coverings convex polygons convex polyhedra matchings graph colourings crossing numbers subdivision numbers combinatorial optimization combinatorics spanning trees various graph characteristics convex bodies labelling Ramsey number estimation etc

Canadian Journal of Mathematics ,1966 Energy Systems, Drives and Automations Jerzy Ryszard Szymanski,Chandan Kumar Chanda,Pranab Kumar Mondal,Kamrul Alam Khan,2023-08-20 This book covers the proceedings of the 4th International Conference on Energy Systems Drives and Automations ESDA2021 It comprises interesting topics in renewable energy power management drives of electrical machines and automation It also discusses different tools and techniques to match the conference theme This book also comprehensively discusses related tools and techniques and is a valuable resource for researchers and professionals in electrical and mechanical engineering disciplines *Handbook of Research on Advanced Applications of Graph Theory in Modern Society* Pal, Madhumangal,Samanta, Sovan,Pal, Anita,2019-08-30 In the world of mathematics and computer science technological advancements are constantly being researched and applied to ongoing issues Setbacks in social networking engineering and automation are themes that affect everyday life and researchers have been looking for new techniques in which to solve these challenges Graph theory is a widely studied topic that is now being applied to real life problems The Handbook of Research on Advanced Applications of Graph Theory in Modern Society is an essential reference source that discusses recent developments on graph theory as well as its representation in social networks artificial neural networks and many complex networks The book aims to study results that are useful in the fields of robotics and machine learning and will examine different engineering issues that are closely related to fuzzy graph theory Featuring research on topics such as artificial neural systems and robotics this book is ideally designed for mathematicians research scholars practitioners professionals engineers and students seeking an innovative overview of graphic theory **Combinatorics, Graph Theory and Computing** Frederick Hoffman,Sarah Holliday,Zvi Rosen,Farhad Shahrokhi,John Wierman,2024-06-15 This proceedings volume convenes selected revised papers presented at the 52nd Southeastern International Conference on Combinatorics Graph Theory and Computing SEICCGTC 2021 virtually held at Florida Atlantic University in Boca Raton USA on March 8 12 2021 As has been a tradition since its inception in 1970 this edition once more brought together mathematicians practitioners and scientists around novel findings in combinatorics graph theory and computing and their interactions The lectures and works presented at the Conference have proven to be of great interest to other scientists and analysts employing these mathematical sciences in their professional activities in business industry and government Such an environment promotes a better understanding of the roles of modern applied mathematics combinatorics and computer science Many works have demonstrated that disciplines have increasingly contributed to each other With this series of Conferences the gaps between the fields tend to decrease even further This volume is of particular interest for the community of pure and applied mathematicians in academia industry and government working in combinatorics and graph theory as well as related areas of computer science and the interactions among these fields Its findings can also benefit a general audience of practitioners and students from related fields **Theoretical Computer Science and Discrete Mathematics** S. Arumugam,Jay Bagga,Lowell W. Beineke,B.S. Panda,2017-08-14 This

volume constitutes the refereed post conference proceedings of the International Conference on Theoretical Computer Science and Discrete Mathematics held in Krishnankoil India in December 2016 The 57 revised full papers were carefully reviewed and selected from 210 submissions The papers cover a broad range of topics such as line graphs and its generalizations large graphs of given degree and diameter graphoidal covers adjacency spectrum distance spectrum b coloring separation dimension of graphs and hypergraphs domination in graphs graph labeling problems subsequences of words and Parike matrices lambda design conjecture graph algorithms and interference model for wireless sensor networks

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