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Total Domination in Graphs



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**Riccardo Dondi, Guillaume
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Total Domination in Graphs Michael A. Henning, Anders Yeo, 2014-07-08 Total Domination in Graphs gives a clear understanding of this topic to any interested reader who has a modest background in graph theory This book provides and explores the fundamentals of total domination in graphs Some of the topics featured include the interplay between total domination in graphs and transversals in hypergraphs and the association with total domination in graphs and diameter 2 critical graphs Several proofs are included in this text which enables readers to acquaint themselves with a toolbox of proof techniques and ideas with which to attack open problems in the field This work is an excellent resource for students interested in beginning their research in this field Additionally established researchers will find the book valuable to have as it contains the latest developments and open problems

Domination in Graphs: Core Concepts Teresa W.

Haynes, Stephen T. Hedetniemi, Michael A. Henning, 2023-04-29 This monograph is designed to be an in depth introduction to domination in graphs It focuses on three core concepts domination total domination and independent domination It contains major results on these foundational domination numbers including a wide variety of in depth proofs of selected results providing the reader with a toolbox of proof techniques used in domination theory Additionally the book is intended as an invaluable reference resource for a variety of readerships namely established researchers in the field of domination who want an updated comprehensive coverage of domination theory next researchers in graph theory who wish to become acquainted with newer topics in domination along with major developments in the field and some of the proof techniques used and graduate students with interests in graph theory who might find the theory and many real world applications of domination of interest for masters and doctoral thesis topics The focused coverage also provides a good basis for seminars in domination theory or domination algorithms and complexity The authors set out to provide the community with an updated and comprehensive treatment on the major topics in domination in graphs And by Jove they ve done it In recent years the authors have curated and published two contributed volumes Topics in Domination in Graphs 2020 and Structures of Domination in Graphs 2021 This book rounds out the coverage entirely The reader is assumed to be acquainted with the basic concepts of graph theory and has had some exposure to graph theory at an introductory level As graph theory terminology sometimes varies a glossary of terms and notation is provided at the end of the book

Structures of Domination in Graphs Teresa W.

Haynes, Stephen T. Hedetniemi, Michael A. Henning, 2021-05-04 This volume comprises 17 contributions that present advanced topics in graph domination featuring open problems modern techniques and recent results The book is divided into 3 parts The first part focuses on several domination related concepts broadcast domination alliances domatic numbers dominator colorings irredundance in graphs private neighbor concepts game domination varieties of Roman domination and spectral graph theory The second part covers domination in hypergraphs chessboards and digraphs and tournaments The third part focuses on the development of algorithms and complexity of signed minus and majority domination power

domination and alliances in graphs The third part also includes a chapter on self stabilizing algorithms Of extra benefit to the reader the first chapter includes a glossary of commonly used terms The book is intended to provide a reference for established researchers in the fields of domination and graph theory and graduate students who wish to gain knowledge of the topics covered as well as an overview of the major accomplishments and proof techniques used in the field

Domination Games Played on Graphs Boštjan Brešar, Michael A. Henning, Sandi Klavžar, Douglas F. Rall, 2021-04-15 This concise monograph presents the complete history of the domination game and its variants up to the most recent developments and will stimulate research on closely related topics establishing a key reference for future developments The crux of the discussion surrounds new methods and ideas that were developed within the theory led by the imagination strategy the Continuation Principle and the discharging method of Bujsa to prove results about domination game invariants A toolbox of proof techniques is provided for the reader to obtain results on the domination game and its variants Powerful proof methods such as the imagination strategy are presented The Continuation Principle is developed which provides a much used monotonicity property of the game domination number In addition the reader is exposed to the discharging method of Bujsa The power of this method was shown by improving the known upper bound in terms of a graph's order on the ordinary domination number of graphs with minimum degree between 5 and 50 The book is intended primarily for students in graph theory as well as established graph theorists and it can be enjoyed by anyone with a modicum of mathematical maturity The authors include exact results for several families of graphs present what is known about the domination game played on subgraphs and trees and provide the reader with the computational complexity aspects of domination games Versions of the games which involve only the slow player yield the Grundy domination numbers which connect the topic of the book with some concepts from linear algebra such as zero forcing sets and minimum rank More than a dozen other related games on graphs and hypergraphs are presented in the book In all these games there are problems waiting to be solved so the area is rich for further research The domination game belongs to the growing family of competitive optimization graph games The game is played by two competitors who take turns adding a vertex to a set of chosen vertices They collaboratively produce a special structure in the underlying host graph namely a dominating set The two players have complementary goals one seeks to minimize the size of the chosen set while the other player tries to make it as large as possible The game is not one that is either won or lost Instead if both players employ an optimal strategy that is consistent with their goals the cardinality of the chosen set is a graphical invariant called the game domination number of the graph To demonstrate that this is indeed a graphical invariant the game tree of a domination game played on a graph is presented for the first time in the literature

Distances and Domination in Graphs Ismael González Yero, 2020-11-18 This book presents a compendium of the 10 articles published in the recent Special Issue Distance and Domination in Graphs The works appearing herein deal with several topics on graph theory that relate to the metric and dominating properties of graphs The topics of the gathered

publications deal with some new open lines of investigations that cover not only graphs but also digraphs Different variations in dominating sets or resolving sets are appearing and a review on some networks curvatures is also present

Topics in Domination in Graphs Teresa W. Haynes, Stephen T. Hedetniemi, Michael A. Henning, 2020-10-19 This volume comprises 16 contributions that present advanced topics in graph domination featuring open problems modern techniques and recent results The focus is on primary dominating sets such as paired domination connected domination restrained domination dominating functions Roman domination and power domination Additionally surveys include known results with a sample of proof techniques for each parameter Of extra benefit to the reader the first chapter includes a glossary of commonly used terms the second chapter provides an overview of models of domination from which the parameters are defined The book is intended to provide a reference for established researchers in the fields of domination and graph theory and graduate students who wish to gain knowledge of the topics covered as well as an overview of the major accomplishments in the field and proof techniques used

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

Symmetric Cycles Andrey O. Matveev, 2023-10-06 This original research monograph concerns various aspects of how based on the decompositions of vertices of hypercube graphs with respect to their symmetric cycles the vertex sets of related discrete hypercubes as well as the power sets of the corresponding ground sets emerge from rank 2 oriented matroids from underlying rank 2 systems of linear inequalities and thus literally from arrangements of straight lines crossing a common point on a piece of paper It reveals some beautiful and earlier hidden fragments in the true foundations of discrete mathematics The central observation made and discussed in the book from various viewpoints consists in that $2t$ subsets of a finite t element set E_t which form in a natural way a cyclic structure well just t subsets that are the vertices of a path in the cycle suffice allow us to construct any of $2t$ subsets of the set E_t by means of a more than elementary voting procedure expressed in basic linear algebraic terms The monograph will be of interest to researchers students and readers in the fields

of discrete mathematics theoretical computer science Boolean function theory enumerative combinatorics and combinatorics on words combinatorial optimization coding theory and discrete and computational geometry Combinatorial Mathematics Douglas B. West, 2021 This is the most readable and thorough graduate textbook and reference for combinatorics covering enumeration graphs sets and methods *Transversals in Linear Uniform Hypergraphs* Michael A. Henning, Anders Yeo, 2020-07-28 This book gives the state of the art on transversals in linear uniform hypergraphs The notion of transversal is fundamental to hypergraph theory and has been studied extensively Very few articles have discussed bounds on the transversal number for linear hypergraphs even though these bounds are integral components in many applications This book is one of the first to give strong non trivial bounds on the transversal number for linear hypergraphs The discussion may lead to further study of those problems which have not been solved completely and may also inspire the readers to raise new questions and research directions The book is written with two readerships in mind The first is the graduate student who may wish to work on open problems in the area or is interested in exploring the field of transversals in hypergraphs This exposition will go far to familiarize the student with the subject the research techniques and the major accomplishments in the field The photographs included allow the reader to associate faces with several researchers who made important discoveries and contributions to the subject The second audience is the established researcher in hypergraph theory who will benefit from having easy access to known results and latest developments in the field of transversals in linear hypergraphs

From Domination to Coloring Gary Chartrand, Teresa W. Haynes, Michael A. Henning, Ping Zhang, 2019-10-16 This book is in honor of the 80th birthday of Stephen Hedetniemi It describes advanced material in graph theory in the areas of domination coloring spanning cycles and circuits and distance that grew out of research topics investigated by Stephen Hedetniemi The purpose of this book is to provide background and principal results on these topics along with some related problems and conjectures for researchers in these areas The most important features deal with material results and problems that researchers may not be aware of but may find of interest Each chapter contains results methods and information that will give readers the necessary background to investigate each topic in more detail **Pattern Recognition on Oriented Matroids** Andrey O. Matveev, 2017-09-11 Pattern Recognition on Oriented Matroids covers a range of innovative problems in combinatorics poset and graph theories optimization and number theory that constitute a far reaching extension of the arsenal of committee methods in pattern recognition The groundwork for the modern committee theory was laid in the mid 1960s when it was shown that the familiar notion of solution to a feasible system of linear inequalities has ingenious analogues which can serve as collective solutions to infeasible systems A hierarchy of dialects in the language of mathematics for instance open cones in the context of linear inequality systems regions of hyperplane arrangements and maximal covectors or topes of oriented matroids provides an excellent opportunity to take a fresh look at the infeasible system of homogeneous strict linear inequalities the standard working model for the contradictory two class pattern

recognition problem in its geometric setting The universal language of oriented matroid theory considerably simplifies a structural and enumerative analysis of applied aspects of the infeasibility phenomenon The present book is devoted to several selected topics in the emerging theory of pattern recognition on oriented matroids the questions of existence and applicability of matroidal generalizations of committee decision rules and related graph theoretic constructions to oriented matroids with very weak restrictions on their structural properties a study in which in particular interesting subsequences of the Farey sequence appear naturally of the hierarchy of the corresponding tope committees a description of the three tope committees that are the most attractive approximation to the notion of solution to an infeasible system of linear constraints an application of convexity in oriented matroids as well as blocker constructions in combinatorial optimization and in poset theory to enumerative problems on tope committees an attempt to clarify how elementary changes one element reorientations in an oriented matroid affect the family of its tope committees a discrete Fourier analysis of the important family of critical tope committees through rank and distance relations in the tope poset and the tope graph the characterization of a key combinatorial role played by the symmetric cycles in hypercube graphs Contents Oriented Matroids the Pattern Recognition Problem and Tope Committees Boolean Intervals Dehn Sommerville Type Relations Farey Subsequences Blocking Sets of Set Families and Absolute Blocking Constructions in Posets Committees of Set Families and Relative Blocking Constructions in Posets Layers of Tope Committees Three Tope Committees Halfspaces Convex Sets and Tope Committees Tope Committees and Reorientations of Oriented Matroids Topes and Critical Committees Critical Committees and Distance Signals Symmetric Cycles in the Hypercube Graphs

Sustainable Communication Networks and Application P. Karuppusamy,Isidoros Perikos,Fuqian Shi,Tu N. Nguyen,2021-01-25 This book includes novel and state of the art research discussions that articulate and report all research aspects including theoretical and experimental prototypes and applications that incorporate sustainability into emerging applications In recent years sustainability and information and communication technologies ICT are highly intertwined where sustainability resources and its management has attracted various researchers stakeholders and industrialists The energy efficient communication technologies have revolutionized the various smart applications like smart cities healthcare entertainment and business The book discusses and articulates emerging challenges in significantly reducing the energy consumption of communication systems and also explains development of a sustainable and energy efficient mobile and wireless communication network It includes best selected high quality conference papers in different fields such as internet of things cloud computing data mining artificial intelligence machine learning autonomous systems deep learning neural networks renewable energy sources sustainable wireless communication networks QoS network sustainability and many other related areas

Advanced Graph Theory and Combinatorics Michel Rigo,2016-11-22 Advanced Graph Theory focuses on some of the main notions arising in graph theory with an emphasis from the very start of the book on the possible applications of the theory and the fruitful links existing with

linear algebra The second part of the book covers basic material related to linear recurrence relations with application to counting and the asymptotic estimate of the rate of growth of a sequence satisfying a recurrence relation **SOFSEM**

2006: Theory and Practice of Computer Science Jirí Wiedermann, 2006-01-05 This book constitutes the refereed proceedings of the 32nd Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2006 held in Merin Czech Republic in January 2006 The 45 revised full papers including the best Student Research Forum paper presented together with 10 invited contributions were carefully reviewed and selected from 157 submissions The papers were organized in four topical tracks on computer science foundations wireless mobile ad hoc and sensor networks database technologies and semantic Web technologies **Language and Automata Theory and Applications** Alberto Leporati, Carlos Martín-Vide, Dana Shapira, Claudio Zandron, 2020-02-25 This book constitutes the proceedings of the 14th International Conference on Language and Automata Theory and Applications LATA 2020 which was planned to be held in Milan Italy in March 2020 Due to the corona pandemic the actual conference was postponed and will be held together with LATA 2021 The 26 full papers presented in this volume were carefully reviewed and selected from 59 submissions They were organized in topical sections named algebraic structures automata complexity grammars languages trees and graphs and words and codes The book also contains 6 invited papers in full paper length *Algorithm Theory -- SWAT 2012* Fedor V. Fomin, Petteri Kaski, 2012-06-13 This book constitutes the refereed proceedings of the 13th International Scandinavian Symposium and Workshops on Algorithm Theory SWAT 2012 held in Helsinki Finland in July 2012 co located with the 23rd Annual Symposium on Combinatorial Pattern Matching CPM 2012 The 34 papers were carefully reviewed and selected from a total of 127 submissions The papers present original research and cover a wide range of topics in the field of design and analysis of algorithms and data structures *Algorithmic Aspects in Information and Management* Riccardo Dondi, Guillaume Fertin, Giancarlo Mauri, 2016-07-04 This volume constitutes the proceedings of the 11th International Conference on Algorithmic Aspects in Information and Management AAIM 2016 held in Bergamo Italy in July 2016 The 18 revised full papers presented were carefully reviewed and selected from 41 submissions The papers deal with current trends of research on algorithms data structures operation research combinatorial optimization and their applications

Algorithms and Complexity Josep Diaz, Tiziana Calamoneri, 2010-05-20 This book constitutes the refereed proceedings of the 7th International Conference on Algorithms and Computation CIAC 2010 held in Rome Italy in May 2010 The 30 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 114 submissions Among the topics addressed are graph algorithms I computational complexity graph coloring tree algorithms and tree decompositions computational geometry game theory graph algorithms II and string algorithms **SOFSEM ...** , 2006

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Table of Contents Total Domination In Graphs Springer Monographs In Mathematics

1. Understanding the eBook Total Domination In Graphs Springer Monographs In Mathematics
 - The Rise of Digital Reading Total Domination In Graphs Springer Monographs In Mathematics
 - Advantages of eBooks Over Traditional Books
2. Identifying Total Domination In Graphs Springer Monographs In Mathematics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Total Domination In Graphs Springer Monographs In Mathematics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Total Domination In Graphs Springer Monographs In Mathematics
 - Personalized Recommendations
 - Total Domination In Graphs Springer Monographs In Mathematics User Reviews and Ratings

- Total Domination In Graphs Springer Monographs In Mathematics and Bestseller Lists
- 5. Accessing Total Domination In Graphs Springer Monographs In Mathematics Free and Paid eBooks
 - Total Domination In Graphs Springer Monographs In Mathematics Public Domain eBooks
 - Total Domination In Graphs Springer Monographs In Mathematics eBook Subscription Services
 - Total Domination In Graphs Springer Monographs In Mathematics Budget-Friendly Options
- 6. Navigating Total Domination In Graphs Springer Monographs In Mathematics eBook Formats
 - ePub, PDF, MOBI, and More
 - Total Domination In Graphs Springer Monographs In Mathematics Compatibility with Devices
 - Total Domination In Graphs Springer Monographs In Mathematics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Total Domination In Graphs Springer Monographs In Mathematics
 - Highlighting and Note-Taking Total Domination In Graphs Springer Monographs In Mathematics
 - Interactive Elements Total Domination In Graphs Springer Monographs In Mathematics
- 8. Staying Engaged with Total Domination In Graphs Springer Monographs In Mathematics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Total Domination In Graphs Springer Monographs In Mathematics
- 9. Balancing eBooks and Physical Books Total Domination In Graphs Springer Monographs In Mathematics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Total Domination In Graphs Springer Monographs In Mathematics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Total Domination In Graphs Springer Monographs In Mathematics
 - Setting Reading Goals Total Domination In Graphs Springer Monographs In Mathematics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Total Domination In Graphs Springer Monographs In Mathematics
 - Fact-Checking eBook Content of Total Domination In Graphs Springer Monographs In Mathematics
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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