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Andrey O. Matveev



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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

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

Domination Games Played on Graphs Boštjan Brešar, Michael A. Henning, Sandi Klavžar, Douglas F. Rall, 2021-04-15 This concise monograph present 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 Bujt s 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 Bujt s 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

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 **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 Mathematical Reviews ,2003 *SOFSEM* ... ,2006 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 **Index of Mathematical Papers**, 1985 *Fundamentals of*

Domination in Graphs Teresa W. Haynes, Stephen Hedetniemi, Peter Slater, 2013-12-16 Provides the first comprehensive treatment of theoretical algorithmic and application aspects of domination in graphs discussing fundamental results and major research accomplishments in an easy to understand style Includes chapters on domination algorithms and NP completeness as well as frameworks for domination **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 **Ars Combinatoria**

, 2003 Combinatorics, Paul Erdős is Eighty Paul Erdős, 1993 **Fundamentals of Computation Theory**, 1999

Domination in Graphs: Core Concepts Teresa W. Haynes, Stephen T. Hedetniemi, Michael A. Henning, 2023 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

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