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Aug 10 2024

in graph theory a dominating set for a graph G is a subset D of its vertices such that any vertex of G is in D or has a neighbor in D the domination number $\gamma(G)$ is the number of vertices in a smallest dominating set for G

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provides a toolbox of proof techniques used in domination theory provides an in depth introduction and a valuable resource for domination in graphs focuses on three core concepts domination total domination and independent domination

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domination is an area in graph theory with an extensive research activity in 1998 a book 13 on domination has been published which lists 1222 papers in this area in general a dominating set in a graph is a set of vertices D such that each vertex is either in D or is adjacent to a vertex

in d

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May 07 2024

this edited volume presents advanced topics in graph domination featuring open problems surveys 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 more

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domination in graphs is one of the major areas of current research in graph theory the two volume book by haynes hedetniemi and slater 100 101 is a comprehensive reference work on graph domination

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recently haynes hedetniemi and henning published the book topics in domination in graphs which comprises 16 contributions that present advanced topics in graph domination featuring open problems

modern techniques and recent results

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in this chapter we present some of the basic results in domination recent developments and directions for further research one of the fastest growing areas within graph theory is the study of domination and related subset problems such as independence irredundance and matching

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nine variations of the concept of domination in a simple graph are identified as fundamental domination concepts and a unified approach is introduced for studying them for each variation the minimum cardinality of a subset of dominating elements is the corresponding fundamental domination number

optimal linear vizing relationships for total

domination in

Dec 02 2023

abstract a total dominating set in a graph G is a set of vertices of G such that every vertex is adjacent to a vertex of the set the total domination number $\gamma_t(G)$ is the minimum cardinality of a total dominating set in G in this paper we study the following open problem posed by yeo

domination in graph and some of its applications in various

Nov 01 2023

the concept of domination in graph introduced by claude berge in 1958 in a graph a dominating set is a subset S of the vertices such that every vertex is either in S or adjacent to a vertex in S historically the first domination type problems came from chess

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Sep 30 2023

the notion of domination topological index in graph was introduced by hanan et al 13 in 2021 motivated from this idea this article introduces a novel idea of a domination index using minimal

dominating sets consider a graph and a vertex v
the domination index is defined using a dominating
set containing v having the least cardinality

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Aug 30 2023

domination in graphs nawarat ananchuen
watcharaphong ananchuen and michael d plummer
abstract a set of vertices s in a graph G
dominates G if every vertex in G is either in s or
adjacent to a vertex in s the size of any smallest
dominating set is called the domination number of G
two variants on this concept that have attracted

on independent domination of regular graphs cho 2023

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the domination number of a graph G denoted $\gamma(G)$
 $\gamma(G)$ is the minimum size of a dominating set of
 G and the independent domination number of G
denoted $i(G)$ is the minimum size of a
dominating set of G that is also independent

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in computer science a node d of a control flow

graph dominates a node n if every path from the entry node to n must go through d notationally this is written as $d \text{ dom } n$ or sometimes $d \ n$

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domination this module implements methods related to the notion of domination in graphs and more precisely dominating set return a minimum distance k dominating set of the graph minimal dominating sets return an iterator over the minimal dominating sets of a graph

full article on domination in graphs taylor francis online

Apr 25 2023

abstract let $G = (V, E)$ be a graph and let \mathcal{F} be a family of subsets of V such that $\mathcal{F} \neq \emptyset$ a dominating set D of G is called an \mathcal{F} dominating set if $D \cap F \neq \emptyset$ for all $F \in \mathcal{F}$ the minimum cardinality of an \mathcal{F} dominating of G is called the \mathcal{F} domination number of G and is denoted by $\gamma_{\mathcal{F}}(G)$

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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

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this paper presents a quick review of results and applications concerning dominating sets in graphs the domatic number of a graph is defined and studied it is seen that the theory of domination resembles the well known theory of colorings of graphs

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in this paper the domination topology τ_d has been created from the set of minimal dominating sets of a graph G the family of all minimal dominating sets \mathcal{MDS} represents open sets in τ_d the \mathcal{MDS} intersection and \mathcal{MDS} union have been defined

power domination in graphs

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the power domination number $\gamma_p(G)$ of a graph G is the minimum cardinality of a power dominating set of G in this paper we present upper bounds on the power domination number for a connected graph with at least three vertices and a connected claw free cubic graph in terms of their order

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