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Journal of Graph Theory - Wiley Online Library
PARIPEX - INDIAN JOURNAL OF RESEARCH X 115. ABSTRACT. The paper concentrates on the domination in graphs with application In a graph $G = (V, E)$, $S ? V$ is a dominating set of G if every vertex is either in S or joined by an edge to some vertex in S. Many different types of domination have been researched extensively this paper explores applications of dominating sets. 2000 Mathematics Subject classification: 05C69, 05C99.

Domination in Graph with Application * Preeti Gupta
Generally, the following types of problems are considered in the field of domination in graphs: (1) to introduce new types of dominating models, (2) to determine bounds in terms of various graph parameters, (3) to obtain the exact domination number for some graphs or graph families, (4) to study the algorithmic and complexity results for particular dominating parameters, and (5) to characterize the graphs with certain dominating parameters.

Edge Domination in Some Path and Cycle

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Graphs have valued functions in the field of domination theory. This paper includes definitions and few fundamental results in the form of theorems and propositions. Prof. V R Kulli, Niranjan and Janakiram introduced a new class of intersection graphs in the field domination theory [1]. A graph G = (V,E) consists of a set V of vertices and set E of edges. Consider a simple graph as which contain

Theory of Edge Domination in Graphs-A Study

Journal of Graph Theory 94:3, 364-397. (2020) Improved deterministic distributed matching via rounding. Distributed Computing 33:3-4, 279-291. ... Bibliography on Domination in Graphs and Some Basic Definitions of Domination Parameters. Topics on Domination, 257-277.

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Total Domination in Graphs | Michael Henning | Springer
Justin Southey, Michael A. Henning, Domination versus independent domination in cubic graphs, Discrete Mathematics, 10.1016/j.disc.2012.01.003, 313, 11, (1212-1220), (2013). Crossref Qin Danyang, Ma Lin, Sha Xuejun, Xu Yubin, Realization of Route Reconstructing Scheme for Mobile Ad hoc Network, Innovations in Mobile Multimedia Communications and Applications, 10.4018/978-1-60960-563-6, (62-79 ...

Independent dominating sets and hamiltonian cycles ...
The Electronic Journal of Graph Theory and Applications (EJGTA) is a refereed journal devoted to all areas of modern graph theory together with applications to other fields of mathematics, computer science and other sciences. The journal is published by Faculty of Mathematics and Natural Sciences, Institut Teknologi Bandung (ITB) Indonesia, Indonesian Combinatorial Society (InaCombS), and GTA

Research Group, the University of Newcastle, Australia.

Electronic Journal of Graph Theory and Applications (EJGTA)
In a graph G(V, E), a dominating set is a set S ? V such that every vertex v ? V is either in S or adjacent to a vertex in S. Types Many different types of domination has been researched extensively. Some of them include: multiple domination: in which each vertex in V ? S be dominated by at least k vertices in S for any positive integer k.

domination_theory - Applications of Graph Theory
In graph theory, a dominating set for a graph G = is a subset D of V such that every vertex not in D is adjacent to at least one member of D. The domination number ? is the number of vertices in a smallest dominating set for G. The dominating set problem concerns testing whether ? ? K for a given graph G and input K; it is a classical NP-complete decision problem in computational complexity theory. Therefore it is believed that there may be no efficient algorithm that finds a smallest ...

Dominating set - Wikipedia
domination in graphs with its many variations is now well studied in graph theory (see [2] and [3]). is the minimum number of vertices (edges) in a vertex (edge) G. The notation is

the maximum cardinality of a vertex (edge) independent set in G. Let deg (v) is the degree of vertex v and as usual ? (G) (? (G)) is the minimum (maximum) degree.

A study of line graph theory towards line set domination

Abstract "Domination in graphs" is an area of graph theory that has received a lot of attention in recent years. It is reasonable to believe that "domination in graphs" has its origin in "chessboard domination."

Domination in Graphs | SpringerLink

Let G = (V, E) be a graph and u,v ? V. Then, u strongly dominates v if (i) uv ? E and (ii) deg (u) ? deg (v). A set D ? V is a strong-dominating set of G if every vertex in V – D is strongly dominated by at least one vertex in D. A set D ? V is an independent set if no two vertices of D are adjacent. The independent strong domination number is (G) of a graph G is the minimum cardinality of a strong dominating set which is independent.

Independent strong domination in complementary prisms ...

The independent strong domination number is(G) of a graph G is the minimum cardinality of a strong dominating set which is independent. Let ? be the complement of a graph G. The complementary prism G? of G is the graph formed from the disjoint union of G and ? by adding the edges of a perfect

matching between the corresponding vertices of G and ?.

Journal | Electronic Journal of Graph Theory and Applications
The journal is mainly devoted to the following topics in Graph Theory: colourings, partitions (general colourings), hereditary properties, independence and domination, structures in graphs (sets, paths, cycles, etc.), local properties, products of graphs as well as graph algorithms related to these topics. Why subscribe and read

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Abstract. Let $G = (V, E)$ be a finite undirected graph.An edge subset E? ? E is a dominating induced matching (d.i.m.) in G if every edge in E is intersected by exactly one edge of E?.The Dominating Induced Matching (DIM) problem asks for the existence of a d.i.m. in G.The DIM problem is ??-complete even for very restricted graph classes such

as planar bipartite graphs with maximum ...

Finding Dominating Induced Matchings in P9-Free Graphs in ...

A dominating set of a graph is a set of vertices of such that every vertex of is adjacent to some vertex of. The domination number is the minimum cardinality of a dominating set of. Further, the open neighbourhood of is the set. The closed neighbourhood of is the set.

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