

GLOBAL TALENT MANAGEMENT IN THE DIGITAL ERA

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CHROMATIC WEAKLY CONVEX DOMINATION OF SOME FAMILIES OF GRAPHS - II

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Abstract

Graph coloring deals with the fundamental problem of parationing a set of objects into classes, according to coronin rules. Time tabling, sequencing and scheduling problems are basically of this nature. The fundamental parameter in graph coloring is the chromatic number g(G) that is defined to be the minimum number of colors required to color the vertices of G in such a way that no two adjacent vertices of G receive the same color. For a comprehensive treatment of domination and its variations, refer to [3] and [4], and for more detailed survey on graph colorings and its variations one may refer to [2] and [6]. The concept of chromatic metally convex domination was introduced in [3]. Thus paper further extends the study by obtaining the Chromatic wealthy convex domination number of some families of graphs.

1. Introduction

By a graph G = (V, E) we mean a connected, finite, non-trivial, undirected graph with neither loops nor multiple edges. For graph theoretic terminology, we refer to Chartrand and Lewniak [1]. For $n \ge 4$, the wheel on n vertices, denoted by W_n is defined to be the graph $K_1 + C_{n-1}$. That is, a wheel W_n is obtained from a cycle C_{n-1} by adding a vertex, say v_n and joining it to all the vertices of the cycle C_{n-1} . Here the vertex v_n is called the central vertex of W_n . Note that K_n is isomorphic to W_n . By attaching an edge $u_n v_n$ at a vertex u_n of a graph G_n we mean that a new vertex v_n is added and is joined with u_n by an edge. The fan graph F_n can be constructed by joining n_n copies of the cycle graph C_n with a common vertex. F_n is a planar undirected graph with 2n+1 vertices and $3n_n$ edges. The Helm H_n is the graph obtained from a Wheel graph W_n by attaching a pendant edge at each vertex of the n-1-cycle. A snake triangle graph S_n with 2n+1 vertices is obtained from the path P_n by replacing each edge of the path by a cycle C_n . A hyper octahedral graph with $2n_n$ vertices is a graph with vertices $u_1, u_2, \dots, u_n, v_1, v_2, \dots, v_n$ where u_n and v_n are adjacent for $1 \le l, j \le n$, $l \ne j$, $P_n = u_n u_n u_n$, $u_n v_n v_n v_n$, are two paths. A crown graph with $2n_n$ vertices is a graph with vertices $u_n, u_n, v_n, v_n, v_n, \dots, v_n$ where u_n and v_n are adjacent for $1 \le l, j \le n$, $l \ne j$.

A set $D \subset V$ is said to be a dominating set of G if every vertex in V either belongs to D or is adjacent to a vertex in D. The domination number $\gamma(G)$ of G is the minimum cardinality of a dominating set of G. A dominating set D of a graph G is said to be a weakly convex dominating set of G d for every $u, v \in D$ there exists a u - v shortest path of G entirely contained in A weakly convex domination number $\gamma_{\infty}(G)$ of G is the minimum cardinality of a weakly convex dominating set of G. A coloring of a graph G is an assignment of colors to the vertices of G in such a way that no two adjacent vertices receive the same color. The minimum number of colors needed for coloring a graph G is called the chromatic number and is denoted by $\chi(G)$.

2. Chromatic weakly convex domination

Definition 2.1: A weakly convex dominating set D of a graph G is said to be a chromatic weakly convex dominating set of G if $\chi(G) = \chi(< D>)$. A chromatic weakly convex domination number $\gamma_{cov}(G)$ of G is the minimum cardinality of a chromatic weakly convex dominating set of G.