عنوان مقاله:

Dominated Coloring of Certain Graphs

نویسندگان:

Fatemeh Choopani - *Department of Mathematics, Ferdowsi University of Mashhad, Mashhad, Iran*

Abbas Jafarzadeh - *Department of Mathematics, Quchan University of Technology, Quchan, Iran*

Doost Ali Mojdeh - *Department of Mathematics, University of Mazandaran, Babolsar, Iran*

خلاصه مقاله:

A proper coloring of a graph G is called a dominated coloring whenever each color class is dominated by at least one vertex. The minimum number of colors among all dominated colorings of G is called its dominated chromatic number, denoted by χdom(G). We define a parameter related to dominated coloring, namely dominated chromatic covering. For a minimum dominated coloring of G, a set of vertices S is called a dominated chromatic covering if each color class is dominated by a vertex of S. The minimum cardinality of a dominated chromatic covering of G is called its dominated chromatic covering number, denoted by θχdom(G) . It is clear that θχdom(G) ≤ χdom(G). In this paper, we obtain the dominated chromatic number and θχdom(G) when G is middle and total graph of paths and cycles.

کلمات کلیدی:

Dominated coloring, dominated chromatic covering, dominated chromatic covering number

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1559775