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PSEUDO d -ACHROMATIC NUMBER OF A GRAPH

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Abstract

In this paper we extend the notion of pseudo achromatic number in the context of (k, d) -coloring and introduce the concept of pseudo d -achromatic number $\psi_s^d(G)$ of a graph G . We discuss the concepts of edge critical, vertex critical and contraction critical graphs with respect to the pseudo d -achromatic number. We obtain a characterization of k -edge d -critical graphs and determine the pseudo d -achromatic number of cycles and paths. We also obtain bounds on the maximum degree and the number of vertices of a k -edge d -critical graph.

Key Words : *Star chromatic number, Pseudo complete d -coloring, Pseudo d -achromatic number.*
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