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ISOMORPHIC DEGREE SPLITTING GRAPHS(Article)(Open Access)

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Abstract

Let $G(V, E)$ be a graph and let V_i denote the set of all vertices of degree i. The degree splitting graph $DS(G)$ of G is obtained from G, by adding a new vertex w_i for each partition V_i such that $|V_i| \geq 2$ and joining w_i to each vertex of V_i. In this paper, we characterise graphs for which degree splitting graphs are trees or unicyclic. We develop an algorithm to check whether the given graph is a degree splitting graph of a graph. Also we establish some necessary conditions for the existence of non isomorphic graphs to have isomorphic degree splitting graph. 2010 Mathematics Subject Classification. 05C78. © 2020 Asia Pacific Journal of Mathematics

Author keywords

co - splitting graph   degree splitting graph   k - regular adjacency graph   k - regular adjacency vertex   Splitting graph

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