A NOTE ON PM-COMPACT BIPARTITE GRAPHS

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Abstract

A graph is called perfect matching compact (briefly, PM-compact), if its perfect matching graph is complete. Matching-covered PM-compact bipartite graphs have been characterized. In this paper, we show that any PM-compact bipartite graph $G$ with $\delta(G) \geq 2$ has an ear decomposition such that each graph in the decomposition sequence is also PM-compact, which implies that $G$ is matching-covered.

Keywords: perfect matching, PM-compact graph, matching-covered graph.

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References


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