عنوان مقاله:

0n removable cycles in graphs and digraphs

نویسنده:

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خلاصه مقاله:

In this paper we define the removable cycle that, if Im is a class of graphs, $G in Im$, the cycle C in G is called removable if $G-E(C) in Im$. The removable cycles in Eulerian graphs have been studied. We characterize Eulerian graphs which contain two edge-disjoint removable cycles, and the necessary and sufficient conditions for Eulerian graph to have removable cycles have been introduced. Further, the even and odd removable cycles in Eulerian graphs have also been studied. The necessary and sufficient conditions for regular graphs (digraphs) to have a removable cycles have been characterized. We also define, the removable cycle class.

کلمات کلیدی:

Removable cycle, Connected graph, Eulerian graph

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