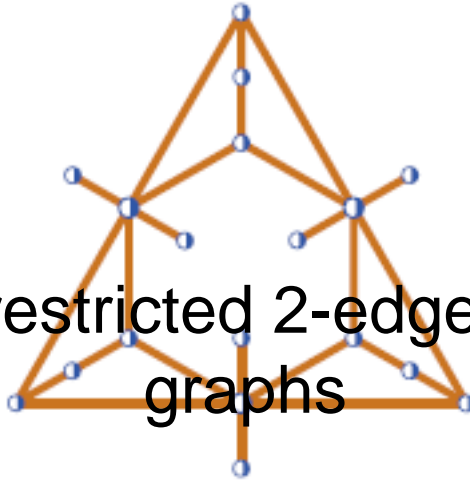


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Minimally restricted 2-edge connected graphs



Content :

For a connected graph G an edge set S is a restricted edge cut if $G-S$ is disconnected and there is no isolated vertices in $G-S$. The number of edges in a restricted edge cut of minimum cardinality is known as the restricted edge connectivity of G , denoted by $\lambda'(G)$. A restricted edge connected graph is minimally restricted 2-edge connected if $\lambda'(G) = 2$ and $\lambda'(G-e) = 1$, for every edge $e \in E(G)$. In this work we study some structural properties of minimally restricted 2-edge connected graphs. Moreover, we give a necessary and sufficient condition for a λ' -connected graph G with vertex connectivity $\kappa(G)=2$ to be minimally restricted 2-edge connected.

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