

عنوان مقاله:

A new construction for vertex decomposable graphs

محل انتشار:

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خلاصه مقاله:

Let G be a finite simple graph on the vertex set $V(G)$ and let $S \subseteq V(G)$. Adding a whisker to G at x means adding a new vertex y and edge xy to G where $x \in V(G)$. The graph $G \cup W(S)$ is obtained from G by adding a whisker to every vertex of S . We prove that if $G \setminus S$ is either a graph with no chordless cycle of length other than 3 or 5, chordal graph or C_5 , then $G \cup W(S)$ is a vertex decomposable graph.

کلمات کلیدی:

vertex decomposable, shellable, Cohen-Macaulay

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