CUBIC GRAPHS WITH TOTAL DOMATIC NUMBER
AT LEAST TWO

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Abstract

Let $G$ be a graph with no isolated vertex. A total dominating set of $G$ is a set $S$ of vertices of $G$ such that every vertex is adjacent to at least one vertex in $S$. The total domatic number of a graph is the maximum number of total dominating sets which partition the vertex set of $G$. In this paper we provide a criterion under which a cubic graph has total domatic number at least two.

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References

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