Abstract

In a graph $G = (V,E)$, a set $M \subseteq V$ is called a monopoly set of $G$ if every vertex $v \in V - M$ has at least $d(v)/2$ neighbors in $M$. The monopoly size $mo(G)$ of $G$ is the minimum cardinality of a monopoly set among all monopoly sets in $G$. In this paper, the minimum monopoly distance energy $E_{Md}$
The Minimum Monopoly Distance Energy of a Graph

\((G)\) of a connected graph

\(G\)
is introduced and minimum monopoly distance energies of some standard graphs are computed. Some properties of the characteristic polynomial of the minimum monopoly distance matrix of \(G\) are obtained. Finally. Upper and lower bounds for

\(E_{Md}(G)\)

are established.

References

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Index Terms

Computer Science  Applied Mathematics

Keywords

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