New upper bounds for the forgotten index among bicyclic graphs

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Abstract

The forgotten topological index of a graph G, denoted by $F(G)$, is defined as the sum of weights $d(u)^{2}+d(v)^{2}$ over all edges uv of G, where $d(u)$ denotes the degree of a vertex u. In this paper, we give sharp upper bounds of the F-index (forgotten topological index) over bicyclic graphs, in terms of the order and maximum degree.

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