Modified eccentric connectivity polynomial of some graph operations

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Abstract.

The modified eccentricity connectivity polynomial of a connected graph G is defined as

$$\Xi(G;x) = \sum_{u \in V(G)} d_G(u) x^{\varepsilon'_G(u)},$$

where $\varepsilon'_G(u) = \sum_{v \in N_G(u)} \varepsilon_G(v)$ and $d_G(u)$ is the degree of u in G. In this paper modified eccentric connectivity polynomial is computed for several classes of composite graphs.

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