

On computation of some distance-based topological indices of circulant networks

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Abstract

The distance, $d(u, v)$, between two vertices u and v of a connected graph G is the length of a $u - v$ geodesic in G . A large number of graph-distance-based topological indices in various families of graphs and networks have been computed. In this paper, we consider circulant networks and compute three distance-based topological indices, namely the Wiener index, hyper-Wiener index and Schultz molecular topological index on these networks.

Keywords: Wiener index, hyper-Wiener index and Schultz index, circulant network.

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