

Topological Indices of Some Graph Operations

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Abstract : Let G be a graph with a finite, nonempty set of objects called vertices together with a set of unordered pairs of distinct vertices called edges. The vertex set is denoted by $V(G)$ and the edge set by $E(G)$. Given two graphs G and H and the Wiener index of G , the Wiener index for the splitting graph of G , the first Zagreb index of G and its splitting graph, the 3-Steiner Wiener index of G , the 3-Steiner Wiener index of a special graph are explored in this paper.

Keywords : complementary prism graph, first Zagreb index, neighborhood corona graph, Steiner distance, splitting graph, Steiner Wiener index, Wiener index

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