عنوان مقاله:

Steiner Wiener index of graph products

محل انتشار:

فصلنامه معادلات در تركيبات, دوره 5, شماره 3 (سال: 1395)

تعداد صفحات اصل مقاله: 12

نویسندگان:

Yaoping Mao - Department of Mathematics, Qinghai Normal University

Zhao Wang - School of Mathematical Sciences, Beijing Normal Universit

Ivan Gutman - University of Kragujevac Kragujevac, Serbia

خلاصه مقاله:

The Wiener index W(G) of a connected graph G is defined as W(G)=\sum_{u,v\in V(G)}d_G(u,v) where d_G(u,v) is the distance between the vertices u and v of G. For S\subseteq V(G), the Steiner distance d(S) of the vertices of S is the minimum size of a connected subgraph of G whose vertex set is S. The k-th Steiner Wiener index SW_k(G) of G is defined as SW_k(G)=\sum_{vertex} vertex S\subseteq V(G)\{|S|=k\} d(S). We establish expressions for the k-th Steiner . Wiener index on the join, corona, cluster, lexicographical product, and Cartesian product of graphs

کلمات کلیدی:

(Distance (in graph), Steiner distance (in graph), Steiner Wiener index, product (of graphs

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1319369

