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## Variable Wiener indices of thorn graphs

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## Abstract

Let  $G$  be a connected graph on  $n$  vertices. For an edge  $e = uv$ ,  $n_{G,1}$  denotes the number of vertices closer to the vertex  $u$  than vertex  $v$  and  $n_{G,2}$  denotes the number of vertices closer to the vertex  $v$  than vertex  $u$ . Recently Vukičević and Žerovnik put forward a class of modified Wiener indices - the  $\lambda$ -variable Wiener indices, defined as  $\lambda W(G) = 1/2 \sum_{e \in E(G)} (n^\lambda - n_{G,1}(e)^\lambda - n_{G,2}(e)^\lambda)$ . For a type of thorn trees  $T^*$ , an explicit formula is given to calculate  $k W(T^*)$  in terms of the  $i$ -variable Wiener indices of the parent tree  $T$  for any non-negative integer  $k$  with  $0 \leq i \leq k$ .

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Volume 56, Issue 2, 2006, Pages 375-382

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