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The Wiener index, denoted (Wiener 1947)  
and also known as the "path number" or  
Wiener number (Plavšić et al. 1993), is a  
graph index defined for a graph on nodes



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by. where is the graph distance matrix .

Unless otherwise stated, hydrogen atoms are usually ignored in the computation of such indices as organic chemists usually do when they write a benzene ring as a hexagon (Devillers and Balaban 1999, p. 25).

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Wiener Index -- from Wolfram  
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In chemical graph theory, the Wiener index (also Wiener number) introduced by Harry Wiener, is a topological index of a molecule, defined as the sum of the lengths of the shortest paths between all pairs of vertices in the chemical graph

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representing the non-hydrogen atoms in the molecule.

Wiener index - Wikipedia

The Wiener index  $W(G)$  of a connected graph  $G$ , introduced by Wiener in 1947, is defined as  $W(G) = \sum_{u,v} d(u,v)$  where  $d(u,v)$  is the distance between vertices  $u$  and

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The Wiener index of a graph  $G$ , denoted by  $W(G)$  is the sum of the distances between all (unordered) pairs of vertices of  $G$ . In this paper, we obtain the Wiener

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On the Wiener index of a graph |  
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The Wiener index of a graph  $G=(V,E)$ , denoted by  $W(G)$ , was introduced in 1947 by chemist Harold Wiener as the sum of distances between all vertices of  $G$ :  
 $W(G)=\sum_{\{u,v\}\subseteq V(G)}d(u,v)$ . The first and the second Zagreb indices were introduced more than thirty years ago by Gutman and Trinajestic.

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Wiener index of some graph operations -  
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The Wiener index of the graph  $G$ , denoted by  $W = W(G)$ , is the sum of distances between all pairs of vertices of  $G$ . The Wiener index of graphs has been studied in much detail (see the reviews , , , the



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recent papers, , , , , , , and the references cited therein). Yet, Wiener indices of Eulerian graphs seem to have evaded the attention of scholars.

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The Wiener index of a connected graph is

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the sum of the distance of all pairs of distinct vertices. It was introduced by Wiener in 1947 to analyze some aspects of branching by fitting experimental data for several properties of alkane compounds. Denote by  $\mathcal{U}(n, r)$  the set of unicyclic graphs with  $n$  vertices and  $r$  vertices of even degree.

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Wiener index of unicycle graphs with  
given number of even ...

The Wiener index is a topological index of  
a molecular graph, defined as the sum of  
distances between all pairs of its vertices.

Benzenoid graphs include molecular  
graphs of polycyclic aromatic

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hydrocarbons. An edge thorny graph  $G$  is constructed from a catacondensed benzenoid graph  $H$  by attaching new graphs to edges of a perfect matching of  $H$ .

Wiener Index of Edge Thorny Graphs of  
Catacondensed Benzenoids

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The Wiener index of a connected graph  $G$  is the sum of distances between all pairs of vertices of  $G$ . We characterize Eulerian graphs (with a fixed number of vertices) with smallest and greatest Wiener indices.

Wiener index of Eulerian graphs | Discrete  
Applied Mathematics

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$n^2$  is equal to its Wiener index, which is a sum of distances between all pairs of vertices.

## ON THE WIENER INDEX AND LAPLACIAN COEFFICIENTS OF GRAPHS ...

The Wiener index is a well-known

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Chemical Applications  
distance-based topological index

introduced as structural descriptor for acyclic organic molecules [ 17 ]. It is defined as the sum of distances between all unordered pairs of vertices of a simple graph  $G$ , i.e.,  $W(G) = \sum_{\{u,v\} \subseteq V(G)}$

$$d(u,v) = \frac{1}{2} \sum_{v \in V(G)} d_G(v).$$

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Wiener Index of Graphs and Their Line  
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The Wiener index (or Wiener number)  
[18] of a graph  $G$ , denoted by  $W(G)$  is the  
sum of the distances between all  
(unordered) pairs of vertices of  $G$ , that is  
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ON THE WIENER INDEX OF A  
GRAPH - [researchgate.net](http://researchgate.net)

Wiener index. The Wiener index of a vertex is the sum of the shortest path distances between  $v$  and all other vertices. The Wiener index of a graph  $G$  is the sum of the shortest path distances over all pairs

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Index Of A Graph And  
of vertices. Used by mathematical  
chemists (vertices = atoms, edges =  
bonds). Random walk.

#### 4.1 Undirected Graphs - Princeton University

The Wiener index of a graph, denoted by,  
is one of the oldest topological indexes,

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which was first introduced by Wiener in 1947. It is defined as where the summation goes over all pairs of vertices of. The hyper-Wiener index of acyclic graphs was introduced by Randić in 1993.

The Hyper-Wiener Index of Trees of  
Order with Diameter

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**Abstract** In this short paper, we show that, with three exceptions, if the Wiener index of a connected graph of order  $n$  is at most  $(n + 5)(n - 2) / 2$ , then it is traceable.

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**WIENER INDEX AND TRACEABLE**

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GRAPHS | Bulletin of the ...

The Wiener index of a graph  $G$  is equal to the sum of distances between all pairs of vertices of  $G$ , It is known that the Wiener index of a molecular graph correlates with certain physical and chemical properties of a molecule.

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How to compute the Wiener index of a graph

The Hosoya index is the first topological index recognized in chemical graph theory, and it is often referred to as "the" topological index. Other examples include the Wiener index, Randić's molecular connectivity index, Balaban's  $J$  index, and

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