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Degree-Based Topological Indices

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Abstract

The degree of a vertex of a molecular graph is the number of first neighbors of this vertex. A large number of molecular-graph-based structure descriptors (topological indices) have been conceived, depending on vertex degrees. We summarize their main properties, and provide a critical comparative study thereof.

Keywords

Author Keywords: topological index; molecular structure descriptor; vertex-degree-based topological index; molecular graph; chemical graph theory

KeyWords Plus: ATOM-BOND CONNECTIVITY; VARIABLE ZAGREB INDEXES; GENERAL RANDIC INDEX; MINIMAL ABC INDEX; MOLECULAR-STRUCTURE DESCRIPTORS; GEOMETRIC-ARITHMETIC INDEXES; NARUMI-KATAYAMA INDEX; BICYCLIC GRAPHS; UNICYCLIC GRAPHS; **BENZENOID SYSTEMS**

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