Advances in Mathematical Chemistry and Applications (Volume 1)

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About the eBook

Advances in Mathematical Chemistry and Applications highlights the emerging discipline of discrete mathematical chemistry. The eBook include chapters on mathematical structural descriptors of molecules and biomolecules, topological representation of molecular structure, connectivity matrices, use of weighted 2D Fingerprints in similarity-based virtual screening and much more.

Contents

- Mathematical Structural Descriptors of Molecules and Biomolecules: Background and Applications
- Ordering Thinking in Chemistry
- On the Concept for Overall Topological Representation of Molecular Structure
- The Four Connectivity Matrices, Their Indices, Polynomials and Spectra
- The Use of Weighted 2D Fingerprints in Similarity-Based Virtual Screening
- MOLGEN 5.0, A Molecular Structure Generator
- On Comparability Graphs: Theory and Applications
- Basic Concepts and Applications of Molecular Topology to Drug Design
- Conceptual Density Functional Theory of Chemical Reactivity

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