

# The Geometry of Higher-Dimensional Polytopes

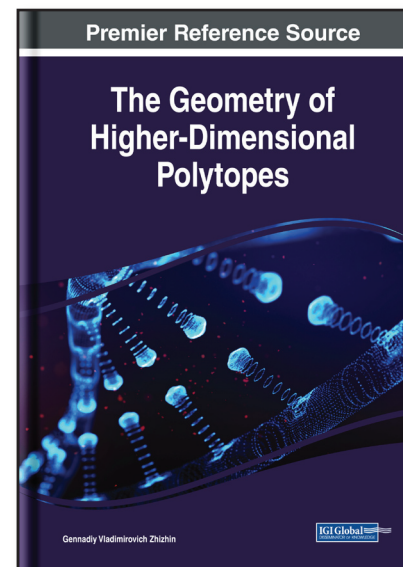
Part of the Advances in Chemical and Materials Engineering Book Series

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## Description:

The majority of the chemical elements form chemical compounds with molecules of higher dimension (i.e., substantially exceeding three). This fact is very important for the analysis of molecular interactions in various areas: nanomedicine, nanotoxicology, and quantum biology.

**The Geometry of Higher-Dimensional Polytopes** contains innovative research on the methods and applications of the structures of binary compounds. It explores the study of geometry polytopes from a higher-dimensional perspective, taking into account the features of polytopes that are models of chemical compounds. While highlighting topics including chemical compounds, symmetry transformation, and DNA structures, this book is ideally designed for researchers, academicians, and students seeking current research on dimensions present in binary compounds.



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## Topics Covered:

- Binary Compounds
- Boundary Complex
- Chemical Compounds
- DNA Structures
- Fluctuating Scaling
- N-Cross Polytope
- Polytopic Prismahedron
- Symmetry Transformation

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