



Diamondoid Molecules: With Applications in Biomedicine, Materials Science, Nanotechnology & Petroleum Science

G Ali Mansoori, Patricia Lopes Barros de Araujo, Elmo Silvano de Araujo

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Diamondoids are cage-like, ultra stable, saturated ringed hydrocarbons, which have a diamond-like structure consisting of a number of six-member carbon rings fused together. Adamantane is the cage compound prototype and the simplest diamondoid molecule. *Diamondoids Molecules* aims to present these fascinating substances in a novel fashion. The more intriguing facets of diamondoid molecules are comprehensively exposed and discussed, bringing state-of-the-art information to the reader, along with the history, fundamentals and perspectives of diamondoid science and technology.

This groundbreaking book, especially devoted to diamondoid molecules, is of critical importance to the global techno-scientific community, and will be of great interest in many research fields such as chemistry, physics, material science, geology, and biological sciences. Moreover, it will attract readers from industrial, government and environmental agencies as well as scholars.

Contents:

- Molecular Structure and Chemistry of Diamondoids
- Diamondoids in Petroleum and Other Fossil Fuels
- Physical Properties of Diamondoids
- Diamondoids as Nanoscale Building Blocks
- Properties of Diamondoids Through Quantum Calculations
- Biomedical Applications of Diamondoids
- Diamondoids in Materials Science

Readership: Advanced undergraduate and graduate students, biologists, chemists, materials scientists, medical doctors, pharmacists and physicists interested in nanotechnology and the related disciplines of drug discovery, design of new materials, polymer science, etc.

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