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DETERMINISTIC MODELING OF THE LATTICE OF HEXAGONAL DIAMOND. I

The existing models of the crystal lattice of hexagonal diamond based on Bravais unit cells and tetrahedrons are considered. The concept of cube-generator is introduced. Calculated are the ort and spacing of a cube network, potentially allowing to describe the cube-generator structure using a cubic matrix.

Keywords: compact matrix method, hexagonal crystal lattice, hexagonal syngony, hexagonal diamond, unit cell.

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