Informatika i sistemy upravleniya. – 2019. – No. 4(62). – P. 45-57.

Fomin D.V. (gefest-uni@yandex.ru)

Amur state university

DETERMINISTIC MODELING OF THE CRYSTAL STRUCTURE OF HEXAGONAL DIAMOND. III

The package of application programs “Research of the simplest hexagonal crystal structure ‘Orangereya’” is described. The software allows modeling and visualization of the corresponding crystal lattice and selected cubic coordination layer. It also allows you to automate the creation of compact matrix descriptions as well as calculations of the density coefficient of the examined structure “packing”.

Keywords: compact matrix description, hexagonal crystal lattice, hexagonal syngony, hexagonal diamond, cube-generator, coordination layer, close-packing of equal spheres.

DOI: 10.22250/isu.2019.62.45-57

For citation:

Fomin D.V. DETERMINISTIC MODELING OF THE CRYSTAL STRUCTURE OF HEXAGONAL DIAMOND. III // Informatika i sistemy upravleniya. – 2019. – No. 4(62). – P. 45-57.