

Ontological modeling as a means of integration data on substances and materials properties

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Abstract

We consider features of object domain "Substances and materials properties" treated as a testing area for development of approaches to the integrity of science DB. Specific examples illustrate capabilities of the ontological modeling for the semantic integration of numerical data. A general sketch of the ontology is proposed for thermodynamic data of pure compounds.

Key words: ontological modeling, formalization of the domain, numerical integration of the data, the thermodynamic properties of the substance.

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