

THE DYNAMIC SYMMETRY OF A MODEL
SYSTEM OF TWO MOLECULES

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S u m m a r y

This work is devoted to the research of the dynamic symmetry for a model mechanical system of two identical spherical bodies relative to orthogonal transformations. The mechanical energy symmetry to the action of the reflection operator of a state vector is considered. For the model mechanism of the momentum and angular momentum exchange between the hard rough spheres, an explicit mathematical expression for the reflection operator is found.