



## Rotation Group

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By Lambert M. Surhone

Betascript Publishers Dez 2009, 2009. Taschenbuch. Book Condition: Neu. 220x150x6 mm. Neuware - Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. In mechanics and geometry, the rotation group is the group of all rotations about the origin of three-dimensional Euclidean space  $\mathbb{R}^3$  under the operation of composition. By definition, a rotation about the origin is a linear transformation that preserves length of vectors (it is an isometry) and preserves orientation (i.e. handedness) of space. A length-preserving transformation which reverses orientation is called an improper rotation. Every improper rotation of three-dimensional Euclidean space is a reflection in a plane through the origin. 100 pp. Englisch.



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