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References

References [1] Simon L Altmann, Rotations, Quaternions, and Double Groups, Oxford University Press, Oxford, 1986 [2] WW Rouse Ball and HSM Coxeter, Mathematical

Quaternions - Iowa State University

axis and angle Furthermore, to compose two rotations, we need to compute the product of the two corresponding matrices, which requires twenty-seven multiplications and eighteen additions Quaternions are very efficient for analyzing situations where rotations in R^3 are involved A

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Spatial Pythagorean hodographs, quaternions, Rotations, Quaternions, and Double Groups, Clarendon Press, Oxford — authoritative modern source • P Du Val (1964), Homographies, Quaternions, and Rotations, Clarendon Press, Oxford — authoritative modern source • J Roe (1993), Elementary Geometry, Oxford University Press

Quaternions in Classical Mechanics - Stahlke

of $SO(3)$, the group of 3 dimensional rotations⁷ As such they are useful for representing rotations in both quantum and classical mechanics Under these isomorphisms the quaternion multiplication operation corresponds to the composition operation of rotations 1 S L Altmann, Rotations, Quaternions, and Double Groups, 1986, page 201 2 Altmann

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tation of the subject of spatial rotations, Visualizing Quaternions, by virtue of focusing on quaternions, is able to present the material in a modern and accessible fashion that is very appealing Additional historical accounts of Rotations, Quaternions, and Double Groups New York: Dover, 2005 (reprint)

The Culture of Quaternions

- Quaternions came from Hamilton after his really good work had been done, and though beautifully ingenious, have been an unmixed evil to those who touched them in any way, including Clerk Maxwell (Lord Kelvin, 1892, Letter to Heyward) Quoted by Simon Altmann in Rotations, Quaternions, Double ...