

Rigid Body Dynamics Using Clifford Algebra

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Abstract. In this paper the dynamics of rigid bodies is recast into a Clifford algebra formalism. Specifically, the algebra $Cl(0, 6, 2)$, is used and it is shown how velocities, momenta and inertias can be represented by elements of this algebra. The equations of motion for a rigid body are simply derived by differentiating the momentum of the body.

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