

The Collision Framework Gimbals Of The Gyroscope

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The theoretical and simulated collision process framework gimbals of the gyroscope by rotating basis with a constant angular velocity. We de-rive a formula to measure the force acting on the stop. Shown them satisfactorily converge with the simulation results. Recommendations to reduce the impact force and its influence on the strength of stops.

Keywords: *gyroscope on gimbals, the collision of frames, dynamics, durability, modeling*