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Rigid body dynamics - Wikipedia

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Rigid bodies and kinematic constraints are the basic components of mechanisms. A constrained rigid body system can be a kinematic chain, a mechanism, a structure, or none of these. The influence of kinematic constraints in the motion of rigid bodies has two intrinsic aspects, which are the geometrical and physical aspects.

Chapter 4. Basic Kinematics of Constrained Rigid Bodies

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addition to translating . This general branch of physics is called ‘Rigid Body Dynamics.’ Rigid body dynamics has many applications. In vehicle dynamics, we are often more worried about controlling the orientation of our vehicle than its path - an aircraft must keep its shiny side up, and we don’t want a spacecraft tumbling uncontrollably. mechanics is used extensively to design power Rigid body

Chapter 6 Rigid Body Dynamics - Brown University

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