

A concise Introduction to mechanics of rigid bodies: multidisciplinary engineering

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Abstrak

Statics and dynamics of rigid bodies presents an interdisciplinary approach to mechanical engineering through a close evaluation of the statics and dynamics of rigid bodies, presenting a concise introduction to both. This volume bridges the gap of interdisciplinary published texts linking fields like mechatronics and robotics with multi-body dynamics in order to provide readers with a clear path to understanding numerous sub-fields of mechanical engineering. Three-dimensional kinematics, rigid bodies in planar spaces and numerous vector and matrix operations are presented in order to provide a comprehensive understanding of mechanics through dynamics and rigid bodies.