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This book highlights an  
analytical solution for the  
dynamics of axially rotating  
objects. It also presents the  
theory of gyroscopic effects,

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explaining their physics and using mathematical models of Euler's form for the motion of movable spinning objects to demonstrate these effects. The major themes and approaches are represented by the

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spinning disc and the action of the system of interrelated inertial torques generated by the centrifugal and Coriolis forces, as well as the change in the angular momentum. The interrelation of inertial torques

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is based on the dependency of the angular velocities of the motions of the spinning objects around axes by the principle of mechanical energy conservation. These kinetically interrelated torques

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constitute the fundamental principles of the mechanical gyroscope theory that can be used for any rotating objects of different designs, like rings, cones, spheres, paraboloids, propellers, etc. Lastly, the

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mathematical models for the  
gyroscopic effects are  
validated by practical tests.  
The 2nd edition became  
necessary due to new  
development and corrections  
of mathematical expressions:



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It contains new chapters about the Tippe top inversion and inversion of the spinning object in an orbital flight and the boomerang aerodynamics.