



Advanced Dynamics: Rigid Body, Multibody, and Aerospace Applications

Reza N. Jazar

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A thorough understanding of rigid body dynamics as it relates to modern mechanical and aerospace systems requires engineers to be well versed in a variety of disciplines. This book offers an all-encompassing view by interconnecting a multitude of key areas in the study of rigid body dynamics, including classical mechanics, spacecraft dynamics, and multibody dynamics. In a clear, straightforward style ideal for learners at any level, *Advanced Dynamics* builds a solid fundamental base by first providing an in-depth review of kinematics and basic dynamics before ultimately moving forward to tackle advanced subject areas such as rigid body and Lagrangian dynamics. In addition, *Advanced Dynamics*:

- Is the only book that bridges the gap between rigid body, multibody, and spacecraft dynamics for graduate students and specialists in mechanical and aerospace engineering
- Contains coverage of special applications that highlight the different aspects of dynamics and enhances understanding of advanced systems across all related disciplines
- Presents material using the author's own theory of differentiation in different coordinate frames, which allows for better understanding and application by students and professionals

Both a refresher and a professional resource, *Advanced Dynamics* leads readers on a rewarding educational journey that will allow them to expand the scope of their engineering acumen as they apply a wide range of applications across many different engineering disciplines.

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