



# A Concise Introduction to Mechanics of Rigid Bodies: Multidisciplinary Engineering

By L. Huang

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## **A Concise Introduction to Mechanics of Rigid Bodies: Multidisciplinary Engineering** By L. Huang

*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.

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## **A Concise Introduction to Mechanics of Rigid Bodies: Multidisciplinary Engineering** By L. Huang **Bibliography**

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### **Editorial Review**

From the Back Cover

*A Concise Introduction to Mechanics of Rigid Bodies: Multidisciplinary Engineering* presents concise, key concepts of kinematics and dynamics of rigid bodies. This compact volume bridges the steep gap between introductory texts on engineering mechanics, which focus on one and two dimensional motions of particles and rigid bodies, and advanced texts on multi-body dynamics in high dimension spaces found in multidisciplinary areas like mechatronics, robotics and biomechanics. In the book, rigid body motions in the spaces with different dimensions are described in addition to studies in a uniform framework supported by vector and matrix operations. Rigorous mathematic tools and explanations are provided to clarify the most complex concepts. This book also:

- Provides practical examples from different engineering areas, offering a link between theoretical fundamentals and everyday applications
- Offers simplified mathematical equations to clearly present essential theories in robotics and mechanics
- Presents statics and dynamics together in one comprehensive volume, giving readers a more balanced understanding of their relationship

*A Concise Introduction to Mechanics of Rigid Bodies: Multidisciplinary Engineering* is an ideal book for undergraduate and graduate students in multidisciplinary engineering who want to master fundamentals of mechanics of rigid body in a limited time. It is also suitable for students in mechanical engineering as well as engineers and researchers who are interested in rigid body dynamics.

### **Users Review**

**From reader reviews:**

**Jimmy Torres:**

Do you have favorite book? If you have, what is your favorite's book? Reserve is very important thing for us to know everything in the world. Each publication has different aim or even goal; it means that guide has different type. Some people truly feel enjoy to spend their time to read a book. These are reading whatever they get because their hobby will be reading a book. How about the person who don't like looking at a book? Sometime, particular person feel need book when they found difficult problem or even exercise. Well, probably you will require this *A Concise Introduction to Mechanics of Rigid Bodies: Multidisciplinary Engineering*.

**Jasmine Myers:**

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book. It is really fun for you. If you enjoy the book that you read you can spend 24 hours a day to reading a guide. The book *A Concise Introduction to Mechanics of Rigid Bodies: Multidisciplinary Engineering* it doesn't matter what good to read. There are a lot of people who recommended this book. These were enjoying reading this book. In case you did not have enough space to deliver this book you can buy often the e-book. You can more very easily to read this book out of your smart phone. The price is not to cover but this book provides high quality.

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