Advances In Computational Multibody Systems: A Computational Methods In Applied Mechanics

Advances in Computational Multibody Systems (Computational Methods in Applied Sciences Book 2)

by Jorge A.C. Ambrósio

★★★★★ 5 out of 5

Language	: English
File size	: 6492 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Print length	: 378 pages

Computational multibody systems (MBSs) are a powerful tool for simulating the behavior of complex mechanical systems, such as those found in robotics, aerospace, and automotive engineering. MBSs use computer models to represent the system's components and their interactions, and can be used to predict system performance, design new systems, and troubleshoot existing ones.

The field of computational MBSs has seen significant advances in recent years, thanks to the development of new numerical methods and algorithms, as well as the increasing power of computers. This has led to a wider range of applications for MBSs, and has made them an essential tool for engineers in many different industries.

Contents

This book provides a comprehensive overview of the field of computational MBSs, covering the following topics:

* to MBSs * Rigid body dynamics * Flexible body dynamics * Impact dynamics * Control systems * Optimization techniques * Computer simulation

Each chapter is written by a leading expert in the field, and provides a detailed overview of the topic, as well as a comprehensive list of references.

Audience

This book is intended for engineers who want to learn about the field of computational MBSs. It is also a valuable resource for researchers in the field, as it provides a comprehensive overview of the latest developments.

Benefits

This book provides the following benefits:

* A comprehensive overview of the field of computational MBSs * Detailed explanations of the latest numerical methods and algorithms * A wide range of applications for MBSs * A valuable resource for engineers and researchers

This book is a valuable resource for anyone who wants to learn about the field of computational MBSs. It provides a comprehensive overview of the latest developments in the field, and is filled with detailed explanations and examples.

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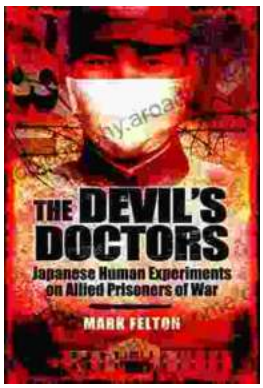

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