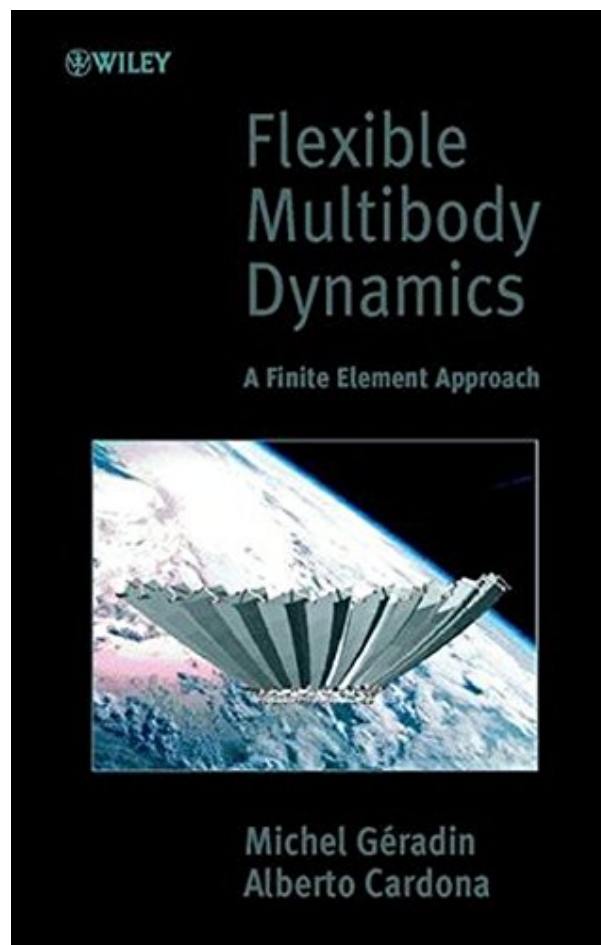


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Flexible Multibody Dynamics

A Finite Element Approach



Michel Géradin
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Review

"a competent offering" (The Aeronautical Journal, November 2001)

From the Back Cover

Flexible Multibody Dynamics comprehensively describes the numerical modelling of flexible multibody dynamics systems in space and aircraft structures, vehicles, and mechanical systems. A rigorous approach is followed to handle finite rotations in 3D, with a thorough discussion of the different alternatives for parametrization. Modelling of flexible bodies is treated following the Finite Element technique, a novel aspect in multibody systems simulation.

Moreover, this book provides extensive coverage of the formulation of a general purpose software for flexible multibody dynamics analysis, based on an exhaustive treatment of large rotations and finite element modelling, and incorporating useful reference material.

Features include different solution techniques such as:

- * time integration of differential-algebraic equations
- * non-linear substructuring
- * continuation methods
- * nonlinear bifurcation analysis.

In essence, this is an ideal text for senior undergraduates, postgraduates and professionals in mechanical and aeronautical engineering, as well as mechanical design engineers and researchers, and engineers working in areas such as kinematics and dynamics of deployable structures, vehicle dynamics and mechanical design.

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By Brian L.

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For example, the preface indicates Chapter 10 on implicit time integration will provide details of the authors' *implementation* of implicit time integration of multi-body rigid/flexible systems. Nothing could be less accurate. A review of accuracy and stability of some Newmark methods, of the HHT alpha method, and of the "generalized" alpha method is provided, but absolutely nothing is provided in the way of implementation by the authors, as promised in the preface.

The real "meat" of the book is really contained in the referenced works.

The best use you can make of this book is to get the list of references in the book's backmatter, and go to them to get more than the cursory, high-level overviews contained in this over-priced book.

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