



Flexible Multibody Dynamics: Efficient Formulations and Applications

By Arun K. Banerjee

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Flexible Multibody Dynamics: Efficient Formulations and Applications By Arun K. Banerjee

Arun K. Banerjee is one of the foremost experts in the world on the subject of flexible multibody dynamics. This book describes how to build mathematical models of multibody systems with elastic components. Examples of such systems include the human body itself, construction cranes, cars with trailers, helicopters, spacecraft deploying antennas, tethered satellites, and underwater maneuvering vehicles.

This book provides methods of analysis of complex mechanical systems that can be simulated in less computer time than other methods. It equips the reader with knowledge of algorithms that provide accurate results in reduced simulation time.

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Editorial Review

Review

"The book is intended for readers with backgrounds in rigid body dynamics and structural dynamics. It is well written and may be useful for structural engineers and researchers in applied mechanics." (Zentralblatt MATH, 2016)

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