



Rigid Body Dynamics of Mechanisms I: Theoretical Basis

Hubert Hahn

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This monograph presents an introduction into basic mechanical aspects of mechatronic systems for students, researchers and engineers from industrial practice. An overview over the theoretical background of rigid body mechanics is given as well as a systematic approach for deriving and solving model equations of general rigid body mechanisms in the form of differential-algebraic equations (DAE). The objective of this book is to prepare the reader for being capable of efficiently handling and applying general purpose rigid body programs to complex mechanisms. The reader will be able to set up symbolic mathematical models of planar and spatial mechanisms in DAE-form for computer simulations, often required in dynamic analysis and in control design.

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