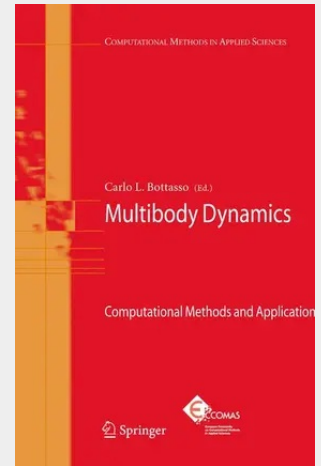


Multibody Dynamics

Computational Methods and Applications

Multibody Dynamics is an area of Computational Mechanics which blends together various disciplines such as structural dynamics, multi-physics - chanics, computational mathematics, control theory and computer science, in order to deliver methods and tools for the virtual prototyping of complex mechanical systems. Multibody dynamics plays today a central role in the modeling, analysis, simulation and optimization of mechanical systems in a variety of ?elds and for a wide range of industrial applications. The ECCOMAS Thematic Conference on Multibody Dynamics was ini- ated in Lisbon in 2003, and then continued in Madrid in 2005 with the goal of providing researchers in Multibody Dynamics with appropriate venues for exchanging ideas and results. The third edition of the Conference was held at the Politecnico di Milano, Milano, Italy, from June 25 to June 28, 2007. The Conference saw the participation of over 250 researchers from 32 di?- ent countries, presenting 209 technical papers, and proved to be an excellent forum for discussion and technical exchange on the most recent advances in this rapidly growing ? eld.

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