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Multibody Systems with Flexible Elements

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Message from the Guest Editors

Dear Colleagues,

Multibody systems with flexible elements represent mechanical systems made by many elastic (and rigid) bodies interconnected meeting a functional, technical or biological assembly. The displacements of each or some of the elements of the system are generally large and cannot be neglected in mechanical modeling. The study of these multibody systems covers many industrial fields but also has applications in medicine, sports, and art. The systematic treatment of the dynamic behavior of interconnected bodies has led to an important number of formalisms for multibody systems within mechanics. At present, this formalism is used in large engineering fields, especially in robotics and vehicle dynamics. The formalism of multicorp systems offers a means of algorithmic analysis, assisted by the computer, and a means of simulating and optimizing an arbitrary movement of a possible high number of elastic bodies in the connection...



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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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