



Lecture No. 96

Czech Society for Mechanics and Institute of Thermomechanics, CAS

invite you to an online research seminar

Numerical simulations of flexible multibody systems described by absolute nodal coordinate formulation

given by

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A large group of real mechanical problems can be modelled and analysed using the approaches of flexible multibody dynamics. The computational models in the form of differential-algebraic equations can be quite complex and therefore it is suitable to develop both efficient and accurate approaches for the dynamic analysis of such model. This talk will be dedicated to the description of various finite elements defined by the absolute nodal coordinate formulation (ANCF), which is suitable for modelling of flexible bodies that undergo large displacements, rotations and deformations. Eligible numerical technics for effective evaluation of the elastic forces as well as suitable integration schemes for multibody systems containing the ANCF elements will be discussed.

The lecture will be held on Wednesday, January 27, 2020 at 13:30

Online via ZOOM meeting

with link https://us02web.zoom.us/j/87861110786

Meeting ID 878 6111 0786