

MATERIAL NONLINEARITY IN SIMULATION OF AEROELASTIC ISSUES

Summary - The aim of the work is to present presents joint of fluid and structure codes into one aeroelastic code with respect to material nonlinearities of the structure. An example of aeroelastic phenomena is influence of wind on structures. Aerodynamic forces from stream of air lead to deformations of the structure and the deformations change aerodynamic forces. Presented paper shows also influence of material nonlinearity on aeroelastic simulations.