



Application of finite elements for computational aeroelasticity

By Ralf Unger

Cuvillier Verlag Okt 2011, 2011. Taschenbuch. Book Condition: Neu. 208x148x22 mm. Neuware - In this thesis, a coupled multiphysical system is considered, whereas the focus is upon aeroelas- tic problems. For a consistent formulation of such coupled systems, an energy based variational formulation is chosen to describe initially the structural and uid subsystem by Hamilton; s prin-ciple. Both basic uid model equations inviscid and viscous uid models - are employed by this weak variational energy principle. This procedure allows to describe the coupled problem by the classical direct two- eld approach as well as by a novel indirect three- eld approach. To discretize the entire system consistently with nite elements, the CBS scheme is employed for the uid domain described by the Navier-Stokes equation in ALE frame of reference. This allows the uid domain to be temporally deformable, which is essential for aeroelastic computa- tions. The CBS scheme is veri ed for a wide range of typical uid problems ranging from inviscid, viscous, incompressible and turbulent ows. A good agreement with data published in literature and with the further solver TAU are found, which underlines the applicability of the CBS scheme for di erent uid ow models. The DG-CBS...



Reviews

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