

Residual Based Error Estimators for Deformation Problems with Large Strain

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After introducing basic geometry description for “large deformations” we arrive at the main non-linear weak formulation of the problem as integrals over the initial (given undeformed) domain. With the most simple material law of linear elasticity we present first results of adaptive FE-simulations. Here, the question of appropriate error estimators for defining the correct mesh control is discussed.

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