

A POSTERIORI ERROR ESTIMATE FOR hp -FEM IN ELASTOPLASTICITY

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ABSTRACT

In this talk an hp -finite element discretization of a mixed variational formulation for a model problem in elastoplasticity with linear kinematic hardening is presented. The existence of a unique discrete solution is stated and some convergence rates for hp -finite elements are shown. The focus lies on the derivation of reliable and efficient a-posteriori error estimates. Numerical experiments demonstrate the theoretical findings.

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