

# A finite element analysis of a penalized Koiter model

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We present a penalized version of Koiter model for linearly elastic shells with little regularity. This model is discretized by a conforming finite element method for which a convergence result holds. We derive residual a posteriori error estimators leading to upper and lower bounds of the discretization error. Finally, we present numerical results validating our method and showing the efficiency of the error estimators.

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