A posteriori error analysis for the obstacle problem of a Naghdi's shell

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This work deals with the finite element approximation of the obstacle problem of the Naghdi shell model. Using a new mixed formulation, we obtain a robust a priori error estimate for the considered mixed formulation. Moreover, we present a reliable and efficient a posteriori error estimator. Numerical tests are included that confirm the efficiency of our residual a posteriori estimator.

References:

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