

Finite element analysis of an unilateral contact problem

Adel Blouza¹

We perform the analysis of the unilateral contact problem between two elastic membranes. We propose a finite element discretization of the corresponding system of variational inequalities and prove its well posedness. We also establish a priori error estimates.

¹Université de Rouen, Mathematics, Avenue de l'Université, BP.12 Technopôle du Madrillet, F76801 Saint-Étienne-du-Rouvray, France,
Adel.Blouza@univ-rouen.fr