

Dedicated to Costică MUSTĂŢA on his 60th anniversary

**ON THE STABILITY OF THE FINITE ELEMENT MIXED
APPROXIMATION FOR
CONTACT PROBLEMS WITH FRICTION**

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Abstract. The aim of the paper is to translate the contact conditions and the stability conditions which include an inf - sup condition for the mixed element method of the contact problems with friction, on the Lagrange multipliers space and on the space of the traces functions called the mortar space.

MSC: 35K85, 49J40

Keywords. Unilateral contact, mixed finite element, Coulomb law, inf - sup condition.