

EXISTENCE RESULTS FOR PROBLEMS IN FRACTURE MECHANICS

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ABSTRACT. We state new existence results for a minimum problem occurring in a variational model of quasistatic growth for brittle cracks. We assume that the integrand appearing in the crack energy can be depend in a discontinuous way on the spatial variable, hence heterogeneous materials can be considered.

KEYWORDS: Semicontinuity, Existence, Capacity, Fractures.

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