

ON THE DUAL METHOD FOR A MODEL PROBLEM WITH A CRACK

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The dual method based on a modified Lagrangian functional is applied to a model problem with a crack. The convergence of the method is investigated under the assumption that the solution of the primal problem is H^1 -regular. The duality relation is established for the primal and dual problems.

Keywords: model problem with a crack, dual method, modified Lagrangian functional, sensitivity functional.

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