

The problem of estimation of flaws' parameters has been realized in two stages. At the first stage, it has been estimated relationship between temperature difference of a heated sample's surface and geometrical parameters of the flaw. For this purpose we have solved a direct heat conduction problem for various combination of the geometrical sizes of the flaw. At the second stage, we have solved an inverse heat conduction problem using the H - infinity method of identification. The results have shown good convergence to real parameters.

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