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APPROXIMATE SOLUTION OF AN INVERSE PROBLEM FOR A SEMILINEAR PARABOLIC EQUATION

Abstract

The goal of the paper is the approximate solution of the inverse problem on definition of the coefficient for the minor term of a semi-linear parabolic equation in the case of a problem with a nonlinear boundary condition. For approximate solution of the inverse problem under consideration, the method of sequential approximations is used. A theorem on convergence of sequential approximations to exact solution is proved.