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THE FIRST BOUNDARY VALUE PROBLEM FOR SECOND ORDER NON-UNIFORMLY DEGENERATE PARABOLIC EQUATIONS IN DIVERGENCE FORM

Abstract

In the paper a class of second order divergent parabolic equations with non-uniform degeneration are considered. The conditions on degeneration rate of eigen values of matrix leading part of elements of equation at fulfillment of which the first boundary value problem has a unique weak solution in corresponding Sobolev weight space are found.