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STRONG SOLVABILITY OF THE FIRST BOUNDARY VALUE PROBLEM FOR DEGENERATE ELLIPTIC-PARABOLIC EQUATIONS OF SECOND ORDER

Abstract

In the work the first boundary value problem is considered for degenerate elliptic-parabolic equations of second order with, generally speaking, discontinuous coefficients. It's supposed that a matrix of senior coefficients satisfies parabolic Cordes condition with respect to space variables. A unique strong (almost everywhere) solvability is established for above mentioned problem in the corresponding weighted Sobolev space.