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THE FIRST BOUNDARY VALUE PROBLEM FOR NON-DIVERGENT LINEAR
SECOND ORDER ELLIPTIC EQUATIONS OF CORDES TYPE

Abstract

In the paper the Dirichlet problem for non-divergent linear second order elliptic equations with, generally speaking, discontinuous coefficients, satisfying the Cordes condition is considered. The unique strong (almost everywhere) solvability of this problem is proved in the space $W_p^2(D)$, where p belongs to some segment containing point 2 .