

**ON SOLVABILITY OF ONE BOUNDARY-VALUE PROBLEM FOR  
OPERATOR - DIFFERENTIAL EQUATIONS OF THE SECOND ORDER  
WITH DISCONTINUOUS COEFFICIENT**

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**ABSTRACT.** In the paper the conditions are obtained providing existence and uniqueness of the regular solution of the boundary problem for class of second order elliptic operator-differential equation with singular coefficients and high term spectrum of which is contained in the certain sectors. The obtained conditions are expressed by the properties of the coefficients. The results have be applied to the boundary problem for a class of elliptic equations.

**Key words:** Normal operator, discontinuous coefficients, regular solvability, Hilbert space.