

SOLVABILITY OF A NON-LOCAL PROBLEM WITH INTEGRAL GLUING CONDITION FOR MIXED TYPE EQUATION WITH ERDELYI-KOBER OPERATORS

OBIDJON KH. ABDULLAEV

Abstract. In this paper the existence and the uniqueness of solution of non-local problem with integral gluing condition for mixed type equation are investigated. Considering loaded parabolic-hyperbolic equation involve the Caputo fractional derivative and Erdelyi-Kober integrals. The uniqueness of solution is proved by the method of integral energy and the existence is proved by the method of integral equations.

Mathematics subject classification (2010): 35M10, 35R11, 35C15.

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