

Sevindj F. BABAYEVA

ON ONE NON-LOCAL BOUNDARY VALUE  
PROBLEM FOR A THIRD ORDER  
OPERATOR-DIFFERENTIAL EQUATION IN  
HILBERT SPACE

**Abstract**

*In the paper, a non-local boundary value problem for a third order operator-differential equation is considered. The equation and boundary conditions were perturbed by some operators. The sufficient conditions providing well-defined solvability of the problem under consideration are obtained. All these conditions are expressed in the terms of the coefficients of the equation and the operator participating in the boundary conditions.*