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INITIAL BOUNDARY VALUE PROBLEMS FOR A
CLASS OF THIRD ORDER
OPERATOR-DIFFERENTIAL EQUATIONS WITH
VARIABLE COEFFICIENTS

Abstract

In the paper on a positive axis we consider initial boundary value problems for a class of operator-differential equations whose principal part undergoes discontinuity. Here obtaining upper estimation of the norm of the intermediate derivatives operators by the principal part of the considered equations we find sufficient conditions of regular solvability of the considered initial boundary value problems.