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ON SOLVABILITY OF A CLASS OF COMPLICATED
CHARACTERISTIC OPERATOR-DIFFERENTIAL
EQUATIONS OF FOURTH ORDER

Abstract

In the paper we find sufficient conditions of regular solvability of fourth order operator-differential equations considered on the real axis. These conditions are expressed only by the operator coefficients of the equation. Therewith we estimate the norms of the intermediate derivatives operators by the principal part of the equation. Notice that the principal part of the investigated equation possesses complicated characteristic.