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

Abstract

In a separable Hilbert space H it was researched a regular solvability of a class of operator-differential equations of fourth order, main part of which contains operator-differential equations with a multiple characteristic. Moreover, a basic operator is normal with spectrum in some sector. Conditions of solvability of the given operator-differential equation on the axis were obtained. These conditions are expressed only by the properties of operator coefficients of the given operator differential equation.