

ESTIMATIONS OF BOUNDED SOLUTIONS OF SECOND ORDER LINEAR DIFFERENTIAL EQUATIONS

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In this paper estimations of bounded solutions of second-order differential equations with bounded operator coefficients are considered. An estimate for the inverse's norm of the operator $L = \frac{d^2}{dt^2} + A(t) : W_p^2(\mathbf{i}, H) \subset L_p \rightarrow L_p$ in L_∞ in terms of its norm in L_2 is obtained. A case of a differential operator with constant coefficients is investigated as well.