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NORMAL BOUNDARY VALUE PROBLEMS FOR DIFFERENTIAL EQUATIONS OF HIGHER ORDER

of

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Mathematics

Abstract: In this work the arbitrary order differential operator expression of the form $\frac{\partial u}{\partial t} + Au(t)$, where A is a bounded normal operator in the Hilbert Space H is considered in the Hilbert Space of vector functions $L_2(H(0,1))$. This paper describes all normal boundary value problem for the indicated differential expression in terms of abstract boundary conditions and determines a connection with other typea of boundary value problems.

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