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SOME SPECTRAL PROPERTIES OF A FOURTH ORDER STURM-LIOUVILLE OPERATOR WITH SPECTRAL PARAMETERS IN THE BOUNDARY CONDITION IN THE DISFOCAL CASE

Abstract

In the paper the fourth order Sturm-Liouville problem with spectral parameter in the boundary condition in the disfosal case is considered. The oscillation properties of eigenfunctions are studied, the basicity in the $L_p(0, l)$, $1 < p < \infty$, of the system of eigenfunctions of this problem with a single chosen eigenfunction is proved.