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ON CONVERGENCE OF SPECTRAL EXPANSION OF ABSOLUTELY CONTINUOUS VECTOR-FUNCTION IN EIGEN VECTOR-FUNCTIONS OF FOURTH ORDER DIFFERENTIAL OPERATOR

Abstract

In the paper, a fourth order ordinary differential operator with matrix coefficients is considered, absolute and uniform convergence of orthogonal expansion of an absolutely continuous vector-function in eigen vector-functions of the given operator is studied, and the rate of uniform convergence of this expansion is established.