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ON COMPLETENESS OF THE SYSTEM OF EIGEN
AND ADJOINT VECTORS OF QUADRATIC
OPERATOR BUNDLES

Abstract

In the paper, sufficient conditions on the coefficients of the quadratic operator bundles of elliptic type are obtained. When these conditions are fulfilled, the system of eigen and adjoint vectors is complete in the trace space of the solutions of appropriate operator-differential equations. The theorems on the completeness of decreasing elementary solutions in the space of regular solutions of a homogeneous equation are also obtained.