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# ON DOUBLE COMPLETENESS OF PART OF ROOT VECTORS OF A CLASS OF POLYNOMIAL OPERATOR BUNDLES OF THE FOURTH ORDER

## Abstract

*The principles of double completeness of part of a system of eigen and adjoint vectors of fourth order operator bundles depending on parameter are established. For some values of parameters the characteristic polynomial of the principal part of an operator bundle has a multiple root. By fulfilling some algebraic conditions imposed on smallness of relative norms of coefficients we obtain a theorem on double completeness of part of a system of root vectors and establish their dependence on parameters.*