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ON FOURFOLD COMPLETENESS OF ROOT
VECTORS OF ONE CLASS OF FOURTH ORDER
OPERATOR BUNDLES DEPENDING ON
PARAMETERS

Abstract

In this paper the principles of four-fold completeness of eigen and adjoined vectors of fourth order operator bundles depending on parameters are established. Under some values of parameters the characteristic polynomial of the leading part of operator bundle has a multiple root. At fulfilling some algebraic conditions imposed on smallness of relative norms of coefficients the theorems on fourfold completeness of eigen and adjoined vectors are obtained, and their dependences on parameters is established.