

Kamil A. KERIMOV

ON COMPLETENESS OF SOME SUBSYSTEMS OF  
DERIVATIVE CHAINS OF A SECOND ORDER  
OPERATOR BUNDLE

Abstract

*In the paper we consider on a semi-axis a second order operator-differential equation with an integral boundary condition, and indicate sufficient conditions on operator coefficients of the boundary value problem at which it is regular solvable. Furthermore, we find the completeness conditions of the chain of eigen and adjoint vectors generated by the considered boundary value problem, and establish the completeness of descending elementary solutions of the operator-differential equation under consideration.*