

Zameddin I. ISMAILOV

THE SECOND-ORDER NORMAL DIFFERENTIAL OPERATORS WITH DISCRETE SPECTRUM

Abstract

In this work we describe all normal extensions of a minimal operator generated by linear differential-operator expression for second-order with normal operator potential in the Hilbert space of vector-functions in finite interval. Later on, we investigate discreteness of spectrum and asymptotical behavior of s -numbers of the inverse of the Dirichlet extension.