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INVESTIGATION OF SPECTRAL PROPERTIES OF THE SECOND ORDER STRONGLY IRREGULAR EQUATION

Abstract

The intensive development of the theory for the equation of mixed type began lately. However the spectrum problem for the model equations of mixed type requires special investigation. For example, the real difficulty appears at the investigation of Tricomi spectrum problem for Lavrentyev-Bitsadze equation. Paper [3] is devoted to the investigation of such equations in special ''model'' situation. In this paper the boundary problem of Neumann type for strongly irregular equation of the second order are studied and the spectral properties of this problem are also investigated.