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ON BASICITY IN $L_p(0, 1)$ ($1 < p < \infty$) OF THE
SYSTEM OF EIGENFUNCTIONS OF ONE
BOUNDARY VALUE PROBLEM. I

Abstract

The basis properties of the spectral problem is investigated for differential operator of the second order with the spectral parameter in both boundary conditions. In this part of the paper the oscillation properties of eigenfunctions are established and the asymptotic formulae are derived for eigen values and eigenfunctions.