

On the convergence of a quadrature-difference method for complete linear singular integro-differential equations on an interval

Fedotov A.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

A quadrature-difference method for solving singular integro-differential equations with a Cauchy kernel is proposed and justified. The solvability of such equations is proved, and the rate of convergence of the approximate solution to the exact one is estimated in the norm of the space of grid functions quadratically summable with a weight. Copyright © 2004 by MAIK "Nauka/Interperiodica".
