

Aygun T. HUSEYNOVA

ASYMPTOTICS OF SOLUTION OF AN INITIAL
VALUE PROBLEM FOR A SYSTEM OF
SINGULARLY PERTURBED LINEAR
INTEGRO-DIFFERENTIAL EQUATIONS OF
FREDHOLM TYPE

Abstract

In the proposed paper it is constructed and researched the asymptotics of solution of initial value problem for the system of singular perturbed linear integro-differential equations of Fredholm's type and it is shown that integral term plays main role for boundedness of solution of the constructed problem as $\mu \rightarrow 0$.