Asymptotical estimation of boundary value problems for singularly perturbed integro-differential equations

Nilupar ATAKHAN

Department of Differential equations and Control theory, Al-Farabi Kazakh National University, Almaty, Kazakhstan
E-mail: atakhan-nilupar@mail.ru

Abstract: We consider the two-point boundary value problem for the singularly perturbed higher order linear integro-differential equation. The constructive formulae and asymptotic estimations for solutions and their derivatives are obtained.

Keywords: singularly perturbation, integro-differential equations, small parameter, asymptotic method, asymptotic expansion, initial jump

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