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ON A BOUNDARY VALUE PROBLEM FOR  
SINGULARLY PERTURBED QUASILINEAR  
ELLIPTIC EQUATION IN CURVILINEAR  
TRAPEZOID

Abstract

*A boundary value problem for an elliptic type quasilinear equation of second order containing a small parameter for higher derivatives is considered in a curvilinear trapezoid. Asymptotic expansion of generalized solution of the considered problem is constructed to within any power of small parameter and remainder term is estimated.*