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ON A BOUNDARY VALUE PROBLEM FOR A
SINGULARLY PERTURBED QUASILINEAR
EQUATION OF NON-CLASSIC TYPE

Abstract

In a rectangular domain we consider a boundary value problem for a non-classic type quasilinear equation of arbitrary odd order, containing a small parameter at the higher derivatives. Complete asymptotic of the solution of the considered problem by small parameter with boundary layer functions near the three sides of a rectangle is constructed and residual term is estimated.