

THE ASYMPTOTIC FORM OF THE SOLUTION OF  
BOUNDARY-VALUE PROBLEM FOR  
QUASILINEAR ELLIPTIC EQUATION IN THE  
RECTANGULAR DOMAIN

Abstract

*In the domain with angular points the first boundary-value problem is considered for the second order quasilinear elliptic equation, containing small parameter at higher derivatives and degenerating to the non-linear hyperbolic equation. The asymptotic expansion of generalized solution of the considered problem is constructed with any exactness and the remained term is estimated.*