

# ON APPLICATION OF TOPOLOGICAL DEGREE TO INVESTIGATION OF SOLUTION SET STRUCTURE FOR ONE CLASS OF INCLUSIONS

*Baranovskii E. S.*

This paper is devoted to the investigation of inclusions  $A(x) \in G(x)$ , where  $A$  is a demicontinuous operator satisfying Skrypnik's condition  $\alpha$ , and  $G$  is a compact decomposable multivalued map. The use of topological characteristics is an effective tool for solving such type of problems. In the present paper we study the properties of the solution set.

The necessity of studying inclusions of various classes arises in the investigation of many problems in the theory of differential equations and optimal control theory.