BOUNDARY VALUE PROBLEM FOR FUNCTIONAL DIFFERENTIAL INCLUSIONS WITH INFINITE DELAY

Basova M.M., Obukhovskii V.V.

We study general boundary value problem for a semilinear functional differential inclusion with infinite delay in a Banach space. We introduce the multivalued condensing integral operator whose fixed points are mild solutions of the above-mentioned problem. This allows to apply the topological degree theory and to obtain the general existence theorem. As examples we consider Cauchy and periodic problems.