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EXISTENCE AND UNIQUENESS OF THE
SOLUTION OF A PROBLEM ON OPTIMAL
CONTROL OF ECOLOGICAL SYSTEMS
DESCRIBED BY ORDINARY DIFFERENTIAL
EQUATIONS

Abstract

In the paper we study the existence and uniqueness of the solution of an optimal control problem for second order ordinary differential equation with Lions functional type quality criterion when the controls appear in the coefficients and in the right side of the equation. The theorems of the existence of even one and unique solution of the problem under consideration are proved.