

Farid Sh. POUR OFOGHI, Yagub A. SHARIFOV

AN OPTIMAL CONTROL PROBLEM FOR
GOURSAT-DARBOUX SYSTEMS WITH
BOUNDARY AND DISTRIBUTED CONTROLS
UNDER NONLOCAL CONDITIONS

Abstract

In the paper we obtain necessary optimality condition with boundary and distributed controls for Goursat-Darboux system under non-local conditions. The boundary conditions are given on the characteristics in the form of solution of a differential equation and the solution of the differential equation satisfies the integral initial-boundary condition.