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INVESTIGATION OF OPTIMALITY OF SINGULAR CONTROLS IN GOURSAT-DARBOUX SYSTEMS

Abstract

The qualitative investigations of singular controls in Goursat-Darboux optimal systems are carried out. The "intermediate" optimality conditions are obtained which complete the series of known results. Besides the optimality conditions of the second order for controls are obtained, singular in sense of simple intermediate conditions. The example which illustrate the richness of content of obtained results are cited.