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VANISHING OF THE SECOND VARIATION OF A FUNCTIONAL AS NECESSARY CONDITION OF SINGULAR CONTROLS OPTIMALITY

Abstract

The necessary second order equality type optimality condition of is obtained being the source of series of the known optimality conditions.

In the present paper using the method from [1] considering the general case of generation (an arbitrary rank of Legendre-Clebsch matrix) the necessary optimality condition of equality type in new formulation is obtained.