

NECESSARY AND SUFFICIENT CONDITIONS FOR OPTIMAL IMPULSIVE CONTROL PROBLEMS

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In this paper controlled system with impulsive controls in the neighborhood of abnormal point is investigated. The concept of 2-normality which plays a greater role in the course of derivation of the first and second order necessary conditions for optimal control problem is introduced in this article. Sufficient conditions of 2-normality are resulted in this article. Besides that sufficient conditions of optimality for 2-normality systems are received.