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AN OPTIMAL CONTROL PROBLEM WITH NONLOCAL CONDITIONS FOR WAVE EQUATION

Abstract

Some problems of modern physics and technology can be effectively described in terms of nonlocal problems for differential equations. These nonlocal conditions show that some data on domain are inaccessible to the measurement. Therefore some averaged data of problem are given [see 1,2]. In the present paper we derive the necessary condition of optimality in the optimal control problem for wave equation with nonlocal boundary conditions.