

OPTIMAL CONTROL FOR A DISTRIBUTED PARAMETER AND DELAYED – TIME SYSTEM BASED ON THE NUMERICAL METHOD

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TÓM TẮT:

This paper deals with the optimal control problem for a distributed parameter system with time delay (DPSTD). The system is applied to control a thermal process. The target of problem is to minimize the error between distribution of real temperature and that of desired temperature in a given period of time. By replacing the minimization of a cost function with that of a multivariable function, the numerical method can be used to give the solution based on the nonlinear or linear programming.