论文

A NEW APPROACH ON IDENTIFICATION OF BOUNDARY PARAMETER FOR A TWODIMENSIONAL DIFFUSION SYSTEM

Hu Shunju, Wang Guoli

Department of Computer and System Sciences, Nankai University, Tianjin, China

收稿日期   修回日期   网络版发布日期   接受日期

摘要   This paper presents a new approach of the boundary parameter identification of adiffusion system. The system model is governed by a two-dimensional parabolic problem, which involves an unknown boundary parameter. Identifiability of the boundary parameter and the new approach are discussed briefly, which show that the new approach can overcome not only the ill-posedness of the nonlinear output least square method but also the difficulty of numerical computation of the nonlinear output least square estimate due to the existence of the local minima of the performance functional, Finally, some numerical examples are given.

关键词   Boundary parameter identification, Local
分类号

DOI:

通讯作者