
An Inverse Nonlinear Diffusion Problem

ABDULLAH SHIDFAR[#] AND KAVOOS TAVAKOLI[†]

Department of Mathematics

Iran University of Science and Technology, Iran

E-mail: [#]shidfar@iust.ac.ir, [†]mathktavakoly@yahoo.com

The problem of identifying of the coefficient in a square porous medium will be considered. It is shown that under certain conditions of data f, g , and for a properly specified class A of admissible coefficients, there exists at least one a_* in admissible coefficients such that (a_*, u) is a solution of the corresponding inverse problem.