PREPRINT 94-3

28 pages

LUTZ RECKE: Solvability Properties of Linear Elliptic Boundary Value Problems 8with Non-smooth Data

Abstract: In this paper linear elliptic boundary value problems of second order with non-smooth data (L^∞-coefficients, Lipschitz domain, mixed boundary conditions) are considered. It is shown that the weak solutions are Hölder continuous and that they depend smoothly – in the sense of Hölder spaces – on the coefficients of the equation.