On a version of hybrid existence result for a system of nonlinear equations

Igor Kossowski

Combining monotonicity theory related to the parametric version of the Browder-Minty Theorem with fixed point arguments we obtain hybrid existence results for a system of two operator equations. Applications are given to a system of boundary value problems with mixed nonlocal and Dirichlet conditions. The above results were obtained jointly with Michał Bełdziński and Marek Galewski.

Igor Kossowski, Institute of Mathematics, Lodz University of Technology

e-mail : `igor.kossowski@p.lodz.pl`