

## ON NONLINEAR VARIATIONAL INEQUALITIES FOR P-CONVEX MAPS IN REFLEXIVE BANACH SPACES

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**Abstract.** In this paper we prove some results on minimax inequalities for  $p$  - convex mappings and we also show the existence of solutions of certain nonlinear variational inequalities. As corollaries, some results on the fixed points, coincidence points and best approximations are obtained.

**Key Words and Phrases:**  $p$  - convex function, nonlinear variational inequality, best approximations, coincidence theorem, fixed-point theorem.

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