

A CLASS OF RELAXED γ - r -COCOERCIVE NONLINEAR VARIATIONAL INEQUALITIES AND CONVERGENCE OF PROJECTION METHODS

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Abstract. Let K be a nonempty closed convex subset of a real Hilbert space H . Approximation-solvability of a class of relaxed γ - r -cocoercive nonlinear variational inequality (NVI) problems, based on the convergence of projection methods, is discussed as follows: find an elements $x^* \in K$ such that

$$\langle T(x^*), x - x^* \rangle \geq 0 \quad \forall x \in K$$

where $T : K \rightarrow H$ is a nonlinear mapping on K .

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