

## ON THE TWO-STEP PROJECTION METHODS AND APPLICATIONS TO VARIATIONAL INEQUALITIES

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*Abstract.* The purpose of this paper is, by using the two-step projection methods, to study the convergence analysis and the approximation solvability of the system of nonlinear variational inequalities in the setting of Hilbert spaces. The results presented in this paper generalize and improve the corresponding results in Verma [4].

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*Key words and phrases:* two-step projection method, system of nonlinear variational inequalities,  $r$ -strongly monotone mapping,  $\mu$ -Lipschitz mapping.

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