



Semicoercive Variational-hemivariational Inequalities with Unilateral Growth Conditions

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Abstract. A variational-hemivariational inequality on a vector valued functions space is studied with the nonlinear part satisfying the unilateral growth condition. The higher order term is assumed to be pseudo-monotone and semicoercive. The existence result has been obtained by making use of the theory of pseudo-monotone operators combined with the Lipschitz regularization of the nonlinear part.

Key words: Compatibility condition, Recession functional, Semicoercive variational-hemivariational inequality, Unilateral growth condition

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