GENERALIZED NONLINEAR QUASI-VARIATIONAL-LIKE INEQUALITIES FOR SET-VALUED MAPPINGS IN BANACH SPACES

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Abstract. In this paper, we introduce and study a new class of generalized nonlinear quasi-variational-like inequalities for set-valued mappings in Banach spaces. Using the KKM technique, we prove the existence and uniqueness of solution for this class of generalized nonlinear quasi-variational-like inequalities for set-valued mappings in Banach spaces. Our results extend and improve some main results of Verma.


Key words and phrases: Generalized nonlinear quasi-variational-like inequality, Generalized monotone type mapping, Generalized Lipschitzian type mapping, KKM mapping.

REFERENCES