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On Generalized Monotone Multifunctions with Applications to Optimality Conditions in Generalized Convex Programming

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Abstract: Characterization of quasiconvexity and pseudoconvexity of lower

semicontinuous functions on Banach spaces are presented in terms of abstract subdifferentials relying on a Mean Value Theorem. We give some properties of the normal cone to the lower level set of *f*. We also obtain necessary and sufficient optimality conditions in quasiconvex and

pseudoconvex programming via variational inequalities.

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