A New Subdifferential in Quasiconvex Analysis

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Abstract: We introduce a new notion of subdifferential, which we call Q-subdifferential, for functions defined on subsets of normed spaces. The Q-subdifferential is a subset of the Greenbeg-Pierskalla quasi-subdifferential and is therefore useful in quasiconvex analysis.

Keywords: Greenberg-Pierskalla quasi-subdifferential, Frechet subdifferential, quasiconvexity

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