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# Strict Feasibility of Variational Inequalities in Reflexive Banach Spaces

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摘要

关键词    variational inequalities   well-positioned sets   barrier cone   strict feasibility   stably properly quasi\-monotone

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## Strict Feasibility of Variational Inequalities in Reflexive Banach Spaces

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**Abstract**  Strict feasibility is proved to be an equivalent characterization of (dual) variational inequalities having a nonempty bounded solution set, provided the mappings involved are stably properly quasi\-monotone. This generalizes an earlier result from finite-dimensional Euclidean spaces to infinite-dimensional reflexive Banach spaces. Moreover, the monotonicity-type assumptions are also mildly relaxed.

**Key words**   variational inequalities   well-positioned sets   barrier cone   strict feasibility   stably properly quasi\-monotone

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