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Abstracts

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Qusiconvex Sets in the Stability Theory

We consider the class of continuous $W^k_{\infty,\mathrm{loc}}$-solutions of the differential inclusion $D^k u \in K$, where $u : U \subset \mathbb{R}^n \to \mathbb{R}^m$ and where K is a given compact set of k-linear maps from $\mathbb{R}^n$ into $\mathbb{R}^m$. We establish that this class is stable in C^{k-1}-norm if K is quasiconvex. We also discuss some properties of quasiconvex sets.

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