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An existence theorem for some nonconvex hyperbolic differential inclusions. (English)

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Summary: A version of Filippov's theorem concerning the existence of solutions to Darboux problems for hyperbolic differential inclusions is obtained using the contraction principle in the space of selections of the multifunction instead of the space of solutions.

MSC:

34A60 Ordinary differential inclusions

Cited in 1 Document

Keywords:

set-valued map; hyperbolic differential inclusion; contraction principle