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Lipschitz continuous solutions to the Cauchy problem for quasi-linear hyperbolic systems.
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Summary: Lipschitz continuous solutions to the Cauchy problem for 1-D first order quasilinear hyperbolic systems are considered. Based on the methods of approximation and integral equations, the author gives two definitions of Lipschitz solutions to the Cauchy problem and proves the existence and uniqueness of solutions.

MSC:

35L45 Initial value problems for first-order hyperbolic systems
35D30 Weak solutions to PDEs
35L60 First-order nonlinear hyperbolic equations

Cited in **2** Documents

Keywords:

existence and uniqueness; one space dimension

Full Text: [DOI](#)

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