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**Boundary condition for systems of hyperbolic conservation laws. (Condition à la limite pour un système de lois de conservation.)** (French) [Zbl 0634.35046](#)

C. R. Acad. Sci., Paris, Sér. I 304, 75-78 (1987).

We propose a formulation of the boundary condition for non linear hyperbolic systems of conservation laws. It is based on the notion of Riemann problem and leads to a “well posed” problem. The equivalence with classical formulations is established for both linear and non convex scalar cases. The study of isentropic Euler equations gives a non trivial example which is graphically detailed.

**MSC:**

[35L65](#) Hyperbolic conservation laws

[35L50](#) Initial-boundary value problems for first-order hyperbolic systems

[35A05](#) General existence and uniqueness theorems (PDE) (MSC2000)

Cited in 4 Documents

**Keywords:**

boundary condition; systems of conservation laws; Riemann problem; well posed; non convex; isentropic Euler equations