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**Study of boundary conditions for a strictly hyperbolic system via the parabolic approximation. (Étude des conditions aux limites pour un système strictement hyperbolique via l'approximation parabolique.)** (French. Abridged English version) [Zbl 0808.35075](#)

C. R. Acad. Sci., Paris, Sér. I 319, No. 4, 377-382 (1994).

**Summary:** We consider a hyperbolic system of conservation laws with boundary conditions in one space variable. We search the boundary conditions in order to have a well posed initial boundary value problem in the quarter plane  $x > 0, t > 0$ . We use the viscosity method; we study the solutions perturbed by a viscous term  $\varepsilon > 0$  and in particular the behaviour of the boundary conditions as  $\varepsilon$  tends to zero.

**MSC:**

[35L65](#) Hyperbolic conservation laws

[35B40](#) Asymptotic behavior of solutions to PDEs

Cited in **1** Review  
Cited in **23** Documents

**Keywords:**

viscosity method