# Corrigendum

Vol. 30, No. 1 (1979), in the article "Numerical Solution of a Nonlinear Hyperbolic Equation by the Random Choice Method," by Paul Concus and Wlodzimierz Proskurowski, pp. 153–166:

The discussion printed in our paper [1] does not identify properly all possible cases for the solution of the Riemann problem

$$\frac{\partial v}{\partial t} + \frac{\partial}{\partial x} f(v) = 0, \qquad t > 0, \tag{2}$$

$$v(x, 0) = \begin{cases} u_L, & x \leqslant 0, \\ u_R, & x > 0 \end{cases} \tag{5}$$

for $f(v)$ having exactly one inflection point $(u_I, f(u_I))$ in the interval of interest and for which $f'(u_I) \geqslant f'(v) \geqslant 0$. To complete the description of the solution of (2) and (5) given in Section 3.2 of [1], amend case (Ib) to read:

(Ib) if $a(u_L) < a(u_R)$, the state $v = u_L$ is connected to the state $v = u_R$ by an expansion wave when $u_I$ does not lie between $u_L$ and $u_R$; when $u_I$ does lie between $u_L$ and $u_R$ the states are connected by a compound expansion wave and shock, according to (IIa) or (IIb).

For the compound wave, solution (6c) and Fig. 5 of [1] apply.

REFERENCES

1. P. Concus and W. Proskurowski, *J. Comput. Phys.* **30**, 153 (1979).

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