=== **ERRATA** ===

Erratum: "Capabilities of a Quasi-Gasdynamic Algorithm as Applied to Inviscid Gas Flow Simulation" [*Computational Mathematics and Mathematical Physics*, 49 (3), 532−548 (2009)]

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In T.G. Elizarova and E.V. Shil'nikov's paper "Capabilities of a Quasi-Gasdynamic Algorithm as Applied to Inviscid Gas Flow Simulation" published in **49**, (3) 532−548 (2009), the following corrections have to be made. An error has been corrected in the computer code calculating the heat flux $q = -\kappa \partial T/\partial x$. As a result, the internal energy in Problems 2, 3, and 3a was computed more accurately. After correcting the error, the Prandtl number in all the runs was set equal to 1 and did not have to be tuned. The other results presented in the paper remained unchanged. Below are the corrections of the text and the new plots:

Test 2. The internal energy distribution in Fig. 4 is replaced by Fig. 1 below. The computation was performed for $\alpha = 0.1$.

Test 3. *Noh problem.* Figures 5−8 are eliminated from the paper. A slight decrease in the density distribution and a maximum in the internal energy distribution in the center of the computational domain are smoothed as the spatial mesh size decreases. Figure 9 corresponds to Pr = 1. Thus, the entropy wake in this problem is very small.
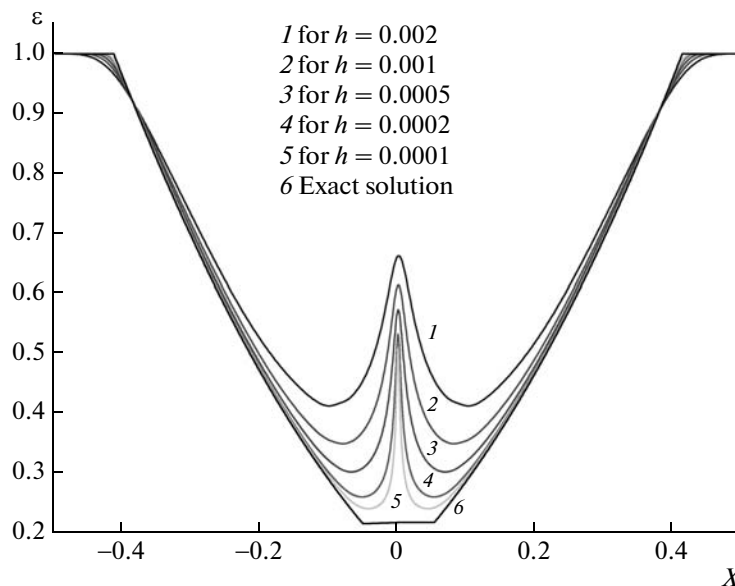

1 for $h = 0.002$
2 for $h = 0.001$
3 for $h = 0.0005$
4 for $h = 0.0002$
5 for $h = 0.0001$
6 Exact solution

Fig. 1. Test 2: internal energy distribution ε. Convergence with a decreasing mesh size.
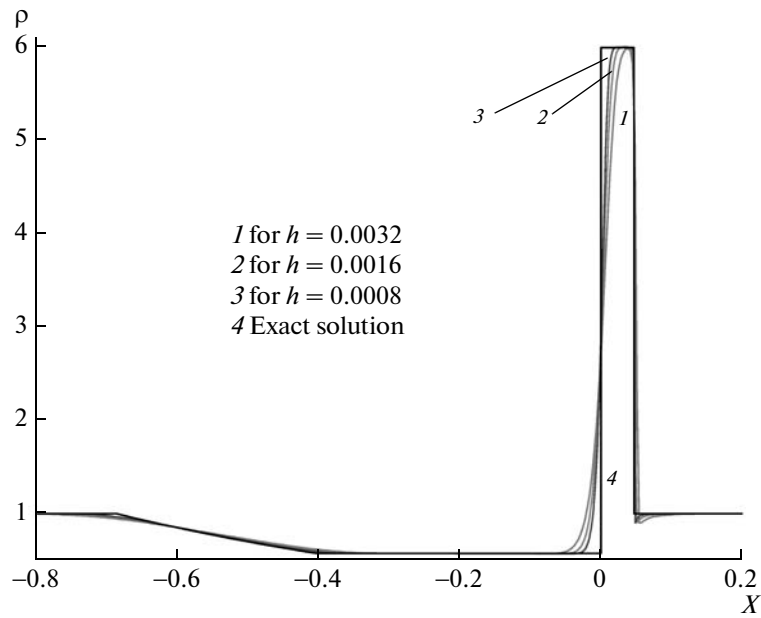
Fig. 2. Test 3a: density distribution ρ. Convergence with a decreasing mesh size.

Test 3a. Figure 11 is eliminated from the paper, and Fig. 12 is replaced with Fig. 2 below. The computations were performed at $Pr = 1$, $\alpha = 0.4$.