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CORRIGENDUM

Analytical model of the linear Richtmyer–Meshkov instability when a shock is reflected – CORRIGENDUM

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The author apologises for errors in the above article which do not modify the results or conclusions.

Equation (9.28) from page was missing a minus sign. It should read:

$$F_a = v_{ac}^{\infty} + u_c^{\infty} = -\Omega_a \sinh \chi_t \, P_t(q_a = \chi_t) \tag{1}$$

In addition corrected versions of tables 1, 2, 3 and 4 are below:

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s	$R_0=\rho_{a0}/\rho_{b0}$				
	1.1	2.0	4.0	8.0	16.0
			(a)		
1.0	0.0053696	0.03494	0.06483	0.08776	0.09384
	0.0040	0.0310	0.064	0.094	0.11
0.5	0.0175	0.1041	0.1504	0.151464	0.1299
	0.015	0.093	0.1400	0.15	0.13
0.05	0.002093	0.01246	0.018077	0.01839	0.01599
	0.0021	0.0120	0.0180	0.0180	0.016
			(b)		
1.0	0.016	0.09611	0.1426	0.14806	0.1302
	0.014	0.089	0.14	0.1600	0.1400
0.5	0.00865	0.05151	0.07476	0.07601	0.066
	0.0081	0.049	0.072	0.075	0.065
0.05	0.0007845	0.004663	0.00676	0.00687	0.00597
	0.00078	0.0046	0.0067	0.0068	0.0060
			(c)		
1.0	0.035925	0.08158	0.162256	0.2127453	0.221640
	−0.0038	0.071	0.14	0.1900	0.20
0.5	0.003737	0.06444	0.101729	0.1076	0.09523
	0.0040	0.064	0.10	0.11	0.095
0.05	0.001196	0.00736	0.01047	0.01045	0.008934
	0.0012	0.0073	0.0100	0.0100	0.0089

Table 1. Ripple's terminal velocity as given by (9.31) J. Fluid Mech. 1022, A29 (2025), and the numerical simulations of Y. Yang, Q. Zhang, D. Sharp, Phys. Fluids 6, 1856 (1994). The upper number in each entry is (9.31) of J. Fluid Mech. 1022, A29 (2025) and the lower one is the result shown in Table 1 of YZS. The adiabatic exponents are: (a) $\gamma_a=\gamma_b=1.1$, (b) $\gamma_a=\gamma_b=3.0$, (c) $\gamma_a=3.0$, $\gamma_b=1.5$.

s	u_c^∞	u_{FC}
0.05	0.0159396	0.017068
0.5	0.13025268	0.151162
0.75	0.11193070	0.2081915
0.80	0.0911927	0.214407
0.85	0.05269	0.274836
1.0	0.0354382	07502743

Table 2. Comparison between u_c^∞ and u_{FC} for the Air-SF_6 configuration. u_c^∞ is (9.31) of J. Fluid Mech. 1022, A29 (2025), while u_{FC} is given by (31.2) of the same reference.

s	u_c^∞	u_{FC}
0.05	0.06782	0.01047
0.5	0.05786	0.06525
0.75	0.06281	0.09174
0.80	0.05897	0.095207
0.85	0.05269	0.09773
1.0	0.01579	0.0976

Table 3. Comparison between u_c^∞ and u_{FC} for the Air-CO_2 configuration. u_c^∞ is (9.31) of J. Fluid Mech. 1022, A29 (2025), while u_{FC} is given by (13.2) of the same reference.

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s	u_c^∞	u_{FC}
0.05	0.011	0.00825
0.5	0.10375	0.115622
0.75	0.124848	0.166438
0.80	0.12318	0.1204
0.85	0.118981	0.1852606
1.0	0.092396	0.190019

Table 4. Comparison between u_c^∞ and u_{FC} for the Ar-Xe configuration. u_c^∞ is (9.31) of Wouchuk (2025), while u_{FC} is given by (31.2) of the same reference.

Reference

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