

ERRATUM | FEBRUARY 01 1992


Erratum: “The estimated scalar dissipation rate in gas-phase turbulent jets” [Phys. Fluids A 3, 2229 (1991)] **FREE**

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Erratum: "The estimated scalar dissipation rate in gas-phase turbulent jets" [Phys. Fluids A 3, 2229 (1991)]

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A coding error in one of the data reduction routines was recently discovered. The changes listed here stem from the correction of this error and a few proofreading oversights.

- (1) The dimensionless constant in Eq. (10) should be 0.243 instead of 0.205. The calculated values from Eq. (10) that appear in Table II should also be corrected to reflect this change. Note that the columns labeled [Eq. (11)] and [Eq. (16)] in Table II should have been labeled [Eq. (10)] and [Eq. (15)], respectively.
- (2) The values in the mean-peak-width column of Table I should be $3.5 \pm 0.1 \times 10^{-3}$ at $Re_0 = 5000$, $1.8 \pm 0.1 \times 10^{-3}$ at $Re_0 = 16\ 000$, and $1.0 \pm 0.1 \times 10^{-3}$ at $Re_0 = 40\ 000$.
- (3) The data points and the minus-one-half-slope line in Fig. 7 should be shifted up by roughly $\log_{10}(1.2) \approx 0.08$ (see replotted version of Fig. 7).
- (4) The probability density functions in Figs. 3–5 should be shifted outward along the horizontal axis until the mean of each distribution is roughly a factor of 1.2 larger.
- (5) The captions of Figs. 9 and 10 should refer to Eqs. (13) and (14), respectively.
- (6) In the paragraph below Eq. (A6), $-\log_{10}(\sqrt{0.7}) \approx 0.08 \neq 0.15$.

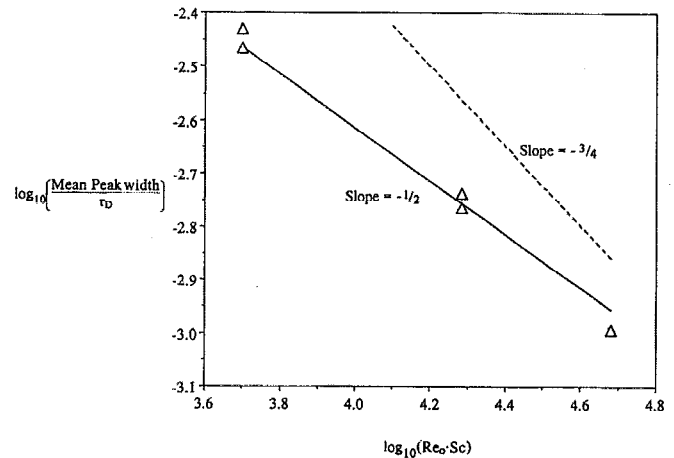


FIG. 7. Logarithm of the mean peak width of $(dC/dt)^2$ on the jet centerline scaled by τ_D versus the logarithm of the product of the Reynolds number and the Schmidt number. The solid line is given by $0.243/\sqrt{Re_0 Sc}$. The pair of plotted points at $Re_0 = 5000$ and $16\ 000$ represent the high and low from the range of mean peak-widths determined at the different downstream locations.

These changes do not impact the major results of the article, and do not change any of the conclusions. I apologize for not having caught these errors in a more timely manner. I hope that this short note adequately corrects my mistakes.

13 June 2024 09:37:21